UMAYX

/ PASLANMAZ ÇELİK & ENDÜSTRİYEL TEDARİK

PASLANMAZ ÇELİK ÜRÜN KATALOĞU

TEDARİKTE GÜÇ · KALİTEDE GÜVEN



BORU · PROFİL · SAC · FİTTİNG · FLANŞ · VANA · HİJYENİK EKİPMAN

UMAYX.COM KARAMAN / TR

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/ HAKKIMIZDA

TEDARİKTE GÜVEN İNŞA EDİYORUZ

UmayX, paslanmaz çelik ve endüstriyel malzeme tedarikinde uzmanlaşan Karaman merkezli bir çözüm ortağıdır.

Gıda, kimya, enerji ve tekstil başta olmak üzere birçok sektöre boru, profil, sac, fitting ve bağlantı elemanları tedarik ediyoruz. Kalite, güvenilirlik ve yenilikçilik ilkeleriyle iş ortaklarımıza değer katıyor; Türkiye'den dünyaya güvenilir çözümler sunuyoruz.

Ürün gamımızda 430, 304/304L, 316/316L/316Ti, 321 ve 309/310S kalitelerinde dikişli ve dikişsiz endüstriyel borular, SMS ve DIN 11850/11851 hijyenik borular, profiller, bağlantı elemanları, 3000 LB SW/NPT dövme çelik fittings ve vana grubu yer alır. Sertifikalı ürünlerimiz, zamanında teslimat güvencemiz ve teknik danışmanlık ekibimizle üretim hatlarınızın kesintisiz işlemesini sağlıyoruz.



/ MİSYONUMUZ

DOĞRU MALZEME, DOĞRU ZAMAN

Doğru malzemeyi doğru zamanda ve doğru kalitede tedarik ederek iş ortaklarımızın üretim süreçlerini güvence altına almak. Şeffaf, izlenebilir ve çözüm odaklı tedarik anlayışımızla müşterilerimizin beklentilerini en üst seviyede karşılamak ve uzun vadeli iş ortaklıkları kurmak.

/ VİZYONUMUZ

GELECEĞİN TEDARİK AĞI

Güçlü tedarik ağı, sistemli süreçleri ve sürdürülebilir çözümleriyle Türkiye'den dünyaya uzanan; paslanmaz çelik ve endüstriyel tedarikte ilk akla gelen güvenilir çözüm ortağı olmak ve geleceğin tedarik ağını bugünden kurmak.

/ İLKELERİMİZ · 6S

6 İLKE, TEK BİR SÖZ: GÜVEN

01 SIMPLE
SADE
Karmaşayı ortadan kaldıran, anlaşılır ve şeffaf tedarik süreçleri.

02 SUSTAINABLE
SÜRDÜRÜLEBİLİR
Çevreye duyarlı, uzun ömürlü ve geri dönüştürülebilir çözümler.

03 SYSTEMIC
SİSTEMLİ
Uçtan uca planlı, izlenebilir ve ölçülebilir tedarik zinciri.

04 SMART
AKILLI
Veriye dayalı, verimli ve maliyet-etkin lojistik modelleri.

05 SINCERE
SAMİMİ
Dürüst, açık ve uzun vadeli iş ortaklığına dayalı ilişki.

06 STRONG
GÜÇLÜ
Güçlü tedarik ağı, yüksek stok kapasitesi ve kesintisiz teslimat gücü.

/ ABOUT US

BUILDING TRUST IN SUPPLY

UmayX is a Karaman-based solutions partner specialized in the supply of stainless steel and industrial materials.

We supply pipes, profiles, sheets, fittings and connection elements to a wide range of industries, led by food, chemicals, energy and textiles. Guided by quality, reliability and innovation, we add value to our business partners and deliver dependable solutions from Türkiye to the world.

Our product range covers welded and seamless industrial pipes in grades 430, 304/304L, 316/316L/316Ti, 321 and 309/310S, SMS and DIN 11850/11851 hygienic pipes, profiles, fittings, 3000 LB SW/NPT forged steel fittings and valves. With certified products, on-time delivery assurance and our technical consulting team, we keep your production lines running without interruption.



/ OUR MISSION

THE RIGHT MATERIAL, ON TIME

To safeguard our partners' production processes by supplying the right material, at the right time and in the right quality. To meet our customers' expectations at the highest level through a transparent, traceable and solution-oriented approach to supply, and to build long-term partnerships.

/ OUR VISION

THE SUPPLY NETWORK OF THE FUTURE

To be the first-choice, trusted solutions partner in stainless steel and industrial supply, reaching from Türkiye to the world with a strong supply network, systematic processes and sustainable solutions, and to build the supply network of the future, today.

/ OUR PRINCIPLES · 6S

6 PRINCIPLES, ONE PROMISE: TRUST

01 SIMPLE
SADE
Clear, transparent supply processes that remove complexity.

02 SUSTAINABLE
SÜRDÜRÜLEBİLİR
Environmentally conscious, long-lasting and recyclable solutions.

03 SYSTEMIC
SİSTEMLİ
End-to-end planned, traceable and measurable supply chain.

04 SMART
AKILLI
Data-driven, efficient and cost-effective logistics models.

05 SINCERE
SAMİMİ
Honest, open relationships built on long-term partnership.

06 STRONG
GÜÇLÜ
A strong supply network, high stock capacity and uninterrupted delivery.

Uluslararası Paslanmaz Çelik Standartları

Paslanmaz çelikler neredeyse tüm sanayi kollarında kullanılmaktadır ve çok çeşitli kalite ve standartları bulunmaktadır. Bunlara 201, 303, 304, 304L, 316, 316L, 316TI, 420, 430, 430F, 431 gibi standartlar örnek olarak verilebilir. Uluslararası Paslanmaz Çelik Standartları Aşağıda ki tablo da bu standartlarını ve açıklamalarını bulabilirsiniz.

Standart

201 202	İyi derecede mekanik ve korozyon direnci özelliklerinin yanı sıra cazip fiyatları ile de tercih edilen ürünlerdir. Otomobil jant kapakları, pencere çerçeveleri, kapı , menteşe elemanları, lavabo, mutfak ve restoran ekipmanları, fırınlar, buzdolapları, gıda – içecek, süt ve süt ürünleri işleme alanlarında sıkça kullanılır.
303	Paslanmaz çeliğin otomatı olarak da adlandırılmaktadır. İçerdiği sülfürün neticesinde bu kalitedeki malzemelerin işlene bilirliği yüksek seviyededir. Buna karşın sülfür malzemenin korozyona dayanıklılığını düşürmektedir. Bu sebeple korozyona dayanıklılığı 304 kaliteye oranla daha düşüktür
304	Paslanmaz çeliğin en yaygın olarak kullanılan kalitelerinden biridir. Kimyasal bileşiminin, mekanik özelliklerinin, kaynak yapılabilirliğinin ve korozyon-oksidayson direncinin iyat/performans olarak iyi olması sebebiyle tercih edilmektedir. Düşük sıcaklıklardaki özellikleri ve işleme sertleştirmesine verdikleri tepki mükemmeldir 600 – 650 dereceye kadar yüksek oksidasyon mukavemeti sağlar. Kimya, petrokimya, gıda, mutfak, otomotiv sanayisinde, tüm sıhhi tesisat malzemelerinde tıp endüstrisinde, asansör kabini uygulamalarında ve her türlü dekorasyon işlerinde kullanılır
304L	304 kalite paslanmaz çeliğe oranla daha az karbon ve daha fazla içermektedir. İşlene bilirliği daha zor olmakla birlikte mekanik özellikleri dede 304 kalite paslanmaz çeliğe göre daha düşüktür.
316	Nikel (Ni) ve Molibden (Mo) eklenerek elde edilen bir kalitedir. Bu içerik sayesinde korozyona dayanımı sert koşullu ortamlarda (deniz suyu, asidik sıvılar vs.) dahi yüksek seviyededir. Kopma dayanımı da 304 kalite malzemelere göre daha yüksek seviyededir. 850 dereceye kadar olan sıcaklıkta oksidasyona dirençli, mekanik ve çekme mukavemeti yüksektir. Kimya, petro-kimya ve gıda sanayinde kullanılan buhar kazanlarında, meyve-suyu ve likör üretimi, tekstil makinaları ve et işleme ünitelerinde kullanılır.
316L	316 kalite paslanmaz çeliğin düşük karbonlusudur ve kalın kesitlerde kaynak sonrası tavlama gerektirmez. Parçalar kaynakla birleştirildiğinde ısınmadan ötürü korozyon riskiyle karşı karşıya kalındığı için, bu tür durumlarda kullanılması uygundur.
316Tİ	İçerisine %0.5 civarında Titanyum (Ti) eklenmiş bir çelik kalitesidir . Eğer malzeme 550 – 800° C arası yüksek sıcaklığa uzun süre maruz kalacaksa, 316Ti kalite paslanmaz çelik kullanılmalıdır
316-310s	25/20 paslanmaz çelik ve düşük karbon içeriğiyle yüksek sıcaklıklarda ve nemli ortamlarda tercih edilir. Tipik ateşe dayanıklı kalite yaklaşık 1100°C'ye kadar oksidasyona karşı mükemmel dayanıklıdır. 800°C'ye kadar sürtünme kabiliyeti yüksektir. 900°C'den fazla sıcaklıklarda devamlı çalışma durumunda sigma oluşumuna yol açar.Buda iç korozyona karşı duyarlı hale gelir Kaynak yapılabilir fakat iç korozyon olabilir. Kimya perokimya endüstrisinde ısı değiştirgeçlerinde fırın tüplerinde kullanılır
317	321 kalitenin niobyum stabileli şeklidir. 321 kaliteye benzer özelliklere haizdir. Bütün sıcaklıklarda işlenebilir. Yaklaşık 900°C'ye kadar yüksek ısı oksidasyonuna karşı dayanıklılığı iyidir. Mekanik ve sürtünme dayanıklılığı çok iyidir. Gerilme korozyon çatalığına hassatır. Isıl işlem uygulanmadan kaynak yapılabilir, bükülebilir ve genişletilebilir. Kimya ve petrokimya endüstrisinde boru ve ısı değiştirgeçlerinde kazanlarda ve süper heaterlerde ve konserve sanayinde kullanılır.
321	Bu kalitenin 900°C'ye kadar olan yüksek ısılarda oksidasyon mukavemeti yüksektir. Çok iyi mekanik ve sürtünme mukavemetine sahiptir. kullanılır. Matbaa bıçaklarında, egzozlarda, tuz makinelerinde, kimya ve petrokimya sanayinde
347	321 kalitenin niobyum stabileli şeklidir. 321 kaliteye benzer özelliklere haizdir. Bütün sıcaklıklarda işlenebilir. Yaklaşık 900°C'ye kadar yüksek ısı oksidasyonuna karşı dayanıklılığı iyidir. Mekanik ve sürtünme dayanıklılığı çok iyidir. Gerilme korozyon çatalığına hassatır. Isıl işlem uygulanmadan kaynak yapılabilir, bükülebilir ve genişletilebilir. Kimya ve petrokimya endüstrisinde boru ve ısı değiştirgeçlerinde kazanlarda ve süper heaterlerde ve konserve sanayinde kullanılır.
420	En belirgin özelliği gerilime dayanımının yüksek olmasıdır. Normal şartlar altında bu malzeme iyi bir korozyon direncine sahiptir ve tavlanmış haliyle işene bilirliği de iyidir.
430	Ferritik sınıfına giren düşük karbonlu ve krom içerikli bir kalitedir. Kaynak yapılabilirliği sınırlıdır. Nikel (Ni) ve molibden (Mo) içermediğinden dolayı 300 serisi paslanmaz çeliklerden daha ucuzdur. İyi bir yüzey görünümüne sağlamakla birlikte nikel içermediği için mıknatıslanma yapabilir. 550 – 600 dereceye kadar olan ısılarda oksidasyon direnci yüksektir. Rutubetsiz ortamlarda, oto aksesuarlarında makine aksesuarlarında ve dekoratif amaçlı kullanılmaktadır.
430F	Sülfür içermesinden dolayı, işlene bilirliği 430 kalite paslanmaz çeliğe oranla daha iyidir. Ancak sülfür az da olsa malzemenin korozyon rezistansını düşürür. Hem krom hem de nikel içeren bir paslanmaz çelik türüdür. Isıl işlemle birlikte kopmaya karşı direnci çok yüksek hale getirilebilen bir çelik kalitesidir. yüzey yapısına sahiptir Isıyı iyi iletir ve polisaj için uygun bir malzemedir. Sıcak ortamda bile iyi bir

International Stainless Steel Standards

Stainless steels are used in almost all branches of industry and have a wide range of qualities and standards.Standards such as 201, 303, 304, 304L, 316, 316L, 316TI, 420, 430, 430F, 431 can be given as examples.International Stainless Steel Standards You can find these standards and their explanations in the table below.

Standart

201 202	In addition to their good mechanical and corrosion resistance properties, they are also preferred products with their attractive prices. Automobile wheel covers, window frames, door , hinge elements, sinks, kitchen and restaurant equipment, ovens, refrigerators, food and beverage, milk and dairy processing
303	It is also called the automaton of stainless steel. As a result of the sulfur it contains, the machinability of materials of this quality is at a high level. On the other hand, sulfur reduces the corrosion resistance of the material. For this reason, its corrosion resistance is lower than 304 quality.
304	In addition to their good mechanical and corrosion resistance properties, they are also preferred products with their attractive prices. Automobile wheel covers, window frames, door, hinge elements, sinks, kitchen and restaurant equipment, ovens, refrigerators, food and beverage, milk and dairy processing It is also called the automaton of stainless steel. As a result of the sulfur it contains, the machinability of materials of this quality is at a high level.On the other hand, sulfur reduces the corrosion resistance of the material. For this reason, its corrosion resistance is lower than 304 quality.
304L	304 quality contains less carbon and more than stainless steel. Although it is more difficult to process, its mechanical properties are alsor.
316	is also lower than 304 quality stainless steel. It is a grade obtained by adding Nickel (Ni) and Molybdenum (Mo). Thanks to this content, corrosion resistance is high even in harsh environments (sea water, acidic liquids, etc.). Tensile strength is also higher than 304 grade materials. Resistant to oxidation at temperatures up to 850 degrees, high mechanical and tensile strength. It is used in steam boilers used in chemical, petro-chemical and food industries, fruit-juice and liquor production, textile machines and meat processing units.Translated with www.DeepL.com/Translator (free version)
316L	316 grade stainless steel is low carbon and does not require post-weld annealing in thick sections. Since there is a risk of corrosion due to heating when parts are joined by welding, it is suitable for use in such cases.
316Tİ	It is a steel quality with around 0.5% Titanium (Ti) added into it. If the material is between 550 – 800° C. If it will be exposed to high temperatures for a long time, 316Ti quality stainless steel should be used
316-310s	It is the niobium stabilized form of 321 quality. It has similar performance to 321 quality. Integrity can be processed. Recovery against high heat oxidation up to approximately 900°C is good. Adjusting mechanics and controls is very good. Stress fractures cause cracking. It can be welded, bent and bent by heat treatment. expandable. Chemical and petrochemical plants in pipes and heat exchanges in boilers and super It is used in heaters and canning industry.
317	It is the niobium stabilized form of 321 grade. It has similar properties to 321 grade. Can be processed at all temperatures. Good resistance to high temperature oxidation up to about 900°C. Very good mechanical and friction resistance Susceptible to stress corrosion cracking. It can be welded, bent and expanded without heat treatment. It is used in pipes and heat exchangers, boilers and super heaters in the chemical and petrochemical industry and in the canning industry.
321	This grade has high oxidation resistance at high temperatures up to 900°C. It has very good mechanical and frictional strength. Printing blades, exhausts, salt machines, chemical and petrochemical industry
347	It is the niobium stabilized form of 321 grade. It has similar properties to 321 grade. Can be processed at all temperatures. Good resistance to high temperature oxidation up to about 900°C. Very good mechanical and friction resistance Susceptible to stress corrosion cracking. It can be welded, bent and expanded without heat treatment. It is used in pipes and heat exchangers, boilers and super heaters in the chemical and petrochemical industry and in the canning industry.
420	Its most distinctive feature is its high tensile strength. Under normal conditions this material has good corrosion resistance and good machinability in the annealed condition.
430	It is a low carbon and chromium-containing quality classified as ferritic. Weldability is limited. Since it does not contain nickel (Ni) and molybdenum (Mo), it is more suitable than 300 series stainless steels. is cheaper. Although it provides a good surface appearance, it may magnetize because it does not contain nickel. At temperatures up to 550 - 600 degrees, oxidation resistance is high. It is used in moisture-free environments, auto accessories, machine accessories and decorative purposes
430F	Because it contains sulfur, its machinability is better than 430 quality stainless steel. However, sulfur is less However, it reduces the corrosion resistance of the material. It is a type of stainless steel that contains bothchromium and nickel. It is a steel quality whose resistance to breaking can be made very high by heat treatment. to surface structure It conducts heat well and is a suitable material for polishing. Good performance even in hot environment

ASTM NORMLARI	PASLANMAZ ÇELİK ASTM NORMLARI

ASTM	AÇIKLAMA
A53-96	Siyah veya sıcak galvaniz kaplı,dikişli ve dikişsiz genel maksatlı çelik borular.
A105/105M-96	Borulama uygulamaları için karbon çeliği dövme malzemeler.
A106-95	Yüksek sıcaklık için dikişsiz karbon çeliği borular.
A178/178M-95	Elektrik direnç kaynağı ile imal edilmiş karbon ve karbo-mangan çeliği kazan ve kızdırıcı boruları.
A179/179M-65M	Dikişsiz soğuk çekilmiş, düşük karbonlu eşanjör ve kondenser boruları.
A181/181M-95M	Borulama uygulamaları için karbon çeliği dövme malzemeler.
A182/182M-96	Dövülmüş ve haddelenmiş alaşımlı çelik boru flaşları,dövme ekleme parçaları,vanalar ve parçaları.
A192/192M-91	Yüksek basınç için dikişsiz karbon çeliği kazan borusu.
A193/193M-96a	Yüksek sıcaklık için alaşımlı ve paslanmaz cıvata çeliği.
A194/194M-96	Yüksek basınç ve sıcaklıkta çalışan somunlar için karbo çelik alaşımlı çelik.
A199/199M-96	1995 den itibaren A200,A213 olarak değiştirilmiştir.
A200-94	Rafineri servisleri için dikişsiz,orta dereceli alaşımlı borular.
A202/202M-93	Basınç kaplar için krom,mangan ve silikon alaşımlı çelik saclar.
A203/203M-93	Basınçlı kaplar için nikel alaşımlı çelik saclar.
A204/204M-93	Basınçlı kaplar için molibden alaşımlı çelik saclar.
A209/209M-95	Dikişsiz karbon-molibden alaşımlı çelik kazan ve kızdırıcı boruları.
A213/213M-95a	Dikişsiz alaşımlı,ferritik ve östenitik paslanmaz çelik kazan,kızdırıcı ve eşanjör boruları.
A214/214M-90a	Elektrik direnç kaynağı ile imal edilmiş karbon çeliği eşanjör ve kondenser boruları.
A216/216M-93	Yüksek sıcaklık için karbon çeliği füzyon kaynağına uygun çelik döküm malzemeler.
A234/234M-96a	Yüksek ve orta sıcaklıklar için işlenik karbon ve alaşımlı çelik boru ekleme parçaları.
A240-96a	Basınçlı kaplar için ısıya dirençli krom ve krom-nikel paslanmaz çelik saç ve plakalar.
A249/249M-96a	Östenitik paslanmaz çelik dikişli kazan kızdırıcı,eşanjör ve kondenser boruları
A250/250M95	Elektrik direnç kaynaklı ferritik alaşımlı kazan ve kızdırıcı boruları.
A268	Ferritik paslanmaz çelik malzemeden genel amaçlı dikişli ve dikişsiz borular.
A269	Östenitik paslanmaz çelik dikişli ve dikişsiz genel amaçlı borular.
A270	Östenitik paslanmaz çelik dikişli ve dikişsiz gıda endüstrisine uygun borular.
A271	Östenitik paslanmaz çelik dikişsiz rafineri servis boruları.
A283/283M-93a	Düşük ve orta dayanımlı karbon çeliği saclar.
A284/284M-90	1992 den itibaren A283 olarak değiştirilmiştir.

ASTM NORMLARI	STAINLESS STEEL ASTM NORMS

ASTM	EXPLANATİON
A53-96	Black or hot galvanized coated, welded and seamless general purpose steel pipes.
A105/105M-96	Carbon steel forgings for piping applications.
A106-95	Seamless carbon steel pipes for high temperature.
A178/178M-95	Carbon and carbon-manganese steel boiler and superheater pipes manufactured by electrical resistance welding.
A179/179M-65M	Seamless cold drawn, low carbon heat exchanger and condenser tubes.
A181/181M-95M	Carbon steel forgings for piping applications.
A182/182M-96	Forged and rolled alloy steel pipe flashes, forged fittings, valves and parts.
A192/192M-91	Seamless carbon steel boiler tube for high pressure.
A193/193M-96a	Alloy and stainless bolt steel for high temperature.
A194/194M-96	Carbon steel alloy steel for nuts operating at high pressure and temperature.
A199/199M-96	Since 1995, A200 has been changed to A213.
A200-94	Seamless medium alloy pipes for refinery services.
A202/202M-93	Chromium, manganese and silicon alloy steel sheets for pressure vessels.
A203/203M-93	Nickel alloy steel sheets for pressure vessels.
A204/204M-93	Molybdenum alloy steel sheets for pressure vessels.
A209/209M-95	Seamless carbon-molybdenum alloy steel boiler and superheater pipes.
A213/213M-95a	Seamless alloy, ferritic and austenitic stainless steel boiler, superheater and heat exchanger tubes.
A214/214M-90a	Carbon steel heat exchanger and condenser pipes manufactured by electrical resistance welding.
A216/216M-93	Cast steel materials suitable for fusion welding of carbon steel for high temperature.
A234/234M-96a	Machined carbon and alloy steel pipe fittings for high and medium temperatures.
A240-96a	Heat resistant chrome and chrome-nickel stainless steel sheets and plates for pressure vessels.
A249/249M-96a	Austenitic stainless steel welded boiler superheater, heat exchanger and condenser pipes
A250/250M95	Electric resistance welded ferritic alloy boiler and superheater pipes.
A268	General purpose welded and seamless pipes made of ferritic stainless steel.
A269	Welded and seamless general purpose pipes in austenitic stainless steel.
A270	Austenitic stainless steel welded and seamless tubes for the food industry.
A271	Austenitic stainless steel seamless refinery service pipes.
A283/283M-93a	Low and medium strength carbon steel sheets.
A284/284M-90	It has been changed to A283 since 1992

ASTM NORMLARI — PASLANMAZ ÇELİK ASTM NORMLARI

ASTM	AÇIKLAMA
A285/285M-90	Düşük ve orta dayanımlı karbon çeliği basınçlı kap sacları.
A299/299M-90	Mangan ve silikonlu karbon çeliği basınçlı kap sacları.
A302/302M-93	Mangan-molibden ve mangan-molibden-nikel alaşımlı çelik,basınçlı sacları
A312/312M-95a	Düşük sıcaklıklar için dikişli ve dikişsiz çelik borular.TAVLI
A320/320M-94a	Düşük sıcaklıklar için alaşımlı cıvata çeliği.
A333/333M-94	Düşük sıcaklıklar için dikişli ve dikişsiz çelik borular.
A334/334M-95a	Düşük sıcaklıklar için dikişli ve dikişsiz karbon çeliği ve alaşımlı çelik borular.
A335/335M-95a	Yüksek sıcaklıklar için dikişsiz,ferritik alaşımlı borular.
A350/350M-96c	Karbon ve düşük alaşımlı, darbe çentik deneyi gerektiren dövme çelik boru ekleme parçaları.
A351	Paslanmaz çelik hassas döküm.
A353/353M-93	%9 nikel alaşımlı,çifte normalize edilmiş,temperlenmiş basınçlı kap sacları.
A358/358M-95a	Yüksek sıcaklıklar için krom-nikel alaşımlı kaynaklı borular.
A376	Östenitik paslanmaz çelik malzemeden yüksek sıcaklıkta kullanılan dikişsiz borular.
A387/387M-92	Krom-molibden alaşımlı çelik basınç kapları.
A403/403M-96	Östenitik paslanmaz,işlenik çelik boru ekleme parçaları.
A409/406M-95a	Yüksek sıcaklıklar veya korozif servisler için dikişli,büyük çaplı östenitik çelik borular.
A420/420M-96	Düşük sıcaklıklar için işlenik karbon çeliği veya alaşımlı çelik boru ekleme parçaları.
A450	Karbon,ferritik alloy ve östenitik alloy çelik tüplerin genel ihtiyaca göre imalatı.
A515/515M-92	Karbon çeliği,orta ve yüksek sıcaklıklar için basınçlı kap sacları.
A516/516M-90	Karbon çeliği, orta ve daha düşük sıcaklıklar için basınçlı kap sacları.
A517/517M-93	Yüksek dayanımlı, su verilmiş ve temperlenmiş alaşımlı çelik, basınçlı kap sacları.
A553/553M-93	Su ve rilmiş ve temperlenmiş alaşımlı çelik, basınçlı kap sacları.
A554-94	Paslanmaz çelik kaynaklı borular.(Dolgu kaynağı olmadan.
A573/573M-93a	Tokluğu arttırılmış karbon çeliğive yapı çeliği maksatlı saclar.
A622/622M-93	Orta ve daha düşük sıcaklıklar için karbon-manganlı basınçlı kap sacları.
A669	Ferritik ve östenitik dikişsiz dupleks paslanmaz tüp imalatı.
A671-94	Atmosferik ve daha düşük sıcaklıklar için karbon-manganlı basınçlı kap sacları.
A672-94	Orta sıcaklık ve yüksek basınç için elektrik füzyon kaynaklı borular.
A668	Östenitik paslanmaz malzemeden dikişli su ısıtıcı tüpü iamalatı.
A691-93	Yüksek sıcaklı ve basınç için elektrik füzyon kaynaklı karbon çeliği ve alaşımlı borular.
A736/736M-88	Düşük karbonlu nikel-bakır-krom-molibden-kolumbium ve nikel-bakır-mangan-molibden-kolumbium alaşımlı basınçlı kap sacları.
A738/738M-90	Isısl işlemden geçmiş,karbon-mangan-silikonlu,orta ve dah düşük sıcaklıklar için basınçlı kap sacları.
A778-90a	Paslanmaz çelikli kaynaklı borular.Dolgu kaynaklı.Tavsız.
A789	Ferritik ve östenitik paslanmaz çelik malzemeden genel maksatlı dikişli ve dikişsiz tüp imalatı.
A790/790M-95	Dikişli ve dikişsiz ferritik ve östenitik paslanmaz çelik borular.
B673	Dikişli boru.
B677	Dikişsiz boru ve tüp.
ANSI B 36.19	Paslanmaz dikişli ve dikişsiz borular.SCH serisi.
ANSI B 36.10	Dikişli ve dikişsiz borular.SCH serisi.

ASTM NORMLARI	STAINLESS STEEL ASTM NORMS
ASTM	**EXPLANATİON**
A285/285M-90	Low and medium strength carbon steel pressure vessel sheets.
A299/299M-90	Carbon steel pressure vessel sheets with manganese and silicon.
A302/302M-93	Manganese-molybdenum and manganese-molybdenum-nickel alloy steel, pressure sheets
A312/312M-95a	Welded and seamless steel pipes for low temperatures.
A320/320M-94a	Alloy bolt steel for low temperatures.
A333/333M-94	Welded and seamless steel pipes for low temperatures.
A334/334M-95a	Welded and seamless carbon steel and alloy steel pipes for low temperatures.
A335/335M-95a	Seamless ferritic alloy pipes for high temperatures.
A350/350M-96c	Carbon and low alloy forged steel pipe fittings requiring impact notch testing.
A351	Stainless steel precision casting.
A353/353M-93	9% nickel alloy, double normalized, tempered pressure vessel sheets.
A358/358M-95a	Chrome-nickel alloy welded pipes for high temperatures.
A376	High temperature seamless pipes made of austenitic stainless steel.
A387/387M-92	Chromium-molybdenum alloy steel pressure vessels.
A403/403M-96	Austenitic stainless steel pipe fittings.
A409/406M-95a	Welded, large diameter austenitic steel pipes for high temperatures or corrosive services.
A420/420M-96	Machined carbon steel or alloy steel pipe fittings for low temperatures.
A450	Production of carbon, ferritic alloy and austenitic alloy steel tubes according to general needs.
A515/515M-92	Carbon steel, pressure vessel sheets for medium and high temperatures.
A516/516M-90	Carbon steel, pressure vessel sheets for medium and lower temperatures.
A517/517M-93	High strength, quenched and tempered alloy steel, pressure vessel sheets.
A553/553M-93	Pressure vessel sheets of quenched and tempered alloy steel.
A554-94	Stainless steel welded pipes.(Without filler welding.
A573/573M-93a	Sheets for carbon steel and structural steel with increased toughness.
A622/622M-93	Carbon-manganese pressure vessel sheets for medium and lower temperatures.
A669	Ferritic and austenitic seamless duplex stainless tube manufacturing.
A671-94	Carbon-manganese pressure vessel sheets for atmospheric and lower temperatures.
A672-94	Electric fusion welded pipes for medium temperature and high pressure.
A668	Welded kettle tube manufacturing from austenitic stainless material.
A691-93	Electric fusion welded carbon steel and alloy pipes for high temperature and pressure.
A736/736M-88	Pressure vessel sheets with low carbon nickel-copper-chromium-molybdenum-columbium and nickel-copper-manganese-molybdenum-columbium alloys.
A738/738M-90	Heat-treated, carbon-manganese-silicone pressure vessel sheets for medium and lower temperatures.
A778-90a	Stainless steel welded pipes. Filled welded. No annealed.
A789	General purpose welded and seamless tube manufacturing from ferritic and austenitic stainless steel.
A790/790M-95	Welded and seamless ferritic and austenitic stainless steel pipes.
B673	Welded pipe.
B677	Seamless pipe and tube.
ANSI B 36.19	Stainless welded and seamless pipes.SCH series.
ANSI B 36.10	Welded and seamless pipes.SCH series

PASLANMAZ ÇELİK KULLANIM ALANLARI TABLOSU		
ANSI TP	**ÖZELLİKLER**	**KULLANIM ALANI**
304	Paslanmaz çeliğin temel çeşididir. 400 °C'ye kadar yüksek oksidasyon sağlar. Mekanik direnç ve sürtünme mukavemeti çok iyidir.	Mutfak eşyaları, evyeler, ev aletleri, endüstriyel mutfaklar, kimya ve petro kimya sektörü, gıda sektörü, otomotiv sanayi, eşanjör ve boyler üretimi.
304L	304 Kalite paslanmaz çeliğin düşük karbonlu versiyonudur.	Kağıt sanayi, süthane ekipmanları, sabun sanayi, deri sanayi, kimya endüstrisi, petrol endüstrisi, kazan yapımı, ısı değiştiriciler.
321	Bünyesindeki Titan ilavesi ile korozyona karşı mukavemeti arttırılmıştır. Yüksek sıcaklıklara dayanıklıdır.	Rezistanslar, egzost boruları, havacılık endüstrisi, bira fabrikaları, kimya endüstrisi.
316	600°C'a kadar sıcaklıklara dayanıklıdır. Mekaniksel kopma ve büzülme mukavameti oldukça iyidir. Bünyesindeki molibdenden dolayı oksidasyon ve asitlere dayanıklıdır.	Kimya, petro kimya endüstrisi, buhar kazanları, ısıya mukavim eşanjörler, çeşitli kazan uygulamaları.
316L	316 Kalite paslanmaz çeliğin düşük karbonlu versiyonudur. 400°C'a kadar sıcaklıklara dayanıklıdır.	Kimya, petro kimya endüstrisi, kağıt endüstrisi, nükleer mühendislik, süthane ekipmanları.
316Ti	316 Kalite paslanmaz çeliğin Titanyumlu versiyonudur. Yüksek sıcaklık ve oksidasyon mukavemetine sahiptir.	Kimya, petro kimya endüstrisi, pompa ve kompresör parçaları, kazanlar, fırınlar ve ısı değiştiriciler.
309S	1050 °C'a kadar sıcaklıklarda oksidasyon mukavemeti yüksektir.	Yüksek sıcaklığa dayanıklı ekipmanların ve parçaların üretiminde.
310	1100 °C'a kadar sıcaklıklarda oksidasyon mukavemeti yüksektir.	Fırın parçaları ve yüksek sıcaklıklara dayanıklı ekipmanlar, kimya, petro kimya endüstrisi.
310S	1100 °C'a kadar sıcaklıklarda oksidasyon mukavemeti yüksektir.	Fırın parçaları ve yüksek sıcaklıklara dayanımlı ekipmanlar, kimya, petro kimya endüstrisi.
430	İyi yüzey görünümü sağlar. Nikel içermediğinden mıknatıslanabilir.	Dekoratif amaçlı kullanımlar, parlak yüzey uygulamaları
430Ti	İçerdiği titanyum sayesinde korozyon hassasiyeti oluşmaz. Isı iletkenliği iyidir. Yüksek sıcaklık dayanımı iyidir. Kaynak kabiliyeti orta seviyededir.	Sıcak su sistemlerinde,eksoz borularında ve de çamaşır makinalarından kullanılabilir.
DUBLEX	Dubleks, adından da anlaşılacağı üzere duble yani çift yönlü bir malzeme olarak kullanılabilir. Çünkü ferritik ve östenitik özelliğini bir arada taşıdığından dubleks paslanmaz çelik denir. 300 serisi dediğimiz östenitiklere oranla korozyon direnci ve dayanımı yüksek bir malzeme çeşididir. Dubleks yapısından ve yüksek krom ve molibden içeriğinden dolayı çukur korozyonuna, çatlak korozyonuna, düzgün korozyona, korozyon yorgunluğuna ve gerilme korozyon çatlağına karşı çok yüksek dirence sahiptir.	Sağlamlık, esneklik ve dayanıklılık gerektiren alanlarda sıklıkla kullanılan bu kalite, pompa millerinde, tekne şaftlarında, pervane yapımında, özel hidroelektrik santrallerinde, gıda sektöründe, kimya sektöründe ve makine üretiminde kullanılmaktadır

STAINLESS STEEL USAGE AREAS TABLE		
ANSI TP	**FEATURES**	**AREA OF USE**
304	It is the basic type of stainless steel. Provides high oxidation up to 400 °C. Mechanical resistance and friction resistance are very good.	Kitchenware, sinks, household appliances, industrial kitchens, chemical and petrochemical industry, food industry, automotive industry, heat exchanger and boiler production.
304L	It is the low carbon version of 304 Quality stainless steel.	Paper industry, dairy equipment, soap industry, leather industry, chemical industry, oil industry, boiler making, heat exchangers.
321	Its resistance against corrosion has been increased with the addition of Titan. It is resistant to high temperatures.	Resistors, exhaust pipes, aviation industry, breweries, chemical industry.
316	It is resistant to temperatures up to 600°C. Its mechanical rupture and shrinkage resistance is quite good. It is resistant to oxidation and acids due to the molybdenum it contains.	Chemistry, petrochemical industry, steam boilers, heat-resistant exchangers, various boiler applications.
316L	It is the low carbon version of 316 Quality stainless steel. It is resistant to temperatures up to 400°C.	Kimya, petro kimya endüstrisi, kağıt endüstrisi, nükleer mühendislik, süthane ekipmanları.
316Ti	It is the Titanium version of 316 Quality stainless steel. It has high temperature and oxidation resistance.	Chemical, petrochemical industry, pump and compressor parts, boilers, furnaces and heat exchangers.
309S	It has high oxidation resistance at temperatures up to 1050 °C	In the production of high temperature resistant equipment and parts.
310	It has high oxidation resistance at temperatures up to 1100 °C.	Furnace parts and equipment resistant to high temperatures, chemical, petrochemical industry.
310S	It has high oxidation resistance at temperatures up to 1100 °C.	Furnace parts and equipment resistant to high temperatures, chemical, petrochemical industry.
430	Provides good surface appearance. Since it does not contain nickel, it can be magnetized.	Decorative uses, shiny surface applications
430Ti	Thanks to the titanium it contains, here is no corrosion sensitivity. Thermal conductivity is good. High temperature resistance is good. Welding ability is at medium level.	It can be used in hot water systems, exhaust pipes and washing machines.
DUBLEX	Duplex, as its name suggests, can be used as a double sided material. Because it has ferritic and austenitic properties together, it is called duplex stainless steel. It is a type of material with higher corrosion resistance and strength compared to the austenitics we call 300 series. Due to its duplex structure and high chromium and molybdenum content, it has very high resistance to pitting corrosion, crevice corrosion, uniform corrosion, corrosion fatigue and stress corrosion cracking.	This quality, which is frequently used in areas requiring strength, flexibility and durability, is used in pump shafts, boat shafts, propeller construction, private hydroelectric power plants, food industry, chemical industry and machinery production.

Paslanmaz Çelik Nedir ve Neden Paslanmaz ?

1913 yılında, İngiliz metalurji uzmanı Harry Brearly, tüfek namlusunu geliştiren bir proje üzerinde çalışırken, yanlışlıkla krom eklemenin düşük karbon çeliğin boyasına dayanıklılık sağladığını keşfeder. Demir, çelik ve kroma ek olarak modern paslanmaz çelik nikel, titanyum, niyobyum, molibden gibi başka maddelerde içerir.

Paslanmaz çelikte nikel, mobilden, niyobyum ve krom paslanmaya karşı olan dayanıklılığı arttırır. Çeliğin çürümeye karşı dayanması ve diğer çelik çeşitlerinden daha az lekelenmesi, minumum % 12 krom ilavesi etkisiyle olur. Çeliğin içinde bulunan krom atmosferdeki hava ile birleşerek ince görünmeyen bir krom içerikli oksit yaratır. Buna pasif film denir. Krom atomları ve oksitleri çok benzer böylece metalin üzerinde birkaç atom kalınlığında stabil bir katman yaratarak düzenli şekilde bir araya gelirler. Eğer metal çizilir , kesilir ve pasif film zarar görürse, daha fazla oksit hızla değişecek ve zarar görmüş yüzeyi oksitlenebilir bozulmadan koruyarak, düzeltir. (Bunun yanı sıra demir, çabuk paslanır çünkü atomik demir oksitinden daha küçüktür böylece oksit sıkı kaplanmıştan çok daha gevşek bir yüzey yaratır ve dökülür.)

Pasif film kendini yenilemek için oksijene ihtiyaç duyar böylece paslanmaz çelik düşük oksijenli ve düşük sirkülasyon bulunan ortamlarda, zayıf korozyon dayanıklılığına sahiptir. Deniz suyunda, tuzdaki klorlar hücum edecek ve düşük oksijen ortamında düzelebilecek olan pasif filmi daha hızlı yok edecek.”

Paslanmaz Çelik Çeşitleri

Paslanmaz çeliğin üç ana çeşidi, ostenitik, ferritik ve martensitlidir. Bu üç çelik tipleri mikro yapıları ve ağır kristal evrelerine göre tanımlanırlar.

Ostenitik

Ostenitik çeliklerin başlıca aşaması ostentir. (Dış merkezli kübik kristal) %8 nikel, Tip 304 bileşimli demir etrafında yapılanana, krom ve nikel (bazen mangezyum ve nitrojen) içeren metal alaşımlardır.

Ferritik

Ferritik çeliklerin başlıca aşamaları ferrittir.(Gövde merkezli kübik kristal) %17 krom alaşımlı tip 430’a dayalı olup, demir ve krom içerirler. Ferritik çelikler ostenitik çeliklerden daha az yumuşaktır ve ısıya maruz kaldığında sertleşmezler.

Martenzitik

Kristal şeklinde Martensit mikro yapısının özellikleri 1890 yılında Alman mikroskopist Adolf Martens tarafından incelendi. Martensitik çelikler 0,12 % karbon, %12 krom ve demir alaşımını Tip 304 özelliklerinde yapılanan düşük karbon çeliklerdir. Ayrıca paslanmaz çeliklerin dubleks, acele sertleştirilmiş ve dökme paslanmaz çelik gibi başka dereceleri vardır. Paslanmaz çeliğin üretiminde bir çok bitirme ve sertlik derecesi yönetimi vardır ve birçok renk görüntüleri ile boyanabilir.

What is Stainless Steel and Why Stainless Steel?

In 1913, Harry Brearly, a British metallurgist, developed a rifle barrel. while working on the project, I realized that accidentally adding chromium durability. In addition to iron, steel and chrome, modern stainless steel contains other substances such as nickel, titanium, niobium, molybdenum.

In stainless steel, nickel, molybdenum, niobium and chromium are the increases durability. Steel is more resistant to rotting and is more durable than other types of steel. less staining is caused by the effect of a minimum of 12% chromium addition. The chromium in the steel combines with the atmospheric air and forms a thin invisible creates a chromium-containing oxide. This is called a passive by creating a stable layer a few atoms thick on top of the metal. If the metal is scratched, cut and the passive film is damaged If it sees more oxides, more oxides will change rapidly and the damaged surface may oxidize (Besides, iron rusts quickly because is smaller than atomic iron oxide, so the oxide is not tightly coated but rather creates a looser surface and flakes off).

Passive film needs oxygen to regenerate itself so stainless steel poor corrosion resistance in low oxygen and low circulation environments In seawater, the chlorine in the salt will attack and low oxygen will destroy the passive film faster, which can be recovered in the environment."

Stainless Steel Types

The three main types of stainless steel are austenitic, ferritic and martensitic. types are defined according to their microstructure and heavy crystal phases.

Austenitic

The main stages of austenitic steels are austenitic (eccentric cubic crystal). 8% nickel, structured around Type 304 composite iron, chromium and nickel (sometimes manganese and nitrogen) metal alloys.

Ferritic

The main phases of ferritic steels are ferrite (body-centered cubic crystal) 17 based on the chromium alloy type 430 and contain iron and chromium. Ferritic steels are austenitic are less ductile than steels and do not harden when exposed to heat.

Martensitic

Characteristics of the microstructure of crystalline Martensite in 1890 by the German microscopist Reviewed by Adolf Martens. Martensitic steels have 0.12 % carbon, 12 are low carbon steels made from an alloy of chromium and iron with Type 304 properties. Stainless steels are also available in duplex, case hardened and cast stainless steels. There are other grades such as steel. In the production of stainless steel there are many finishing and It has hardness degree management and can be painted with many color images.

Paslanmaz Çelik Kullanım Özellikleri

Paslanmaz boru üretiminde en yaygın kullanılan çelik tipi 304 kalite paslanmaz çeliğidir. %18 krom ve %8-%10 nikel içeriğiyle 304 kalite paslanmaz çeliğinden üretilen borular kimyasal tesislerde, rafinerilerde, kağıt fabrikalarında ve gıda işleme endüstrilerinde kullanılmaya elverişlidir. 304L kalite çelik ise 304 kalite paslanmaz çelik ile özellikleri oldukça benzerdir , ancak karbon çökelmesini önler ve bu analizin daha ciddi korozif koşullar altında, kaynaklı montajlarda 304 kalite paslanmaz çelik kullanılmasına izin verir. 318 kalite çeliği,% 2 ila% 3 molibden ilavesi nedeniyle diğer krom nikel alaşımlarına göre çukurlaşmaya çok daha dayanıklıdır. Asit, tuzlu su, kükürt suyu, deniz suyu veya halojen tuzları ile karşılaşıldığında diğer tip çelik borulara göre daha dayanıklıdır. 316 kalite paslanmaz çelikten üretilen borular, sülfit kağıt endüstrisinde ve kimyasal tesis aparatlarında, fotoğraf ekipmanlarında ve plastiklerin üretiminde yaygın olarak 316 kalite paslanmaz çelik kullanılmaktadır. Paslanmaz çelik borular havacılık, elektronik, otomotiv, sirojenik, deniz, klima ve ısıtma, tıbbi, mimari ve tekstil gibi birçok alanda da kullanılmaktadır.

Paslanmaz çelik borular genellikle içme suyu taşınması için sert malzemeler gerektiren uygulamalarda kullanılır. Üreticiler paslanmaz çeliği daha çok tercih etmektedir. Çünkü paslanmaz çeliğin temiz su sağlamak için birçok özelliği vardır.

Borular her zaman silindirik değildir. Üçgen, kare veya diğer çokgen şekillerde yapılabilir. Belirli uygulamalara yönelik çelik borular üretilirken cnc lazer kesimi gibi ekstra işlemler de gerekir.

Çelik borular, sıhhi tesisat yapıları üzerine su tarafından uygulanan basınç türlerini kaldırabilir

Sıhhi tesisat uygulamalarında çok sayıda paslanmaz çelik boru kullanılmaktadır. Paslanmaz çelik boru kullanılmasını nedeni, yüzde 80-90 çelik ve yüzde 10-20 kromdan oluşması nedeniyle çok sağlam oluşudur. Çelik borular, sıhhi tesisat yapıları üzerine su tarafından uygulanan basınç türlerini kaldırabilir. Ayrıca, paslanmaz çeliğin yüzeyi, partiküller veya bakteriler tarafından fazla yapışmaya izin vermez bu sayede çelik içme suyunu kirletmez.

Stainless Steel Use Characteristics

With a chromium content of 18% and nickel content of 8%-10%, pipes made from 304 grade stainless steel are suitable for use in chemical plants, refineries, paper mills and food processing industries. Grade 304L steel is very similar in properties to grade 304 stainless steel, but prevents carbon precipitation and this analysis allows the use of grade 304 stainless steel in welded assemblies under more severe corrosive conditions.

Grade 318 steel is much more resistant to pitting than other chromium nickel alloys due to the addition of 2% to 3% molybdenum. It is more resistant than other types of steel pipes when encountering acid, salt water, sulfur water, seawater or halogen salts. Grade 316 stainless steel pipes are widely used in the sulfide paper industry and in chemical plant apparatus, photographic equipment and in the manufacture of plastics. Stainless steel pipes are also used in many other fields such as aerospace, electronics, automotive, hydrogenic, marine, air conditioning and heating, medical, architectural and textile. Stainless steel pipes are often used in applications requiring hard materials for the transportation of potable water. Manufacturers prefer stainless steel more. Because stainless steel has many properties to provide clean water.

Pipes are not always cylindrical. They can be made in triangular, square or other polygonal shapes. When producing steel pipes for specific applications, extra processes such as cnc laser cutting are also required.

Steel pipes can handle the types of pressure exerted by water on plumbing structures

A large number of stainless steel pipes are used in plumbing applications. The reason for using stainless steel pipe is that it is very robust because it is composed of 80-90 percent steel and 10-20 percent chromium. Steel pipes can handle the types of pressure exerted by water on plumbing structures. Also, the surface of stainless steel does not allow much adhesion by particles or bacteria, so the steel does not contaminate drinking water.

Paslanmaz Malzeme Standartları Nelerdir?

"Paslanmaz çelik ürünler, birçok kişi tarafından paslanmaz malzeme olarak adlandırılır. Paslanmaz malzeme ifadesi içinde, paslanmaz boru veya paslanmaz fittings olabileceği gibi paslanmaz redüksiyon veya paslanmaz flanş da bulunabilir. Paslanmaz malzemeler üretilirken farklı uluslararası standartlar kullanılır. Paslanmaz çelik kullanılarak tasarlanan her bir ürün için, özel standartlar kullanılır. İşte, belli başlı paslanmaz malzeme standartları …"

Paslanmaz Borular Üretilirken Hangi Standartlar Kullanılır?

Paslanmaz borular üretilirken genellikle iki tane standart kullanılır. Paslanmaz borularda kullanılan standartlardan biri et kalınlığını ifade ederken, diğeri borunun çapını belirtir.

"Paslanmaz borunun dış çapının ne olduğunu ifade etmek için, Nominal Diameter (DN) standardı kullanılır. Paslanmaz borunun dış çapı, DN standardına göre tasarlanır. Paslanmaz boruların et kalınlığı da oldukça önemlidir. Paslanmaz boruların et kalınlığı, Schedule (SCH) normu ile ifade edilir. Schedule normu, farklı Nominal Diameter kalınlıkları ifade eder. SCH ölçüleri SCH20, 50,90 gibi ölçülerle sürer. SCH ölçüsü ile DN ölçüsü arasında, paralel bir bağlantı vardır. Şöyle ki; DN25 ölçülü boruda SCH10 et kalınlığını belirtir. DN80 boru ise SCH10 et kalınlığını gösterir."

Paslanmaz Fittingsler Üretilirken Hangi Standartlar Kullanılır?

"Paslanmaz fittingsler de farklı türde standartlar kullanılarak üretilir. BSPT ve BSP standartları olarak adlandırılan bu standartlar, bir çeşit diş standardıdır. BSP iç dişli paslanmaz fittingsler üretilirken kullanılır. BSPT standardı ise dış dişli paslanmaz fittingslerin tasarımında kullanılan standarttır. BSP ile BSPT standartlarının arasındaki fark diş açısıdır. BSP standardında diş düzdür ancak BSPT standardında ise konik bir derece sayesinde diş kilitlenir."

Paslanmaz Fittingslerde Diş Tipini Belirleyen NPT Standardı

"BSPT ve BSP diş standartlarının yanı sıra, diş tipini belirlemek için NPT standardı kullanılır. NPT standardı, Amerikan standardı olarak da bilinir. NPT standardına göre üretilen paslanmaz fittingslerde bulunan 60° lik diş açısı, fittingsin daha iyi kilitlenmesini sağlar. Dolayısıyla, NPT standardı yüksek basınçlı ortamlarda kullanılır."

Paslanmaz Flanşlar Üretilirken Kullanılan Standartlar Nelerdir?

"Paslanmaz flanşlar için de belirli standartlar kullanılır. Bunlar basınçları belirlemek üzere kullanılan standartlardır. DIN-PN ve ANSI-Libre standartları olarak adlandırılır. ANSI-Libre standardı, basınç sınıfını belirlemek üzere kullanılır. ANSI-Libre standardında ürünler 150,300,3000 gibi standart numaraları ile basınç sınıflarını içine alır. Örneğin, 3000lb olarak ifade edilen paslanmaz fittings 3000psi basınca dayanabilir." "DIN-PN standardında ise DIN Alman standardını simgeler. Pressure Nominal (PN) ise nominal dayanma basıncını gösterir. PN standardına göre üretilen flanşlarda, basınç dayanıklılığı PN6, 10, 16, 25, 40, 65 gibi standartlarla ifade edilir. Flanşların üretildiği PN standart sayıları, flanşların dayanabileceği en yüksek basınç miktarını gösterir. PN standartlarda basınç miktarı, bar cinsiyle ifade edilir. DIN-PN ve ANSI-Libre standartlarından farklı olarak, jıs ve bs10 gibi standartlar da bulunur ancak fazla kullanılmazlar."

What are the Stainless Material Standards?

Stainless steel products are called stainless materials by many people. In the expression of stainless material, It can be stainless pipe or stainless fittings, as well as stainless reduction or stainless flange. Different international standards are used when producing stainless materials. Designed using stainless steel For each product, specific standards are used. Here are the main stainless material standards...

What Standards Are Used When Producing Stainless Pipes?

When producing stainless pipes, two standards are generally used. While one of the standards used in stainless pipes refers to the wall thickness, the other indicates the diameter of the pipe.
To express what the outer diameter of the stainless pipe is, the Nominal Diameter (DN) standard is used.
The outer diameter of the stainless pipe is designed according to the DN standard. The wall thickness of stainless pipes is also very important. The wall thickness of stainless pipes is expressed by the Schedule (SCH) norm. Schedule norm, It refers to different Nominal Diameter thicknesses. SCH measurements continue with measurements such as SCH20, 50,90. There is a parallel connection between the SCH dimension and the DN dimension. Namely; SCH10 indicates the wall thickness in a DN25 pipe. DN80 pipe shows SCH10 wall thickness.

What Standards Are Used When Producing Stainless Fittings?

Stainless fittings are also produced using different types of standards. These standards, called BSPT and BSP standards, are a type of dental standards. BSP is used when producing internal threaded stainless fittings. BSPT standard is the standard used in the design of external threaded stainless fittings. The difference between BSP and BSPT standards is the tooth angle. In the BSP standard, the thread is straight, but in the BSPT standard, the thread is locked thanks to a conical degree.

NPT Standard Determining Thread Type in Stainless Fittings

Besides the BSPT and BSP thread standards, the NPT standard is used to determine the thread type. NPT standard is also known as the American standard.
The 60° thread angle in stainless fittings produced according to the NPT standard ensures better locking of the fitting. Therefore, the NPT standard is used in high pressure environments.

What are the Standards Used When Producing Stainless Flanges?

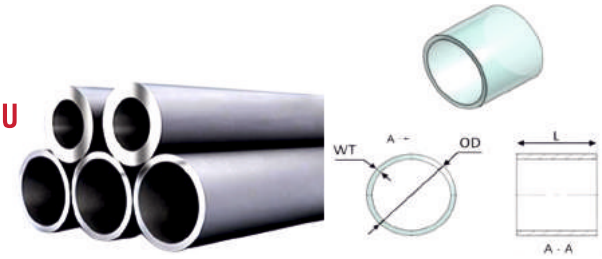
Certain standards are also used for stainless flanges. These are the standards used to determine pressures. They are called DIN-PN and ANSI-Libre standards. The ANSI-Libre standard is used to determine the pressure class. In the ANSI-Libre standard, products include pressure classes with standard numbers such as 150, 300, 3000. For example, stainless fittings expressed as 3000lb can withstand 3000psi pressure
In the DIN-PN standard, DIN symbolizes the German standard. Pressure Nominal (PN) shows the nominal withstand pressure. Pressure resistance in flanges produced according to the PN standard It is expressed by standards such as PN6, 10, 16, 25, 40, 65. The PN standard numbers under which flanges are produced indicate the highest amount of pressure the flanges can withstand. In PN standards, the amount of pressure is expressed in bar. Unlike DIN-PN and ANSI-Libre standards, there are also standards such as JIS and BS10, but they are not used much.

PASLANMAZ ÇELİK STANDARTLARI VE KİMYASAL DEĞERLERİ
STANDARDS AND CHEMICAL VALUES OF STAINLESS STEEL

		Uluslararası / International Standartlar		Kimyasal Değerler / Chemical Values %					
		EN	ASTM	Karbon	Krom	Nikel	Molibden	Azot	Diğer
Genel, Amaçlı Kullanılan Paslanmaz Çelikler General Purpose Stainless Steels	Ferrittic	1,4016	430	0,04	16,5	–	–	–	–
		1,451	S43035	0,04	18	–	–	–	Ti
		1,4521	444	0,02	17,8	–	2,1	0,02	–
		1,4512	409	0,02	12	–	–	–	Ti
		1,4	410S	0,04	12	–	–	–	–
		1,4003	S41050	0,02	11,5	0,4	–	–	–
	Martenzitik	1,4021	S420110	0,2	13	–	–	–	–
		1,4028	420	0,3	12,5	–	–	–	–
		1,4418	–	0,03	16	5	1	0,04	–
	Dublex	1,4362	S32304	0,02	23	4,8	0,3	0,1	–
		1,446	329	0,02	25,2	5,6	1,4	0,09	–
		1,4462	S31803	0,02	22	5,7	3,1	0,17	–
		1,441	S32750	0,02	25	7	4	0,27	–
	Austenitic	1,431	301	0,1	17	7	–	0,03	–
		1,4318	301LN	0,02	17	7	–	0,15	–
		1,4372	201	0,05	17	5	–	0,15	6,5Mn
		1,4307	304L	0,02	18,1	8,3	–	0,06	–
		1,4301	304	0,04	18,1	8,3	–	0,05	–
		1,4311	304LN	0,02	18,2	8,7	–	0,14	–
		1,4541	321	0,04	17,3	9,1	–	0,01	Ti
		1,4305	303	0,05	17,3	8,2	–	0,06	S
		1,4306	304L	0,02	18,2	10,1	–	0,04	–
		1,4303	305	0,02	17,7	11,2	–	0,02	–
		1,4567	S30430	0,01	17,7	9,7	–	0,02	3,3Cu
		1,4404	316L	0,02	17,2	10,2	2,1	0,04	–
		1,4401	316	0,02	17,2	10,2	2,1	0,04	–
		1,4406	316LN	0,02	17,2	10,3	2,1	0,14	–
		1,4571	316Ti	0,04	16,8	10,9	2,1	0,01	Ti
		1,4432	316L	0,02	16,9	10,7	2,6	0,05	–
		1,4436	316	0,02	16,9	10,7	2,6	0,05	–
		1,4435	316L	0,02	17,3	12,6	2,6	0,06	–
		1,4429	S31653	0,02	17,3	12,5	2,6	0,14	–
		1,4438	317L	0,02	18,2	13,7	3,1	0,07	–
		1,4439	317LMN	0,02	17,8	12,7	4,1	0,14	–
		1,4539	904L	0,01	20	25	4,3	0,06	1,5Cu
		1,4547	S31254	0,01	20	18	6,1	0,2	Cu
		1,4652	S32654	0,01	24	22	7,3	0,5	3,5Mn,Cu
Isıya Dayanıklı	Austenitic	1,4948	304H	0,05	18,1	8,3	–	0,06	–
		1,4878	321H	0,05	17,3	9,1	–	0,01	Ti
		1,4818	S30415	0,05	18,5	9,5	–	0,15	1,3Si,Ce
		1,4833	309S	0,06	22,3	12,6	–	0,08	–
		1,4828	–	0,04	20	12	–	0,04	2Si
		1,4835	S30815	0,09	21	11	–	0,17	1,6Si,Ce
		1,4845	310S	0,05	25	20	–	0,04	–
		1,4854	S35315	0,05	25	35	–	0,17	1,3Si,Ce

ANSI B36.19 VE B36.10 NORMLARININ ÖLÇÜ VE AĞIRLIK TABLOSU

DİEMENSİON AND WEİGHT OF PİPES ACCORDİNG NORM ANSI B36.19 VE B36.10



ANSI B 36.9								ANSI B 36.10									
Nominal Kalınlık ve Ağırlık / Nominal Thickness and Weight								Nominal Kalınlık ve Ağırlık / Nominal Thickness and Weight									
Ölçü/size -" mm		Sch 5s		Sch 10S		Sch 40S		Sch 80s		Sch 100		Sch 120		Sch 160s		Sch XXs	
mm.	Kg/m.	mm.	Kg/m.	mm.	Kg/m.	mm.	Kg/m.	mm.	Kg/m.	mm.	Kg/m.	mm.	Kg/m.	mm.	Kg/m.	mm.	Kg/m.
1/8"	10,29	-	-	1,24	0,281	1,73	0,371	2,41	0,476	-	-	-	-	-	-		
1/4"	13,72	-	-	1,65	0,499	2,24	0,644	3,02	0,809	-	-	-	-	-	-		
3/8"	17,15	-	-	1,65	0,64	2,31	0,858	3,2	1,118	-	-	-	-	-	-		
1/2"	21,34	1,65	0,814	2,11	1,016	2,77	1,26	3,73	1,62	-	-	-	-	4,78	1,95	7,47	2,54
3/4"	26,67	1,65	1,034	2,11	1,298	2,87	1,68	3,91	2,19	-	-	-	-	5,56	2,9	7,82	3,63
1"	33,4	1,65	1,312	2,77	2,325	3,38	2,5	4,55	3,23	-	-	-	-	6,35	4,26	9,09	5,45
1 1/4"	42,16	1,65	1,674	2,77	2,732	3,56	3,38	4,85	4,46	-	-	-	-	6,35	5,62	9,7	7,75
1 1/2"	48,26	1,65	1,926	2,77	3,155	3,68	4,05	5,08	5,4	-	-	-	-	7,14	7,27	10,16	9,54
2"	60,33	1,65	2,424	2,77	3,992	3,91	5,43	5,54	7,47	-	-	-	-	8,74	11,14	11,07	13,44
2 1/2"	73,03	2,11	3,747	3,05	5,345	5,16	8,62	7,01	11,4	-	-	-	-	9,52	15,09	14,02	20,39
3"	88,9	2,11	4,585	3,05	6,357	5,49	11,28	7,62	15,25	-	-	-	-	11,13	21,45	15,24	27,65
3 1/2"	101,6	2,11	5,272	3,05	7,526	5,74	13,56	8,08	18,62	-	-	-	-	13,06	24,92	16,82	35,4
4"	114,3	2,11	5,945	3,05	8,496	6,02	16,06	8,56	22,29	-	-	11,13	29	13,54	33,5	17,2	41
5"	141,3	2,77	9,639	3,4	1174	6,55	21,76	9,52	30,92	-	-	12,7	41	15,9	49	19,05	57,37
6"	168,28	2,77	11,514	3,4	14,037	7,11	28,23	10,92	42,52	-	-	14,3	55	18,26	67,8	21,95	79,11
8"	219,08	2,77	15,049	3,76	20,334	8,18	42,49	12,7	64,57	15,41	77	18,2	91	23	112	22,2	107,78
10"	273,05	3,4	23,028	4,19	28,29	9,27	60,24	12,7	81,46	18,26	116	21,44	135	28,58	173		
12"	323,85	3,96	31,806	4,57	36,633	9,52	73,76	12,7	97,36	21,44	160	25,4	189	33,32	238,9		
14"	355,6	3,98	34,99	4,78	42,102	9,52	81,21	12,7	107,28	23,83	195	27,79	226	35,71	281,8		
16"	406,4	4,19	42,35	4,78	48,22	9,52	93,13	12,7	123,18	26,19	247	30,96	289	40,49	365,8		
18"	457,2	4,19	47,7	4,78	54,3	9,52	105,05	12,7	139,07	29,36	310	34,92	365	45,24	461		
20"	508	4,77	60,32	5,53	69,766	9,52	116,97	12,7	154,97	32,54	382	38,1	444	50,01	564		
22"	558,8	4,77	66,1	5,53	76,49	9,52	128,89	12,7	170,86	34,92	452	41,27	529	53,97	671,8		
24"	609,6	5,54	84,1	6,35	96,215	9,52	140,81	12,7	186,75	38,39	546,9	46,02	641	59,54	800,9		
26"	660,4	-	-	-	-	9,52	152,73	12,7	202,65					-	-		
28"	711,6	-	-	-	-	9,52	164,65	12,7	218,54						271,94		
30"	762	6,35	120,59	7,92	147,45	9,52	176,57	12,7	234,44						291,81		
32"	812,8	-	-	-	-	9,52	188,5	12,7	250,33						311,67		
34"	863,6	-	-	-	-	9,52	200,42	12,7	266,22						331,54		
36"	914,4	-	-	-	-	9,52	212,34	12,7	282,12						351,41		

PASLANMAZ ENDÜSTİRİYEL DİKİŞLİ BORULAR
STAINLESS INDUSTRIAL STITCHED PIPES

STANDARTLAR AISI 304, 304L, 316, 316L, 316TI, 11850, ASTM A312, A554, A358, A249, A269, A270



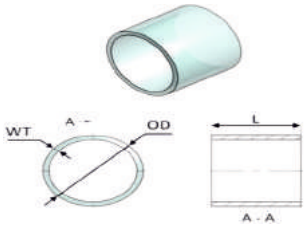
Çap/Dia	Et Kalınlığı (s) mm. Ağırlık / W (kg/mt)											
(D) mm	1	1,25	1,5	1,65	2	2,3	2,5	2,6	3	3,2	3,6	4
6	0,125				2							
8	0,175											
10	0,225											
12	0,275	0,336	0,394									
14	0,326	0,339	0,47									
15	0,351	0,43	0,507									
16	0,376	0,462	0,545	0,593	0,701							
17,2	0,406	0,499	5,59	0,642	0,761	0,858						
20	0,476	0,587	0,695	0,758	0,901	1,019	1,096	1,133	1,133			
21,3	0,508	0,628	0,744	0,812	0,967	1,094	1,177	1,375	1,375			
26,9	0,649	0,803	0,594	1,043	1,247	1,417	1,527	1,582	1,795			
30	0,726	0,9	1,07	1,171	1,402	1,595	1,722	1,784				
31,75	0,77	0,955	1,136	1,244	1,49	1,696	1,813	1,898	2,16			
32	0,776	0,962	1,146	1,251	1,502	1,71	1,847	1,914	2,178			
33	0,819	0,994	1,183	1,295	1,552							
33,7		1,016	1,209	1,324	1,588	1,808	1,953	2,025	2,306	2,444		
42		1,275	1,521	1,667	2,003							
42,4	1,037	1,288	1,536	1,684	2,023	2,309	2,498	2,591	2,96	3,142	3,498	3,846
43	1,052	1,307	1,559	1,708	2,053	2,344	2,535					
44,5	1,089	1,354	1,615	1,77	2,128	2,43	2,629	2,728	3,117			
45	1,102	1,369	1,634	1,791	2,153	2,459	2,661					
48,3	1,184	1,473	1,758	1,927	2,319	2,649	2,867	2,975	3,403	3,614	4,029	4,437

STANDARTLAR AISI 304, 304L, 316, 316L, 316TI, 11850, ASTM A312, A554, A358, A249, A269, A270

Çap/Dia	Et Kalınlığı (s) mm. Ağırlık / W (kg/mt)											
(D) mm	1	1,25	1,5	1,65	2	2,3	2,5	2,6	3	3,2	3,6	4
64	1,327	1,651	1,972	2,163	2,604	2,978	3,224	3,346	3,831	4,071		
57	1,402	1,745	2,085	2,287	2,754	3,15	3,412	3,542	4,056	4,311	4,814	5,308
60,3		1,848	2,209	2,423	2,92	3,34	3,618	3,757	4,304	4,575	5,111	5,639
76,1		2,343	2,802	3,076	3,711	4,25	4,607	4,785	5,491	5,841	6,535	7,222
80		2,465	2,948	3,237	3,906	4,475	4,852	5,039	5,784	6,154	6,887	7,612
83		2,559	3,061	3,361	4,056	4,648	5,039	5,234	6,01	6,394	7,157	7,913
84		2,59	3,099	3,402	4,107	4,705	5,102	5,299	6,085	6,474	7,248	8,013
88,9		2,743	3,283	3,605	4,352	4,987	5,409	5,618	6,453	6,867	7,689	8,504
95			3,512	3,857	4,657	5,339	5,791	6,016	6,911	7,356	8,239	9,155
101,6												
103			3,812	4,187	5,058	5,8	6,291	6,536	7,512	7,997	8,96	9,916
104												
108			4	4,394	5,308	6,087	6,604	6,862	7,888	8,397	9,411	10,417
114,3			4,237	4,654	5,624	6,45	6,999	7,272	8,361	8,902	9,979	11,048
127			4,714	5,179	6,26	7,182	7,794	8,099	9,315	9,92	11,124	12,32
128			4,751	5,22	6,31							
139,7			5,191	5,704	6,896	7,913	8,589	8,926	10,269	10,937	12,269	13,592
156					7,712	8,852	9,609	9,987	11,493	12,244	13,738	15,224
168,3					8,328	9,56	10,379	10,788	12,417	13,299	14,847	
206					10,216	11,731	12,739	13,242	15,249	16,25	18,245	
219,1					10,872	12,486	13,559	14,095	16,233	17,3	19,426	
256					12,72	14,611	15,869	16,497	19,005	20,256	22,752	25,24
273					13,572	15,59	16,933	17,604	20,282	21,619	24,285	26,943
304					15,124	17,376	18,874	19,622	22,611	24,103	27,079	30,048
305					15,174	17,433	19,937	19,687	22,686	24,183	27,169	30,148
306					15,224	17,491	18,999	19,753	22,761	24,263	27,26	30,248
323,9					16,121	18,522	20,12	20,918	24,106	25,697	28,873	32,041
355,6					17,708	20,347	22,104	22,982	26,487	28,237	31,731	35,216
406,4									30,303			40,304
455									34,24			45,56
508									38,07			50,66

Paslanmaz Çelik Dikişsiz Borular
Stainless Steel Seamless Pipes
304L-316-316Ti-321-310s
STANDARTLAR ASTM A312 - A269 EN 10216-5



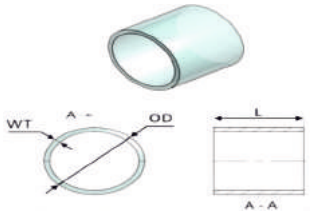


OD	WT	ID	İNCH GAS SCH	Kg/M	OD	OD	ID	İNCH GAS SCH	Kg/M
10,29	1,24	7,81	1/8" SCH 10S	0,281	76,1	76,1	66,93	21/2" SCH 10S	5,345
10,29	1,73	6,83	1/8" SCH 40S	0,371	76,1	76,1	62,71	21/2" SCH 40S	8,769
10,29	2,41	5,47	1/8" SCH 80S	0,476	76,1	76,1	59,01	21/2" SCH 80S	11,589
13,72	1,65	10,42	1/4" SCH 10S	0,499	73,1	73,1	53,97	21/2" SCH 160	15,153
13,72	2,24	9,24	1/4" SCH 40S	0,644	73,03	73,03	66,93	21/2" SCH 10S	5,345
13,72	3,02	7,68	1/4" SCH 80S	0,809	73,03	73,03	62,71	21/2" SCH 40S	8,769
17,15	1,65	13,85	3/8" SCH 10S	0,64	73,03	73,03	59,01	21/2" SCH 80S	11,589
17,15	2,31	12,53	3/8" SCH 40S	0,858	88,9	88,9	77,92	3" SCH 40S	11,466
17,15	3,20	10,75	3/8" SCH 80S	1,118	88,9	88,9	73,66	3" SCH 80S	15,509
21,34	2,11	17,12	1/2" SCH 10S	1,016	88,9	88,9	66,64	3" SCH 160	21,674
21,34	2,77	15,8	1/2" SCH 40S	1,288	88,9	88,9	58,42	3" SCH XXS	28,109
21,34	3,73	13,88	1/2" SCH 80S	1,645	114,3	114,3	108,2	4" SCH 10S	8,496
21,34	4,78	11,78	1/2" SCH 160	1,982	114,3	114,3	102,26	4" SCH 40S	16,322
21,34	7,47	6,4	1/2" SCH XXS	2,594	114,3	114,3	97,18	4" SCH 80S	22,665
26,67	2,11	22,45	3/4" SCH 10S	1,298	114,3	114,3	87,32	4" SCH 160	34,053
26,67	2,87	20,93	3/4" SCH 40S	1,71	141,3	141,3	134,5	5" SCH 10S	11,74
26,67	3,91	18,85	3/4" SCH 80S	2,228	141,3	141,3	128,2	5" SCH 40S	22,101
26,67	5,56	15,55	3/4" SCH 160	2,939	141,3	141,3	122,24	5" SCH 80S	31,444
26,67	7,82	11,03	3/4" SCH XXS	3,691	141,3	141,3	109,54	5" SCH 160	49,871
33,4	2,77	27,86	1" SCH 10S	2,125	168,28	168,28	161,48	6" SCH 10S	14,037
33,4	3,38	26,64	1" SCH 40S	2,541	168,28	168,28	154,06	6" SCH 40S	28,694
33,4	4,55	24,3	1" SCH 80S	3,287	168,28	168,28	146,34	6" SCH 80S	43,211
33,4	6,35	20,7	1" SCH 160	4,301	168,28	168,28	131,72	6" SCH 160	68,66
33,4	9,09	15,22	1" SCH XXS	5,533	219,08	219,08	211,56	8" SCH 10S	20,272
42,16	2,77	36,62	11/4" SCH 10S	2,732	219,08	219,08	206,48	8" SCH 20S	33,566
42,16	3,56	35,04	11/4" SCH 40S	3,441	219,08	219,08	202,72	8" SCH 40S	43,198
42,16	4,85	32,46	11/4" SCH 80S	4,531	219,08	219,08	193,68	8" SCH 80S	65,63
42,16	6,35	29,46	11/4" SCH 160	5,694	219,08	219,08	173,06	8" SCH 160	112,97
42,16	9,7	22,76	11/4" SCH XXS	7,884	273,05	273,05	264,67	10" SCH 10S	28,208
48,26	2,77	42,72	11/2" SCH 10S	3,155	273,05	273,05	254,51	10" SCH 40S	61,229
48,26	3,68	40,9	11/2" SCH 40S	4,108	273,05	273,05	247,65	10" SCH 80S	82,793
48,26	5,08	38,1	11/2" SCH 80S	5,493	323,85	323,85	314,71	12" SCH 10S	36,536
48,26	7,14	33,98	11/2" SCH 160	7,352	323,85	323,85	304,79	12" SCH 40S	75,007
48,26	10,15	27,96	11/2" SCH XXS	9,686	323,85	323,85	298,45	12" SCH 80S	98,948
60,33	2,77	54,79	2" SCH 10S	3,992	355,6	355,6	346,04	14" SCH 10S	41,99
60,33	3,91	52,51	2" SCH 40S	5,524	355,6	355,6	342,9	14" SCH 20S	55,532
60,33	5,54	49,25	2" SCH 80S	7,601	355,6	355,6	336,54	14" SCH 40S	82,583
60,33	8,74	42,85	2" SCH 160	11,29	406,4	406,4	396,84	16" SCH 10S	48,07
60,33	11,07	38,19	2" SCH XXS	13,655	406,4	406,4	387,34	16" SCH 40S	94,706

Paslanmaz Çelik Hidrolik Boru /ASTM-A312-ASTM A269

Stainless Steel Hydraulic Pipe



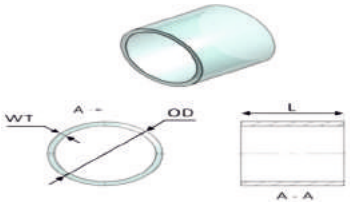


STANDART-STANDARDS-ASTM A312-ASTM A269

Dış Çap (mm)	Et Kalınlığı (mm)	İç Çap (mm)	Ağırlık (kg/m)	Dış Çap (mm)	Et Kalınlığı (mm)	İç Çap (mm)	Ağırlık (kg/m)
6	1,00	4	0,123	20	4,00	12	1,58
6	1,50	3	0,166	22	2,00	18	0,986
6	2,00	2	0,197	22	2,50	17	1,2
8	1,00	6	0,173	22	3,00	16	1,41
8	1,50	5	0,24	22	4,00	14	1,78
8	2,00	4	0,296	25	2,00	21	1,13
10	1,00	8	0,222	25	2,50	20	1,39
10	1,50	7	0,314	25	3,00	19	1,63
10	2,00	6	0,395	25	4,00	17	2,07
12	1,00	10	0,271	25	5,00	15	2,47
12	1,50	9	0,389	28	2,00	24	1,28
12	2,00	8	0,493	28	2,50	23	1,572
12	3,00	6	0,666	28	3,00	22	1,85
14	1,00	12	0,321	28	4,00	20	2,37
14	1,50	11	0,462	28	5,00	18	2,84
14	2,00	10	0,592	30	2,00	26	1,38
14	3,00	8	0,814	30	3,00	24	2
15	1,50	12	0,499	30	4,00	22	2,57
15	2,00	11	0,641	30	5,00	20	3,08
15	2,50	10	0,771	30	6,00	18	3,55
15	3,00	9	0,888	35	2,00	31	1,63
16	1,50	13	0,536	35	3,00	29	2,37
16	2,00	12	0,691	35	4,00	27	3,06
16	2,50	11	0,832	35	5,00	25	3,7
16	3,00	10	0,962	38	2,00	34	1,766
18	2,00	14	0,789	38	3,00	32	2,59
18	2,50	13	0,956	38	4,00	30	3,35
18	3,00	12	1,11	38	5,00	28	4,07
20	2,00	16	0,888	42	3,00	36	2,89
20	2,50	15	1,08	42	4,00	34	3,75
20	3,00	14	1,26	42	5,00	32	4,56

Paslanmaz Çelik Hijyenik Boru
Stainless Steel Sanitary Tubing
STANDART-STANDARDS / DIN 11850/51-EN 10217-7

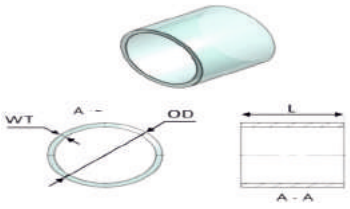




Dış Çap (mm)	Et Kalınlığı (mm)	İç Çap (mm)	Ağırlık (kg/m)
18	1,50	15	0,62
19	1,50	16	0,65
22	1,50	19	0,77
23	1,50	20	0,79
28	1,50	25	1,02
29	1,50	26	1,04
34	1,50	31	1,22
35	1,50	32	1,24
40	1,50	37	1,51
41	1,50	38	1,53
52	1,50	49	1,9
53	1,50	50	1,92
70	2,00	66	3,4
84	2,00	82	4,1
85	2,00	81	4,15
104	2,00	100	5,1
129	2,00	125	6,35
154	2,00	150	7,6
204	2,00	200	10,1
254	2,00	250	12,6
304	2,00	300	15,1

Paslanmaz Çelik Hijyenik Boru
Stainless Steel Sanitary Tubing
ISO 2037 SMS

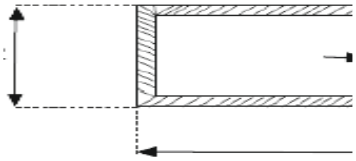




Dış Çap (mm)	Et Kalınlığı (mm)	İç Çap (mm)	Ağırlık (kg/m)
25	1,20	22,6	0,72
38	1,20	35,6	1,11
51	1,20	48,6	1,5
63,5	1,60	60,3	2,48
76,1	1,60	72,9	2,98
101,6	2,00	99,6	4,98

PASLANMAZ KARE KUTU PROFİL AĞIRLIK CETVELİ
STAINLESS SQUARE BOX PROFILE WEIGHT TABLE

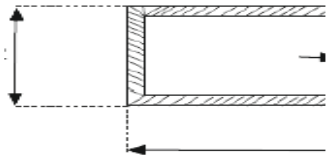




ÖLÇÜ	1mm	1,20mm	1,50mm	2mm	2,5mm	3mm	4mm	5mm	6mm
12×12	0,358	0,415							
15×15	0,453	0,538	0,508						
16×16	0,485	0,576	0,661	0,92					
20×20	0,613	0,729	0,709	1,175					
25×25	0,772	0,921	0,9	1,494	1,846	2,179			
30×30	0,932	1,112	1,41	1,813	2,222	2,645			
35×35	1,091	1,303	1,379	2,132	2,629	3,118			
40×40	1,251	1,495	1,618	2,451	3,036	3,602	4,708		
45×45	1,41	1,686	1,857	2,77	3,433	4,081	5,309		
50×50	1,57	1,878	2,097	3,089	3,818	4,559	5,96		
60×60			2,336	3,727	4,607	5,516	7,222		
70×70			2,814	4,365	5,408	6,473	8,504		
80×80			3,293	5,003	6,203	7,43	9,807	12,095	
100×100			3,771	6,279	7,918	9,343	12,358	15,322	18,236
120×120			4,728	7,555	9,578	11,257	14,91	18,512	22,064

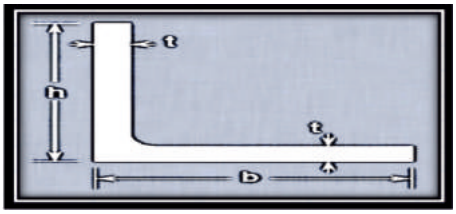
PASLANMAZ DİKDÖRTGEN KUTU PROFİL AĞIRLIK CETVELİ
STAINLESS RECTANGULAR BOX PROFILE WEIGHT TABLE





ÖLÇÜ	1mm	1,20mm	1,50mm	2mm	2,5mm	3mm	4mm	5mm	6mm
20×10	0,453	0,538	0,661						
20×15	0,533	0,634	0,781						
25×15	0,613	0,729	0,9	1,175					
30×10	0,613	0,729	0,9	1,175					
30×15	0,693	0,825	1,02	1,335					
30×20	0,772	0,921	1,14	1,494					
35×20	0,852	1,017	1,259	1,654					
40×15	0,852	1,017	1,259	1,654					
40×20	0,926	1,112	1,379	1,813					
40×30	1,091	1,303	1,618	2,132	2,661	3,156			
50×20	1,091	1,303	1,618	2,132					
50×25	1,196	1,399	1,738	2,292					
50×30	1,251	1,495	1,857	2,451					
50×40		1,686	2,097	2,77	3,412	4,081			
60×20		1,495	1,857	2,451					
60×30		1,686	2,097	2,77	3,412	4,081			
60×40		1,878	2,336	3,089	3,819	4,559	5,96		
80×40		2,261	2,818	3,727	4,6	5,516	7,222		
80×60			3,293	4,365	5,408	6,473	8,504		
100×40			3,293	4,365	5,408	6,473	8,504		
100×50			3,532	4,684	5,79	6,952	9,115	11,268	
100×60			3,771	5,003		7,43	9,807	12,095	
120×40				5,003		7,43	9,807	12,795	
120×60				5,642		8,387	11,803	13,728	16,324
120×80				6,279		9,343	12,358	15,322	18,236
150×50				6,279		9,343	12,358	15,322	18,236





Paslanmaz çelik Eşitkenar Köşebent / EN10056-1
Stainless steel Equilateral Bracket / EN10056-1

Tanım	G kg/m	h = b mm	t mm
L 15x15x2	0.45	15	2
L 15x15x3	0.66	15	3
L 20x20x2	0.89	20	2
L 20x20x3	0.9	20	3
L 20x20x4	1,16	20	4
L 25x25x3	1,14	25	3
L 25x25x4	1,48	25	4
L 25x25x5	1,82	25	5
L 30x30x3	1,39	30	3
L 30x30x4	1,81	30	4
L 30x30x5	2,22	30	5
L 35x35x4	2,13	35	4
L 35x35x5	2,62	35	5
L 40x40x3	1,87	40	3
L 40x40x4	2,46	40	4
L 40x40x5	3,03	40	5
L 50x50x3	2,37	50	3
L 50x50x4	3,11	50	4
L 50x50x5	3,80	50	5
L 60x60x5	4,60	60	5
L 60x60x6	5,48	60	6
L 65x65x6	5,96	65	6
L 65x65x7	6,89	65	7
L 65x65x8	7,81	65	8
L 70x70x5	5,40	70	5
L 70x70x6	6,44	70	6
L 70x70x7	7,45	70	7
L 75x75x5	5,80	75	5
L 75x75x6	6,92	75	6
L 80x80x6	7,40	80	6
L 80x80x7	8,57	80	7
L 80x80x8	9,73	80	8
L 90x90x9	12,32	90	9
L 90x90x10	13,60	90	10
L 100x100x6	9,32	100	6
L 100x100x7	10,82	100	7
L 100x100x8	12,99	100	8
L 100x100x9	15,20	100	9
L 100x100x10	16,80	100	10

Paslanmaz çelik Çeşitkenar Köşebent / EN10056-1
Stainless steel Varieties Bracket / EN10056-1

Tanım	G kg/m	h mm	b mm	t mm
L 20x10x3	0.66	20	10	3
L 25x15x3	0.9	25	15	3
L 30x15x3	1,030	30	15	3
L 30x20x3	1,150	30	20	3
L 30x20x4	1,490	30	20	4
L 40x20x4	1,820	40	20	4
L 40x30x3	1,630	40	30	3
L 40x30x4	2,140	40	30	4
L 45x30x3	1,770	45	30	3
L 45x30x4	2,310	45	30	4
L 50x30x4	2,470	50	30	4
L 50x30x5	3,040	50	30	5
L 50x40x3	2,130	50	40	3
L 50x40x4	2,790	50	40	4
L 50x40x5	3,440	50	40	5
L 60x30x5	3,450	60	30	5
L 60x30x6	4,090	60	30	6
L 60x30x7	4,700	60	30	7
L 60x40x5	3,850	60	40	5
L 60x40x6	4,520	60	40	6
L 65x50x5	4,400	65	50	5
L 65x50x7	6,020	65	50	7
L 65x50x9	7,640	65	50	9
L 70x50x6	5,480	70	50	6
L 70x50x7	6,330	70	50	7
L 75x50x6	5,720	75	50	6
L 75x50x7	6,610	75	50	7
L 80x40x6	5,480	80	40	6
L 80x40x8	7,170	80	40	8
L 80x65x6	6,680	80	65	6
L 80x65x8	8,770	80	65	8
L 80x65x10	10,080	80	65	10
L 90x60x6	6,920	90	60	6
L 90x60x8	9,090	90	60	8
L 100x50x6	6,920	100	50	6
L 100x50x8	9,090	100	50	8
L 100x50x10	11,200	100	50	10
L 100x65x6	7,640	100	65	6
L 100x65x7	8,850	100	65	7

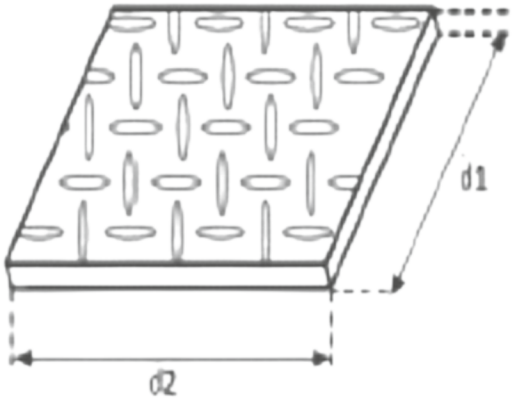
PASLANMAZ ÇELİK TEL STAİNLESS STEEL WİRE

Üretimdeki Paslanmaz Teller ve Teorik Birim Ağırlıkları(Gr/Mt) Stainless Wires in Production and Theoretical Unit Weights (Gr/Mt)		
ÇAP (mm)	KALINLIK TOLERANSI (mm)	AĞIRLIK
0,05	+,-0,002	0,0003
0,1	+,-0,003	0,0006
0,3	+,-0,005	0,0018
0,6	+,-0,006	0,0016
1	+,-0,010	0,006
1,5	+,-0,020	0,009
2	+,-0,030	0,012
2,5	+,-0,040	0,015
3	+,-0,050	0,018
4	+,-0,060	0,024



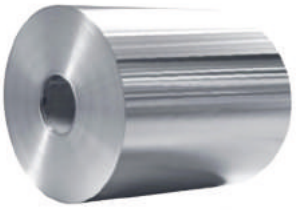
GÖZ YAŞI-BAKLAVA DAMLA DESENLİ SAC
TEAR-BAKLAVA DROP PATTERNED SHEET

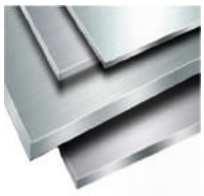
Size Ölçü		Ağırlık / Weight Kg		
D1-mm	D2-MM	3/4.	4/5.	5/6.
1000	2000	52	67	83
1250	2500	67	105	129
1500	3000	83	151	186

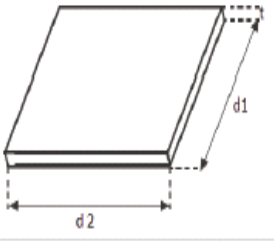




PASLANMAZ ÇELİK RULO- SAC
STAINLESS STEEL COIL







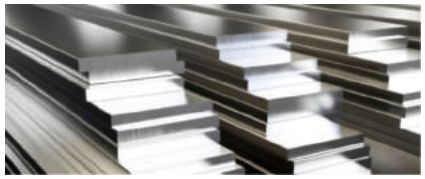
Genişliğe Bağlı Olarak Kalınlık Toleransları													
Genişlik Aralığı	Kalınlık Aralığı												
	0,3	0,3-0,5	0,5-0,6	0,6-0,8	0,8-0,9	1-1,2	1,2-1,5	1,5-2	2-2,5	2,5-3	3*4	4*5	5*6
600 -1000	0,03	0,04	0,045	0,05	0,055	0,06	0,07	0,08	0,09	0,11	0,13	0,14	0,15
1000-1250		0,04	0,05	0,05	0,06	0,07	0,08	0,09	0,11	0,13	0,14	0,15	0,15
1250-2100					0,06	0,07	0,08	0,1	0,11	0,12	0,14	0,15	0,16

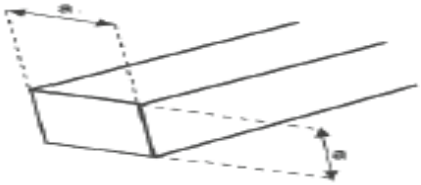
Kalınlığa Bağlı Olarak En Toleransları					
"Genişlik aralığı (mm)"	Kalınlık Aralığı				
	1	1-1,5	1,5-2,5	2,5-3,5	3,5-6,5
125	0,5	0,7	1	1,2	2
250-600	0,7	1	1,2	1,5	2
600-1000	1,5	1,5	2	3	4
1000-2000	2	2	2,5	3	4

Uzunluk Toleransları		
"Uzunluk mm (l=Uzunluk)"	Toleranslar	
	Normal	Özel
	5	3
l >= 2000	0	0
2000 > l	0,0025	0,0015
	x1	x1

Gönye Kaçıklık Toleransları	
Levha plaka boyu (mm) (l=Uzunluk)	Köşegenler arası uzunluk farkı (mm,en fazla)
l<=3000	6
3000< l <=6000	10
<=6000	15

Standart Plaka ve Teorik Ağırlıkları										
	0,2	**0,3**	**0,4**	**0,5**	**0,6**	**0,7**	**0,8**	**0,9**	**1**	**1,2**
1000-2000	3,2	4,8	6,4	8	9,6	11,2	12,8	14,4	16	19,2
1250-2500	5	7,9	10	12,5	15	17,5	20	22,5	25	30
1500-3000	7,2	11,8	14,4	18	21,6	25,2	28,8	32,4	36	43,2
2000-4000	12,8	19,2	25,6	32	38,4	44,8	51,2	57,6	64	76,8
2000-8000	25,6	38,4	51,2	64	76,8	89,6	102,4	115,2	128	153,6
	1,5	**2**	**2,5**	**3**	**4**	**5**	**6**	**7**	**8**	**10**
	24	32	40	48	64	80	96	112	128	160
	37,5	50	625	75	100	125	150	175	200	250
	54	72	90	108	144	180	216	252	288	360
	96	128	160	192	256	320	384	448	512	640
	192	256	320	384	512	640	768	896	1024	1280



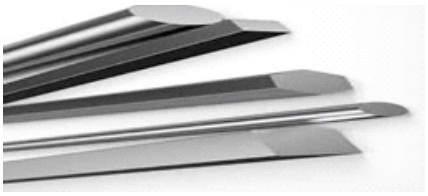


Paslanmaz Çelik Lama/Silme
Stainless steel Lama/Deletion

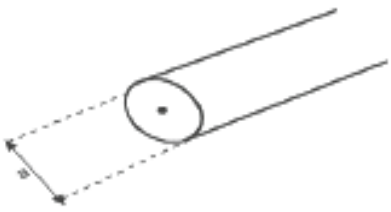
Ağırlık Çizelgesi / Weight Chart (Kg/mtr.)

Genişlik Widht mm	Kalınlık / Thickness (mm)												
	3	4	5	6	8	10	12	15	20	25	30	40	50
10	0,240	0,320	0,400										
15	0,360	0,480	0,600	0,720	0,960	1,200							
20	0,480	0,640	0,800	0,960	1,280	1,600	1,920						
25	0,600	0,800	1,000	1,200	1,600	2,000	2,400						
30	0,720	0,960	1,200	1,440	1,920	2,400	2,880	3,600	4,800	6,000			
35	0,840	1,120	1,400	1,680	2,240	2,800	3,360	4,200	5,600				
40	0,960	1,280	1,600	1,920	2,560	3,200	3,840	4,800	6,400	8,000	9,600		
45	1,080	1,44	1,800	2,160	2,880	3,600							
50	1,200	1,600	2,000	2,400	3,200	4,000	4,800	6,000	8,000	10,000	12,000	16,000	
60	1,440	1,920	2,400	2,880	3,840	4,800	5,760	7,200	9,600	12,000	14,400	19,200	
70	1,680	2,240	2,800	3,360	4,480	5,600	6,720	8,400	11,200	14,000	16,800	22,400	28,000
80	1,920	2,560	3,200	3,840	5,120	6,400	7,680	9,600	12,800	16,000	19,200	25,600	32,000
100			4,000	4,800	6,400	8,000	9,600	12,000	16,000	20,000	24,000	32,000	40,000
120			4,800	5,760	7,680	9,600	11,500	14,400	19,200	24,000	28,800	38,400	48,000
150			6,000	7,200	9,600	12,000	14,400	18,000	24,000	30,000	36,000	48,000	60,000

Paslanmaz çelik Yuvarlak & Altıköşe & Kare Çubuk Stainless steel Round& Hexagonal &Square Rod							
Çap (mm)	Yuvarlak (kg/mt)	Altıköşe (kg/mt)	Kare (kg/mt)	Çap (mm)	Yuvarlak (kg/mt)	Altıköşe (kg/mt)	Kare (kg/mt)
3	0,056	0,061	0,071	40	9,872	10,88	12,56
4	0,099	0,109	0,126	45	12,494	13,77	15,896
5	0,154	0,17	0,196	50	15,425	17	19,625
6	0,222	0,245	0,283	55	18,664	20,57	23,746
7	0,302	0,333	0,385	60	22,212	24,48	28,26
8	0,395	0,435	0,502	65	26,068	28,73	33,166
9	0,5	0,551	0,636	70	30,233	33,32	38,465
10	0,617	0,68	0,785	75	34,706	38,25	44,156
11	0,747	0,823	0,95	80	39,488	43,52	50,24
12	0,888	0,979	1,13	85	44,578	49,13	56,716
13	1,043	1,149	1,327	90	49,977	55,08	63,585
14	1,209	1,333	1,539	100	61,7	68	78,5
15	1,388	1,53	1,766	110	74,657	82,28	94,985
16	1,58	1,741	2,01	120	88,848	97,92	113,04
17	1,783	1,965	2,269	125	96,406	106,25	122,656
18	1,999	2,203	2,543	130	104,273	114,92	132,665
19	2,227	2,455	2,834	140	120,932	133,28	153,86
20	2,468	2,72	3,14	150	138,825	153	176,625
21	2,721	2,999	3,462	160	157,952	174,08	200,96
22	2,986	3,291	3,799	180	199,908	220,32	254,34
23	3,264	3,597	4,153	200	246,8	272	314
24	3,554	3,917	4,522	220	298,628	329,12	379,94
25	3,856	4,25	4,906	250	385,625	425	490,625
28	4,837	5,331	6,154	280	483,728	533,12	615,44
30	5,553	6,12	7,065	300	555,3	612	706,5
35	7,558	8,33	9,616	250	385,625	425	490,625
38	8,909	9,819	11,335	280	483,728	533,12	615,44
				300	555,3	612	706,5









Boru Basınç Dayanım Tablosu /Pipe Pressure Resistance Chart

Dikişli (Kaynak Faktörü ”1”) ve Dikişsiz Paslanmaz Boruların Değişik Sıcaklarda

Welded (Welding Factor “1”) and Seamless Stainless Steel Pipes at Different Temperatures

Size Ölçü	Norm	“Ağırlık Weight (kg/mt)"	20° C	100° C	150° C	200° C	250° C	300° C	350° C	400° C
15,00 x 1,00		0,351	179	149	145	132	122	114	108	105
15,00 x 1,50		0,507	268	226	223	206	191	177	170	164
15,00 x 2,00		0,651	358	315	297	287	265	247	236	229
15,00 x 2,50		0,783	447	412	376	371	347	323	309	299
15,88 x 0,71	5/8" x SWG 22	0,27	120	100	94	86	80	74	71	69
15,88 x 0,89	5/8" x BWG 20	0,334	150	125	120	110	101	94	90	87
15,88 x 0,91	5/8" x SWG 20	0,391	154	128	123	112	104	96	92	89
15,88 x 1,24	5/8" x BWG 18	0,455	210	174	172	157	145	135	129	123
16,00 x 1,00		0,376	168	139	135	123	114	106	101	98
16,00 x 1,50		0,545	252	210	209	192	177	165	158	153
16,00 x 2,00		0,701	335	292	279	266	246	229	219	212
16,00 x 2,50		0,845	419	380	348	347	321	299	285	276
16,00 x 3,00		0,977	503	477	435	418	402	374	358	347
17,15 x 1,65	3/8" SCH10S	0,64	258	216	214	198	183	170	162	157
17,15 x 2,31	3/8" SCH40S	0,858	361	319	300	291	269	250	239	232
17,15 x 3,20	3/8" SCH80S	1,118	501	474	433	416	400	372	355	344
17,20 x 1,60	3/8"	0,625	250	208	207	190	176	164	156	152
17,20 x 2,00	3/8"	0,761	312	268	259	245	226	211	201	195
17,20 x 2,60	3/8"	0,951	406	365	337	334	308	287	274	266
18,00 x 1,00		0,426	149	124	119	109	100	83	89	86
18,00 x 1,50		0,62	224	186	185	168	156	145	138	134
18,00 x 2,00		0,801	298	255	248	233	215	200	191	185
18,00 x 2,50		0,97	373	330	309	302	278	258	248	240
18,00 x 3,00		1,127	447	412	376	371	347	323	309	299
19,00 x 1,00		0,45	141	117	112	102	94	88	84	81
19,00 x 1,25		0,56	177	147	143	132	122	114	109	105
19,00 x 1,50		0,557	212	176	174	159	147	136	130	126
19,05 x 0,89	3/4" x BWG 20	0,405	125	104	99	90	83	78	74	72
19,05 x 1,24	3/4" x BWG 18	0,553	175	145	141	129	119	111	106	102
19,05 x 1,65	3/4" x BWG 16	0,719	232	193	193	176	162	151	144	140
19,05 x 2,11	3/4" x BWG 14	0,895	297	254	247	232	214	199	190	185
19,05 x 2,03	3/4" x SWG 14	0,865	286	243	237	222	205	191	182	177
19,05 x 3,25	3/4" x SWG 10	1,286	458	424	387	380	357	333	318	308
20,00 x 1,00		0,476	134	111	106	97	90	83	80	77
20,00 x 1,25		0,587	168	139	135	123	114	106	101	98
20,00 x 1,50		0,695	201	167	164	150	139	129	123	119
20,00 x 2,00		0,901	268	226	223	206	191	177	170	164
20,00 x 2,50		1,096	335	292	279	266	246	229	219	212
20,00 x 3,00		1,277	403	362	334	331	305	284	272	263
20,00 x 4,00		1,603	537	518	473	446	437	406	388	376
20,00 x 5,00		1,878	698	671	637	588	557	548	523	507
21,34 x 1,65	1/2" SCH5S	0,789	383	342	318	312	288	268	256	248
21,34 x 2,00	1/2"	0,968	252	211	209	192	178	165	158	153
21,34 x 2,11	1/2" SCH10S	1,016	265	223	220	204	188	175	167	162
21,34 x 2,60	1/2"	1,23	334	290	277	265	245	228	218	211
21,34 x 2,77	1/2" SCH40S	1,288	348	305	289	278	257	239	229	222
21,34 x 3,73	1/2" SCH80S	1,645	469	437	399	389	358	343	327	317
21,34 x 4,75	1/2" SCH160	1,973	597	596	544	502	496	468	447	433



Boru Basınç Dayanım Tablosu /Pipe Pressure Resistance Chart

Dikişli (Kaynak Faktörü ”1”) ve Dikişsiz Paslanmaz Boruların Değişik Sıcaklarda

Welded (Welding Factor “1”) and Seamless Stainless Steel Pipes at Different Temperatures

Size Ölçü	Norm	“Ağırlık Weight (kg/mt)"	20° C	100° C	150° C	200° C	250° C	300° C	350° C	400° C
6,00 x 1,50		0,169	698	671	637	588	557	548	523	507
6,35 x 0,71	1/4" x SWG 22	0,1	300	257	249	234	216	201	192	187
6,35 x 0,89	1/4" x BWG 20	0,122	376	334	312	305	281	262	250	243
6,35 x 0,91	1/4" x SWG 20	0,124	385	343	319	313	289	269	257	249
6,35 x 1,24	1/4" x BWG 18	0,159	524	502	458	435	423	394	377	365
6,35 x 1,65	1/4" x BWG 16	0,194	737	697	673	621	579	578	553	535
8,00 x 0,50		0,094	168	139	135	123	114	106	101	98
8,00 x 1,00		0,175	335	292	279	266	246	229	219	212
8,00 x 1,50		0,244	503	477	435	418	402	374	358	347
8,00 x 2,00		0,3	698	671	637	588	557	548	523	507
9,00 x 1,00		0,2	298	255	248	233	215	200	191	185
9,53 x 0,71	3/8" x SWG 22	0,157	200	166	163	149	138	128	122	119
9,53 x 0,89	3/8" x BWG 20	0,193	251	209	208	191	177	164	157	152
9,53 x 1,24	3/8" x BWG 18	0,257	349	306	290	279	258	240	229	222
9,53 x 1,65	3/8" x BWG 16	0,326	465	431	394	386	364	339	324	314
10,00 x 0,50		0,119	134	111	106	97	90	83	80	77
10,00 x 1,00		0,225	268	226	223	206	191	177	170	164
10,00 x 1,50		0,319	403	362	334	331	305	284	272	263
10,00 x 1,60		0,337	429	392	357	357	330	307	294	285
10,00 x 2,00		0,401	537	518	473	446	437	406	388	376
10,00 x 2,50		0,47	698	671	637	588	557	548	523	507
10,20 x 1,00		0,23	263	221	218	202	186	174	166	161
10,20 x 1,20		0,27	316	272	262	248	229	214	204	198
10,20 x 1,60		0,35	421	382	350	349	322	300	287	278
10,20 x 2,00		0,41	526	505	461	437	426	396	379	367
10,29 x 1,24	1/8" SCH10S	0,281	323	280	269	255	236	220	210	203
10,29 x 1,73	1/8" SCH40S	0,371	451	416	380	375	351	327	312	302
12,00 x 0,50		0,144	112	93	88	80	74	69	66	64
12,00 x 1,00		0,275	224	185	185	168	156	145	138	134
12,00 x 1,50		0,394	335	292	279	266	246	229	219	212
12,00 x 2,00		0,501	447	412	376	371	347	323	309	299
12,70 x 0,89	1/2" x BWG 20	0,263	188	156	153	139	129	120	114	111
12,70 x 1,24	1/2" x BWG 18	0,356	262	220	218	201	186	173	165	160
12,70 x 1,65	1/2" x BWG 16	0,457	349	305	290	279	257	240	229	222
12,70 x 2,03	1/2" x BWG 14	0,542	429	391	357	356	330	307	293	284
13,00 x 1,00		0,3	206	171	169	154	142	133	127	123
13,00 x 1,50		0,432	310	266	257	243	224	209	200	193
13,00 x 2,50		0,657	516	492	449	429	415	387	369	358
13,50 x 1,60	1/4"	0,477	318	274	264	250	231	215	205	199
13,50 x 1,80	1/4"	0,527	358	315	297	287	265	247	236	229
13,50 x 2,00	1/4"	0,576	398	357	330	326	301	280	268	259
13,50 x 2,30	1/4"	0,645	457	423	386	380	357	332	317	307
13,72 x 1,24	1/4" SCH5S	0,387	243	202	201	184	170	158	151	147
13,72 x 1,65	1/4" SCH10S	0,499	323	279	268	255	235	219	209	203
13,72 x 2,24	1/4" SCH40S	0,544	438	401	366	364	338	315	301	292
13,72 x 3,02	1/4" SCH80S	0,809	591	587	536	495	490	461	440	427
14,00 x 0,50		0,169	96	80	75	68	63	59	56	54
14,00 x 1,00		0,326	192	159	156	142	131	122	117	113
14,00 x 1,50		0,47	288	244	239	223	206	192	183	178
14,00 x 2,00		0,601	383	342	318	312	288	268	256	248
14,00 x 2,50		0,72	479	448	409	398	378	352	336	326
14,00 x 3,00		0,826	575	567	517	478	478	445	425	412



Boru Basınç Dayanım Tablosu /Pipe Pressure Resistance Chart Dikişli (Kaynak Faktörü ”1”) ve Dikişsiz Paslanmaz Boruların Değişik Sıcaklarda Welded (Welding Factor “1”) and Seamless Stainless Steel Pipes at Different Temperatures										
Size Ölçü	Norm	“Ağırlık Weight (kg/mt)"	20° C	100° C	150° C	200° C	250° C	300° C	350° C	400° C
22,00 x 1,00		0,526	122	101	96	88	81	75	72	70
22,00 x 1,25		0,649	152	127	122	111	103	96	91	89
22,00 x 1,50		0,77	183	152	148	135	125	116	111	108
22,00 x 2,00		1,002	244	203	203	185	171	159	152	148
22,00 x 3,00		1,427	366	323	304	295	272	254	242	235
22,00 x 4,00		1,803	488	459	419	405	387	360	344	333
23,00 x 1,50		0,808	175	145	141	129	119	111	106	103
24,00 x 2,00		1,102	224	186	185	168	156	145	138	134
25,00 x 1,00		0,601	107	89	84	77	71	66	63	61
25,00 x 1,50		0,883	161	134	129	118	109	101	97	94
25,00 x 2,00		1,152	215	178	176	161	149	138	132	128
25,00 x 2,50		1,409	268	226	223	206	191	177	170	164
25,00 x 3,00		1,653	322	278	267	254	235	218	209	202
25,00 x 3,50		1,884	376	333	312	304	281	262	250	242
25,00 x 4,00		2,103	429	392	357	357	330	307	294	285
25,00 x 5,00		2,504	537	518	473	446	437	406	388	376
25,40 x 0,91	1" x SWG 20	0,558	96	80	75	68	63	59	56	54
25,40 x 1,24	1" x BWG 18	0,756	132	110	105	95	88	82	78	76
25,40 x 1,63	1" x SWG 16	0,97	172	143	139	127	117	109	104	101
26,67 x 1,65	3/4" SCH5S	1,034	166	138	133	122	112	105	100	97
26,67 x 2,11	3/4" SCH10S	1,298	212	176	174	159	147	137	131	127
26,67 x 2,87	3/4" SCH40S	1,71	289	246	240	224	207	193	184	179
26,67 x 3,91	3/4" SCH80S	2,228	393	352	327	322	297	277	264	256
26,67 x 5,53	3/4" SCH160	2,927	556	543	495	462	457	426	407	394
26,90 x 1,60	3/4"	1,014	160	133	128	117	108	100	96	93
26,90 x 2,00	3/4"	1,247	200	166	163	149	137	128	122	118
26,90 x 2,60	3/4"	1,582	259	218	215	199	183	171	163	158
26,90 x 3,20	3/4"	1,899	319	276	265	252	232	216	207	200
26,90 x 3,60	3/4"	2,1	359	316	298	289	267	248	237	230
28,00 x 1,00		0,676	96	80	75	68	63	59	56	54
28,00 x 1,50		0,995	144	119	114	104	96	90	86	83
28,00 x 2,00		1,302	192	159	156	142	131	122	117	113
28,00 x 2,50		1,596	240	199	199	182	168	156	149	145
28,00 x 3,00		1,878	200	244	239	223	206	192	183	178
30,00 x 1,00		0,726	89	74	69	63	59	55	52	51
30,00 x 1,50		1,07	134	111	106	97	90	83	80	77
30,00 x 2,00		1,402	179	149	145	132	122	114	108	105
30,00 x 2,50		1,722	224	186	185	168	156	145	138	134
30,00 x 3,00		2,028	268	226	223	206	191	177	170	164
30,00 x 4,00		2,604	358	315	297	287	265	247	236	229
31,75 x 1,63	1/4" SWG 16	1,229	138	114	109	100	92	86	82	79
32,00 x 1,25		0,962	105	87	82	75	69	64	61	60
32,00 x 1,50		1,146	126	104	99	91	84	78	74	72
32,00 x 2,00		1,502	168	139	135	123	114	106	101	98
32,00 x 3,00		2,178	252	210	209	192	177	165	158	153
32,00 x 4,00		2,804	3,35	292	279	266	246	229	219	212



Boru Basınç Dayanım Tablosu /Pipe Pressure Resistance Chart Dikişli (Kaynak Faktörü ”1”) ve Dikişsiz Paslanmaz Boruların Değişik Sıcaklarda Welded (Welding Factor “1”) and Seamless Stainless Steel Pipes at Different Temperatures										
Size Ölçü	Norm	“Ağırlık Weight (kg/mt)”	20° C	100° C	150° C	200° C	250° C	300° C	350° C	400° C
44,50 x 2,60		2,728	157	130	125	115	106	98	94	91
44,50 x 2,90		3,021	175	145	141	129	119	111	106	103
44,50 x 4,00		4,056	241	201	200	183	169	158	151	146
45,00 x 2,00		2,153	119	99	94	86	79	74	70	68
48,28 x 1,65	11/2" SCH5S	1,926	92	76	71	65	60	56	54	52
48,26 x 2,00	11/2"	2,32	111	92	87	80	73	68	65	63
48,26 x 2,60	11/2"	2,975	144	120	115	105	97	90	86	84
48,26 x 2,77	11/2" SCH10S	3,155	154	128	123	112	104	97	92	89
48,26 x 2,90	11/2"	3,3	161	134	129	118	109	101	97	94
48,26 x 3,20	11/2"	3,614	178	148	144	131	121	113	108	104
48,26 x 3,68	11/2" SCH40S	4,108	205	170	167	153	141	131	126	122
48,26 x 4,05	11/2"	4,49	225	187	186	170	157	146	139	135
48,26 x 5,08	11/2" SCH80S	5,493	282	235	232	219	202	188	180	174
48,26 x 7,14	11/2" SCH160	7,352	397	330	326	325	300	280	267	259
50,00 x 1,00		1,227	67	54	45	41	35	32	31	30
50,00 x 1,50		1,827	81	67	62	57	53	49	47	45
50,00 x 2,00		2,404	107	89	84	77	71	66	63	61
50,00 x 2,50		2,974	134	111	105	97	90	83	80	77
50,00 x 3,00		3,531	161	134	129	118	109	101	97	94
50,00 x 4,00		4,607	215	178	176	161	149	138	132	128
50,80 x 1,22	2" SWG 18	1,515	64	54	50	45	42	39	37	36
50,80 x 1,50		1,852	79	66	61	56	52	48	46	45
50,80 x 2,00		2,444	106	88	83	75	70	65	62	60
50,80 x 2,50		3,024	132	110	105	95	88	82	78	76
51,00 x 2,00		2,454	105	87	82	75	69	65	62	60
51,00 x 2,60		3,151	137	114	109	99	91	85	81	79
52,00 x 1,50		1,897	77	64	60	55	50	47	45	43
52,00 x 2,00		2,504	103	86	81	74	68	63	61	59
53,00 x 1,50		1,934	76	63	59	54	49	46	44	43
53,00 x 3,00		3,756	152	126	121	111	102	95	91	88
54,00 x 2,00		2,604	99	83	78	71	65	61	58	56
55,00 x 2,50		3,287	122	101	96	88	81	75	72	70
58,00 x 3,00		3,981	144	119	114	104	96	90	86	83
57,00 x 1,50		2,085	71	59	54	50	46	43	41	40
57,00 x 2,00		2,754	94	78	73	67	62	58	55	53
57,00 x 2,60		3,542	122	102	96	88	81	76	72	70
57,00 x 2,90		3,929	137	113	108	99	91	85	81	79
57,00 x 4,00		5,308	188	156	153	140	129	120	115	111
60,30 x 1,65	2" SCH5S	2,424	73	61	57	52	48	44	42	41
60,30 x 2,00	2"	2,92	89	74	69	63	58	54	52	50
60,30 x 2,60	2"	3,757	116	96	91	83	77	71	68	66
60,30 x 2,77	2" SCH10S	3,992	123	102	97	89	82	76	73	71
60,30 x 2,90	2"	4,168	129	107	102	93	86	80	77	74
60,30 x 3,20	2"	4,575	142	118	113	103	95	89	85	82
60,30 x 3,60	2"	5,111	160	133	128	117	108	101	96	93



Boru Basınç Dayanım Tablosu /Pipe Pressure Resistance Chart

Dikişli (Kaynak Faktörü ”1”) ve Dikişsiz Paslanmaz Boruların Değişik Sıcaklarda

Welded (Welding Factor “1”) and Seamless Stainless Steel Pipes at Different Temperatures

Size Ölçü	Norm	“Ağırlık Weight (kg/mt)"	20° C	100° C	150° C	200° C	250° C	300° C	350° C	400° C
33,00 x 1,50		1,183	122	101	96	88	81	75	72	70
33,40 x 1,65	1" SCH5S	1,312	133	110	105	96	88	82	79	76
33,40 x 2,77	1" SCH10S	2,125	223	185	184	168	155	144	138	133
33,40 x 3,38	1" SCH40S	2,541	272	229	226	209	193	180	172	167
33,40 x 4,55	1" SCH80S	3,287	366	323	304	295	272	253	242	235
33,40 x 6,35	1" SCH160	4,301	510	485	443	424	409	381	364	353
33,70 x 1,60	1"	1,286	127	106	101	92	85	79	75	73
33,70 x 2,00	1"	1,588	159	132	128	116	108	100	96	93
33,70 x 2,60	1"	2,025	207	172	170	155	143	133	127	123
33,70 x 3,20	1"	2,444	255	213	212	195	180	167	160	155
33,70 x 4,05	1"	3,007	322	279	268	255	235	219	209	203
33,70 x 5,00	1"	3,63	390	350	325	320	295	275	262	253
34,00 x 1,00		0,826	79	66	61	56	51	48	46	44
34,00 x 1,50		1,221	118	98	93	85	79	73	70	68
34,00 x 2,00		1,603	158	131	126	115	107	99	95	92
35,00 x 1,50		1,258	115	96	90	82	76	71	68	66
35,00 x 2,00		1,653	153	127	123	112	103	96	92	89
35,00 x 2,50		2,035	192	159	156	142	131	122	117	113
36,00 x 2,00		1,703	149	124	119	109	100	93	89	86
38,00 x 1,00		0,926	71	59	54	50	46	43	41	40
38,00 x 1,25		1,15	88	73	69	63	58	54	51	50
38,00 x 1,50		1,371	106	88	83	76	70	65	62	60
38,10 x 1,63	11/2" x SWG 16	1,489	115	95	90	82	76	71	68	66
38,00 x 2,00		1,803	141	117	112	102	95	88	84	82
38,00 x 2,50		2,222	177	147	143	130	120	112	107	104
38,00 x 3,00		2,629	212	176	174	159	147	136	130	126
38,00 x 4,00		3,405	282	240	235	219	202	188	180	174
38,00 x 5,00		4,132	353	310	293	283	261	243	232	225
40,00 x 1,00		0,977	67	56	52	47	44	41	39	38
40,00 x 1,50		1,446	101	84	79	72	66	62	59	57
40,00 x 2,00		1,903	134	111	106	97	90	83	80	77
40,00 x 2,50		2,348	168	139	135	123	114	106	101	98
40,00 x 3,00		2,78	201	167	164	150	139	129	123	119
40,00 x 4,00		3,606	268	226	223	206	191	177	170	164
41,00 x 4,00		3,706	262	220	217	201	185	173	165	160
42,16 x 1,65	11/4" SCH5S	1,674	105	87	82	75	69	64	62	60
42,16 x 2,77	11/4" SCH10S	2,732	176	146	142	130	120	112	107	103
42,16 x 3,56	11/4" SCH40S	3,441	227	188	187	171	158	147	140	136
42,16 x 4,85	11/4" SCH80S	4,531	309	265	256	242	224	208	199	193
42,40 x 6,35	11/4" SCH160	5,70	417	371	357	338	313	291	278	266
42,40 x 1,60	11/4"	1,635	101	84	79	72	67	62	59	57
42,40 x 2,00	11/4"	2,023	127	105	100	91	84	78	75	73
42,40 x 2,60	11/4"	2,591	165	137	132	121	111	104	99	96
42,40 x 2,90	11/4"	2,868	184	152	149	136	125	117	112	108
42,40 x 3,20	11/4"	3,141	203	168	165	151	140	130	124	120
42,40 x 3,60	11/4"	3,489	228	189	188	172	159	148	141	137
42,40 x 4,00	11/4"	3,846	253	212	210	193	179	166	159	154
42,40 x 6,30		5,695	399	358	341	327	302	281	269	260
44,00 x 2,00		2,103	122	101	96	88	81	75	72	70
44,50 x 1,50		1,615	90	75	70	64	59	55	53	51
44,50 x 2,00		2,128	121	100	95	87	80	75	71	69



Boru Basınç Dayanım Tablosu /Pipe Pressure Resistance Chart Dikişli (Kaynak Faktörü ”1”) ve Dikişsiz Paslanmaz Boruların Değişik Sıcaklarda Welded (Welding Factor “1”) and Seamless Stainless Steel Pipes at Different Temperatures										
Size Ölçü	Norm	“Ağırlık Weight (kg/mt)"	20° C	100° C	150° C	200° C	250° C	300° C	350° C	400° C
60,33 x 3,91	2" SCH40S	5,524	174	144	140	128	118	110	105	102
60,33 x 4,50	2"	6,288	200	163	163	149	138	128	123	119
60,33 x 5,54	2" SCH80S	7,601	246	205	205	188	173	161	154	149
60,33 x 8,71	2" SCH160	11,26	389	347	323	317	293	273	260	252
63,50 x 1,50		2,33	63	53	49	44	41	38	37	35
63,50 x 2,00		3,08	85	70	66	60	55	51	49	48
63,50 x 2,60		3,965	110	91	86	79	73	68	65	63
64,00 x 2,00		3,105	84	70	65	59	55	51	49	47
69,00 x 2,00		3,36	78	65	60	55	51	47	45	44
70,00 x 1,50		2,573	58	48	44	40	37	35	33	32
70,00 x 2,00		3,405	77	64	59	54	50	46	44	43
70,00 x 2,50		4,226	96	80	75	68	63	59	56	54
70,00 x 2,90		4,873	111	92	87	80	74	68	65	63
70,00 x 4,00		6,611	153	127	123	112	103	96	92	89
73,03 x 2,11	21/2" SCH5S	3,747	78	64	60	55	51	47	45	44
73,03 x 3,05	21/2" SCH10S	5,345	112	93	88	80	74	69	66	64
73,03 x 5,16	21/2" SCH40S	8,769	190	157	154	141	130	121	116	112
73,03 x 7,001	21/2" SCH80S	12,11	266	219	207	190	175	157	154	145
73,03 x 9,53	21/2" SCH160S	8,769	372	295	279	256	227	205	198	190
76,10 x 1,50	21/2"	2,802	53	44	40	37	34	32	30	29
76,10 x 1,65	21/2"	3,076	58	48	45	41	38	35	33	32
76,10 x 2,00	21/2"	3,711	71	59	54	50	46	43	41	39
76,10 x 2,60	21/2"	4,785	92	76	71	65	60	56	53	52
76,10 x 2,90	21/2"	5,315	102	85	80	73	67	63	60	58
76,10 x 3,60	21/2"	6,535	127	105	100	92	85	79	75	73
76,10 x 4,50	21/2"	8,068	159	132	127	116	107	100	95	92
80,00 x 2,00		3,906	67	56	52	47	44	41	39	38
80,00 x 2,50		4,852	84	70	65	59	55	51	49	47
83,00 x 1,50		3,061	48	40	37	34	31	29	28	27
84,00 x 2,00		4,107	64	53	49	45	41	39	37	36
85,00 x 2,00		4,157	63	52	48	44	41	38	36	35
88,90 x 2,00	3"	4,352	60	50	46	42	39	36	35	34
88,90 x 2,11	3" SCH5S	4,585	64	53	49	45	41	38	37	36
88,90 x 3,00	3"	6,453	91	75	70	64	59	55	53	51
88,90 x 3,05	3" SCH10S	6,557	92	76	72	65	60	56	54	52
88,90 x 3,20	3"	6,867	97	80	75	69	63	59	56	55
88,90 x 3,80	3"	7,689	109	90	85	78	72	67	64	62
88,90 x 4,05	3"	8,605	122	102	96	88	81	76	72	70
88,90 x 4,50	3"	9,51	136	113	108	98	91	85	81	78
88,90 x 5,49	3" SCH40S	11,466	166	138	133	122	112	105	100	97
88,90 x 7,62	3" SCH80S	15,509	230	191	190	174	160	149	143	138
88,90 x 11,10	3" SCH160	21,674	336	292	279	267	247	230	219	213
95,00 x 2,50		5,791	71	59	54	50	46	43	41	40
101,60 x 1,50	31/2"	3,76	40	33	30	27	25	24	23	22
101,60 x 2,11	31/2" SCH5S	5,256	56	46	43	39	36	33	32	31
101,60 x 3,05	31/2" SCH10S	7,526	81	67	62	57	53	49	47	45
101,60 x 3,60	31/2"	8,834	95	79	74	68	62	58	56	54
101,60 x 4,05	31/2"	9,893	107	89	84	76	71	66	63	61
101,60 x 5,74	31/2" SCH40S	13,778	152	126	121	111	102	95	91	88



Boru Basınç Dayanım Tablosu /Pipe Pressure Resistance Chart

Dikişli (Kaynak Faktörü ”1”) ve Dikişsiz Paslanmaz Boruların Değişik Sıcaklarda

Welded (Welding Factor “1”) and Seamless Stainless Steel Pipes at Different Temperatures

Size Ölçü	Norm	“Ağırlık Weight (kg/mt)"	20° C	100° C	150° C	200° C	250° C	300° C	350° C	400° C
103,00 x 1,50		3,812	39	32	30	27	25	23	22	22
104,00 x 2,00		5,108	52	43	39	36	33	31	30	29
106,00 x 3,00		7,737	76	63	59	54	49	46	44	43
108,00 x 2,00		5,308	50	41	38	35	32	30	28	28
108,00 x 3,00		7,888	75	62	58	53	49	45	43	42
108,00 x 3,60		9,411	89	74	69	63	59	55	52	51
108,00 x 4,00		10,417	99	83	78	71	65	61	58	56
114,30 x 2,00	4"	5,624	47	39	36	33	30	28	27	26
114,30 x 2,11	4" SCH5	5,927	50	41	38	35	32	30	28	27
114,30 x 2,60	4"	7,272	61	51	47	43	39	37	35	34
114,30 x 3,00	4"	8,361	70	58	54	50	46	43	41	39
114,30 x 3,05	4" SCH10S	8,496	72	59	55	50	47	43	41	40
114,30 x 3,60	4"	9,98	85	70	66	60	55	51	49	48
114,30 x 4,00	4"	11,048	94	78	73	67	62	57	55	53
114,30 x 4,50	4"	12,372	106	88	83	75	70	65	62	57
114,30 x 6,02	4" SCH40S	16,322	141	117	112	103	95	88	84	82
114,30 x 8,56	4" SCH80S	22,665	201	167	164	150	138	129	123	119
114,30 x 13,64	4" SCH160	34,08	317	273	263	249	230	214	205	198
128,00 x 1,50		4,751	31	26	24	22	20	19	18	17
129,00 x 2,00		6,36	42	35	32	29	27	25	24	23
133,00 x 4,00		12,921	81	67	62	57	53	49	47	45
139,70 x 2,00	5"	6,9	38	32	29	27	25	23	22	21
139,70 x 3,00	5"	10,27	58	48	44	40	37	35	33	32
139,70 x 4,00	5"	13,592	77	64	59	54	50	47	45	43
141,30 x 3,40	5" SCH10S	11,74	65	544	50	45	42	39	37	36
141,30 x 6,55	5" SCH40S	22,101	124	103	98	90	83	77	74	71
141,30 x 9,32	5" SCH80S	31,37	100	90	80	72	60	58	33	30
152,40 x 7,00		25,486	123	102	97	89	82	76	73	71
153,00 x 1,50		5,69	26	22	20	18	17	16	15	14
154,00 x 2,00		7,612	35	29	26	24	22	21	20	19
155,00 x 2,50		9,547	43	36	33	30	28	26	25	24
156,00 x 3,00		11,493	52	43	39	36	33	31	30	29
158,00 x 4,00		15,425	68	56	52	48	44	41	39	38
159,00 x 3,00		11,72	51	42	39	35	33	30	29	28
159,00 x 4,00		15,525	68	56	52	47	44	41	39	38
159,00 x 4,50	6"	17,409	76	63	59	54	49	46	44	43
168,30 x 2,00	6"	8,33	32	26	24	22	20	19	18	18
168,30 x 2,50	6" SCH5S	10,379	40	33	30	28	26	24	23	22
168,30 x 2,77	6"	11,48	44	37	34	31	28	26	25	24
168,30 x 3,00	6"	12,417	48	40	37	33	31	29	27	27
168,30 x 3,20	6" SCH10S	13,23	51	42	39	36	33	31	29	28
168,30 x 3,40	6"	14,04	54	45	41	38	35	33	31	30
168,30 x 4,00	6"	16,46	64	53	49	45	41	38	37	36
168,30 x 5,00	6" SCH40S	20,445	80	66	62	56	52	48	46	45
168,30 x 7,11	6" SCH80S	28,66	113	94	89	81	75	70	67	65
168,30 x 10,97		43,25	175	145	141	129	119	111	106	103
193,70 x 8,00		37,199	111	92	87	79	73	68	65	63
204,00 x 2,00		10,116	26	22	20	18	17	16	15	14



Boru Basınç Dayanım Tablosu /Pipe Pressure Resistance Chart

Dikişli (Kaynak Faktörü ”1”) ve Dikişsiz Paslanmaz Boruların Değişik Sıcaklarda

Welded (Welding Factor “1”) and Seamless Stainless Steel Pipes at Different Temperatures

Size Ölçü	Norm	“Ağırlık Weight (kg/mt)"	20° C	100° C	150° C	200° C	250° C	300° C	350° C	400° C
206,00 x 3,00		15,25	39	32	30	27	25	23	22	22
208,00 x 4,00		20,433	52	43	39	36	33	31	30	29
219,10 x 2,00	8"	10,872	24	20	19	17	16	15	14	13
219,10 x 2,60	8"	14,1	32	26	24	22	20	19	18	18
219,10 x 3,00	8"	16,233	37	31	28	25	24	22	21	20
219,10 x 3,76	8" SCH10S	20,274	46	38	35	32	30	28	26	26
219,10 x 4,00		21,544	49	41	37	34	32	29	28	27
219,10 x 6,35	8" SCH20S	33,57	77	64	60	54	50	47	45	43
219,10 x 8,18	8" SCH40S	43,3	100	83	78	72	66	62	59	57
219,10 x 12,70	8" SCH80S	65,63	156	129	124	114	105	98	93	90
254,00 x 2,00		12,62	21	18	16	15	13	13	12	12
256,00 x 3,00		19,01	31	26	24	22	20	19	18	17
273,00 x 2,00	10"	13,572	20	16	15	14	12	12	11	11
273,00 x 3,00	10"	20,282	29	24	22	20	19	18	17	16
273,00 x 4,00	10"	26,943	39	33	30	27	25	23	22	22
273,00 x 4,19	10" SCH10S	28,21	41	34	31	29	26	25	24	23
273,00 x 6,35	10" SCH20S	42,41	62	52	48	44	40	38	36	35
273,00 x 9,27	10" SCH40S	61,23	91	76	71	65	60	56	53	51
304,00 x 2,00		15,124	18	15	13	12	11	10	10	10
306,00 x 3,00		22,761	26	22	20	18	17	16	15	14
323,90 x 2,00	12"	16,121	17	14	12	11	11	10	9	9
323,90 x 3,00	12"	24,106	25	21	19	17	16	15	14	14
323,90 x 4,00	12"	32,041	33	28	25	23	21	20	19	17
323,90 x 4,57	12" SCH10S	36,54	38	31	29	26	24	23	22	21
323,90 x 6,35	12" SCH20S	50,49	53	44	40	37	34	32	30	29
323,90 x 9,53	12" SCH40S	75,01	79	66	61	56	51	48	46	44
323,90 x 12,70	12" SCH80S	98,95	105	87	82	75	69	65	62	60
355,60 x 3,00	14"	26,487	23	19	17	16	14	13	13	12
355,60 x 4,78	14" SCH10S	41,99	36	30	27	25	23	21	21	20
355,60 x 9,53	14" SCH40S	82,583	72	60	55	51	47	44	42	40
406,40 x 3,00	16"	30,303	20	16	15	14	13	12	11	10
406,40 x 4,78	16" SCH10S	48,07	32	26	24	22	20	19	18	17
406,40 x 9,53	16" SCH40S	94,706	63	52	48	44	41	38	36	35
456,00 x 3,00		34,03	18	15	13	12	11	10	10	10

/ SEKTÖRLER · SECTORS

PASLANMAZ ÇELİK KULLANIM ALANLARI

UmayX paslanmaz çelik ürünleriyle sektörünüzdeki iş yükünü azaltıyor, süreçlerinizi hızlandırıyor; kaliteli ve dayanıklı ürünlerle tanışmanızı sağlıyoruz.

Stainless steel sector and usage areas



KİMYA SANAYİ
Chemical industry



DEMİR ÇELİK SANAYİ
Iron and steel industry



TEKSTİL SANAYİ
Textile industry



PETROKİMYA SANAYİ
Petrochemical industry



GEMİ VE YAT SANAYİ
Ship and yacht industry



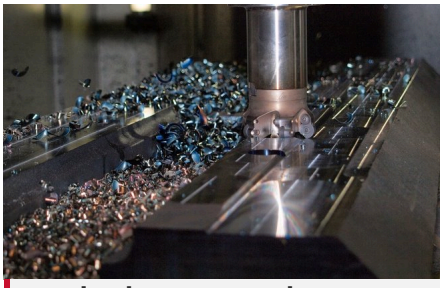
ARITMA SANAYİ
Water treatment industry



TARIM SANAYİ
Agricultural industry



OTOMOTİV SANAYİ
Automotive industry



MAKİNA İMALAT SANAYİ
Machinery manufacturing



GIDA SANAYİ
Food industry

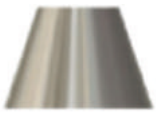
/ SİZİN SEKTÖRÜNÜZ

SEKTÖRÜNÜZE ÖZEL TEDARİK

Malzeme, kalite ve standart seçimini birlikte planlayalım.

UMAYX.COM/TEKLIF-AL

Paslanmaz Çelik Fıtıings Görselleri
Stanless Steel Fııtngs Product Images

SS TEE /DIN 11850 SS TEE /DIN 11850 	SS KON.RED /DIN 11850 SS CON.RED /DIN 11850 	SS EKSAN.RED /DIN 11850 SS ECC RED. /DIN 11850 	SS REKOR /DIN 11850 SS UNİON /DIN 11850 
SS KELEBEK.VANA /DIN 11850 SS BUTTER.VALVE /DIN 11850 	SS RED.TEE /DIN 11850 SS REC.TEE /DIN 11850 	SS Z.KÖR SOMUN /DIN 11850 SS BLIND NUT /DIN 11850 	SS KLEMP KÖRÜ /DIN 11850 SS CLAMP BLIND/DIN 11850 
SS BORU TİP CAM DIN 11850 SS PİPE TYPE GLASS DIN 11850 	SS SAPLI KELEPÇE DIN 11850 SS HANDLE CLAMP DIN 11850 	SS YIKAMA TOPU /DIN 11850 SS WASHING BALL /DIN 11850 	SS HAT FİLİTRESİ /DIN 11850 SS LINE FILTER /DIN 11850 
SS KLEMP /DIN 11850 SS CLAMP /DIN 11850 	SS REKOR KÖRÜ /DIN 11850 SS UNİON BLIND /DIN 11850 	SS PNÖ.K VANA /DIN 11850 SS PNEUMATIC VALVE /DIN 	SS KLEMPLİ HAF FLİTRESİ SS WITH CLAM LINE FILTER 
SS HORTUM REKORU SS HOSE UNİON 	SS KEP DIN 11850 SS CAP DIN 11850 	SS YAKA DIN 11850 SS COLAR DIN 11850 	SS HİJYENİK FLANŞ SS HYGIENIC FOOD FLANGE 
SS DİŞLİ YIKAMA TOPU GEAR WASHING BALL 	SS MENHOL KAPAK SS MANHOLE COVER 	SS MENHOL KAPAK SS MANHOLE COVER 	SS MENHOL KAPAK SS MANHOLE COVER 
ÇİF FİLTRES SİSTEMİ SS DOUBLE FILTER SYSTEM 	SS STUBENT YAKA SS STUBENT COLAR 	SS KURUVA KLEMPLİ TEE SS CLAMP CORSS TEE 	SS KLEMPLİ EKSAN.RED /DIN SS WITH CLAMP ECC RED. /DIN 
SS KLEMPLİ KON.RED /DIN SS WITH CLAMP CON.RED /DIN 	SS KLEMPLİ TEE /DIN SS WITH CLAMP TEE /DIN 	SS KLEMPLİ DİRSEK /DIN SS WITH CLAMP ELBOW /DIN 	SS KLEMPLİ KELEBEK.VANA SS WITH CLAMP VALVE /DIN 
SS KLEMPLİ BORU TİP CAM DIN SS WITH CLAMP PİPE TYPE GLASS DIN 	SS REKOR TİPİ GÖZETLEME CAMI LINE TYPE SIGHT GLASS 	SS KLEMPLİ GÖZETLEME CAMI SS WITH CLAMP SIGHT GLASS 	SS IŞIKLI GÖZETLEME CAMI SS LIGHTED SIGHT GLASS 

Paslanmaz Çelik Fıtıings Görselleri
Stanless Steel Fııtngs Product Images

SS DİYAFRAM VANA /DIN 11850 SS DIAPHRAGM VALVE /DIN 11850 	SS KAYNAKLI DİYAFRAM VANA SS WELDİNG DIAPHRAGM VALVE 	SS AKTUATÖRLÜ DİYAFRAM VANA SS ACTUATOR DIAPHRAGM VALVE 	SS KLEMPLİ DİYAFRAM VANA SS WITH CLAMP DIAPHRAGM VALVE 
SS KLEMPLİ ÇEKVALF / DIN SS WITH CLAMP CHECK VALVE 	SS DEBİ AYAR VANASI SS FLOW ADJUSTMENT VALVE 	SS KLEMPLİ BAĞLANTILL KÜRSEL VANA SS WITH CLAMP BALL VALVE 	SS KLEMPLİ 3 BAĞLANTILL KÜRSEL VANA SS WITH 3 CLAMP BALL VALVE 
SS KLEMPLİ VE KANAKLI KÜRSEL VANA SS CLAMP AND GROOVE BALL VALVE 	SS KLEMPLİ VE KELEPÇELİ KÜRSEL VANA SS CLAMP AND CLAMPED BALL VALVE 	SS KLEMPLİ YIKAMA TOPU SS WITH CLAMP WASHING BALL 	SS VAKUM VANASI SS VACUUM VALVE 
SS ÇİFT YATAKLI VANA SS DOUBLE SEAT VALVE 	SS KELEPÇELİ ÇEKVALF SS CLAMP CHECK VALVE 	SS FLANŞLI ÇEKVALF SS FLANGED CHECK VALVE 	SS DİSK ÇEKVALF SS DİSCK CHECK VALVE 
SS EMNİYET BASINÇ TAHLİYE VANASI SS SAFETY PRESSURE RELIEF VALVE 	SS KLEMPLİ PNÖMATİK EMNİYET VALFİ SS WITH CLAMP PNEUMATIC SS SAFETY VALVE 	SS MANOMETRE SSMANO METER 	SS TERMO METRE/ MANOMETRE REKORU SSS THERMO METER /MANOMETER RECORD 
SS KONİK DİŞLİ TEE PARÇASI SS CONICAL GEAR TEE PART 	SS REKOR DİŞLİ DİRSEK PARÇASI SS RECORD GEAR ELBOW PART 	SS KONİK DİŞLİ DİRSEK PARÇASI SS CONICAL GEAR ELBOW PART 	SS REKOR DİŞLİ KELEBEK VANA SS UNİON THREADED BUTTERFLY VALVE 
SS AYARLI HORTUM KELEPÇE SS ADJUSTABLE HOSE HANGER 	SS U-BOLT KELEPÇE TAKIMI SS U-BOLT CLAMP KIT 	SS BORU SIKMA KELEPÇE APARARI SS PIPE TIGHTENING CLAMP APPARATUS 	SS MİL SAPLI KELEPÇE SS PIPE CLAMP WITH SHAFT HANDLE 
SS KAYNAKLI NUMUNE ALMA VANASI SS WELDED SAMPLING VALVE 	SS KLEPLİ NUMUNE ALMA VANASI SS WITH CLAMP SAMPLING VALVE 	SS TEK YATAKLI NUMUNE ALMA VANASI SINGLE SEAT SAMPLING VALVE 	SS ASEPTİK NUMUNE ALMA VANASI SS ASEPTIC SAMPLING VALVE 
SS ASEPTİK NUMUNE ALMA VANALAR SS ASEPTIC SAMPLING VALVE 		SS MANO METRE SİFONU SS MANOMETER SIPHONE 	SS FLANŞLI GÖZETLEME CAMI SS FLANGED SIGHT GLASS 

Paslanmaz Çelik Fıtıings Görselleri
Stanless Steel Fııtngs Product Images

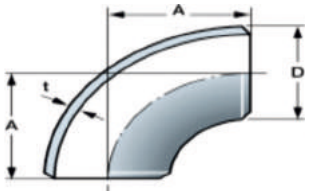
SS 6 KÖŞE DİŞLİ KÖR TAPA SS THREADED HEX HEAD PULGS 	SS DİŞLİ RED.TEE SS THREADED REDÜCİNG TEE 	SS ISO REKOR SS ISO UNİONS 	SS DİŞLİ REDÜKSİYON MANŞON SS THREADED REDÜCİNG COUPLİNGS 	SS DİŞLİ REDKÜKSİYON NİPEL SS THREADED REDUCİNG NİPPLE 
SS DİŞLİ İĞNELİ VANA 6000 psi SS THREADED NEEDLE VALVE 6000 psi 	SSMini Dişli Küresel Vana SS Mini g Thereaded Ball Valves 	SS Y TİPİ FLANŞLI PİSLİK TUTUCU SS Y TYPE FLANGE STRAINER 	SS FLANŞLI YAYLI ÇEKVALF SS FLANGED SPRING CHECK VALVE 	SS DİŞLİ ÇALPARA ÇEKVALF SS THREADED SWİNG CHECK VALVE 
SS DİŞLİ Y TİPİ YAYLI ÇEKVALF SS THREADED Y TYPE SPRING SS CHECK VALVE 	SS DİŞLİ DİK YAYLI ÇEKVALF SS THREADED STEEP CHECK VALVE 	SS Disco Çekva SS Disc Check Valve 	SS Wafer Tip Çalpara Çekvalf SS Wafer Type Swıng Check Valve 	SS 2 Parçalı Tam Geçişli 1000 SS Wog Dişli Küresel Vana SS 2 Pcs Full Port 1000 Wog SS Thereaded Welded Ball Valves 
SS 3 Yollu T L Tipi Tam Geçişli 1000 SS Wog Dişli Küresel Vana SS 3 Way T-L Full Port 1000 SS Wog Thereaded Ball Valves 	SS 3 Parçalı Tepe Flanşlı SS Dişli Küresel Vana SS 3 Pcs Full Flange Thereaded SS Welded Ball Valves 	SS 3 Parçalı Dişli Küresel Vana SS 3 Pcs Full SS Thereaded Welded Ball Valves 	SS 2 par Tam Geçişli Akt.Bağı SS Te Dişli Küres SS 2 Pcs Full Port Act.Conç SS Thereaded Welded Ball Valves 	SS 3 Parçalı Tam Geçişli Pn40 SS Flanşlı Küresel Vana SS 3 Pcs Full Port Pn40, SS Flanges Ball Valves 
SS Pn16 Monblok Flanşlı Küresel Vana SS Pn16 Monblock Flanged Ball Valve 	SS WAFER KELEBEK VANA SS WAFER BUTTERFLY VALVE 	SS DİŞLİ KUTULU KELEBEK VANA SS THREADED BUTTERFLY VALVE 	SS 2 Parçalı Tam Geçişli Pn16 SS Flanşlı Küresel Vana SS 2 Pcs Full Port Pn16, SS Flanges Ball Valves 	SS 3 Parçalı Tam Geçişli Pn40 SS Flanşlı Küresel Vana SS 3 Pcs Full Port Pn40, SS Flanges Ball Valves 
SS EŞİT TEE SS EQULA TEE 	SS KONS.RED SS CONS RED 	SS EKSAN.RED SS ECC RED 	SS RED.TEE SS REDÜC.TEE 	SS KEP SS CAP 
SS A TİPİ KAMLOK SS A TYPE CAMLOCK 	SS B TİPİ KAMLOK SS B TYPE CAMLOCK 	SS C TİP KAMLOK SS C TYPE CAMLOCK 	SS D TİPİ KAMLO SS D TYPE CAMLOCK 	SS E TİPİ KAMLOK SS E TYPE CAMLOCK 
SS DP TİPİ KAMLOK SS DP TYPE CAMLOCK 	SS DC TİPİ KAMLOK SS DC TYPE CAMLOCK 	SS PNÖMATİH HİDROLİK FİTTİNGS /PNEUMATIC HYDRAULIC FITTINGS 		

Paslanmaz Çelik Fıtıings Görselleri
Stanless Steel Fıitngs Product Images

SS KÖR FLNAŞ SS BLIND FLANGE 	SS KAYNAK BOYUNLU FLANŞ SS WELD NECK FLANGE 	SS SLİP-ON FLANŞ, SS SLİP-ON FLANGE 	SS SOKETLİ FLANŞ SS SW FLNAGE 	SS BASKILI FLANŞ SS PRINTED FLANGE 
SS SOKET SW 45º DİRSEK SS SOCKET 45º ELBOW 	SS SOKET SW EŞİT TEE SS SOCKET İNEGAL TEE 	SS SOKET SW KURUVA TEE SS SOCKET CROS TEE 	SS SOKET SW KONİK REKOR SS SOCKET UNİON 	SS SOKET SW KEP SS SOCKET CAP 
SS SOKET SW YARIM MANŞON SS SOCKET HALF COPLİNG 	SS SEA KAYNAKLI FLANŞ SS SEA WELDED FLANGE 	SS SEA SOKET KAYNAKLI FLANŞ SS SEA SOCKET WELDED FLANGE 	SS SEA KÖR FLANŞ SS SEA BLIND FLANGE 	SS SEA SOKET KAYNAKLI DUBLE FLANŞ SS SEA SOCKET WELDED DOUBLE FLANGE 
SS NPT DİŞLİ 45º DİRSEK SS NPT THREADED 45º 	SS NPT DİŞLİ EŞİT TEE SS NPT THREADED İNEGAL TEE 	SS NPT DİŞLİ KURUVA TEE SS NPT THREADED CROS 	SS NPT DİŞLİ HEX NİPEL SS NPT THREADED HEX NIPPLE 	SS NPT DİŞLİ REDÜKSİYON SS NPT THREADED REDUCTION 
SS NPT DİŞLİ KUYRUKLU REKOR 	SS NPT DİŞLİ KÖR TAPA SS NPT THREADED BLIND PLUG 	SS NPT DİŞLİ REDÜKSİYON.NİPE SS NPT THREADED REDUCTION.NIPPLE 	SS NPT DİŞLİ MANŞON SS NPT THREADED COPLİNG 	SS NPT DİŞLİ BORU NİPEL SS NPT THREADED PIPE NIPPLE 
SS DİŞLİ TEE SS THREADED TEE 	SS DİŞLİ KONİK REKOR SS THREADED CONİCAL UNİON 	SS KAYNAKLI KONİK REKOR SS WELDED CONİCAL UNİON 	SS DİŞLİ MANŞON SS THREADED COUPLİNG 	SS DİŞLİ HEX NİPEL SS THREADED HEX NIPPLE 
SS DİŞLİ KUYRUKLU DİRSEK SS THREADED STREET ELBOW 	SS DİŞLİ KUYRUKLU KONİK REKOR SS THREADED CONİCAL UNİONS WİTH 	SS DİŞLİ HORTUM NİPELİ SS THREADED HOSE NİPPLE 	SS DİŞLİ EŞİT KURUVA SS THREADED EQUAL CROSES TEE 	SS DİŞLİ ÇİFT TARAFLI NİPEL SS THREADED BARREL NİPPLE 

90° DİKİŞSİZ DİKİŞLİ DİRSEK UZUN RADYUS = 3D
90° SEAMLESS WELDED ELBOW LONG RADIUS = 3D
Standartlar / Standards ASTM A403-EN 10253-4-ISO 5251



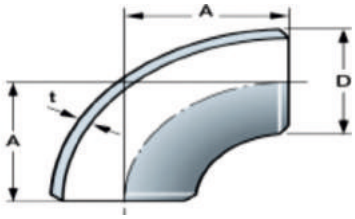


Dış Çap.	Eksen.	Et Kalınlığı/Wall Thickness (T)					
Outside diameter D – mm	Center-to-end A-mm	SCH 5s	SCH 10s	SCH 40s	SCH 80s	SCH 160s	SCHXSS
13,70	38,00	1,25	1,65	2,23	3,02	4,11	5,41
17,15	38,00	1,32	1,65	2,30	3,23	4,28	6,30
21,30	38,00	1,65	2,11	2,77	3,73	4,78	7,46
26,90	38,00	1,65	2,11	2,87	3,91	5,56	7,82
33,70	38,00	1,65	2,11	3,38	4,55	6,35	9,03
42,40	48,00	1,65	2,77	3,56	4,85	6,35	9,71
48,30	57,00	1,65	2,77	3,68	5,08	7,14	10,17
60,30	76,00	2,11	2,77	3,91	5,54	8,74	11,07
76,10	95,00	2,11	3,05	5,16	7,01	9,53	14,21
88,90	114,00	2,11	3,05	5,49	7,62	11,13	15,54
101,60	130,00	2,11	3,05	5,74	8,08	12,50	16,15
114,30	152,00	3,05	3,05	6,02	8,56	13,40	17,70
139,70	190,00	2,77	3,40	6,55	9,53	15,88	19,05
168,30	229,00	2,77	3,40	7,11	10,97	18,26	21,94
219,10	305,00	2,77	3,76	8,18	12,70	23,00	25,40
273,00	381,00	3,40	4,19	9,27	12,70		
323,90	457,00	3,96	4,57	9,53	12,70		
355,60	533,00	3,96	4,78	9,54	12,70		
406,40	610,00	4,19	4,78	9,54	12,70		
457,40	686,00	4,19	4,77	9,54	12,70		
508,40	762,00	4,78	5,53	9,54	12,70		
559,10	838,00	4,78	5,53	9,54	12,70		
609,60	914,00	5,54	6,35	9,54	12,70		
660,50	990,00	5,54	6,35	9,54	12,70		
711,20	1067,00	6,36	7,92	9,54	12,70		
762,00	1143,00	6,36	7,92	9,54	12,70		
812,80	1219,00		7,92	9,54	12,70		
863,60	1295,00		7,92	9,54	12,70		
914,40	1372,00		7,92	9,54	12,70		
965,10	1448,00			9,54	12,70		
1016,00	1524,00				12,70		
1066,00	1600,00				12,70		
1118,00	1676,00				12,70		
1169,00	1752,00				12,70		
1219,30	1828,00				12,70		

Boru Çapı.	Ağırlık/Weight-(Kg)					
Nominal Pipe Size	SCH 5s	SCH 10s	SCH 40s	SCH 80s	SCH 160s	SCHXSS
1/4"	0,03	0,04	0,53	0,67	0,90	-
3/8"	0,04	0,05	0,64	0,87	0,10	-
1/2"	0,05	0,06	0,78	0,10	0,12	0,24
3/4"	0,06	0,08	0,10	0,10	0,15	2,90
1"	0,08	0,13	0,15	0,20	0,27	0,41
1 1/4"	0,13	0,21	0,26	0,35	0,44	0,60
1 1/2"	0,17	0,28	0,37	0,51	0,68	0,95
2"	0,29	0,48	0,66	0,94	1,40	1,97
2 1/2"	0,58	0,81	1,37	1,79	2,34	3,45
3"	0,81	1,14	2,04	2,87	4,00	5,35
3 1/2"	1,08	1,53	2,82	4,10	6,87	8,84
4"	1,38	1,97	2,84	5,62	8,40	12,22
5"	2,83	3,43	6,50	9,69	15,52	22,80
6"	4,06	4,80	10,00	16,00	25,46	29,81
8"	7,01	10,00	20,00	32,20	56,00	68,00
10"	13,20	15,60	36,00	50,00		-
12"	22,30	26,00	56,00	72,50		-
14"	29,20	34,50	66,40	85,30		-
16"	40,40	45,20	87,12	112,60		-
18"	51,20	57,30	110,67	143,00		-
20"	72,00	82,00	137,00	177,00		-
22"	90,50	100,00	163,00	210,00		-
24"	127,00	136,00	198,00	256,00		-
26"	157,00	205,00	229,17	297,00		-
28"	183,00	238,00	267,00	345,00		-
30"	240,00	265,00	307,00	396,00		-
32"	268,00	300,00	350,00	452,00		-
34"	302,00	355,00	395,00	512,00		-
36"	341,00	390,00	443,00	575,00		-
38"	373,00	412,80	497,00	645,00		-
40"	402,00	443,00	552,00	715,00		-
42"		498,00	606,00	785,00		-
44"		612,00	670,00	868,00		-
46"		652,00	732,00	949,00		-
48"		691,000	798,000	1035,000		-

90° DİKİŞLİ DİRSEK UZUN RADYUS = 3D
90° WELDED ELBOW LONG RADIUS = 3D
Standartlar / Standards EN 10253-4-ISO 5251

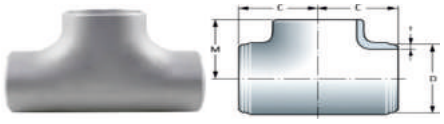




Boru Çapı İnç. Nominal Pipe Size Inch	Dış çap mm Outside diameter D – mm	Eksen Center-to-end A-mm	Kalınlık thickness T1 (mm)	Kalınlık thickness T2 (mm)	Kalınlık thickness T3 (mm)
13,50	13,50	20	2,00	3,00	4,00
17,20	17,20	25	2,00	3,00	4,00
21,30	21,30	28	2,00	3,00	4,00
26,90	26,90	29	2,00	3,00	4,00
33,70	33,70	38	2,00	3,00	4,00
42,40	42,40	48	2,00	3,00	4,00
48,30	48,30	57	2,00	3,00	4,00
60,30	60,30	76	2,00	3,00	4,00
76,10	76,10	95	2,00	3,00	4,00
88,90	88,90	114	2,00	3,00	4,00
114,30	114,30	155	2,00	3,00	4,00
139,70	139,70	190	2,00	3,00	4,00
168,30	168,30	229	2,00	3,00	4,00
219,10	219,10	305	2,00	3,00	4,00
273,00	273,00	381	2,00	3,00	4,00
323,90	323,90	457	2,00	3,00	4,00
355,60	355,60	533	2,00	3,00	4,00
406,40	406,40	610	2,00	3,00	4,00
457,40	457,40	686	2,00	3,00	4,00
508,40	508,40	762	2,00	3,00	4,00
609,60	609,60	914	2,00	3,00	4,00
711,20	711,20	1067	2,00	3,00	4,00
812,80	812,80	1219	2,00	3,00	4,00
914,40	914,40	1372	2,00	3,00	4,00
1016,00	1016,00	1524	2,00	3,00	4,00

Boru Çapı İnç. Nominal Pipe Size Inch	Ağırlık /Weight Kg		
	T-1	T-2	T-3
1/4"	0,020	0,030	
3/8"	0,030	0,042	
1/2"	0,057	0,065	
3/4"	0,054	0,087	
1"	0,093	0,135	
1 1/4"	0,147	0,235	
1 1/2"	0,204	0,320	
2"	0,342	0,551	0,697
2 1/2"	0,557	0,812	1,251
3"	0,768	1,140	1,470
4"	1,322	1,970	2,689
5"	2,070	3,090	3,620
6"	3,090	4,560	5,220
8"	5,200	8,700	11,090
10"	8,160	12,200	16,000
12"	11,600	17,400	23,090
14"		22,300	32,000
16"		29,000	39,000
18"		37,000	46,000
20"		45,000	60,000
24"		65,000	86,000
28"		119,000	149,000
32"		156,000	149,000
36"			294,00
40"			365,00

DİKİŞLİ -DİKİŞSİZ EŞİT TEE
WELDED SEAMLESS EQUAL TEE
Standartlar /Standards EN 10253-4-ASTM A403



Boru Çapı. Nominal Pipe Size	Dış Çap. Outside diameter D – mm	Eksen. Center to-end C-M mm	Et Kalınlığı/Wall Thickness (T) SCH 5s	SCH 10s	SCH 40s	SCH 80s	SCH 160s
1/4"	13,70	20 /20	1,25	1,65	2,23	3,02	4,11
3/8"	17,15	22 /22	1,32	1,65	2,30	3,23	4,28
1/2"	21,30	25 /25	1,65	2,11	2,77	3,73	4,78
3/4"	26,90	29 /29	1,65	2,11	2,87	3,91	5,56
1"	33,70	38 /38	1,65	2,11	3,38	4,55	6,35
1 1/4"	42,40	48 /48	1,65	2,77	3,56	4,85	6,35
1 1/2"	48,30	57 /57	1,65	2,77	3,68	5,08	7,14
2"	60,30	64 /64	2,11	2,77	3,91	5,54	8,74
2 1/2"	76,10	76 /76	2,11	3,05	5,16	7,01	9,53
3"	88,90	86 /86	2,11	3,05	5,49	7,62	11,13
3 1/2"	101,60	95 /95	2,11	3,05	5,49	7,62	11,13
4"	114,30	105 /105	3,05	3,05	6,02	8,56	13,40
5"	139,70	124 /124	2,77	3,40	6,55	9,53	15,88
6"	168,30	143 /143	2,77	3,40	7,11	10,97	18,26
8"	219,10	188 /178	2,77	3,76	8,18	12,70	23,00
10"	273,00	216 /216		4,19	9,27	12,70	
12"	323,90	254 /254		4,57	9,53	12,70	
14"	355,60	279 /279		4,78	9,54	12,70	
16"	406,40	305 /305		4,78	9,54	12,70	
18"	457,00	343 /343		4,78	9,54	12,70	
20"	508,00	381 /381		4,78	9,54	12,70	
22"	559,00	411 /419		4,78	9,54	12,70	
24"	610,00	432 /432		4,78	9,54	12,70	

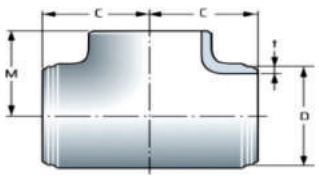
Boru Çapı. Nominal Pipe Size	Et Kalınlığı/Wall Thickness (T) SCH 5s	SCH 10s	SCH 40s	SCH 80s	SCH 160s
1/4"	0,03	0,05	0,06	0,08	0,12
3/8"	0,04	0,06	0,07	0,10	0,13
1/2"	0,06	0,07	0,08	0,11	0,15
3/4"	0,07	0,09	0,11	0,16	0,30
1"	0,16	0,20	0,24	0,32	0,47
1 1/4"	0,23	0,33	0,41	0,54	0,96
1 1/2"	0,31	0,45	0,60	0,80	1,21
2"	0,47	0,63	0,87	1,20	3,18
2 1/2"	0,78	1,01	1,66	2,19	3,42
3"	0,94	1,38	1,90	3,25	6,58
3 1/2"	1,13	1,68	2,58	4,38	7,41
4"	1,55	2,15	4,13	5,74	15,53
5"	3,09	3,48	6,55	9,31	23,93
6"	3,89	4,77	9,80	12,90	39,00
8"	7,21	8,87	18,00	27,40	71,00
10"		14,20	31,00	42,00	
12"		21,60	44,00	58,40	
14"		27,00	54,00	71,00	
16"		34,00	66,00	88,00	
18"		47,00	84,00	111,00	
20"		61,00	104,00	138,00	
22"		74,00	126,00	167,00	
24"		94,00	140,00	185,00	

DİKİŞLİ EŞİT TEE
WELDED EQUAL TEE
Standartlar /Standards EN 10253-4-ASTM A403

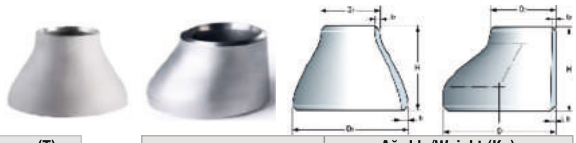
Boru Çapı. Nominal Pipe Size	Dış Çap. Outside diameter D – mm	Eksen. Center to-end C-M mm	Et Kalınlığı/Wall Thickness (T) (2mm)	SCH 10s
1/2"	21,30	25 /25	2,00	2,11
3/4"	26,90	29 /29	2,00	2,11
1"	33,70	38 /38	2,00	2,11
1 1/4"	42,40	48 /48	2,00	2,77
1 1/2"	48,30	57 /57	2,00	2,77
2"	60,30	64 /64	2,00	2,77
2 1/2"	76,10	76 /76	2,00	3,05
3"	88,90	86 /86	2,00	3,05
4"	114,30	105 /105	2,00	3,05
5"	139,70	124 /124	2,00	3,40
6"	168,30	143 /143	2,00	3,40
8"	219,10	188 /178	2,00	3,76
10"	273,00	216 /216	2,00	4,19
12"	323,90	254 /254	2,00	4,57

Boru Çapı. Nominal Pipe Size	Ağırlık/Weight-(Kg) (2mm)	SCH 10s
1/2"	0,65	0,07
3/4"	0,08	0,09
1"	0,17	0,20
1 1/4"	0,28	0,33
1 1/2"	0,38	0,45
2"	0,49	0,63
2 1/2"	0,89	1,01
3"	1,10	1,38
4"	1,70	2,15
5"	2,68	3,48
6"	3,65	4,77
8"	5,38	8,87
10"	7,18	14,20
12"	11,32	21,60





DİKİŞLİ-DİKİŞSİZ KONSANTRİK VE EKSANTRİK REDÜKSİYON
WELDED-SEAMLESS CONCENTRIC AND ECCENTRIC REDUCTION
Standartlar / Standards ASTM A403

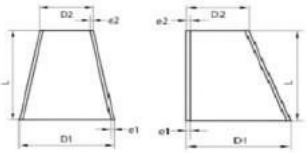


Monimal Çap inç			Dış Çap mm		Uzunluk	Et kalınlık-Wall Thickness (T)				Et kalınlık-Wall Thickness (T)			
			(D1)	(D2)		SCH 5s		SCH 10s		SCH 40s		SCH 80s	
Pipe size Inch			Outer diameter		Length (L)	(T1)	(T2)	(T1)	(T2)	(T1)	(T2)	(T1)	(T2)
3/4"	x	1/2"	26,90	21,30	38	1,65	1,65	2,11	2,11	2,87	2,77	3,91	3,73
1"	x	3/4"	33,70	26,90	51	1,65	1,65	2,77	2,11	3,38	2,87	4,55	3,91
1"	x	1/2"	33,70	21,30	51	1,65	1,65	2,77	2,11	3,38	2,77	4,55	3,73
1 1/4"	x	1/2"	42,40	21,30	51	1,65	1,65	2,77	2,11	3,56	2,77	4,85	3,73
1 1/4"	x	3/4"	42,40	26,90	51	1,65	1,65	2,77	2,11	3,56	2,87	4,85	3,91
1 1/4"	x	1"	42,40	33,70	51	1,65	1,65	2,77	2,77	3,56	3,38	4,85	4,55
1 1/2"	x	1/2"	48,30	21,30	64	1,65	1,65	2,77	2,11	3,68	2,77	5,08	3,73
1 1/2"	x	3/4"	48,30	26,90	64	1,65	1,65	2,77	2,11	3,68	2,87	5,08	3,91
1 1/2"	x	1"	48,30	33,70	64	1,65	1,65	2,77	2,77	3,68	3,38	5,08	4,55
1 1/2"	x	1 1/4"	48,30	42,40	64	1,65	1,65	2,77	2,77	3,68	3,56	5,08	4,85
2"	x	1/2"	60,30	21,30	76	1,65	1,65	2,77	2,11	3,91	2,77	5,55	3,73
2"	x	3/4"	60,30	26,90	76	1,65	1,65	2,77	2,11	3,91	2,87	5,55	3,91
2"	x	1"	60,30	33,70	76	1,65	1,65	2,77	2,77	3,91	3,38	5,55	4,55
2"	x	1 1/4"	60,30	42,40	76	1,65	1,65	2,77	2,77	3,91	3,56	5,55	4,85
2"	x	1 1/2"	60,30	48,30	76	1,65	1,65	2,77	2,77	3,91	3,68	5,55	5,08
2 1/2"	x	1"	76,10	33,70	89	2,11	2,11	3,05	3,05	5,16	3,38	7,62	4,55
2 1/2"	x	1 1/4"	76,10	42,40	89	2,11	2,11	3,05	3,05	5,16	3,56	7,62	4,85
2 1/2"	x	1 1/2"	76,10	48,30	89	2,11	2,11	3,05	3,05	5,16	3,68	7,62	5,08
2 1/2"	x	2"	76,10	60,30	89	2,11	2,11	3,05	3,05	5,16	3,91	7,62	5,54
3"	x	2 1/2"	88,90	76,10	89	2,11	2,11	3,05	3,05	5,49	5,16	7,62	7,01
3"	x	2"	88,90	60,30	89	2,11	2,11	3,05	3,05	5,49	3,91	7,62	5,54
3"	x	1 1/2"	88,90	48,30	89	2,11	2,11	3,05	3,05	5,49	3,68	7,62	5,08
3"	x	1 1/4"	88,90	42,40	89	2,11	2,11	3,05	3,05	5,49	3,56	7,62	4,85
3"	x	1"	88,90	33,70	89	2,11	2,11	3,05	3,05	5,49	3,38	7,62	4,55
4"	x	3"	114,30	88,90	102	2,11	2,11	3,05	3,05	6,02	5,49	8,56	7,62
4"	x	2 1/2"	114,30	76,10	102	2,11	2,11	3,05	3,05	6,02	5,16	8,56	7,01
4"	x	2"	114,30	6*,3	102	2,11	2,11	3,05	3,05	6,02	3,91	8,56	5,54
4"	x	1 1/2"	114,30	48,30	102	2,11	2,11	3,05	3,05	6,02	3,68	8,56	5,08
4"	x	1 1/4"	114,30	42,40	102	2,11	2,11	3,05	3,05	6,02	3,56	8,56	4,85
5"	x	4"	141,30	114,30	127	2,77	2,77	3,40	3,40	6,55	6,02	9,53	8,56
5"	x	3"	141,30	88,90	127	2,77	2,77	3,40	3,40	6,55	5,49	9,53	7,62
5"	x	2 1/2"	141,30	76,10	127	2,77	2,77	3,40	3,40	6,55	5,16	9,53	7,01
5"	x	2"	141,30	60,30	127	2,77	2,77	3,40	3,40	6,55	3,91	9,53	5,54
6"	x	5"	168,30	141,30	140	2,77	2,77	3,40	3,40	7,11	6,55	10,97	9,53
6"	x	4"	168,30	114,30	140	2,77	2,77	3,40	3,05	7,11	6,02	10,97	8,56
6"	x	3"	168,30	88,90	140	2,77	2,77	3,40	3,05	7,11	5,49	10,97	7,62
6"	x	2 1/2"	168,30	76,10	140	2,77	2,77	3,40	3,05	7,11	5,16	10,97	7,01
8"	x	6"	219,10	168,30	152	2,77	2,77	3,76	3,40	8,18	7,11	12,70	10,97
8"	x	5"	219,10	141,30	152	2,77	2,77	3,76	3,40	8,18	6,55	12,70	9,53
8"	x	4"	219,10	114,30	152	2,77	2,77	3,76	3,05	8,18	6,02	12,70	8,56
8"	x	3"	219,10	88,90	152	2,77	2,77	3,76	3,05	8,18	5,49	12,70	7,62
10"	x	8"	273,00	219,10	178	3,40	2,77	4,19	3,40	9,27	8,18	12,70	12,70
10"	x	6"	273,00	168,30	178	3,40	2,77	4,19	3,40	9,27	7,11	12,70	12,70
10"	x	5"	273,00	141,30	178	3,40	2,77	4,19	3,40	9,27	6,55	12,70	12,70
10"	x	4"	273,00	114,30	178	3,40	2,77	4,19	3,05	9,27	6,02	12,70	12,70
12"	x	10"	323,90	273,00	203	3,96	3,40	4,57	4,19	9,53	9,27	12,70	12,70
12"	x	8"	323,90	219,10	203	3,96	2,77	4,57	3,76	9,53	8,18	12,70	12,70
12"	x	6"	323,90	168,30	203	3,96	2,77	4,57	3,40	9,53	7,11	12,70	12,70
12"	x	5"	323,90	141,30	203	3,96	2,77	4,57	3,40	9,53	6,55	12,70	12,70
14"	x	12"	355,60	323,90	330	3,96	3,40	4,78	4,57	9,53	9,53	12,70	12,70
14"	x	10"	355,60	273,00	330	3,96	3,40	4,78	4,19	9,53	9,27	12,70	12,70
14"	x	8"	355,60	219,10	330	3,96	2,77	4,78	3,76	9,53	8,18	12,70	12,70
14"	x	6"	355,60	168,30	330	3,96	2,77	4,78	3,40	9,53	7,11	12,70	12,70
16"	x	14"	406,00	356,00	356	4,19	3,40	4,78	4,78	9,53	9,57	12,70	12,70
16"	x	12"	406,00	324,00	356	4,19	3,40	4,78	4,57	9,53	9,57	12,70	12,70
16"	x	10"	406,00	219,00	356	4,19	2,77	4,19	4,19	9,27	9,27	12,70	12,70
16"	x	8"	406,40	219,10	356	4,19	2,77	4,78	3,76	9,53	8,18	12,70	12,70
18"	x	10"	457,00	273,00	381	4,19	2,77	4,78	4,19	9,53	9,27	12,70	12,70
18"	x	12"	457,00	323,90	381	4,19	3,40	4,78	4,57	9,53	9,52	12,70	12,70
18"	x	14"	457,00	355,60	381	4,19	3,40	4,78	4,78	9,53	9,53	12,70	12,70
18"	x	16"	457,00	406,40	381	4,19	3,40	4,78	4,78	9,53	9,53	12,70	12,70
20"	x	18"	508,00	457,00	508	4,78	4,19	5,54	4,78	9,53	9,53	12,70	12,70
20"	x	16"	508,00	406,00	508	4,78	3,40	5,54	4,78	9,53	9,53	12,70	12,70
20"	x	14"	508,00	356,00	508	4,78	3,40	5,54	4,78	9,53	9,53	12,70	12,70
20"	x	12"	508,00	323,90	508	4,78	3,40	5,54	4,57	9,53	9,53	12,70	12,70
22"	x	20"	559,00	508,00	508	4,78	4,78	5,54	5,54	9,53	9,53	12,70	12,70
22"	x	18"	559,00	457,00	508	4,78	4,78	5,54	5,54	9,53	9,53	12,70	12,70
22"	x	16"	559,00	406,00	508	4,78	4,19	5,54	4,78	9,53	9,53	12,70	12,70
22"	x	14"	559,00	356,00	508	4,78	3,40	5,54	4,57	9,53	9,53	12,70	12,70
24"	x	22"	610,00	559,00	508	5,54	4,78	6,35	5,54	9,53	9,53	12,70	12,70
24"	x	20"	610,00	508,00	508	5,54	4,78	6,35	5,54	9,53	9,53	12,70	12,70
24"	x	18"	610,00	457,00	508	5,54	4,19	6,35	4,78	9,53	9,53	12,70	12,70
24"	x	16"	610,00	406,00	508	5,54	3,40	6,35	4,78	9,53	9,53	12,70	12,70
24"	x	14"	610,00	355,60	508	5,54	3,40	6,35	4,78	9,53	9,53	12,7	12,7

Monimal Çap inç			Ağırlık /Weight (Kg)			
Pipe size Inch			SCH 5s	SCH 10	SCH 40s	SCH 10s
3/4"	x	1/2"	0,014	0,09	0,11	0,16
1"	x	3/4"	0,280	0,09	0,11	0,16
1"	x	1/2"	0,030	0,10	0,12	0,17
1 1/4"	x	1/2"	0,050	0,13	0,16	0,25
1 1/4"	x	3/4"	0,049	0,15	0,20	0,28
1 1/4"	x	1"	0,035	0,17	0,22	0,31
1 1/2"	x	1/2"	0,068	0,15	1,20	0,28
1 1/2"	x	3/4"	0,053	0,16	0,20	0,29
1 1/2"	x	1"	0,050	0,17	0,22	0,31
1 1/2"	x	1 1/4"	0,045	0,20	0,26	0,33
2"	x	1/2"	0,114	0,21	0,30	0,46
2"	x	3/4"	0,091	0,21	0,29	0,46
2"	x	1"	0,081	0,24	0,32	0,46
2"	x	1 1/4"	0,068	0,26	0,35	0,53
2"	x	1 1/2"	0,068	0,27	0,37	0,54
2 1/2"	x	1"	0,091	0,35	0,79	0,94
2 1/2"	x	1 1/4"	0,065	0,349	0,67	0,85
2 1/2"	x	1 1/2"	0,060	0,396	0,66	0,86
2 1/2"	x	2"	0,060	0,432	0,72	0,94
3"	x	2 1/2"	0,135	0,548	0,78	1,29
3"	x	2"	0,135	0,478	0,78	1,18
3"	x	1 1/2"	0,200	0,444	0,85	1,11
3"	x	1 1/4"	0,200	0,430	0,78	1,04
3"	x	1"	0,223	0,408	0,72	0,89
4"	x	3"	0,20	0,75	1,45	2,13
4"	x	2 1/2"	0,20	0,71	1,32	2,01
4"	x	2"	0,24	0,66	1,27	1,73
4"	x	1 1/2"	0,24	0,63	1,24	1,73
4"	x	1 1/4"	0,25	0,63	1,24	1,73
5"	x	4"	0,30	1,32	2,50	3,78
5"	x	3"	0,35	1,20	2,23	3,55
5"	x	2 1/2"	0,36	1,12	2,11	3,45
5"	x	2"	0,38	1,12	2,11	3,45
6"	x	5"	0,85	1,75	3,57	5,77
6"	x	4"	0,85	1,62	3,30	4,44
6"	x	3"	0,99	1,50	3,00	5,00
6"	x	2 1/2"	1,02	1,35	2,74	4,51
8"	x	6"	1,37	2,85	5,71	13,00
8"	x	5"	1,55	2,77	5,40	8,88
8"	x	4"	1,80	2,66	5,10	8,43
8"	x	3"	1,92	2,45	4,98	8,00
10"	x	8"	3,20	4,21	9,58	14,22
10"	x	6"	3,20	3,87	8,78	13,50
10"	x	5"	3,20	3,30	8,21	13,00
10"	x	4"	3,20	3,50	8,80	13,00
12"	x	10"	4,60	6,55	14,70	19,50
12"	x	8"	4,60	6,11	13,70	19,07
12"	x	6"	4,25	5,73	12,40	19,00
12"	x	5"	4,25	5,10	11,89	18,27
14"	x	12"	9,50	14,27	28,55	37,90
14"	x	10"	10,00	13,21	26,40	34,30
14"	x	8"	10,00	12,07	23,15	31,44
14"	x	6"	12,00	17,50	35,00	45,00
16"	x	14"	11,90	17,24	34,24	45,00
16"	x	12"	12,00	17,00	33,00	43,00
16"	x	10"	11,00	15,76	31,00	40,00
16"	x	8"	10,00	14,50	28,00	37,00
18"	x	10"	13,50	18,00	35,40	46,00
18"	x	12"	14,00	19,00	38,00	49,00
18"	x	14"	14,80	19,70	40,00	51,00
18"	x	16"	15,00	21,00	42,00	54,00
20"	x	18"	26,00	38,00	63,00	81,00
20"	x	16"	25,00	36,00	59,00	77,00
20"	x	14"	24,30	34,00	55,50	72,00
20"	x	12"	24,00	32,50	54,00	70,00
22"	x	20"	32,00	42,00	69,00	90,00
22"	x	18"	32,50	40,00	66,00	85,00
22"	x	16"	33,00	38,00	62,00	81,00
22"	x	14"	33,00	36,00	59,00	77,00
24"	x	22"	40,00	53,00	76,00	99,00
24"	x	20"	40,00	50,50	73,00	94,00
24"	x	18"	37,00	48,00	69,00	90,00
24"	x	16"	37,00	46,00	65,00	85,00
24"	x	14"	35,00	44,00	62,00	81,00

V TİP DİKİŞLİ KONSANTRİK VE EKSANTRİK REDÜKSİYON
V TYPE WELDED-CONCENTRIC AND ECCENTRIC REDUCTION
Standartlar / Standards -EN 10253-4-





Monimal Çap inç			Dış Çap mm		Uzunluk	Et kalınlık-Wall Thickness (T)	
			(D1)	(D2)	Length (L)	2MM	3MM
Pipe size Inch			Outer diameter			(E-1)	(E-2)
3/4"	x	1/2"	26,90	21,30	38	2,00	3,00
1"	x	3/4"	33,70	26,90	51	2,00	3,00
1"	x	1/2"	33,70	21,30	51	2,00	3,00
1 1/4"	x	1/2"	42,40	21,30	51	2,00	3,00
1 1/4"	x	3/4"	42,40	26,90	51	2,00	3,00
1 1/4"	x	1"	42,40	33,70	51	2,00	3,00
1 1/2"	x	1/2"	48,30	21,30	64	2,00	3,00
1 1/2"	x	3/4"	48,30	26,90	64	2,00	3,00
1 1/2"	x	1"	48,30	33,70	64	2,00	3,00
1 1/2"	x	1 1/4"	48,30	42,40	64	2,00	3,00
2"	x	1/2"	60,30	21,30	76	2,00	3,00
2"	x	3/4"	60,30	26,90	76	2,00	3,00
2"	x	1"	60,30	33,70	76	2,00	3,00
2"	x	1 1/4"	60,30	42,40	76	2,00	3,00
2"	x	1 1/2"	60,30	48,30	76	2,00	3,00
2 1/2"	x	1"	76,10	33,70	89	2,00	3,00
2 1/2"	x	1 1/4"	76,10	42,40	89	2,00	3,00
2 1/2"	x	1 1/2"	76,10	48,30	89	2,00	3,00
2 1/2"	x	2"	76,10	60,30	89	2,00	3,00
3"	x	2 1/2"	88,90	76,10	89	2,00	3,00
3"	x	2"	88,90	60,30	89	2,00	3,00
3"	x	1 1/2"	88,90	48,30	89	2,00	3,00
3"	x	1 1/4"	88,90	42,40	89	2,00	3,00
3"	x	1"	88,90	33,70	89	2,00	3,00
4"	x	3"	114,30	88,90	102	2,00	3,00
4"	x	2 1/2"	114,30	76,10	102	2,00	3,00
4"	x	2"	114,30	6*,3	102	2,00	3,00
4"	x	1 1/2"	114,30	48,30	102	2,00	3,00
4"	x	1 1/4"	114,30	42,40	102	2,00	3,00
5"	x	4"	141,30	114,30	127	2,00	3,00
5"	x	3"	141,30	88,90	127	2,00	3,00
5"	x	2 1/2"	141,30	76,10	127	2,00	3,00
5"	x	2"	141,30	60,30	127	2,00	3,00
6"	x	5"	168,30	141,30	140	2,00	3,00
6"	x	4"	168,30	114,30	140	2,00	3,00
6"	x	3"	168,30	88,90	140	2,00	3,00
6"	x	2 1/2"	168,30	76,10	140	2,00	3,00
8"	x	6"	219,10	168,30	152	2,00	3,00
8"	x	5"	219,10	141,30	152	2,00	3,00
8"	x	4"	219,10	114,30	152	2,00	3,00
8"	x	3"	219,10	88,90	152	2,00	3,00
10"	x	8"	273,00	219,10	178	2,00	3,00
10"	x	6"	273,00	168,30	178	2,00	3,00
10"	x	5"	273,00	141,30	178	2,00	3,00
10"	x	4"	273,00	114,30	178	2,00	3,00
12"	x	10"	323,90	273,00	203	2,00	3,00
12"	x	8"	323,90	219,10	203	2,00	3,00
12"	x	6"	323,90	168,30	203	2,00	3,00
12"	x	5"	323,90	141,30	203	2,00	3,00
14"	x	12"	355,60	323,90	330	2,00	3,00
14"	x	10"	355,60	273,00	330	2,00	3,00
14"	x	8"	355,60	219,10	330	2,00	3,00
14"	x	6"	355,60	168,30	330	2,00	3,00
16"	x	14"	406,00	356,00	356	2,00	3,00
16"	x	12"	406,00	324,00	356	2,00	3,00
16"	x	10"	406,00	219,00	356	2,00	3,00
16"	x	8"	406,40	219,10	356	2,00	3,00

Monimal Çap inç			Ağırlık /Weight (Kg)	
			2MM	3MM
Pipe size Inch			(E-1)	(E-2)
3/4"	x	1/2"	0,014	0,022
1"	x	3/4"	0,020	0,029
1"	x	1/2"	0,200	0,030
1 1/4"	x	1/2"	0,040	0,130
1 1/4"	x	3/4"	0,040	0,130
1 1/4"	x	1"	0,040	0,130
1 1/2"	x	1/2"	0,060	0,156
1 1/2"	x	3/4"	0,060	0,156
1 1/2"	x	1"	0,060	0,156
1 1/2"	x	1 1/4"	0,060	0,156
2"	x	1/2"	0,090	0,250
2"	x	3/4"	0,090	0,250
2"	x	1"	0,090	0,250
2"	x	1 1/4"	0,090	0,250
2"	x	1 1/2"	0,090	0,250
2 1/2"	x	1"	0,130	0,350
2 1/2"	x	1 1/4"	0,130	0,350
2 1/2"	x	1 1/2"	0,130	0,350
2 1/2"	x	2"	0,130	0,350
3"	x	2 1/2"	0,200	0,480
3"	x	2"	0,200	0,480
3"	x	1 1/2"	0,200	0,480
3"	x	1 1/4"	0,200	0,480
3"	x	1"	0,200	0,480
4"	x	3"	0,40	0,70
4"	x	2 1/2"	0,40	0,70
4"	x	2"	0,40	0,70
4"	x	1 1/2"	0,40	0,70
4"	x	1 1/4"	0,40	0,70
5"	x	4"	0,85	1,15
5"	x	3"	0,85	1,15
5"	x	2 1/2"	0,85	1,15
5"	x	2"	0,85	1,15
6"	x	5"	1,05	1,35
6"	x	4"	1,05	1,35
6"	x	3"	1,05	1,35
6"	x	2 1/2"	1,05	1,35
8"	x	6"	1,50	2,10
8"	x	5"	1,50	2,10
8"	x	4"	1,50	2,10
8"	x	3"	1,50	2,10
10"	x	8"	2,45	3,00
10"	x	6"	2,45	3,00
10"	x	5"	2,45	3,00
10"	x	4"	2,45	3,00
12"	x	10"	4,50	5,10
12"	x	8"	4,50	5,10
12"	x	6"	4,50	5,10
12"	x	5"	4,50	5,10
14"	x	12"	6,80	8,50
14"	x	10"	6,80	8,50
14"	x	8"	6,80	8,50
14"	x	6"	6,80	8,50
16"	x	14"	9,50	12,00
16"	x	12"	9,50	12,00
16"	x	10"	9,50	12,00
16"	x	8"	9,50	12,00

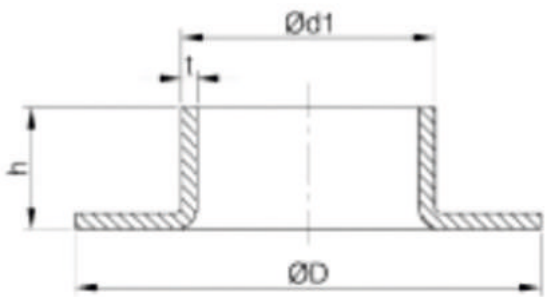
PN10 YAKA
PN10 COLLAR
Standartlar /Standards
ASTM A403-ANSI B16.9 DIN 2642

Dış Çap Pipe Size	Boru Çapı Pipe Diameter	Yaka çapı Collar Diameter	Kalınlık Thickness s	Uzunluk Length L	Dış Çap Pipe Size	Ağırlık Weight (Kg)
DN	d1	QD	t	h	DN	Kg
15	21,30	45	3	9	15	0,020
20	26,90	58	3	12	20	0,040
25	33,70	68	3	15	25	0,080
32	42,40	78	3	15	32	0,150
40	48,30	88	3	17	40	0,180
50	60,30	102	3	23	50	0,195
65	76,10	122	3	23	65	0,240
80	88,90	138	3	23	80	0,300
100	114,30	158	3	28	100	0,360
125	139,70	188	3	30	125	0,460
150	168,30	212	3	30	150	0,550
200	219,10	268	4	30	200	0,700
250	273,00	320	4	30	250	1,260
300	323,90	370	4	35	300	1,470
350	355,60	430	4	38	350	2,320
400	406,50	482	4	44	400	2,640
500	508,00	585	4	45	500	3,770
600	609,20	685	4	45	600	6,800
700	711,10	800	4	45	700	8,330
800	812,90	905	4	45	800	9,400

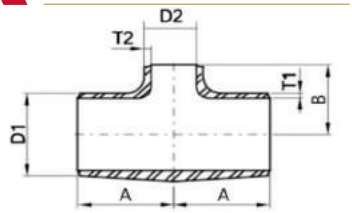
PN10 YAKA
PN10 COLLAR
Standartlar /Standards DIN 11850

Dış Çap Pipe Size	Boru Çapı Pipe Diameter	Yaka çapı Collar Diameter	Kalınlık Thickness s	Uzunluk Length L	Dış Çap Pipe Size	Ağırlık Weight (Kg)
DN	d1	QD	t	h	DN	Kg
25	28,00	68	2	15	25	0,080
32	34,00	78	2	15	32	0,150
40	40,00	88	2	17	40	0,180
50	52,00	102	2	23	50	0,195
65	70,00	122	2	23	65	0,240
80	85,00	138	2	23	80	0,300
100	104,00	158	2	28	100	0,360
125	129,00	188	2	30	125	0,460
150	154,00	212	2	30	150	0,550
200	204,00	268	2	30	200	0,700
250	250,00	320	2	30	250	1,260









DİKİŞLİ VE DİKİŞSİZ REDÜKSİYON TEE
WELDED AND SEAMLESS REDUCTION TEE
Standartlar/Standards: EN 10253-4/ASTM A403

Dış Çap Nominal Pipe Size			(D-1)	(D-2)	Et Kalınlığı/Wall Thickness (T)				A / B	Dış Çap Nominal Pipe Size			Ağırlık/Weight-(Kg)	
					SCH10s		SCH40s						SCH10s	SCH40s
					(T1)	(T2)	(T1)	(T2)						
3/4"	x	1/2"	26,90	21,30	2,11	2,11	2,87	2,77	28,70 /28,70	3/4"	x	1/2"	0,123	0,200
1"	x	1/2"	33,40	21,30	2,77	2,11	3,38	2,77	38,10 /38,10	1"	x	1/2"	0,204	0,234
1"	x	3/4"	33,40	26,90	2,77	2,11	3,38	2,87	38,10 /38,10	1"	x	3/4"	0,212	0,244
1 1/4"	x	3/4"	42,40	26,90	2,77	2,11	3,56	2,87	47,75 /47,75	1 1/4"	x	3/4"	0,327	0,432
1 1/4"	x	1"	42,40	33,40	2,77	2,77	3,56	3,38	47,75 /47,75	1 1/4"	x	1"	0,339	0,441
1 1/2"	x	1/2"	48,30	21,30	2,77	2,11	3,56	2,77	57,15 /57,15	1 1/2"	x	1/2"	0,431	0,561
1 1/2	x	3/4"	48,30	26,90	2,77	2,11	3,68	2,87	57,15 /57,15	1 1/2	x	3/4"	0,446	0,578
1 1/2"	x	1"	48,30	33,40	2,77	2,77	3,68	3,38	57,15 /57,15	1 1/2"	x	1"	0,461	0,600
1 1/2"	x	1 1/4"	48,50	42,40	2,77	2,77	3,68	3,56	57,15 /57,15	1 1/2"	x	1 1/4"	0,482	0,629
2"	x	3/4"	60,30	26,90	2,77	2,11	3,91	2,87	63,50 /44,50	2"	x	3/4"	0,702	1,110
2"	x	1"	60,30	33,40	2,77	2,77	3,91	3,38	63,50 /50,85	2"	x	1"	0,725	1,114
2"	x	1 1/4"	60,30	42,40	2,77	2,77	3,91	3,56	63,50 /57,10	2"	x	1 1/4"	0,747	1,180
2"	x	1 1/2"	60,30	48,20	2,77	2,77	3,91	3,68	63,50 /60,45	2"	x	1 1/2"	0,766	1,230
2 1/2"	x	1 1/2"	76,10	48,30	3,05	2,77	5,16	3,68	76,20 /66,80	2 1/2"	x	1 1/2"	1,180	2,080
2 1/2"	x	2"	76,10	60,30	3,05	2,77	5,16	3,91	76,20 /63,85	2 1/2"	x	2"	1,210	2,120
3"	x	1 1/2"	88,90	48,30	3,05	2,77	5,59	3,68	79,50 /73,15	3"	x	1 1/2"	1,600	2,980
3"	x	2"	88,90	60,30	3,05	2,77	5,59	3,91	85,85 /76,70	3"	x	2"	1,630	3,010
3"	x	2 1/2"	88,90	76,10	3,05	3,05	5,59	5,16	85,85 /88,55	3"	x	2 1/2"	1,700	3,150
4"	x	1 1/2"	114,30	48,30	3,05	2,77	6,02	3,68	104,90 88,55	4"	x	1 1/2"	2,500	5,040
4"	x	2"	114,30	60,30	3,05	2,77	6,02	3,91	104,90 86,90	4"	x	2"	2,520	5,080
4"	x	2 1/2"	114,30	76,10	3,05	3,05	6,02	5,16	104,90 95,25	4"	x	2 1/2"	2,590	5,220
4"	x	3"	114,30	88,90	3,05	3,05	6,02	5,49	104,90 98,55	4"	x	3"	2,610	5,270
5"	x	3"	141,30	88,90	3,40	3,05	6,55	5,49	123,95 /111,25	5"	x	3"	4,780	9,540
5"	x	4"	141,30	114,30	3,40	3,05	6,55	6,02	123,95 /117,60	5"	x	4"	4,780	9,540
6"	x	2 1/2"	168,30	76,10	3,40	3,05	7,11	5,16	143,00 /120,65	6"	x	2 1/2"	4,780	9,540
6"	x	3"	168,30	88,90	3,40	3,05	7,11	5,49	143,00 /123,90	6"	x	3"	4,780	9,540
6"	x	4"	168,30	114,30	3,40	3,05	7,11	6,02	143,00 /130,30	6"	x	4"	4,780	9,540
6"	x	5	219,10	141,30	3,76	3,40	7,11	6,55	143,00 /136,50	6"	x	5	4,780	9,540
8"	x	4"	219,10	114,30	3,76	3,40	8,18	0,02	177,80 /155,70	8"	x	4"	4,780	9,540
8"	x	5"	219,10	141,30	3,76	3,40	8,18	6,55	177,80 /163,00	8"	x	5"	4,780	9,540
8"	x	6"	219,10	168,30	3,76	3,40	8,18	7,11	177,80 /168,50	8"	x	6"	4,780	9,540
10"	x	5"	273,00	141,30	4,19	3,40	9,27	6,02	215,90 /190,50	10"	x	5"	4,780	9,540
10"	x	6"	273,00	168,30	4,19	3,40	9,27	7,11	215,90 /193,80	10"	x	6"	4,780	9,540
10"	x	8"	273,00	219,10	4,19	3,76	9,27	8,18	215,90 /203,20	10"	x	8"	4,780	9,540
12"	x	6"	324,00	168,30	4,57	3,40	9,52	7,11	254.00 /219,20	12"	x	6"	4,780	9,540
12"	x	8"	324,00	219,10	4,57	3,76	9,52	8,18	254.00 /236,00	12"	x	8"	4,780	9,540
12"	x	10"	324,00	273,00	4,57	4,19	9,52	9,27	254.00 /241,30	12"	x	10"	4,780	9,540

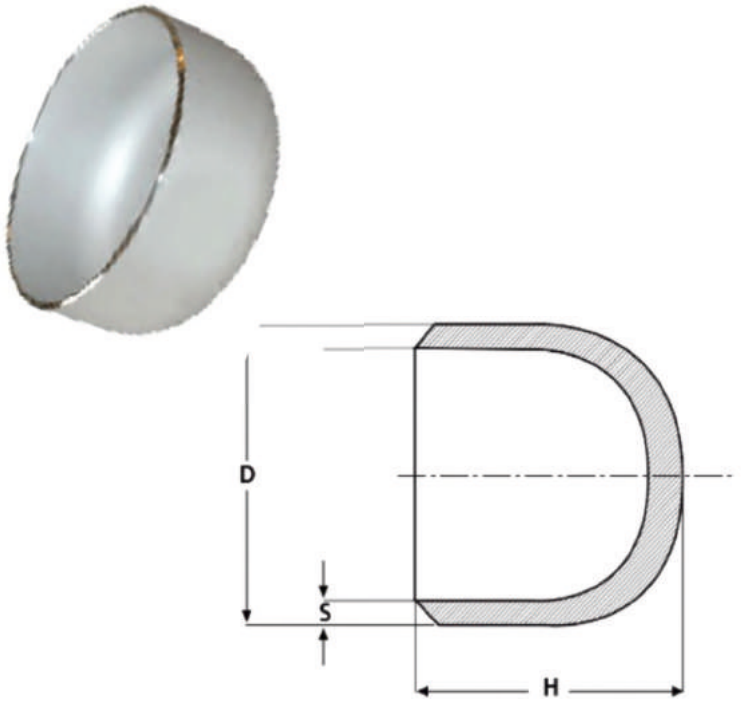
KAYNAK AĞIZLI KEP
WELD CAP
Standartlar / Standards ANSI B16.9 ASTM A403 / DIN 2617

Dış çap mm	Et kalınlık-Wall Thickness (S)					Uzunluk
Outside -D mm	2mm	3mm	SCH10s	SCH40s	SCH80s	Length (H)
21,30	2mm	3mm	2,11	2,87	3,91	25,4
26,90	2mm	3mm	2,77	3,38	4,55	25,4
33,70	2mm	3mm	2,77	3,38	4,55	25,4
42,40	2mm	3mm	2,77	3,56	4,85	38,1
48,30	2mm	3mm	2,77	3,56	4,85	38,1
60,30	2mm	3mm	2,77	3,56	4,85	38,1
76,10	2mm	3mm	2,77	3,68	5,08	38,1
88,90	2mm	3mm	2,77	3,68	5,08	38,1
114,30	2mm	3mm	2,77	3,68	5,08	50,8
139,70	2mm	3mm	2,77	3,68	5,08	63,5
168,30	2mm	3mm	2,77	3,91	5,55	76,1
219,10	2mm	3mm	2,77	3,91	5,55	88,9
273,00	2mm	3mm	2,77	3,91	5,55	101,6
323,90	2mm	3mm	2,77	3,91	5,55	127
355,60	2mm	3mm	2,77	3,91	5,55	152
406,40	2mm	3mm	3,05	5,16	7,62	165
457,40	2mm	3mm	3,05	5,16	7,62	177
508,40	2mm	3mm	3,05	5,16	7,62	203

Ağırlık/Weight-(Kg)					
Boru Çapı	(S-1) 2mm	S-2) 3mm	(S-3) SCH10s	(S-4) SCH40s	S-5) SCH80s
1/2"	0,038	0,045	0,040	0,046	0,045
3/4"	0,046	0,055	0,052	0,060	0,086
1"	0,065	0,100	0,090	0,109	0,109
1 1/4"	0,800	0,130	0,113	0,145	0,159
1 1/2"	0,100	0,150	0,130	0,171	0,222
2"	0,130	0,190	0,168	0,234	0,344
2 1/2"	0,160	0,000	0,242	0,420	0,512
3"	0,230	0,360	0,362	0,664	0,888
4"	0,480	0,600	0,585	1,170	1,510
5"	0,650	0,900	0,978	1,900	2,890
6"	0,980	1,220	1,350	2,830	4,240
8"	1,200	1,800	2,490	5,110	7,760
10"	2,000	2,900	3,840	8,920	13,100
12"	3,100	4,500	6,150	14,100	18,000
14"	3,800	5,900	7,850	16,350	21,000
16"	4,300	7,170	9,560	18,600	25,000
18"	5,200	9,000	12,100	23,540	32,000
20"	8,120	13,000	18,000	38,090	48,900

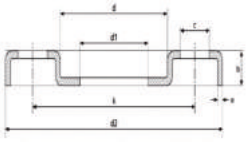
KAYNAK AĞIZLI KEP
WELD CAP
Standartlar / Standards DIN 11850

DN	Dış Çap	Et Kalınlık	Uzunluk	Ağırlık
Outside -D mm	O. Diameter	Wall Thickness	Length (H)	Length (H)
25	28,00	2,00	25	0,065
32	34,00	2mm	35	0,800
40	40,00	2mm	35	0,100
50	52,00	2mm	35	0,130
65	70,00	2mm	35	0,160
80	85,00	2mm	35	0,230
100	104,00	2mm	50	0,480
125	129,00	2mm	60	0,650
150	154,00	2mm	75	0,980
200	204,00	2mm	85	1,200
250	254,00	3mm	100	2,000



Pn10 YAKA VE BORUYA GÖRE BASKILI FLANŞLAR
PN10 COLLAR AND PIPE PRRESSED FLANGES
Standartlar /Standards ANSI B16.9 DIN 2642

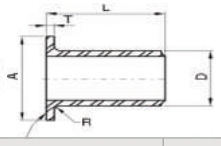




Monimal Çap DN	Boru Çapı	Dış Çap	Boğaz Ölçüsü	Uzunluk	Kalınlık	Delik Merkezi	Delik Çapı	Delik Sayısı
Monimal Diameter DN	Pipe Diameter	Outer Diameter	Outer Diameter	Length	Thickness	Hole Center	Hole Diameter of	Number of Holes
DN	d1	d2	d	b	3	k	c	Holu
15	21,30	95	38	11,5	3	65	14	4
20	26,90	105	48	14	3	75	14	4
25	33,70	115	53	16,5	3	85	14	4
32	42,40	140	68	17	3	100	18	4
40	48,30	150	77	17,5	3	110	18	4
50	60,30	165	91	19,5	3	125	18	4
65	76,10	185	108	21	3	145	18	4
80	88,90	200	123	22	3	160	18	8
100	114,30	220	141	23	3	180	18	8
125	139,70	250	168	25	3	210	18	8
150	168,30	285	192	27	3	240	22	8
200	219,10	340	245	31	4	295	22	8
250	273,00	395	295	34	4	350	22	12
300	323,90	445	345	38	4	400	22	12
350	355,60	505	376	40	4	460	22	16
400	406,50	565	470	40	4	515	26	16

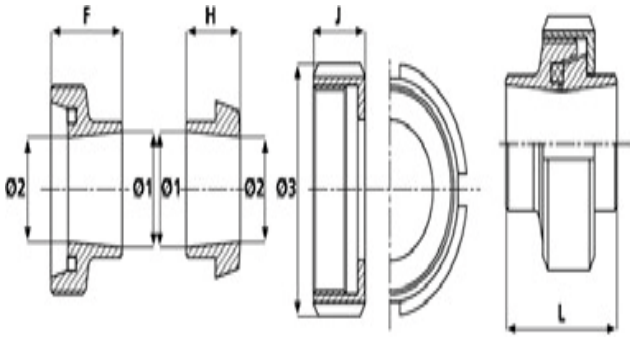
STUBEND
LAP-JOİNT-STUB-END SHORT LENGTH
Standartlar / Standards ASTM A403-ANSI B16.9 DIN 2642





Dış Çap Pipe Size	D	Et Kalılık Thickness SCH10s (T)	A	R	Uzunluk Length L	Dış Çap Pipe Size	Ağırlık Weight (Kg)
15	21,30	2,11	34,90	3,18	50,80	15	0,070
20	26,90	2,11	42,90	3,18	50,80	20	0,100
25	33,70	2,77	50,80	3,18	50,80	25	0,160
32	42,40	2,77	63,50	4,76	50,80	32	0,220
40	48,30	2,77	73,00	6,35	50,80	40	0,250
50	60,30	2,77	92,10	7,94	63,50	50	0,430
65	76,10	3,05	104,80	9,53	63,50	65	0,570
80	88,90	3,05	127,00	9,53	63,50	80	0,730
100	114,30	3,05	157,20	11,11	76,20	100	1,090
125	139,70	3,40	185,70	11,11	76,20	125	1,470
150	168,30	3,40	215,90	12,70	90,00	150	2,150
200	219,10	3,76	269,00	12,70	101,60	200	3,220
250	273,00	4,19	323,90	12,70	127,00	250	5,130
300	323,90	4,57	381,00	12,70	152,40	300	8,160

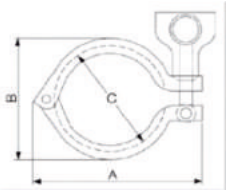




Kaynak Uçlu Iso Rakor Tkm
Welding Union Standard
Standartlar / Standarts:ASTM A351-ISO 4144
Çalışma Basınç / Working Pressure (16-20)
Çalışma Sıcaklık / Operating temperature (-20+210°C)

Size	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2	3"	4"
Spec.	17,3	21,3	26,9	33,7	42,4	48,3	60,3	76,1	88,9	114,3
Q3	38	44	54	63	70	78	92	112	127	148
J	14	18	21	21	21	21	22	25	30	31
Q1	38	45	51	53	57	65	75	89	70	76
Q2	10	16	20	26	32	38	50	66	81	100
F	21	21	24	29	32	33	35	40	45	54
H	10	17	18	22	25	26	28	32	37	44
kg	0,11	0,138	0,19	0,272	0,414	0,54	0,8	1,12	1,93	3,05

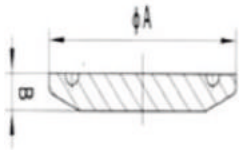




HİJYENİK KLEMP KLEPPÇE TAKIMI
HYGIENIC CLAMP CLAMP KIT
Standartlar / Standards / ISO
Conta / Gasket EPDM / SLİCON

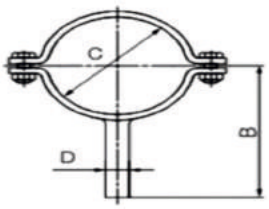
Ölçü/Size	MM	A	B	C	Kg-Weight
Dn15	21,3	83	61,5	50	0,23
Dn20	26,8	83	61,5	50	0,31
Dn25	33,7	83	61,5	50	0,38
Dn32	42,4	83	61,5	50	0,47
Dn40	48,3	96	73,3	62	0,60
Dn50	60,3	114	89	77,5	0,65
Dn65	76,1	131	101,5	90,5	0,87
Dn80	88,9	140	117	106	0,98
Dn100	114,3	170	141	130	1,13





KLMEP KÖRLEYİCİ END/KEP HİJYENİK
CLAMP BLINDINS END/CAP HYGIENIC
Standartlar / Standards ISO
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40+220°C)

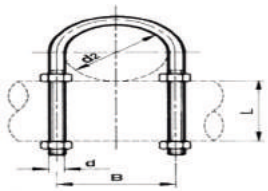
Ölçü/Size	mm	Φ A	B /mm	DUCT-RİNG	Kg-Weight
15	21,3	34	6	2,00	0,04
20	26,9	50,5	6	2,00	0,04
25	33,7	50,5	6	2,00	0,07
32	42,4	50,5	6	2,00	0,90
40	48,3	64	7	2,00	0,15
50	60,3	77,5	7	2,00	0,20
65	76,1	91	8	2,00	0,40
80	88,9	106	8	2,00	0,65
100	114,3	130	11	2,00	1,52





MİL SAPLI KELEPÇE
PIPE CLAMP WITH SHAFT HANDLE
Standartlar / Standards/ISO
Çalışma Basınç / Working Pressure (16 Bar)

Ölçü/Size	MM	D	B	Ağrık /Weight
Dn15	21,3	8	66	0,12
Dn20	26,9	8	67	1,14
Dn25	33,7	10	71	0,15
Dn32	42,4	10	74	0,20
Dn40	48,3	10	77	0,32
Dn50	60,3	12	83	0,35
Dn65	76,1	12	93	0,55
Dn80	88,9	12	100	0,61
Dn100	114,3	12	110	0,81
Dn125	139,7	16	140	0,92
Dn150	168,3	16	153	0,99
Dn200	219,1	20	165	1,06

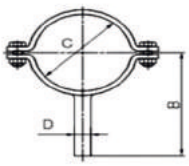




U-BOLT KLEPÇE TAKIMI
U-BOLT CLAMP KIT
Standartlar / Standards DIN 11850/51 SMS/ISO
Çalışma Basınç / Working Pressure (16 Bar)
Çalışma sıcaklık / Operating temperature (-30 + 175°C)

Ölçü/Size	DN	d2	A	B	b	Ağırlık Weight/Kg
1/2"	15	18	M6	54	32	0,03
3/4"	20	22	M6	54	36	0,040
1"	22	28	M8	54	38	0,050
1 1/4"	32	34	M8	54	42	0,460
1 1/2"	40	40	M8	54	44	0,060
2"	52	52	M8	54	50	0,100
2 1/2"	70	70	M8	54	62	0,110
3"	85	85	M10	54	80	0,130
4"	104	104	M10	54	97	0,160
5"	129	129	M10	54	116	0,170
6"	154	154	M10	54	141	0,200

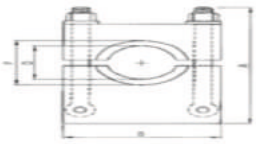




BORU SAPLI KELEPÇE HİJYENİK
PİPE HANDLE CLAMP HYGIENIC
Standartlar / Standards / ISO
Çalışma Basınç / Working Pressure (16 Bar)

Ölçü/Size	MM	D	B	Ağırlık /Weight
Dn15	21,3	8	45	0,10
Dn20	26,9	8	60	0,10
Dn25	33,7	10	60	0,11
Dn32	42,4	10	60	0,11
Dn40	48,3	10	60	0,13
Dn50	60,3	12	75	0,16
Dn65	76,1	12	99	0,20
Dn80	88,9	12	116	0,28
Dn100	114,3	12	130,7	0,32

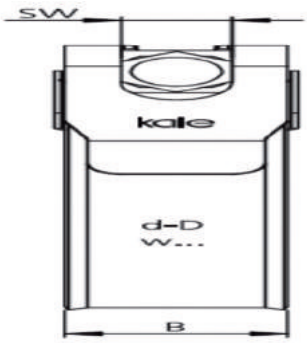


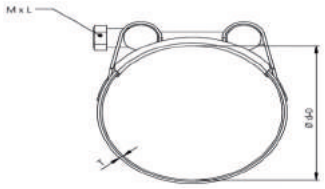


BORU SIKMA KELEPÇE APARATI
PIPE TIGHTENING CLAMP APPARATUS
Standartlar / Standards ISO
Çalışma Basınç / Working Pressure (16 Bar)
Çalışma sıcaklık / Operating temperature (-10+310°C)

Ölçü/SizeDIN	MM	A	B	D	F	AğırlıkWeight/Kg
25	33,7	138	110	35	52	2,30
32	42,4	138	110	41	58	2,50
40	48,3	150	130	48	65	3,00
50	60,3	165	140	61	78	3,35
65	76,1	190	150	78	95	4,50
80	88,9	195	180	93	110	7,00
100	114,3	230	200	114	130	8,50



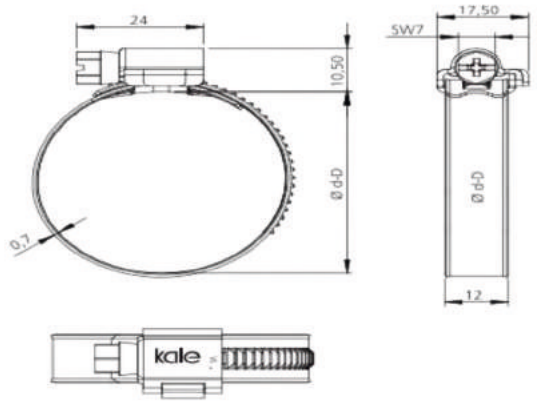




AĞIR İŞ HORTUM KELEPÇE
HEAVY DUTY HOSE CLAMP
Standartlar / Standards ISO
Çalışma Basınç / Working Pressure (16 Bar)

Ölçü/Size (Dmm)	D (mm)	M x L (mm)	(Bmm)	T (mm) W1 W2-W4		Sw (mm)	AD (Nm)	Ağırlık Weight
17-19	19	193,7	25	0,6	0,6	8	8	0,08
20-22	22	196,3	25	0,6	0,6	8	8	0,09
23-25	25	M8 x 80	25	0,6	0,6	8	8	0,09
26-28	28	M8 x 80	25	0,6	0,6	8	8	0,09
29-31	31	M8 x 80	25	0,6	0,6	8	8	0,10
32-35	35	M8 x 80	25	0,6	0,6	10	10	0,11
36-39	39	M8 x 80	25	1,0	1,0	10	10	0,14
40-43	43	M8 x 90	25	1,0	1,0	10	10	0,19
44-47	47	M8 x 90	25	1,0	1,0	10	10	0,23
48-51	51	M8 x 90	25	1,0	1,0	10	10	0,24
52-55	55	M8 x 90	25	1,0	1,0	10	10	0,25
56-59	59	M6 x 55	20	1,0	1,0	10	10	0,26
60-63	63	M6 x 55	20	1,0	1,0	10	10	0,29
64-67	67	M6 55	20	1,0	1,0	10	10	0,31
68-73	73	M6 x 70	25	1,5	1,2	13	20	0,34
74-79	79	M8 x 70	25	1,5	1,2	13	20	0,38
80-85	85	M8 x 70	25	1,5	1,2	13	20	0,41
86-91	91	M8 x 70	25	1,5	1,2	13	20	0,44
92-97	97	V18 x 70	25	1,5	1,2	13	20	0,48
98-103	103	M8 x 70	25	1,5	1,2	13	20	0,51
104-1 12	1 12	M8 x 80	25	1,5	1,2	13	20	0,57
113-121	121	M8 x 80	25	1,5	1,2	13	20	0,60
122-130	130	M8 x 80	25	1,5	1,2	13	20	0,62
131-139	139	M8 x 80	25	1,5	1,2	13	20	0,68
140-148	148	M8 x 80	25	1,5	1,2	13	20	0,69
149_161	161	M8 x 80	25	1,8	1,5	13	20	0,71
162-174	174	M8 x 90	25	1,8	1,5	13	20	0,74
175-187	187	M8 x 90	25	1,8	1,5	13	20	0,77
188-200	200	M8 x 90	25	1,8	1,5	13	20	0,79
201-213	213	M8 x 90	25	1,8	1,5	13	20	0,81
W1 BANT	W2	W4	Köprü	Cıvata	Klavuz	Pul	Somun	W
Yumuşak Çelik	1,4303	1,4303	1,4303	Yumuşak Çelik 1.4303	Yumuşak Çelik 1.4303	Yumuşak Çelik 1.4303	Yumuşak Çelik 1.4303	1,4303



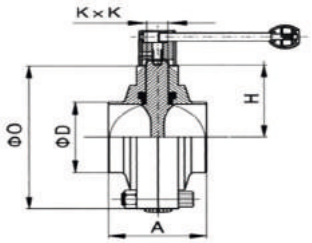


AYARLI HORTUM KELEPÇESİ
ADJUSTABLE HOSE HANGER
Standartlar / Standards ISO
Çalışma Basınç / Working Pressure (16 Bar)

Ölçü/Size Ød (Min-max)	AD Maks (Mn)	W1	W2	W3	W4	W5	T(mm)	Ağırlık Weight
16x25	5	74	95	140	183	255	1	0,02
25x40	5	74	103	140	188	256	1	0,02
32x50	5	76	110	156	198	298	1	0,02
40x60	5	78	115	162	210	304	1	0,02
50x70	5	80	122	168	220	318	1	0,03
60x80	5	83	129	173	231	334	1,2	0,03
70x90	5	85	135	180	241	350	1,2	0,03
100x80	5	90	185	244	330	474	1,2	0,03
90x110	5	95	195	252	343	493	1,2	0,04
100x120	5	99	201	261	356	512	1,2	0,04
110x130	5	104	211	270	371	533	1,5	0,05
120x140	5	143	220	279	384	552	1,5	0,06
130x150	5	149	228	287	398	570	1,5	0,07
140x160	5	155	235	295	413	590	1,5	0,08
150x170	5	162,5	244	303	425	609	1,5	0,91
160x180	5	167,5	254	313	441	630	1,5	0,10
170x190	5	174	262	320	455	650	1,5	0,10
180x200	5	180,7	272	332	471	671	1,5	0,13
YUVA	Köprü	BANT	KOROZYON	Pul	SOMUN	VİDA BAŞLILIĞI	W1	W2
Yumuşak Çelik 1.4303	Yumuşak Çelik 1.4303	Yumuşak Çelik 1.4303	Yumuşak Çelik 1.4303	Yumuşak Çelik 1.4303	Yumuşak Çelik 1.4303	Yumuşak Çelik 1.4303	Yumuşak Çelik	Yumuşak Çelik

KAYNAKLI KELEBEK VANA HİJYENİK
WELDED BUTTERFLY VALVE HYGIENIC
Standartlar / Standards İSO
Çalışma Basınç / Working Pressure (10 Bar)
Çalışma Sıcaklık / Operating temperature (-10+110°C)
Sızdırmazlık / Sealing NBR

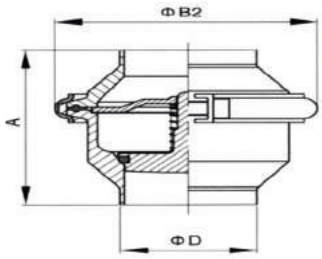




Ölçü/Size	Φ O/mm	Φ D/mm	KxK /mm	A/mm	H/mm	Kg-Weight
25	78	33,7	8.0x8.0	50	39	1,3
32	78	42,4	8.0x8.0	50	39	1,4
40	78	48,3	8.0x8.0	50	39	1,7
50	86	60,3	8.0x8.0	50	43	1,8
65	90	76,1	8.0x8.0	50	45	3,7
80	108	88,9	10.0x10.0	52	53	4,8
100	125	114,3	10.0x10.0	56	62	10,0

YAYLI KAYNKAKLI ÇEKVALF HİJYENİK
SPRING WELDED CHECK VALVE HYGIENIC
Standartlar / Standards İSO
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40+220°C)

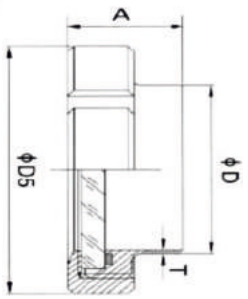




Ölçü/Size	B2	D	A	Kg-Weight
Dn25	33,7	33,7	76.5	0,90
Dn32	87	42,4	76.5	1,20
Dn40	87	48,3	76.9	1,40
Dn50	100	60,3	87.9	2,40
Dn65	115	76,1	96.5	4,50
Dn80	128	88,9	116.5	6,00
Dn100	104	114,3	156.5	9,00

REKOR TİPİ GÖZETLEME CAMI HİJYENİK
LINE TYPE SIGHT GLASS HYGIENIC
Standartlar / Standards ISO
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma sıcaklık / Operating temperature (-40+220°C)





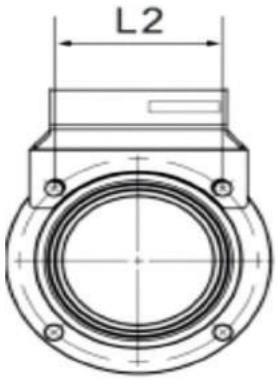
Ölçü/Size	A/mm	Φ D/mm	Φ D5/mm	T/mm	Ağırlık Weight
1"	29	33,7	51	1,50	0,29
1 1/4"	33	42,4	74	1,50	0,45
1 1/2"	36	48,3	84	1,50	0,65
2"	41	60,3	100	1,60	0,90
3"	48	76,1	114	1,60	1,25
4"	50	88,9	150	2,00	2,00

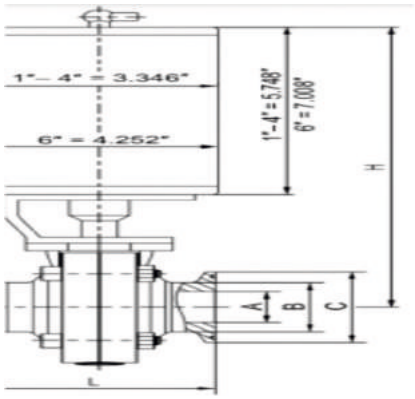
KLEMP BAĞLANTILI PNÖMATİK AKTÜATÖRLÜ KELEBEK VANA
CLAMP CONNECTED PNEUMATIC ACTUATOR BUTTERFLY VALVE

Standartlar / Standards ISO
Hava Besleme Basıncı 80-100 PSI/Air Supply Pressure 80-100 PSI
Çalışma Sıcaklık / Operating temperature (-10+110°C)
Sızdırmazlık / Sealing Slikon-EPDM

Ölçü/Size	C	B	L	L2	Ağırlık Weight/Kg
25	33,7	31,7	84	1,850	4,37
32	42,4	40,2	92	1,987	4,35
40	48,3	46,3	102	2,046	4,36
50	60,3	58,3	106	2,363	5,41
65	76,1	74,3	114	2,756	9,10
80	88,9	87,9	134	3,051	15,50
100	114,3	112,3	152	3,858	19,85

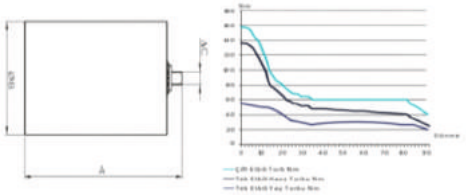






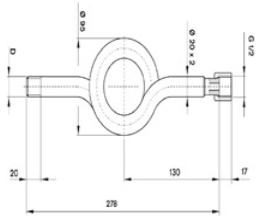
ÖLÇÜ	A (mm)	B (mm)	C(mm)
Tork-85 DA/SR	183	89	8.10.12.

Tork Değeri / Torque Value



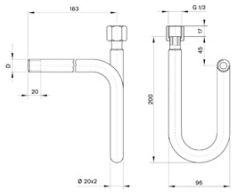
PASLANMAZ MANOMETRE OMEGASI (SİFON) STAINLESS MANOMETER SIPHONE					
Ölçü/Size	D	L mm	Q	Q2	Ağırlık /Weight
1/2" BSP	1/2"	258	95	20x2	1,30
1/2" NPT	1/2"	258	95	20x2	1,30



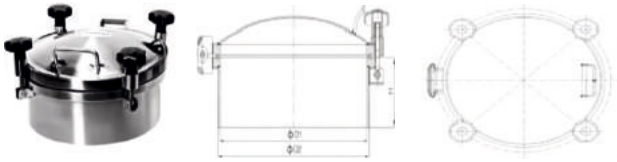


PASLANMAZ AKIŞ KIRICI SİFONU (U-Rakor Bağ) STAINLESS FLOW BREAKER SIPHON					
Ölçü/Size	D	L mm	Q	Q2	Ağırlık /Weight
1/2" BSP	1/2"	280	183	20x2	1,40
1/2" NPT	1/2"	280	183	20x2	1,40





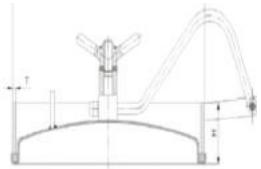
SIKMA KOLLU BASINÇLI YUVARLAK MENHOL KAPAK
TIGHTENING SLEEVES CAMPRESSED OUND MANHOLE COVER
Standartlar / Standards 3A, SMS, ISO, DIN, AS, BS4825, BPE
Çalışma Basınç / Working Pressure (2-5 Bar)
Çalışma Sıcaklık / Operating temperature (-20+150°C)

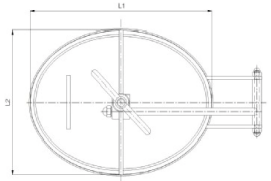


Ölçü/Size (D)	H	D1	D2	(Tmm)	Ağırlık-Weight
Q200	100	194	100	3	9,00
Q300	100	294	100	3	9,30
Q350	100	344	100	3	11,87
Q400	100	394	100	3	12,75
Q450	100	444	100	3	14,00
Q500	100	494	100	4	16,00
Q600	100	594	100	4	17,00

Parça Adı / Part Name	Malzeme/ Meterial)
Yükseklik /Height	00-120-150-180-200
Malzeme /Meterial	SS304L/SS316L
Conta /Gasket	EPDM,NBR,SİLİKON
Yüzey /Surface	Ra0.8μm-0.5μm Shiny
Basınç /Pressure	(2,5 Bar)

BASINÇLI OVAL MENHOL KAPAK
PRESSURE OVAL MANHOLE COVER
Standartlar / Standards 3A, SMS, ISO, DIN, AS, BS4825, BPE
ASTM A351 - ANSI B 1.20.1 CF8-CF8M EN 10213
Çalışma Basınç / Working Pressure (3 Bar)
Çalışma Sıcaklık / Operating temperature (-20+150°C)





Ölçü/Size (D)	H	L1	L2	(Tmm)	Ağırlık-Weight
444x312	80	444	312	4	11,00
444x330	80	444	330	4	11,30
435x335	100	435	335	4	12,00
635x525	160	635	525	4	14,00

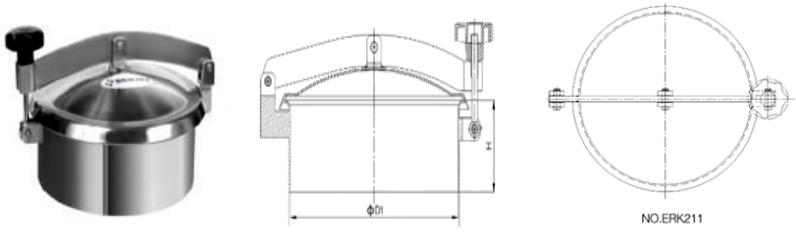
Parça Adı / Part Name	Malzeme/ Meterial)
Yükseklik /Height	00-120-150-180-200
Malzeme /Meterial	SS304L/SS316L
Conta /Gasket	EPDM,NBR,SİLİKON
Yüzey /Surface	Ra0.8μm-0.5μm Shiny
Basınç /Pressure	(3,0 Bar)



BASINÇSIZ YUVARLAK MENHOL KAPAK
NON-PRESSURIZED ROUND MANHOLE COVER
Standartlar / Standards 3A, SMS, ISO, DIN, AS, BS4825, BPE
Çalışma Basınç / Working Pressure (5 Bar)
Çalışma Sıcaklık / Operating temperature (-20+150°C)

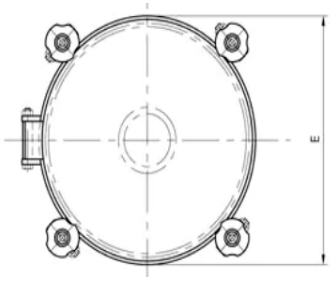
Ölçü/Size (D)	H	D1	D2	(Tmm)	Ağırlık-Weight
Q200	100	194	100	3	9,00
Q300	100	294	100	3	9,30
Q350	100	344	100	3	11,87
Q400	100	394	100	3	12,75
Q450	100	444	100	3	14,00
Q500	100	494	100	4	16,00
Q600	100	594	100	4	17,00

Parça Adı / Part Name	Malzeme/ Meterial)
Yükseklik /Height	00-120-150-180-200
Malzeme /Meterial	SS304L/SS316L
Conta /Gasket	EPDM,NBR,SİLİKON
Yüzey /Surface	Ra0.8μm-0.5μm Shiny
Basınç /Pressure	(2,5 Bar)



5 SIKMA KOLLU BASINÇLI YUVARLAK MENHOL KAPAK
5 TIGHTENING SLEEVES CAMPRESSED OUND MANHOLE COVER
Standartlar / Standards 3A, SMS, ISO, DIN, AS, BS4825, BPE
Çalışma Basınç / Working Pressure (2-5 Bar)
Çalışma Sıcaklık / Operating temperature (-20+150°C)

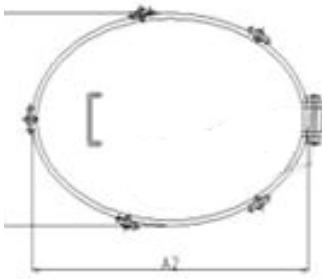




Ölçü/Size (D)	Dİ	A	B	C	D	D	Ağırlık-Weight
200	200	8	1,5	60	130	240	9,00
300	300	8	1,5	60	130	322	9,30
400	398	8	1,5	60	130	420	11,87
500	500	8	1,5	60	130	526	12,75
600	600	8	1,5	60	130	630	14,00

GÖZETLEME CAMLI BASINÇLI YUVARLAK MENHOL KAPAK
PRESSURIZED ROUND MANHOLE COVER WITH SIGHT GLASS
Standartlar / Standards 3A, SMS, ISO, DIN, AS, BS4825, BPE
Çalışma Basınç / Working Pressure (2 Bar)
Çalışma Sıcaklık / Operating temperature (-20+150°C)

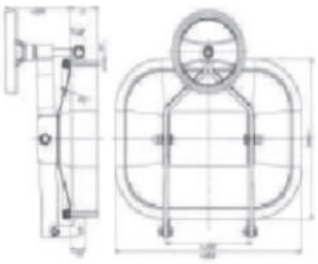




Ölçü/Size (A)	A1-mm	H-MM	Max Pres.	Ağırlık-Weight
400	200	8	2 Bar	17,00
450	300	8	2 Bar	18,00
500	398	8	2 Bar	21,90

SIKMA KOLLU BASINÇLI YUVARLAK MENHOL KAPAK
TIGHTENING SLEEVES CAMPRESSED OUND MANHOLE COVER
Standartlar / Standards 3A, SMS, ISO, DIN, AS, BS4825, BPE
Çalışma Basınç / Working Pressure (2-5 Bar)
Çalışma Sıcaklık / Operating temperature (-20+150°C)



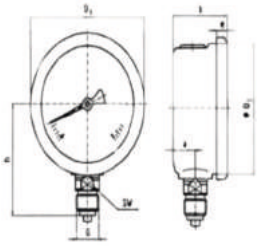


Ölçü/Size (D)	H	D1	D2	(Tmm)	Ağırlık-Weight
Q200	100	194	100	3	9,00
Q300	100	294	100	3	9,30
Q350	100	344	100	3	11,87
Q400	100	394	100	3	12,75
Q450	100	444	100	3	14,00
Q500	100	494	100	4	16,00
Q600	100	594	100	4	17,00

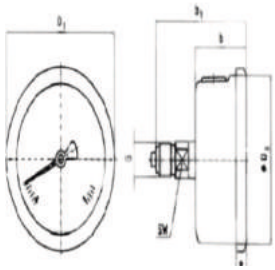
PASLANMAZ DİŞLİ ALT VE ARKA ÇIKIŞLI MANOMETRE
STAINLESS THREADED BOTTOM AND REAR OUTPUT MANOMETER
Standartlar / Standards - Kuru ve Gliserinli Dry And Glycerine
Çalışma Basınç / Working Pressure (0-5-0-10-0-15-0-20-0-25 Bar)
Çalışma sıcaklık / Operating temperature (-30+175°C)
Sızdırmazlık / PTFE-EPDM

Arka Çıkış/ Rear Output				Alt Çıkış /Sub Output			
Ns	63	80	100	Ns	63	80	100
a	13	15,8	15,5	a	13	15,8	15,5
b1	32	43,5	48	b1	32	43,5	48
b2	56	78	81,5	b2	56	78	81,5
D1	68	83,6	107	D1	68	83,6	107
D2	62	80	100	D2	62	80	100
e	6,5	5	8	e	6,5	5	8
f	-	-	30	f	-	-	30
G	G1/4"B	G1/2"B	G1/2"B	G	G1/4"B	G1/2"B	G1/2"B
h	54	76	87	h	54	76	87
SW	14	22	22	SW	14	22	22
	0,21	0,39	80		0,21	0,39	80



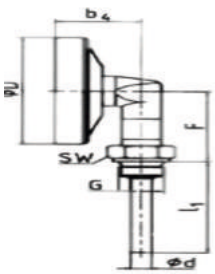






PASLANMAZ TERMO METRE/ STAINLESS THERMO METER					PASLANMAZ MANOMETRE REKORU / STAINLESS MANOMETER RECORD		
Ns	63	80	100	160	DN	A	B
b1	29	30	35	39	25	65	96
b2	30	30	30	30	32	65	96
b3	46	47	52	57	40	65	96
b4	34	36	40	43	50	78	96
b5	13	13	13	13	65	95	96
QD	63	80	100	160	80	110	96
F	47	56	66	96	100	130	96

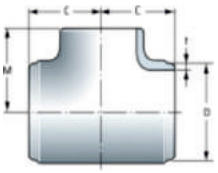








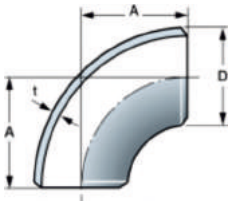




DİKİŞLİ SATİNELİ EŞİT TEE
"WELDED SATIN EQUAL TEE"
Standartlar / Standards EN 10253-4

Boru Çapı	Dış Çap.	Eksen.	Et Kalınlığı	Ağırlık Weight-(Kg)
Nominal Pipe Size	Outside diameter D – mm	Center-to-end C-M mm	Wall hickness (T)	Weight-(Kg)
1/2"	21,30	25 /25	2,00	0,65
3/4"	26,90	29 /29	2,00	0,08
1"	33,70	38 /38	2,00	0,17
1 1/4"	42,40	48 /48	2,00	0,28
1 1/2"	48,30	57 /57	2,00	0,38
2"	60,30	64 /64	2,00	0,49
2 1/2"	76,10	76 /76	2,00	0,89
3"	88,90	86 /86	2,00	1,10
4"	114,30	105 /105	2,00	1,70
5"	139,70	124 /124	2,00	2,68
6"	168,30	143 /143	2,00	3,65
8"	219,10	188 /178	2,00	5,38

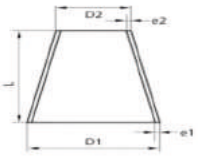




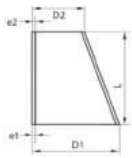
90° DİKİŞLİ SATİNELİ DİRSEK UZUN RADYUS = 3D
90° WELDED SATİN ELBOW LONG RADIUS = 3D
Standartlar / Standards EN 10253-4-

Boru Çapı İnç.Nominal Pipe Size Inch"	Dış Çap mm Outside diameter D - mm	Eksen Center-to-end A-mm	Kalınlık thickness T1 (mm)	Ağırlık Weight Kg
1/2"	21,30	28	2,00	0,057
3/4"	26,90	29	2,00	0,054
1"	33,70	38	2,00	0,093
1 1/4"	42,40	48	2,00	0,147
1 1/2"	48,30	57	2,00	0,204
2"	60,30	76	2,00	0,342
2 1/2"	76,10	95	2,00	0,557
3"	88,90	114	2,00	0,768
4"	114,30	155	2,00	1,322
5"	139,70	190	2,00	2,070
6"	168,30	229	2,00	3,090
8"	219,10	305	2,00	5,200





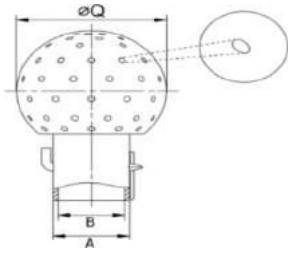




SATİNELİ DİKİŞLİ KONSANTRİK VE EKSANTRİK REDÜKSİYON
SATİN WELDED-CONCENTRIC AND ECCENTRIC REDUCTION
Standartlar / Standards - EN 10253-4-

Monimal Çap inç			Dış Çap mm		Uzunluk	Et kalınlık Wall Thickness (T)	Ağırlık Weight (Kg)
			(D1)	(D2)	Length	2MM	2mm)
Pipe size Inch			Outer diameter		(L)	(E-1)	(E-1)
3/4"	x	1/2"	26,90	21,30	38	2,00	0,014
1"	x	3/4"	33,70	26,90	51	2,00	0,020
1"	x	1/2"	33,70	21,30	51	2,00	0,200
1 1/4"	x	1/2"	42,40	21,30	51	2,00	0,040
1 1/4"	x	3/4"	42,40	26,90	51	2,00	0,040
1 1/4"	x	1"	42,40	33,70	51	2,00	0,040
1 1/2"	x	1/2"	48,30	21,30	64	2,00	0,060
1 1/2"	x	3/4"	48,30	26,90	64	2,00	0,060
1 1/2"	x	1"	48,30	33,70	64	2,00	0,060
1 1/2"	x	1 1/4"	48,30	42,40	64	2,00	0,060
2"	x	1/2"	60,30	21,30	76	2,00	0,090
2"	x	3/4"	60,30	26,90	76	2,00	0,090
2"	x	1"	60,30	33,70	76	2,00	0,090
2"	x	1 1/4"	60,30	42,40	76	2,00	0,090
2"	x	1 1/2"	60,30	48,30	76	2,00	0,090
2 1/2"	x	1"	76,10	33,70	89	2,00	0,130
2 1/2"	x	1 1/4"	76,10	42,40	89	2,00	0,130
2 1/2"	x	1 1/2"	76,10	48,30	89	2,00	0,130
2 1/2"	x	2"	76,10	60,30	89	2,00	0,130
3"	x	2 1/2"	88,90	76,10	89	2,00	0,200
3"	x	2"	88,90	60,30	89	2,00	0,200
3"	x	1 1/2"	88,90	48,30	89	2,00	0,200
3"	x	1 1/4"	88,90	42,40	89	2,00	0,200
3"	x	1"	88,90	33,70	89	2,00	0,200
4"	x	3"	114,30	88,90	102	2,00	0,40
4"	x	2 1/2"	114,30	76,10	102	2,00	0,40
4"	x	2"	114,30	6*,3	102	2,00	0,40
4"	x	1 1/2"	114,30	48,30	102	2,00	0,40
4"	x	1 1/4"	114,30	42,40	102	2,00	0,40
5"	x	4"	141,30	114,30	127	2,00	0,85
5"	x	3"	141,30	88,90	127	2,00	0,85
5"	x	2 1/2"	141,30	76,10	127	2,00	0,85
6"	x	5"	168,30	141,30	140	2,00	1,05
6"	x	4"	168,30	114,30	140	2,00	1,05
6"	x	3"	168,30	88,90	140	2,00	1,05
6"	x	2 1/2"	168,30	76,10	140	2,00	1,05
8"	x	6"	219,10	168,30	152	2,00	1,50
8"	x	5"	219,10	141,30	152	2,00	1,50
8"	x	4"	219,10	114,30	152	2,00	1,50

KAYNAKLI SABİT TİP YIKAMA TOPU HİJYENİK
WELDED FIXED TYPE WASHING BALL HYGIENIC
Standartlar / Standards /ISO
Çalışma Basınç / Working Pressure (1-2 Bar)
Çalışma sıcaklık / Operating temperature (-20+180°C)

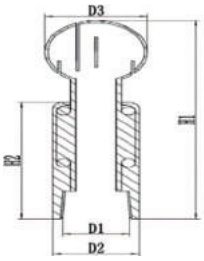




Ölçü/Size /A-B	Q /mm	Delik Çap mm	T/mm	H	Kg-Weight
22	40	2	2,00	70,00	0,11
28	40	2	2,00	70,00	0,11
28	50	2	2,00	80,00	0,20
32	50	2	2,00	90,00	0,22
32	65	2	2,00	90,00	0,22
38	65	2	2,00	95,00	0,25
40	65	2	2,00	95,00	0,34
52	90	2	2,00	95,00	0,90

DİŞLİ 180° DÖNER TİP YIKAMA TOPU HİJYENİK
THREADED 180° ROTATING TYPE WASHING BALL HYGIENIC
Standartlar / Standards / ISO
Çalışma Basınç / Working Pressure (1-2 Bar)
Çalışma Sıcaklık / Operating temperature (-20+180°C)

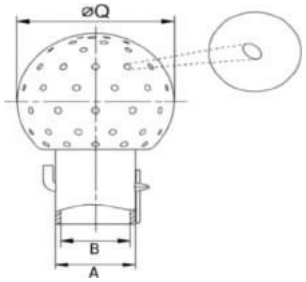




Ölçü/Size (D1)	D2	D3	H1	H2	Kg-Weight
Dn15	30	32	130	58	0,40
Dn20	30	32	130	68	0,43
Dn25	40	38	145	68	0,44
Dn32	61	40	155	70	0,50
Dn40	65	45	155	75	0,57
Dn50	68	45	160	75	0,67

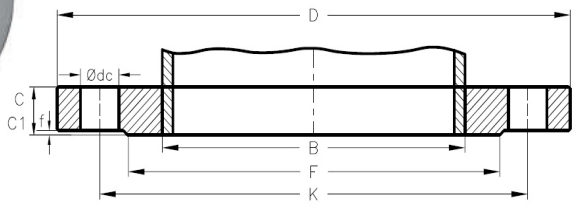
DİŞLİ SABİT TİP YIKAMA TOPU HİJYENİK
Threaded FIXED TYPE WASHING BALL HYGIENIC
Standartlar /Standards /ISO
Çalışma Basınç /Working Pressure (1-2 Bar)
Çalışma sıcaklık /Operating temperature (-20 +180°C)





Ölçü/Size /A-B	Q /mm	Delik Çap mm	B	H	Kg-Weight
1/4"	40	2	18,50	70,00	0,11
3/8"	40	2	21,40	70,00	0,11
1/2"	50	2	26,5	80,00	0,20
3/4"	50	2	32	90,00	0,22
1"	65	2	39,5	90,00	0,22

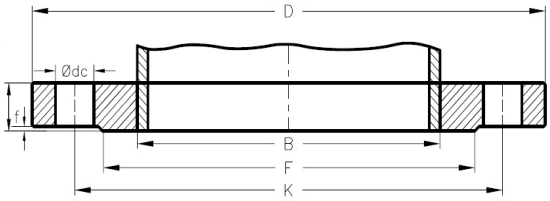




Pn6 DÜZ FLANŞLAR
PN6 STRAİGHT FLANGES
Standartlar / Standards EN 1092-1 - DIN 2573
Çalışma Basınç / Working Pressure (16-20 Bar)
Çalışma Sıcaklık / Operating temperature (-20+150°C)

BORU (PIPE)		FLANŞ/ FLANGE							CİVATA / BOLT			AĞIRLIK (WEIGHT)
Çap Diameter	db	B	D	EN 1092-1	DIN 2573	K	f	F	Delik Sayısı (Bolt Holes)	Civata Çapı (Bolt Diameter)	dc	
	DIN			C	C1							
15	21,30	22	80	12	12	55	2	38	4	M10	11	0.41
20	26,90	27,6	90	14	14	65	2	48	4	M10	11	0.60
25	33.70	34.4	100	14	14	75	2	58	4	M10	11	0.74
32	42.40	43.1	120	16	14	90	2	69	4	M12	14	1,19
40	48.30	49	130	16	14	100	2	78	4	M12	14	1,39
50	60.30	61.1	140	16	14	110	2	88	4	M12	14	1,53
65	76.10	77.1	160	16	14	130	2	108	4	M12	14	1,89
80	88.90	90.3	190	18	16	150	2	124	4	M16	18	2,98
100	114.30	115.9	210	18	16	170	2	144	4	M16	18	3,46
125	139.70	141.6	240	20	18	200	2	174	8	M16	18	4,60
150	168.30	170.5	265	20	18	225	2	199	8	M16	18	5,22
200	219.10	221.8	320	22	20	280	2	254	8	M16	18	7,15
250	273,00	276.2	375	24	22	335	2	309	12	M16	18	9,61
300	323.90	327.6	440	24	22	395	2	363	12	M20	22	12,60
350	355.60	359.7	490	26	22	445	2	413	12	M20	22	15,60
400	406.40	411	540	28	22	495	2	463	16	M20	22	17,40
450	457,00	462.5	595	30	22	550	2	518	16	M20	22	21,40
500	508,00	513.6	645	32	24	600	2	568	20	M20	22	24,60
600	610,00	616	755	36	24	705	2	667	20	M24	26	43,00
700	711,00	717.5	860	40	24	810	5	772	24	M24	26	57,00
800	813,00	819	975	44	24	920	5	878	24	M27	30	78,00
900	914,00	920	1075	48	26	1020	5	978	24	M27	30	94,00
1000	1016,00	1022	1175	52	26	1120	5	1078	28	M27	30	112,00
1200	1220,00	1225	1405	60	28	1340	5	1295	32	M30	33	180,00
1400	1420,00	1426	1630	68	32	1560	5	1510	36	M33	35.5	...
1600	1620,00	1626	1830	76	34	1760	5	1710	40	M33	35.5	...
1800	1820,00	1826	2045	84	36	1970	5	1918	44	M36	39	...
2000	2020,00	2026	2265	92	38	2180	5	2125	48	M39	42	...
2200	2220,00	2226	2475	....	42	2390	6	2335	52	M39	42	...
2400	2420,00	2426	2685	....	44	2600	6	2545	56	M39	42	....
2600	2620,00	....	2905	....	46	2810	6	2750	60	M45	48	...
2800	2820,00	....	3115	....	48	3020	6	2960	64	M45	48	...
3000	3020,00	....	3315	....	50	3220	6	3160	68	M45	48	...
3200	3220,00	....	3525	....	54	3430	6	3370	72	M45	48	....

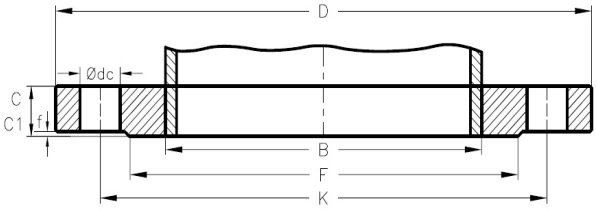




Pn10 DÜZ FLANŞLAR
PN10 STRAİGHT FLANGES
Standartlar / Standards EN 1092-1 - DIN 2573
Çalışma Basınç / Working Pressure (10-15 Bar)
Çalışma Sıcaklık / Operating temperature (-20+150°C)

Boru Ölçüsü Monimal Diamete	dbISO	B	D	C	C1	K	f	C1	Delik Sayısı (Bolt Holes)	Cıvata Çapı (Bolt Diameter)	dc	Ağırlık Weight
15	21	22	95	14	14	65	2	46	4	M12	14	0,67
20	26,9	27,5	105	16	16	75	2	56	4	M12	14	0,94
25	33,7	34,4	115	16	16	85	2	65	4	M12	14	1,11
32	42,4	43	140	18	16	100	2	76	4	M16	18	1,62
40	48,3	49	150	18	16	110	2	84	4	M16	18	1,86
50	60,3	61	165	20	18	125	2	99	4	M16	18	2,47
65	76,1	77	185	20	18	145	2	118	8	M16	18	3,00
80	88,9	90,3	200	20	20	160	2	132	8	M16	18	3,79
100	114,3	116	220	22	20	180	2	156	8	M16	18	4,04
125	139,7	141,6	250	22	22	210	2	184	8	M16	18	5,46
150	168,3	170,5	285	24	22	240	2	211	8	M20	22	6,67
200	219,7	221,8	340	24	24	295	2	266	8	M20	22	9,31
250	273	276,2	395	26	26	350	2	319	12	M20	22	11,90
300	323,9	237,6	445	28	26	400	2	370	12	M20	22	13,80
350	355,6	359,6	505	30	26	460	2	429	16	M20	22	19,00
400	406,4	411	565	32	26	515	2	480	16	M24	26	25,60
450	457	462	615	35	28	565	2	530	20	M24	26	35,60
500	508	513	670	38	28	620	2	582	20	M24	26	41,10
600	610	616	780	42	28	725	2	682	20	M27	30	54,00
700	711	717,4	895	50	30	840	2	794	24	M27	30	77,00
800	813	819	1015	56	32	950	5	901	24	M27	33	109,00
900	914,4	920	1115	62	34	1050	5	1001	28	M30	33	134,00
1000	1016	1022	1230	70	34	1160	5	1112	28	M33	36	179,00
1100	1120	1123	1340	76	36	1270	5	1220	32	M33	36	224,00
1200	1220	1225	1455	83	38	1380	5	1328	32	M36	39	280,00
1400	1420	1426	1675		42	1590	5	1530	36	M39	42	
1600	1620	1626	1915		46	1802	5	1750	40	M45	48	
1800	1820	1826	2115		50	2020	5	1950	44	M45	48	
2000	2020	2026	2325		54	2230	5	2150	48	M45	55	
2200	2220	2226	2550		58	2440	6	2370	52	M52	55	
2400	2420	2426	2760		62	2650	6	2570	56	M52	55	
2600	2620	2680	2960		66	2850	6	2780	60	M52	55	
2800	2820	2820	3180		70	3070	6	3000	64	M52	60	
3000	3020	3020	3045		75	3290	6	310	68	M56	60	

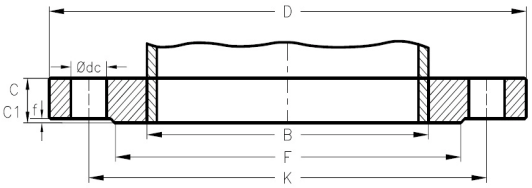




Pn16 DÜZ FLANŞLAR
PN16 STRAİGHT FLANGES
Standartlar / Standards EN 1092-1 - DIN 2576
Çalışma Basınç / Working Pressure (10-15 Bar)
Çalışma Sıcaklık / Operating temperature (-20+150°C)

BORU (PIPE)		FLANŞ/ FLANGE							CİVATA / BOLT			AĞIRLIK (WEIGHT)
Çap Diameter	db	B	D	EN 1092-1	DIN 2573	K	f	F	Delik Sayısı (Bolt Holes)	Civata Çapı (Bolt Diameter)	dc	
	DIN			C	C1							
15	21,30	22	95	14	14	65	2	46	4	M12	14	0,67
20	26,90	27,6	105	16	16	75	2	56	4	M12	14	0,94
25	33.70	34.4	115	16	16	85	2	65	4	M12	14	1,11
32	42.40	43.1	140	18	18	100	2	76	4	M16	18	1,62
40	48.30	49	150	18	18	110	2	84	4	M16	18	1,86
50	60.30	61.1	165	19	18	125	2	99	4	M16	18	2,47
65	76.10	77.1	185	20	10	145	2	118	4	M16	18	3,00
80	88.90	90.3	200	20	18	160	2	132	4	M16	18	3,79
100	114.30	115.9	220	22	20	180	2	156	4	M16	18	4,03
125	139.70	141.6	250	22	20	210	2	184	8	M16	18	5,46
150	168.30	170.5	285	24	22	240	2	211	8	M20	22	6,57
200	219.10	221.8	340	26	24	295	2	266	8	M20	22	10,90
250	273,00	276.2	405	29	26	350	2	319	12	M24	26	15,40
300	323.90	327.6	460	32	28	400	2	370	12	M24	26	21,30
350	355.60	359.7	520	35	30	460	2	429	12	M24	26	31,40
400	406.40	411	580	38	32	515	2	480	16	M27	30	40,00
450	457,00	462.5	640	42	32	565	2	548	16	M30	30	51,00
500	508,00	513.6	715	46	34	620	2	609	20	M30	33	70,00
600	610,00	616	840	52	36	725	2	720	20	M33	36	106,00
700	711,00	717.5	910	60	38	840	5	794	24	M33	36	120,00
800	813,00	819	1025	68	38	950	5	900	24	M36	39	163,00
900	914,00	920	1125	76	40	1050	5	1001	24	M36	39	201,00
1000	1016,00	1022	1255	84	42	1160	5	1112	28	M40	42	285,00
1200	1220,00	1225	1485	98	48	1380	5	1328	32	M45	48	445,00
1400	1420,00	1426	1685		52	1590	5	1530	36	M45	48	...
1600	1620,00	1626	1930		58	1802	5	1750	40	M52	56	...
1800	1820,00	1826	2130		62	2020	5	1950	44	M52	56	...
2000	2020,00	2026	2345		66	2230	5	2150	48	M56	62	...





Pn25 DÜZ FLANŞLAR
PN25 STRAİGHT FLANGES
Standartlar /Standards EN 1092-1 -DIN 2576
Çalışma Basınç /Working Pressure (25-40 Bar)
Çalışma sıcaklık /Operating temperature (-20 +150°C)

BORU (PIPE)		FLANŞ/ FLANGE							CİVATA/ BOLT			
Çap Diameter	db DIN	B	D	EN 1092-1 C	DIN 2576 C1	K	f	F	Delik Sayısı (Bolt Holes)	Civata Çapı (Bolt Diameter)	dc	AĞIRLIK (WEIGHT)
200	219.10	221.8	360	32	34	310	2	278	12	M27	26	13,50
250	273,00	276.2	425	35	38	370	2	335	16	M30	30	19,00
300	323.90	327.6	485	38	42	430	2	395	16	M30	30	25,00
350	355.60	359.7	555	42	46	490	2	450	16	M32	33	40,00
400	406.40	411	620	46	50	550	2	505	16	M33	36	55,00
450	457,00	462.5	670	50	50	600	2	555	20	M33	36	67,00
500	508,00	513.6	730	56	52	660	3	615	20	M33	36	84,00
600	610,00	616,00	845	68	60	770	4	720	20	M36	39	122,00

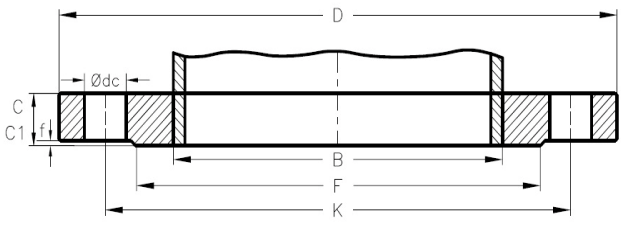
Pn40 DÜZ FLANŞLAR
PN40 STRAİGHT FLANGES
Standartlar Standards EN 1092-1 -DIN 2576
Çalışma Basınç Working Pressure (35-45 Bar)
Çalışma Sıcaklık Operating temperature (-20+150°C)

BORU (PIPE)		FLANŞ/ FLANGE							CİVATA/ BOLT			
Çap Diameter	db DIN	B	D	EN 1092 -1 C	DIN 2576 C1	K	f	F	Delik Sayısı (Bolt Holes)	Civata Çapı (Bolt Diameter)	dc	AĞIRLIK (WEIGHT)
15	21,30	22	95	14	16	65	2	46	4	M12	14	0,60
20	26,90	27,6	105	16	18	75	2	56	4	M12	14	0,85
25	33.70	34.4	115	16	18	85	2	65	4	M12	14	1,00
32	42.40	43.1	140	18	18	100	2	78	4	M16	18	1,68
40	48.30	49	150	18	18	110	2	84	4	M16	18	1,80
50	60.30	61.1	165	20	20	125	2	99	4	M16	18	2,40
65	76.10	77.1	185	22	22	145	2	118	8	M16	18	3,20
80	88.90	90.3	200	24	24	160	2	132	8	M16	18	4,00
100	114.30	115.9	235	26	24	190	2	156	8	M20	22	5,60
125	139.70	141.6	270	28	26	220	2	184	8	M24	26	7,60
150	168.30	170.5	300	30	28	250	2	211	8	M24	26	9,60
200	219.10	221.8	375	36	34	320	2	284	12	M27	30	17,00
250	273,00	276.2	450	42	38	385	2	345	12	M30	33	28,00
300	323.90	327.6	515	48	42	540	2	409	16	M30	33	43,00
350	355.60	359.7	580	54	46	510	2	465	16	M32	36	65,00
400	406.40	411	660	60	50	525	2	535	16	M36	39	95,00
450	457,00	462.5	685	66	50	585	2	560	20	M36	39	-
500	508,00	513.6	755	72	52	650	2	615	20	M38	42	-
600	610,00	616	890	84	60	770	2	725	20	M40	48	-

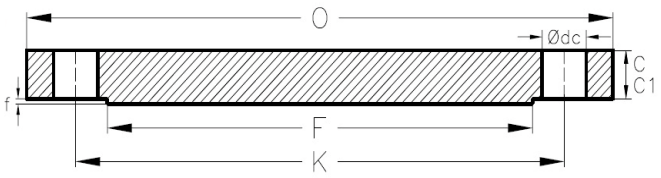
Pn63 DÜZ FLANŞLAR
PN63 STRAİGHT FLANGES
Standartlar Standards EN 1092-1 -DIN 2576
Çalışma Basınç Working Pressure (55-65 Bar)
Çalışma Sıcaklık Operating temperature (-20+150°C)

BORU (PIPE)		FLANŞ/ FLANGE							CİVATA/ BOLT			
Çap Diameter	db DIN	B	D	EN 1092-1 C	DIN 2576 C1	K	f	F	Delik Sayısı (Bolt Holes)	Civata Çapı (Bolt Diameter)	dc	AĞIRLIK (WEIGHT)
Dn15	21,3	22	105	20	20	75	2	45	4	M12	14	1,10
Dn20	26,9	27,6	130	22	22	90	2	58	4	M16	18	1,86
Dn25	33,7	34,4	140	24	24	100	2	68	4	M16	18	2,37
Dn32	42,4	43,1	155	24	24	110	3	78	4	M20	22	2,70
Dn40	48,3	49	170	26	26	125	3	88	4	M20	22	3,60
Dn50	60,3	61,1	180	26	26	135	3	102	4	M20	22	3,90
Dn65	76,1	71,1	205	26	26	160	3	122	8	M20	22	4,70
Dn80	88,9	90,3	215	30	28	170	3	138	8	M20	22	5,90
Dn100	114,3	115,9	250	32	30	200	3	162	8	M24	26	8,00
Dn125	139,7	141,6	295	34	34	240	3	188	8	M27	30	11,70
Dn150	168,3	170,5	345	36	36	280	3	218	12	M30	33	16,90
Dn200	219,1	221,5	415	48	42	345	3	285	12	M33	36	30,50
Dn250	273	276,2	470	55	46	400	3	345	12	M33	36	42,20
Dn300	323,9	327,6	530	65	52	460	4	410	16	M33	36	59,00
Dn350	355,6	359,7	600	72	56	525	4	465	16	M36	39	88,70
Dn400	406,4	411	670	80	60	585	4	535	16	M39	42	120,90





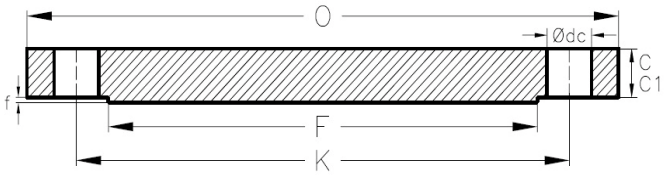




Pn6 KÖR FLANŞLAR
PN6 BLİND FLANGES
Standartlar / Standards EN 1092-1 - DIN 2573
Çalışma Basınç / Working Pressure (16-20 Bar)
Çalışma Sıcaklık / Operating temperature (-20+150°C)

BORU (PIPE)		FLANŞ/ FLANGE				CİVATA/ BOLT				
Çap Diameter	D	EN 1092 - 1	DIN 2573	F	f	Delik Sayısı (Bolt Holes)	Civata Çapı (Bolt Diameter)	dc	K	AĞIRLIK (WEIGHT)
		C	C1							
10	75	12	12	33	2	4	M10	11	50	0,38
15	80	12	12	38	2	4	M10	11	55	0,44
20	90	14	14	48	2	4	M10	11	65	0,65
25	100	14	14	58	2	4	M10	11	75	0,82
32	120	16	14	69	2	4	M12	14	90	1,17
40	130	16	14	78	2	4	M12	14	100	1,39
50	140	16	14	88	2	4	M12	14	110	1,62
65	160	16	14	108	2	4	M12	14	130	2,44
80	190	18	16	124	2	4	M16	18	150	3,43
100	210	18	16	144	2	4	M16	18	170	4,76
125	240	20	18	174	2	8	M16	18	200	6,11
150	265	20	18	199	2	8	M16	18	225	7,51
200	320	22	20	254	2	8	M16	18	280	12,30
250	375	24	22	309	2	12	M16	18	335	18,30
300	440	24	22	363	2	12	M20	22	395	25,30
350	490	26	22	413	2	12	M20	22	445	31,60
400	540	28	22	463	2	16	M20	22	495	38,40
450	595	30	22	518	2	16	M20	22	550	47,00
500	645	32	24	568	2	20	M20	22	600	60,40
600	755	36	24	667	2	20	M24	26	705	103,00
700	860	40	24	772	5	24	M24	26	810	178,00
800	975	44	24	878	5	24	M27	30	920	252,00
900	1075	48	26	978	5	24	M27	30	1020	336,00
1000	1175	52	26	1078	5	28	M27	30	1120	434,00
1200	1405	60	28	1295	5	32	M30	33	1340	720,00
1400	1630	68	32	1510	5	36	M33	35.5	1560	1110
1600	1830	76	34	1710	5	40	M33	35.5	1760	1550
1800	2045	84	36	1918	5	44	M36	39	1970	2100
2000	2265	92	38	2125	5	48	M39	42	2180	2850
2200	2475	....	42	2335	6	52	M39	42	2390	...
2400	2685	....	44	2545	6	56	M39	42	2600	....
2600	2905	....	46	2750	6	60	M45	48	2810	...
2800	3115	....	48	2960	6	64	M45	48	3020	...
3000	3315	....	50	3160	6	68	M45	48	3220	...

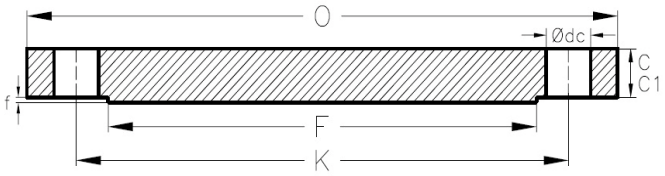




Pn10 KÖR FLANŞLAR
PN10 BLİND FLANGES
Standartlar / Standards EN 1092-1 - DIN 2527
Çalışma Basınç / Working Pressure (10-15 Bar)
Çalışma Sıcaklık / Operating temperature (-30+240°C)

Boru Ölçüsü Monimal Diamete	D	EN 1902-1 C	DIN 2527 C1	F	f	DelikSayısı (Bolt Holes)	Cıvata Çapı (Bolt Diameter)	dc	K	Ağırlık/ Weight
10	90	14	14	41	2	4	M12	14	60	0,63
15	95	14	14	46	2	4	M12	14	65	0,72
20	105	16	16	56	2	4	M12	14	75	1,10
25	115	16	16	65	2	4	M12	14	85	1,23
32	140	18	16	76	2	4	M16	18	100	1,80
40	150	18	16	84	2	4	M16	18	110	2,09
50	165	20	18	99	2	4	M16	18	125	2,88
65	185	20	18	118	2	8	M16	18	145	3,66
80	200	20	20	132	2	8	M16	18	160	4,77
100	220	22	20	156	2	8	M16	18	180	5,65
125	250	22	22	184	2	8	M16	18	210	8,42
150	285	24	22	211	2	8	M20	22	240	10,40
200	340	24	24	266	2	8	M20	22	295	16,50
250	395	26	26	319	2	12	M20	22	350	24,00
300	445	28	26	370	2	12	M20	22	400	30,90
350	505	30	26	429	2	16	M20	22	460	41,00
400	565	32	26	480	2	16	M24	26	515	50,00
450	615	35	28	530	2	20	M24	26	565	63,00
500	670	38	28	582	2	20	M24	26	620	75,00
600	780	42	28	682	2	20	M27	30	725	125,00
700	895	50	30	794	5	24	M27	30	840	185,00
800	1015	56	32	901	5	24	M27	33	950	260,00
900	1115	62	34	1001	5	28	M30	33	1050	345,00
1000	1230	70	34	1112	5	28	M33	36	1160	474,00
1200	1455	83	38	1328	5	32	M36	39	1380	780,00
1400	1675		42	1530	5	36	M39	42	1590	
1600	1915		46	1750	5	40	M45	48	1802	
1800	2115		50	1950	5	44	M45	48	2020	
2000	2325		54	2150	5	48	M45	55	2230	
2200	2550		58	2370	6	52	M52	55	2440	
2400	2760		62	2570	6	56	M52	55	2650	



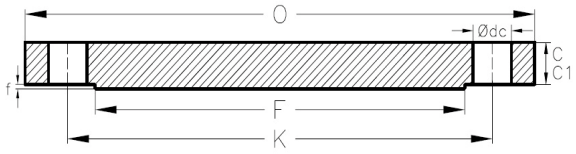


Pn16 KÖR FLANŞLAR
PN16 BLİND FLANGES
Standartlar / Standards EN 1092-1 - DIN 2527
Çalışma Basınç / Working Pressure (10-15 Bar)
Çalışma Sıcaklık / Operating temperature (-30+240°C)

Boru Ölçüsü Monimal Diamete	D	EN 1902-1 C	DIN 2527 C1	F	f	DelikSayısı (Bolt Holes)	Cıvata Çapı (Bolt Diameter)	dc	K	Ağırlık/ Weight
10	90	14	14	41	2	4	M12	14	60	0,63
15	95	14	14	46	2	4	M12	14	65	0,72
20	105	16	16	56	2	4	M12	14	75	1,10
25	115	16	16	65	2	4	M12	14	85	1,23
32	140	18	16	76	2	4	M16	18	100	1,80
40	150	18	16	84	2	4	M16	18	110	2,09
50	165	20	18	99	2	4	M16	18	125	2,88
65	185	20	18	118	2	8	M16	18	145	3,66
80	200	20	20	132	2	8	M16	18	160	4,77
100	220	22	20	156	2	8	M16	18	180	5,65
125	250	22	22	184	2	8	M16	18	210	8,42
150	285	24	22	211	2	8	M20	22	240	10,40
200	340	24	24	266	2	8	M22	22	295	16,50
250	405	26	26	319	2	12	M26	26	355	25,00
300	460	28	28	370	2	12	M26	26	410	35,00
350	520	30	30	429	2	16	M27	26	470	48,00
400	580	32	32	480	2	16	M27	30	525	64,00
450	640	35	34	530	2	20	M30	30	585	75,00
500	715	38	34	582	2	20	M33	33	650	100,00
600	840	42	36	682	2	20	M33	36	770	150,00
700	910	50	36	794	5	24	M36	36	840	173,00
800	1025	56	38	901	5	24	M36	39	950	235,00
900	1125	62	40	1001	5	28	M40	39	1050	299,00
1000	1255	70	42	1112	5	28	M40	42	1170	391,00
1200	1455	83	48	1328	5	32	M45	48	1390	624,00
1400	1685		52	1530	5	36	M45	48	1590	
1600	1903		58	1750	5	40	M52	56	1820	
1800	2130		62	1950	5	44	M52	56	2020	
2000	1345		66	2150	5	48	M56	60	2230	

Pn25 KÖR FLANŞLAR
PN25 BLİND FLANGES
Standartlar / Standards EN 1092-1 - DIN 2573
Çalışma Basınç / Working Pressure (25-30 Bar)
Çalışma Sıcaklık / Operating temperature (-30+240°C)





BORU (PIPE)		Pn25 FLANŞ/FLANGE DN15-DN150 ARASI PN40 BAKINIZ				CİVATA/ BOLT				AĞIRLIK (WEIGHT)
Çap Diameter	D	EN 1092-1	DIN 2527	F	f	Delik Sayısı (Bolt Holes)	Civata Çapı (Bolt Diameter)	dc		
		C	C1							
200	360	32	30	274	21	12	M27	26	310	22,3
250	425	35	32	330	21	16	M27	30	370	33,5
300	485	38	34	389	21	16	M30	30	430	46,30
350	555	42	38	448	21	16	M30	33	490	68,00
400	620	46	40	503	21	16	M33	36	550	90,00
450	670	50	42	548	22	20	M33	36	600	115,00
500	730	56	44	609	22	20	M33	36	660	138,00
600	845	68	46	720	22	20	M36	39	770	250,00
700	960	85	46	820	52	24	M39	42	875	-
800	1085	95	50	928	52	24	M45	48	990	-
900	1185	-	54	1030	52	28	M45	48	1090	-
1000	1320	-	58	1140	52	28	M52	56	1210	-
1200	1530	-	64	1350	53	32	M52	56	1420	-

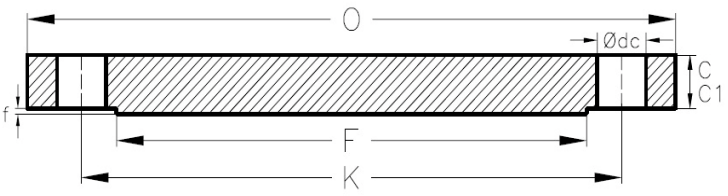
Pn40 KÖR FLANŞLAR
PN40 BLİND FLANGES
Standartlar / Standards EN 1092-1 - DIN 2573
Çalışma Basınç / Working Pressure (35-45 Bar)
Çalışma Sıcaklık / Operating temperature (-30+240°C)

BORU (PIPE)		PN 40 FLANŞ/ FLANGE				CİVATA/ BOLT				AĞIRLIK (WEIGHT)
Çap Diameter	D	EN 1092 -1	DIN 2527	F	f	Delik Sayısı (Bolt Holes)	Civata Çapı (Bolt Diameter)	dc	K	
		C	C1							
15	95	14	16	46	2	4	M12	14	65	0,81
20	95	14	16	56	2	4	M12	14	75	1,24
25	105	16	18	65	2	4	M12	14	85	1,38
32	140	18	18	76	2	4	M16	18	100	2,03
40	150	18	18	84	2	4	M16	18	110	2,35
50	165	20	18	99	2	4	M16	18	125	3,20
65	185	22	20	118	2	8	M16	18	145	4,29
80	200	24	22	132	2	8	M16	18	160	5,88
100	235	26	24	156	2	8	M20	22	190	7,54
125	270	28	26	184	2	8	M24	26	220	10,08
150	300	30	28	211	2	8	M24	26	250	14,50
200	375	36	34	284	2	12	M27	30	320	27,20
250	450	42	38	345	2	12	M30	33	385	43,80
300	515	48	42	409	2	16	M30	33	450	63,30
350	580	55	46	465	2	16	M32	36	510	89,50
400	660	60	50	535	2	16	M36	39	585	127,00
450	685	66	52	560	2	20	M36	39	610	172,00
500	755	72	52	615	2	20	M40	42	670	175,00
600	890	84	60	735	2	20	M45	48	795	225,00

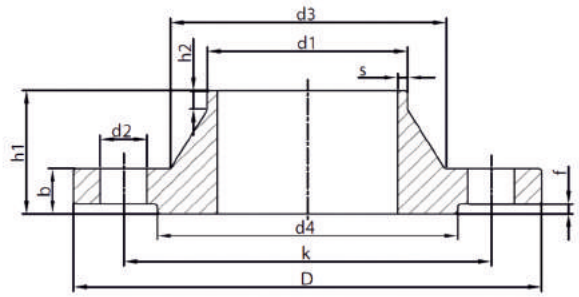
Pn63 KÖR FLANŞLAR
PN63 BLİND FLANGES
Standartlar / Standards EN 1092-1 - DIN 2573
Çalışma Basınç / Working Pressure (55-60 Bar)
Çalışma Sıcaklık / Operating temperature (-30+240°C)

BORU (PIPE)		PN 40 FLANŞ/ FLANGE				CİVATA/ BOLT				
Çap Diameter	D	EN 1092-1	DIN 2527	F	f	Delik Sayısı (Bolt Holes)	Civata Çapı (Bolt Diameter)	dc	K	AĞIRLIK (WEIGHT)
		C	C1							
15	105	20	20	45	2	4	M12	14	65	1,20
20	130	22	24	58	2	4	M16	18	75	2,30
25	140	24	24	68	2	4	M16	18	85	2,70
32	155	24	24	78	3	4	M20	22	100	3,20
40	170	28	26	88	3	4	M20	22	110	4,20
50	180	28	26	102	3	4	M20	22	125	4,70
65	205	28	26	122	3	8	M20	22	145	6,20
80	215	31	28	138	3	8	M20	22	160	7,40
100	250	33	30	162	3	8	M24	26	190	10,80
125	295	37	34	188	3	8	M27	30	220	17,10
150	345	39	36	218	3	8	M30	33	250	24,90
200	415	46	42	285	3	12	M33	36	320	43,00
250	470	50	46	345	3	12	M33	36	385	60,00
300	530	57	52	410	4	16	M33	36	450	87,00
350	600	61	56	465	4	16	M36	39	510	120,00
400	670	65	60	535	4	16	M39	42	585	162,00





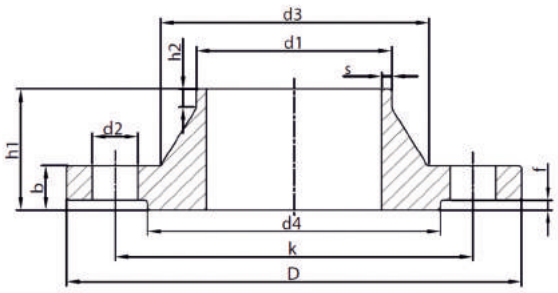




PN10 KAYNAK BOYUNLU FLANŞLAR
PN10 WELDING NECK FLANGES
Standartlar /Standards EN 1092-1 -DIN 2633
Çalışma Basınç /Working Pressure (16-20 Bar)
Çalışma sıcaklık /Operating temperature (-20 +150°C)

Boru Ölçüsü	Flanş Ölçüleri / Flange Dimensions					Boyun / Neck				Fatura Raised Face		Cıvata / Bolt			Ağırlık / Weight
MonimalDiameter	d1	k	D	b	h1	d3	s	r	h2	d4	f	d2	m	n	kg / ad kg / pcs
Dn15	21,30	65	80	16	38	32	2,0	4	6	45	2	14	M12	4	0,77
Dn20	26,90	75	90	18	40	40	2,3	4	6	58	2	14	M12	4	1,09
Dn25	33,70	85	100	18	40	46	2,6	4	6	68	2	14	M12	4	1,31
Dn32	42,40	100	120	18	42	56	2,6	6	6	78	2	18	M16	4	1,89
Dn40	48,30	110	130	18	45	64	2,6	6	7	88	3	18	M16	4	2,13
Dn50	60,30	125	140	18	45	74	2,9	6	8	102	3	18	M16	4	2,53
Dn65	76,10	145	160	18	45	92	2,9	6	10	122	3	18	M16	8	3,02
Dn80	88,90	160	190	20	50	105	3,2	6	10	138	3	18	M16	8	3,93
Dn100	114,30	180	210	20	52	131	3,6	8	12	158	3	18	M16	8	4,57
Dn125	139,70	210	240	22	55	156	4	8	12	188	3	18	M16	8	6,25
Dn150	168,30	240	265	22	55	184	4,5	10	12	212	3	22	M20	8	7,62
Dn200	219,10	295	320	24	62	235	6,3	10	16	268	3	22	M20	8	11,6
Dn250	273,00	350	375	26	68	292	6,3	12	16	320	3	22	M20	12	15,5
Dn300	323,90	400	440	26	68	344	7,1	12	16	370	4	22	M20	12	18,2
Dn350	355,60	460	490	26	68	390	7,1	12	16	430	4	22	M20	16	25,3
Dn400	406,40	515	540	26	72	445	7,1	12	16	482	4	26	M24	16	30,8
Dn450	457,00	565	595	26	72	490	7,1	12	16	532	4	26	M24	20	34,8
Dn500	508,00	620	645	28	75	548	7,1	12	16	585	4	26	M24	20	41
Dn600	610,00	725	755	30	82	670	8	12	18	685	5	30	M27	20	58,7
Dn700	711,00	840	860	35	85	755	8,8	12	18	800	5	30	M27	24	77,7
Dn800	813,00	950	975	38	96	855	8,8	12	18	905	5	33	M30	24	104
Dn900	914,00	1050	1075	38	99	955	12,5	12	20	1005	5	33	M30	28	124
Dn1000	1016,00	1116	1175	44	105	1058	12,5	16	20	1110	5	36	M33	28	162
Dn1100	1116,00	1270	1305	50	120	1160	12,5	16	25	1218	5	36	M33	32	211
Dn1200	1220,00	1380	1405	55	132	1262	12,5	16	25	1330	5	39	M36	32	261
Dn1300	1320,00	1490	1520	60	138	1364	12,5	16	25	1440	5	42	M39	32	326
Dn1400	1420,00	1590	1630	65	243	1465	14,2	16	25	1535	5	42	M39	36	381
Dn1500	1524,00	1700	1730	70	150	1566	16	16	25	1648	5	42	M39	36	454
Dn1600	1620,00	1820	1830	75	159	1668	16	16	25	1760	5	48	M45	40	567
Dn1800	1820,00	2020	2045	85	185	1870	17,5	16	30	1960	5	48	M45	44	727
Dn2000	2020,00	2230	2265	90	186	2072	17,5	16	30	2170	5	48	M45	48	880

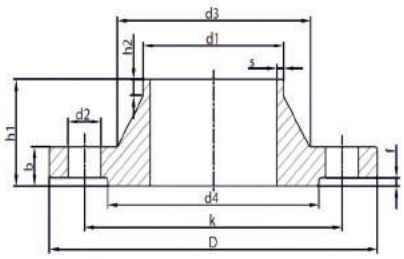




Pn6 KAYNAK BOYUNLU FLANŞLAR
PN6 WELDING NECK FLANGES
Standartlar /Standards EN 1092-1 -DIN 2633
Çalışma Basınç /Working Pressure 6-10 Bar)
Çalışma sıcaklık /Operating temperature (-20 +150°C)

Boru Ölçüsü	Flanş Ölçüleri / Flange Dimensions					Boyun / Neck				Fatura Raised Face		Cıvata / Bolt			Ağırlık / Weight
MonimalDiameter	d1	k	D	b	h1	d3	s	r	h2	d4	f	d2	m	n	kg / ad kg / pcs
Dn15	21,30	55	80	12	30	30	2,00	4	6	40	2	11	M10	4	0,40
Dn20	26,90	65	90	14	32	38	2,30	4	6	50	2	11	M10	4	0,62
Dn25	33,70	75	100	14	35	42	2,60	4	6	60	2	11	M10	4	0,76
Dn32	42,40	90	120	14	35	55	2,60	6	6	70	2	14	M12	4	1,08
Dn40	48,30	100	130	14	38	62	2,60	6	7	80	3	14	M12	4	1,23
Dn50	60,30	110	140	14	38	74	2,90	6	8	90	3	14	M12	4	1,41
Dn65	76,10	130	160	14	38	88	2,90	6	9	110	3	14	M12	4	1,75
Dn80	88,90	150	190	16	42	102	3,20	8	10	128	3	18	M16	4	2,80
Dn100	114,30	170	210	16	45	130	3,60	8	10	148	3	18	M16	4	3,33
Dn125	139,70	200	240	18	48	155	4,00	8	10	178	3	18	M16	8	4,57
Dn150	168,30	225	265	18	48	184	4,50	10	12	202	3	18	M16	8	5,25
Dn200	219,10	280	320	20	55	236	5,90	10	15	258	3	18	M16	8	8,31
Dn250	273,00	335	375	22	60	290	6,30	12	15	312	3	18	M16	12	11,30
Dn300	323,90	395	440	22	62	342	7,10	12	15	365	4	22	M20	12	14,80
Dn350	355,60	445	490	22	62	385	7,10	12	15	415	4	22	M20	12	19,60
Dn400	406,40	495	540	22	65	438	7,10	12	15	465	4	22	M20	16	22,50
Dn450	457,00	550	595	22	65	492	7,10	12	15	520	4	22	M20	16	26,30
Dn500	508,00	600	645	24	68	538	7,10	12	15	570	4	22	M20	20	30,20
Dn600	610,00	705	755	24	70	640	7,10	12	16	670	5	26	M24	20	36,70
Dn700	711,00	810	860	24	70	740	7,10	12	16	775	5	26	M24	24	43,10
Dn800	813,00	920	975	24	70	842	7,10	12	16	880	5	30	M27	24	51,60
Dn900	914,00	1020	1075	26	70	942	7,10	12	16	980	5	30	M27	24	60,70
Dn1000	1016,00	1120	1175	26	70	1045	7,10	16	16	1080	5	30	M27	28	66,50
Dn1100	1116,00	1240	1305	28	80	1146	8,00	16	20	1200	5	30	M33	28	95,70
Dn1200	1220,00	1340	1405	28	90	1248	8,00	16	20	1295	5	33	M30	32	104,50
Dn1300	1320,00	1450	1520	30	90	1350	8,00	16	20	1405	5	36	M33	32	126,50
Dn1400	1420,00	1560	1630	32	90	1452	8,00	16	20	1510	5	36	M33	36	148,60
Dn1500	1524,00	1660	1730	32	90	1554	9,00	16	20	1615	5	36	M33	36	159,50
Dn1600	1620,00	1760	1830	34	90	1655	9,00	16	20	1710	5	36	M33	40	181,60
Dn1800	1820,00	1970	2045	36	100	1855	10,00	16	20	1920	5	39	M36	44	235,10
Dn2000	2020,00	2180	2265	38	110	2058	11,00	16	25	2125	5	42	M39	48	304,30



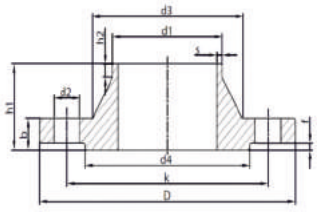


Pn16 KAYNAK BOYUNLU FLANŞLAR
PN16 WELDING NECK FLANGES
Standartlar / Standards EN 1092-1 - DIN 2633
Çalışma Basınç / Working Pressure (16-20 Bar)
Çalışma Sıcaklık / Operating temperature (-20+150°C)

Boru Ölçüsü	Flanş Ölçüleri / Flange Dimensions					Boyun / Neck				Fatura Raised Face		Cıvata / Bolt			Ağırlık / Weight
MonimalDiameter	d1	k	D	b	h1	d3	s	r	h2	d4	f	d2	m	n	kg / ad kg / pcs
Dn15	21,30	65	95	16	38	32	2,0	4	6	45	2	14	M12	4	0,77
Dn20	26,90	75	105	18	40	40	2,3	4	6	58	2	14	M12	4	1,09
Dn25	33,70	85	115	18	40	46	2,6	4	6	68	2	14	M12	4	1,31
Dn32	42,40	100	140	18	42	56	2,6	6	6	78	2	18	M12	4	1,89
Dn40	48,30	110	150	18	45	64	2,6	6	7	88	3	18	M12	4	2,13
Dn50	60,30	125	165	18	45	74	2,9	6	8	102	3	18	M12	4	2,53
Dn65	76,10	145	185	18	45	92	2,9	6	10	122	3	18	M16	8	3,02
Dn80	88,90	160	200	20	50	105	3,2	6	10	138	3	18	M16	8	3,93
Dn100	114,30	180	220	20	52	131	3,6	8	12	158	3	18	M16	8	4,57
Dn125	139,70	210	250	22	55	156	4	8	12	188	3	18	M16	8	6,25
Dn150	168,30	240	285	22	55	184	4,5	10	12	212	3	22	M22	8	7,62
Dn200	219,10	295	340	24	62	235	6,3	10	16	268	3	22	M22	8	11,60
Dn250	273,00	350	405	26	70	292	6,3	12	16	320	3	22	M24	12	16,50
Dn300	323,90	400	460	28	78	344	7,1	12	16	370	4	22	M24	12	22,00
Dn350	355,60	460	520	30	82	390	7,1	12	16	430	4	22	M24	16	33,00
Dn400	406,40	515	580	32	85	445	7,1	12	16	482	4	26	M24	16	41,00
Dn450	457,00	565	640	34	85	490	7,1	12	16	532	4	26	M24	20	48,00
Dn500	508,00	620	715	36	83	548	7,1	12	16	585	4	26	M24	20	63,00
Dn600	610,00	725	840	40	88	670	8	12	28	685	5	30	M27	20	96,00
Dn700	711,00	840	910	40	104	755	8,8	12	28	800	5	30	M30	24	98,00
Dn800	813,00	950	1025	41	108	855	8,8	12	20	905	5	33	M30	24	124,00
Dn900	914,00	1050	1125	48	118	955	12,5	12	20	1005	5	33	M33	28	157,00
Dn1000	1016,00	1160	1255	59	137	1058	12,5	16	22	1110	5	36	M33	28	234,00
Dn1100	1116,00	1380	1485	68	150	1160	12,5	16	22	1218	5	36	M36	32	290,00
Dn1200	1220,00	1590	1685	78	160	1262	12,5	16	30	1330	5	39	M36	32	392,00
Dn1300	1320,00	1802	1930	81	170	1364	12,5	16	30	1440	5	42	M40	32	442,00
Dn1400	1420,00	2020	2130	84	177	1465	14,2	16	30	1535	5	42	M45	36	506,00
Dn1500	1524,00	2230	2345	92	190	1566	16	16	30	1648	5	42	M45	36	628,00
Dn1600	1620,00	1820	1830	102	204	1668	16	16	35	1760	5	48	M52	40	788,00
Dn1800	1820,00	2020	2045	110	218	1870	17,5	16	35	1960	5	48	M52	44	974,00
Dn2000	2020,00	2230	2265	124	238	2072	17,5	16	40	2170	5	48	M56	48	1256,00

Pn25 KAYNAK BOYUNLU FLANŞLAR
PN25 WELDING NECK FLANGES
Standartlar / Standards EN 1092-1 - DIN 2633
Çalışma Basınç / Working Pressure (25-45 Bar)
Çalışma Sıcaklık / Operating temperature (20+150°C)





Ebat / Size	Flanş Ölçüleri / Flange Dimensions					Boyun / Neck				Fatura Raised Face		Cıvata / Bolt			Ağırlık / Weight
	d1	k	D	b	h1	d3	s	r	h2	d4	f	d2	m	n	kg / ad kg / pcs
Dn200	219,1	310	360	30	80	80	6,3	10	16	278	3	26	M24	12	17,20
Dn250	273	370	425	32	88	88	7,1	12	18	335	3	30	M27	12	24,30
Dn300	323,9	430	485	34	92	92	8	12	18	395	4	30	M27	16	31,90
Dn350	355,6	490	555	38	100	100	8	12	20	450	4	33	M27	16	49,30
Dn400	406,4	550	620	40	110	110	8,8	12	20	505	4	36	M27	16	64,30
Dn450	457	605	675	42	118	118	8,8	12	20	560	4	36	M33	20	76,70
Dn500	508	660	730	44	125	125	10	12	20	615	4	36	M33	20	93,10
Dn600	610	770	845	46	125	125	11	12	20	720	5	39	M36	20	119,10

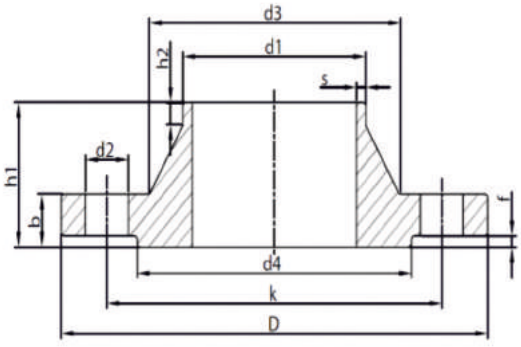
Pn40 KAYNAK BOYUNLU FLANŞLAR
PN40 WELDING NECK FLANGES
Standartlar / Standards EN 1092-1 - DIN 2633
Çalışma Basınç /Working Pressure (40-45 Bar)
Çalışma Sıcaklık / Operating temperature (-20+150°C)

Ebat / Size	Flanş Ölçüleri / Flange Dimensions					Boyun / Neck				Fatura Raised Face		Cıvata / Bolt			Ağırlık / Weight
	d1	k	D	b	h1	d3	s	r	h2	d4	f	d2	m	n	kg / ad kg / pcs
Dn15	21,3	65	95	16	38	32	2	4	6	45	2	14	M12	4	0,770
Dn20	26,9	75	105	18	40	40	2,3	4	6	58	2	14	M12	4	1,090
Dn25	33,7	85	115	18	40	46	2,6	4	6	68	2	14	M12	4	1,310
Dn32	42,4	100	140	18	42	56	2,6	6	6	78	2	18	M16	4	1,890
Dn40	48,3	110	150	18	45	64	2,6	6	7	88	3	18	M16	4	2,130
Dn50	60,3	125	165	20	48	75	2,9	6	8	102	3	18	M16	4	2,830
Dn65	76,1	145	185	22	52	90	2,9	6	10	122	3	18	M16	8	3,680
Dn80	88,9	160	200	24	58	105	3,2	8	12	138	3	18	M16	8	4,750
Dn100	114,3	190	235	24	65	134	3,6	8	12	162	3	22	M20	8	6,460
Dn125	139,7	220	270	26	68	162	4	8	12	188	3	26	M24	8	8,880
Dn150	168,3	250	300	28	75	192	4,5	10	12	218	3	26	M24	8	11,600
Dn200	219,1	320	375	34	88	244	6,3	10	16	285	3	30	M24	12	21,100
Dn250	273	385	450	38	105	306	7,1	12	18	345	3	33	M30	12	34,500
Dn300	323,9	450	515	42	115	362	8	12	18	410	4	33	M30	16	48,100
Dn350	355,6	510	580	46	125	408	8,8	12	20	465	4	26	M24	16	73,000
Dn400	406,4	585	660	50	135	462	11	12	20	535	4	39	M36	16	100,000
Dn450	457	610	685	57	135	500	12,5	12	20	560	4	39	M36	20	106,000
Dn500	508	670	755	57	140	562	14,2	12	20	615	4	42	M39	20	132,000
Dn600	610	795	890	72	150	666	16	12	20	735	5	48	M45	20	212,000

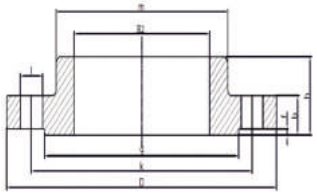
Pn63 KAYNAK BOYUNLU FLANŞLAR
PN63 WELDING NECK FLANGES
Standartlar /Standards EN 1092-1 -DIN 2633
Çalışma Basınç /Working Pressure (55-65 Bar)
Çalışma sıcaklık /Operating temperature (-20 +150°C)

Ebat / Size	Flanş Ölçüleri / Flange Dimensions					Boyun / Neck				Fatura Raised Face		Cıvata / Bolt			Ağırlık / Weight
	d1	k	D	b	h1	d3	s	r	h2	d4	f	d2	m	n	kg / ad kg / pcs
Dn15	21,3	75	105	20	45	34	2	4	6	45	2	14	M12	4	1,26
Dn20	26,9	90	130	22	48	42	2,3	4	8	58	2	18	M16	4	2,13
Dn25	33,7	100	140	24	58	52	2,6	4	8	68	2	18	M16	4	2,83
Dn32	42,4	110	155	24	60	62	2,6	6	8	78	3	22	M20	4	3,3
Dn40	48,3	125	170	26	62	70	2,6	6	40	88	3	22	M20	4	4,32
Dn50	60,3	135	180	26	62	82	2,9	6	40	102	3	22	M20	4	4,87
Dn65	76,1	160	205	26	68	98	2,9	6	12	122	3	22	M20	8	6,2
Dn80	88,9	170	215	28	72	112	3,2	8	12	138	3	22	M20	8	7,4
Dn100	114,3	200	250	30	78	138	3,6	8	12	162	3	26	M24	8	10,16
Dn125	139,7	240	295	34	88	168	4	8	12	188	3	30	M27	8	15,5
Dn150	168,3	280	345	36	95	202	4,5	10	12	218	3	33	M30	8	22,1
Dn200	219,1	345	415	42	110	256	6,3	10	16	285	3	36	M33	12	37,1
Dn250	273	400	470	46	125	316	7,1	12	18	345	3	36	M33	12	51,8
Dn300	323,9	460	530	52	140	372	8	12	18	410	4	36	M33	16	72,7
Dn350	355,6	525	600	56	150	420	8,8	12	20	465	4	39	M36	16	106
Dn400	406,4	585	670	60	160	475	11	12	20	535	4	42	M39	16	144









150LB SLİP-ON FLANŞ
150LB BLİNG FLANGE
Standartlar / Standards ANSI B16.5 / EN1759-1

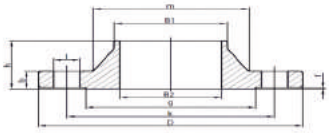
Ebat/ Size	D	b	g	m	B2	h	k	f	n	I	kg / ad kg / pcs
1/2”	89,00	11,10	34,90	30,20	22,30	15,90	60,30	1,60	4,00	15,90	0,40
3/4”	98,00	12,70	42,90	38,10	27,70	15,90	69,80	1,60	4,00	15,90	0,56
1”	108,00	14,30	50,80	49,20	34,50	17,50	79,40	1,60	4,00	15,90	0,78
1 1/4”	117,00	15,90	63,50	58,80	43,20	20,60	88,90	1,60	4,00	15,90	1,02
1 1/2”	127,00	17,50	73,00	65,10	49,50	22,20	98,40	1,60	4,00	15,90	1,32
2”	152,00	19,00	92,10	77,80	62,00	25,40	120,60	1,60	4,00	19,00	2,05
2 1/2”	178,00	22,20	104,80	90,50	74,70	28,60	139,70	1,60	4,00	19,00	3,29
3”	190,00	23,80	127,00	107,90	90,70	30,20	152,40	1,60	4,00	19,00	3,83
3 1/2”	216,00	23,80	139,70	122,20	103,40	31,70	177,80	1,60	8,00	19,00	4,82
4”	229,00	23,80	157,20	134,90	116,10	33,30	190,50	1,60	8,00	19,00	5,33
5”	254,00	23,80	185,70	163,60	143,80	36,50	215,90	1,60	8,00	22,20	6,08
6”	279,00	25,40	215,90	192,10	170,70	39,70	241,30	1,60	8,00	22,20	7,43
8”	343,00	28,60	269,90	246,10	221,50	44,40	298,40	1,60	8,00	22,20	12,10
10”	406,00	30,20	323,80	304,80	276,30	49,20	362,00	1,60	12,00	25,40	16,50
12”	483,00	31,80	381,00	365,10	327,10	55,60	431,80	1,60	12,00	25,40	26,30
14”	533,00	34,90	412,70	400,00	359,10	57,10	476,20	1,60	12,00	28,60	34,50
16”	597,00	36,50	469,90	457,20	410,50	63,50	539,70	1,60	16,00	28,60	44,90
18”	635,00	39,70	533,40	504,80	461,80	68,30	577,80	1,60	16,00	31,80	48,90
20”	698,00	42,90	584,20	558,80	513,10	73,00	635,00	1,60	20,00	31,80	61,80
22”	750,00	46,00	641,20	609,60	564,40	79,40	692,10	1,60	20,00	34,90	72,00
24”	813,00	47,60	692,10	663,60	615,90	82,50	749,30	1,60	20,00	34,90	87,20

300LB SLİP-ON FLANŞ
300LB BLİNG FLANGE
Standartlar / Standards ANSI B16.5 / EN1759-1

Ebat/ Size	D	b	g	m	B2	h	k	f	n	I	kg / ad kg / pcs
1/2”	96	14,3	34,9	38,1	22,3	22,2	66,7	1,6	4	15,9	0,65
3/4”	118	15,9	42,9	47,6	27,7	25,4	82,5	1,6	4	19	1,12
1”	124	17,5	50,8	54	34,5	27	88,9	1,6	4	19	1,36
1 1/4”	133	19	63,5	63,5	43,2	27	98,4	1,6	4	19	1,68
1 1/2”	156	20,6	73	69,8	49,5	30,2	114,3	1,6	4	22,2	2,49
2”	165	22,2	92,1	84,1	62	33,3	127	1,6	8	19	2,88
2 1/2”	191	25,4	104,8	100	74,7	38,1	149,2	1,6	8	22,2	4,33
3”	210	28,6	127	117,5	90,7	42,9	168,3	1,6	8	22,2	5,85
3 1/2”	229	30,2	139,7	133,3	103,4	44,4	184,1	1,6	8	22,2	7,35
4”	254	31,7	157,2	146	116,1	47,6	200	1,6	8	22,2	9,63
5”	279	34,9	185,7	177,8	143,8	50,8	234,9	1,6	8	22,2	12,2
6”	318	36,5	215,9	206,4	170,7	52,4	269,9	1,6	12	22,2	15,7
8”	381	41,3	269,9	260,3	221,5	61,9	330,2	1,6	12	25,4	24,3
10”	445	47,6	323,8	320,7	276,3	66,7	387,3	1,6	16	28,6	34,1
12”	521	50,8	381	374,6	327,1	73	450,8	1,6	16	31,7	49,9
14”	584	54	412,7	425,4	359,1	76,2	514,3	1,6	20	31,7	69,7
16”	648	57,1	469,9	482,6	410,5	82,5	571,5	1,6	20	34,9	88,2
18”	711	60,3	533,4	533,4	461,8	88,9	628,6	1,6	24	34,9	108,6
20”	775	63,5	584,2	584,2	513,1	95,2	685,8	1,6	24	34,9	133,5
22”	838	66,7	641,2	641,2	564,4	101,6	742,9	1,6	24	41,3	158,7
24”	914	69,8	692,1	701,7	615,9	106,4	812,8	1,6	24	41,3	201,5

150LB KAYNAK BOYUNLU FLANŞ
150LB WELDING NECK FLANGE
Standartlar / Standards ANSI B16.5 / EN1759-1

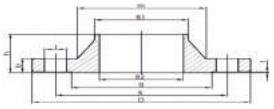




Ebat/ Size	D	b	g	m	B1	B2	h	k	n	f	ı	kg / ad kg / pcs
1/2”	89	11,1	34,9	30,2	21,3	15,7	47,6	60,3	4	1,6	15,9	0,50
3/4”	98	12,7	42,9	38,1	26,7	20,8	52,4	69,8	4	1,6	15,9	0,70
1”	108	14,3	50,8	49,2	33,5	26,7	55,6	79,4	4	1,6	15,9	1,10
1 1/4”	117	15,9	63,5	58,8	42,2	35,1	57,1	88,9	4	1,6	15,9	1,50
1 1/2”	127	17,5	73	65,1	48,3	40,9	61,9	98,4	4	1,6	15,9	1,80
2”	152	19	92,1	77,8	60,3	52,6	63,5	120,6	4	1,6	19	2,70
2 1/2”	178	22,2	104,8	90,5	73,1	62,7	69,8	139,7	4	1,6	19	4,40
3”	190	23,8	127	107,9	88,9	78	69,8	152,4	4	1,6	19	5,20
3 1/2”	216	23,8	139,7	122,2	101,6	90,2	71,4	177,8	8	1,6	19	6,40
4”	229	23,8	157,2	134,9	114,3	102,4	76,2	190,5	8	1,6	19	7,50
5”	254	23,8	185,7	163,5	141,2	128,3	88,9	215,9	8	1,6	22,2	9,20
6”	279	25,4	215,9	192,1	168,3	154,2	88,9	241,3	8	1,6	22,2	11,00
8”	343	28,6	269,9	246,1	219,1	202,7	101,6	298,4	8	1,6	22,2	18,30
10”	406	30,2	323,8	304,8	273	254,5	101,6	362	12	1,6	25,4	25,00
12”	483	31,8	381	365,1	323,8	304,8	114,3	431,8	12	1,6	25,4	39,00
14”	533	34,9	412,7	400	355,6	336,5	127	476,2	12	1,6	28,6	51,00
16”	597	36,5	469,9	457,2	406,4	387,3	127	539,7	16	1,6	28,6	60,00
18”	635	39,7	533,4	504,8	457,2	438,1	139,7	577,8	16	1,6	31,8	71,00
20”	698	42,9	584,2	558,8	508	488,9	144,5	635	20	1,6	31,8	88,00
22”	750	46	641,2	609,6	558,8	539,7	149,2	692,1	20	1,6	34,9	102,00
24”	813	47,6	692,1	663,6	609,6	590,5	152,4	749,3	20	1,6	34,9	119,00

300LB KAYNAK BOYUNLU FLANŞ
300LB WELDING NECK FLANGE
Standartlar / Standards ANSI B16.5 / EN1759-1

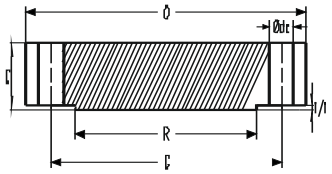




Ebat/ Size	D	b	g	m	B1	B2	h	k	n	f	ı	kg / ad kg / pcs
1/2”	95	14,3	34,9	38,1	21,3	15,7	52,4	66,7	4	1,6	15,9	0,90
3/4”	117	15,9	42,9	47,6	26,7	20,8	57,1	82,5	4	1,6	19	1,50
1”	124	17,5	50,8	54	33,5	26,7	61,9	88,9	4	1,6	19	1,90
11/4”	133	19	63,5	63,5	42,2	35,1	65,1	98,4	4	1,6	19	2,60
11/2”	156	20,6	73	69,8	48,3	40,9	68,3	114,3	4	1,6	22,2	3,30
2”	165	22,2	92,1	84,1	60,3	52,6	69,8	127	8	1,6	19	3,60
21/2”	190	25,4	104,8	100	73,1	62,7	76,2	149,2	8	1,6	22,2	5,40
3”	210	28,6	127	117,5	88,9	78	79,4	168,3	8	1,6	22,2	7,40
31/2”	229	30,2	139,7	133,3	101,6	90,2	81	184,1	8	1,6	22,2	8,90
4”	254	31,7	157,2	146	114,3	102,4	85,7	200	8	1,6	22,2	11,90
5”	279	34,9	185,7	177,8	141,2	128,3	98,4	234,9	8	1,6	22,2	16,00
6”	318	36,5	215,9	206,4	168,4	154,2	98,4	269,9	12	1,6	22,2	20,20
8”	381	41,3	269,9	260,3	219,1	202,7	111,1	330,2	12	1,6	25,4	31,00
10”	444	47,6	323,4	320,7	273	254,5	117,5	387,3	16	1,6	28,6	44,30
12”	521	50,8	381	374,6	323,9	304,8	130,2	450,8	16	1,6	31,7	64,00
14”	584	54	412,7	425,4	355,6	336,5	142,9	514,3	20	1,6	31,7	88,00
16”	648	57,1	469,9	482,6	406,4	387,3	146	571,5	20	1,6	34,9	113,00
18”	711	60,3	533,4	533,4	457,2	438,1	158,7	628,6	24	1,6	34,9	134,00
20”	775	63,5	584,2	587,4	508	488,9	161,9	685,8	24	1,6	34,9	171,00
22”	838	66,7	641,2	641,2	558,8	539,7	165,1	742,9	24	1,6	41,3	195,00
24”	914	69,8	692,1	701,7	609,6	590,5	168,3	812,8	24	1,6	41,3	238,00

150LB KÖR FLANŞ
150LB BLİNG FLANGE
Standartlar / Standards ANSI B16.5 / EN1759-1

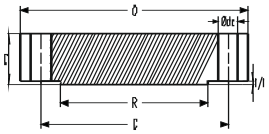




BORU ÇAPI PİPE DİAMETER		O	R	C	Cıvata çapı ve deliği (Screw Driling)				AĞIRLIK
DIN	NPS (inch)	mm	mm	mm	Dellik Sayısı (Bolt Holes)	G	dc		Kg.
15	1/2”	90	34,9	11,2	4	60,3	M12	15,9	0,47
20	3/4”	98	42,9	12,7	4	69,9	M16	15,9	0,63
25	1”	108	5,8	14,3	4	79,8	M16	15,9	0,94
32	1 1/4”	117	63,5	15,7	4	89,9	M20	15,9	1,23
40	1 1/2”	127	73	17,5	4	98,4	M20	15,9	1,62
50	2”	152	92,1	19,1	4	120,7	M20	19,1	2,64
65	2 1/2”	178	104,8	22,3	4	139,7	M20	19,1	4,06
80	3”	190	127	23,9	4	152,4	M20	19,1	4,9
100	4”	230	139,7	23,9	8	190,5	M24	19,1	7,41
125	5”	255	185,7	23,9	8	215,9	M27	19,1	8,76
150	6”	280	215,9	25,4	8	241,4	M30	22,2	11,31
200	8”	345	200	28,5	8	298,5	M33	22,2	19,92
250	10”	405	323,8	30,2	12	362	M33	25,4	29,39
300	12”	485	381	31,8	12	431,8	M33	25,4	43,7
350	14”	535	412,8	35	12	476,3	M36	28,6	59,42
400	16”	597	469,9	36,6	16	539,8	M39	28,6	77,11
450	18"	635	533,4	40	16	577	M36	28,6	95
500	20"	698	584,2	42,9	20	635	M39	28,6	123
600	24"	813	692,2	47,7	20	749	M39	28,6	186

300LB KÖR FLANŞ
300LB BLİNG FLANGE
Standartlar / Standards ANSI B16.5 / EN1759-1





BORU ÇAPI PİPE DİAMETER		O	R	C	Cıvata çapı ve deliği (Screw Driling)				AĞIRLIK
DIN	NPS (inch)	mm	mm	mm	Dellik Sayısı (Bolt Holes)	G	dc		Kg.
15	1/2”	95	34,9	14,2	4	66,7	M12	15,90	1,5
20	3/4”	117	42,9	15,7	4	82,6	M16	19,00	1,6
25	1”	124	5,8	17,5	4	88,9	M16	19,00	2
32	1 1/4”	133	63,5	19	4	98,4	M20	19,00	2,5
40	1 1/2”	156	73	20,6	4	114,3	M20	22,20	3
50	2”	165	92,1	22,4	8	127	M20	19,00	3,5
65	2 1/2”	190	104,8	25,4	8	149	M20	22,20	5,5
80	3”	210	127	28,4	8	169	M20	22,20	7
100	4”	229	139,7	31,8	8	200	M24	22,20	12
125	5”	279	185,7	35	8	235	M27	22,20	15,8
150	6”	318	215,9	36,6	12	270	M30	22,20	23
200	8”	381	200	41,1	12	330,2	M33	25,40	37
250	10”	444	323,8	47,8	16	387,4	M33	28,60	58
300	12”	521	381	50,8	16	450,8	M33	31,70	83
350	14”	584	412,8	53,8	20	514,4	M36	31,70	107
400	16”	648	469,9	57,2	20	571,5	M39	34,90	139
450	18"	711	533,4	60,5	24	628,6	M36	34,90	177
500	20"	775	584,2	63,5	24	685,8	M39	34,90	223
600	24"	914	692,2	69,9	24	812,8	M39	41,30	342

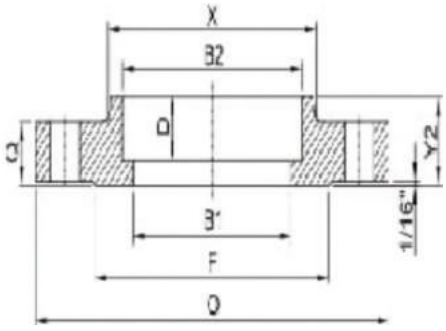
150LB SW-SOKET FLANŞ
150LB SW SOCKET FLANGE
Standartlar / Standards ANSI B16.5 / EN1759-1

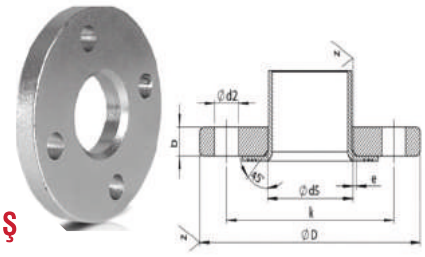
Boru Çapı Nomnal Pipe Size	Dış çap Qutside Diameter (mm)	Kalınlık Thickness (mm)	Fatura Çap- Raised Face Diameter	Boğaz Çap Bore	Boyun Uzunluğu Lenghth- Thru Hub	Soket Derinlik- Depth-of Socket	Boğaz Çap Bore	Boyun Çıkışı Hup Diameter	Ağırlık/ Weight
	O	Q	F	B1	Y2	D	B2	X	Kg
1/2"	90	9,6	34,9	15,8	14	10	22,2	30	0,47
3/4"	100	11,2	42,9	20,9	14	11	27,7	38	0,59
1"	110	12,7	50,8	36,6	16	13	34,5	49	0,87
1 1/4"	115	14,3	63,5	35,1	19	14	48,2	59	1,11
1 1/2"	125	15,9	73	40,9	21	16	49,5	65	1,45
2"	150	17,5	92,1	52,5	24	17	61,9	78	2,33
2 1/2"	180	20,7	104,8	62,7	27	19	74,6	90	3,55
3"	190	22,3	127	77,9	29	21	90,7	108	4,02
4"	230	22,3	157	102,3	32		116,1	135	5,99
5"	255	22,3	185,7	128,2	35		143,8	164	6,68
6"	280	23,9	215,9	154,1	38		170,7	192	7,99
8"	345	27	269,9	202,7	43		221,5	246	13,29
10"	405	28,6	323,8	254,6	48		276,12	305	19,5
12"	485	30,2	381	304,8	54		327	365	29,03

300LB SW-SOKET FLANŞ
300LB SW SOCKET FLANGE
Standartlar / Standards ANSI B16.5 / EN1759-1

Boru Çapı Nomnal Pipe Size	Dış çap Qutside Diameter (mm)	Kalınlık Thickness (mm)	Fatura Çap- Raised Face Diameter	Boğaz Çap Bore	Boyun Uzunluğu Lenghth- Thru Hub	Soket Derinlik- Depth-of Socket	Boğaz Çap Bore	Boyun Çıkışı Hup Diameter	Ağırlık/ Weight
	O	Q	F	B1	Y2	D	B2	X	Kg
1/2"	95	12,7	34,9	15,8	21	10,20	22,20	38	0,620
3/4"	115	14,3	42,9	20,9	24	11,00	27,70	48	1,200
1"	125	15,9	50,8	26,6	25	13,00	34,50	54	1,440
1 1/4"	135	17,5	63,5	35,1	25	14,00	48,20	64	1,730
1 1/2"	155	19,1	73	40,9	29	16,00	49,50	70	2,620
2"	165	20,7	92,1	52,5	32	17,00	61,90	84	2,940
2 1/2"	190	23,09	104,8	62,7	37	19,00	74,60	100	4,500
3"	210	27	127	77,9	41	21,00	90,70	117	6,200
4"	255	30,3	157	102,3	46		116,10	146	9,300
5"	280	33,4	185,7	128,9	49		143,80	178	11,090
6"	320	35	215,9	154,1	51		170,70	206	21,700
8"	380	39,7	269,9	202,7	60		221,50	260	22,000
10"	445	46,1	323,8	254,6	65		276,12	321	
12"	520	49,12	381	304,8	71		327,00	375	



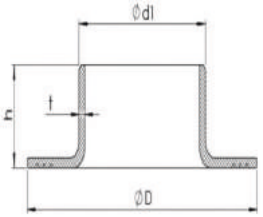




SERBETS YAKA FLANŞ
FREE CLLOR FLANGE
Standartlar / Standards DIN2642-EN 1092-1

Flanş / Flange DIN2642 - EN 1902 - 1									
Ebat/ Size	d5		D	b	k	e	Delik Sayısı Numbers of Holes	d2	Ağırlık/ Weight kg
	ISO	Metrik							
Dn15	-	24	95	14	65	3	4	14	0,70
	24	-							
Dn20	-	28	105	14	75	3	4	14	0,82
	30	-							
Dn25	-	32	115	16	85	4	4	14	1,13
	36	-							
Dn32	-	42	140	16	100	4	4	18	1,67
	46	-							
Dn40	-	50	150	16	110	4	4	18	1,90
	54	-							
Dn50	-	62	165	16	125	5	4	18	2,24
	65	-							
Dn65	81	74	185	16	145	5	4	18	2,68
Dn80	95	91	200	18	160	5	8	18	3,39
Dn100	-	113	220	18	180	5	8	18	3,74
	119	-							
Dn125	-	138	250	18	210	5	8	18	4,63
	145	-							
Dn150	-	164	285	18	240	5	8	22	5,71
	173	-							
Dn200	225	210	340	20	295	5	8	22	7,61
Dn250	-	273	395	22	350	5	12	22	10,55
	279	-							
Dn300	330	316	445	26	400	6	12	22	14,28
Dn350	372	360	505	28	460	6	16	22	18,90
Dn400	426	413	565	32	515	6	16	26	25,51
Dn450	464	464	615	36	565	6	20	26	32,40
Dn500	517	518	670	38	620	6	20	26	37,80
Dn600	618	618	780	44	725	7	20	30	57,45
Dn700	721	721	895	50	840	7	24	30	80,40
Dn800	824	824	1015	56	950	7	24	33	113,20





YAKA
COLLAR
Standartlar / Standards DIN2642-EN 1092-1

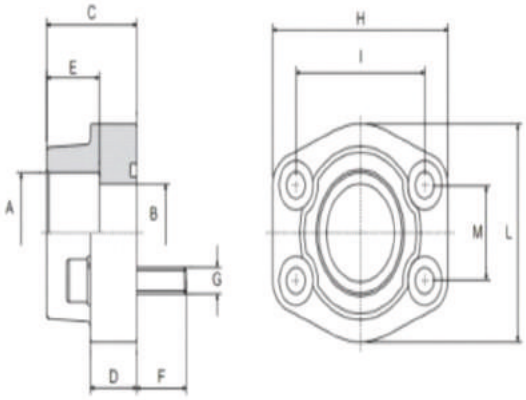
Yaka / Collars DIN2642								
Ebat/ Size	d1		D	t		h	Ağırlık/Weight	
	Series1	Series2		Series1	Series2		Series1	Series2
Dn15	-	20	45	-	2	9	-	0,02
	21,3	-		2,5	-		0,02	-
Dn20	-	25	58	-	2	12	-	0,04
	26,9	-		2,5	-		0,04	-
Dn25	-	30	68	-	2	15	-	0,05
	33,7	-		3	-		0,08	-
Dn32	-	38	78	-	2	15	-	0,07
	42,4	-		3	-		0,15	-
Dn40	-	44,5	88	-	2	17	-	0,09
	48,3	-		3	-		0,18	-
Dn50	-	54	102	-	2	22	-	0,12
	60,3	-		3	-		0,18	-
Dn65	76,1	70	122	3	2	22	0,24	0,16
Dn80	88,9	84	138	3	2	23	0,3	0,2
Dn100	-	104	158	-	2	28	-	0,25
	114,3	-		3	-		0,36	-
Dn125	-	129	188	-	2	30	-	0,34
	139,7	-		3	-		0,46	-
Dn150	-	154	212	-	2	30	-	0,38
	168,3	-		3	-		0,55	-
Dn200	219,1	206	268	4	3	30	0,7	0,83
Dn250	-	256	320	-	3	35	-	1,04
	273	-		4	-		1,26	-
Dn300	323,9	306	370	4	3	35	1,47	1,28
Dn350	355,6	356	430	4	3	40	2,36	1,61
Dn400	406,4	-	482	4	-	45	2,64	-
Dn450	457,2	456	535	4	3	45	3,25	2,16
Dn500	508	-	585	4	-	45	3,74	-
Dn600	610	-	685	5	-	45	6,8	-
Dn700	711	-	800	5	-	45	8,3	-
Dn800	813	-	905	5	-	45	9,4	-

SAE SS316L/SS304L GEÇME KAYNAKLI FLANŞ
SEA SS316L/SS304L FLUSH WELDED FLANGES
Standartlar / Standards ANSI B16.5//ASTM A182
Çalışma Basınç / Working Pressure (3000-6000 PSI)
Çalışma Sıcaklık / Operating temperature (-30+240°C)
Sızdırmazlık / O-Ring

SERİ SERIE	ÖLÇÜ SIZE	PN BAR	A	B	C	D	S	F	G	H	I	L	M
3000 PSI	3/8"	350	17,5	13	36	16	18	14	M8x30	57	38,1	47	17,5
	1/2"	350	21,6	13	36	16	18	14	M8x30	57	38,1	47	17,5
	3/4"	350	27,2	19	36	18	18	16	M10x35	66	47,6	49	22,3
	1"	320	34,1	25	38	18	18	16	M10x35	70	52,4	53	26,2
	1 1/4"	280	42,8	31	41	21	20	18	M10x35	80	58,7	69	30,2
	1 1/2"	210	48,6	38	44	25	22	18	M12x45	94	69,9	77	35,7
	2"	210	61	50	45	25	24	18	M12x45	103	77,8	89	42,9
	2 1/2"	175	76,6	63	50	25	28	18	M12x45	115	88,9	101	50,8
	3"	160	90,5	73	50	27	28	25	M16x50	135	106,4	124	61,9

6000 PSI	3/8"	420	17,5	13	36	16	18	14	M8x30	57	40,5	47	18,2
	1/2"	420	21,6	13	36	16	18	14	M8x30	57	40,5	47	18,2
	3/4"	420	27,2	19	36	19	20	16	M10x35	71	50,8	53	23,8
	1"	420	34,1	25	44	24	22	19	M12x45	80	57,2	66	27,8
	1 1/4"	420	42,8	31	44	27	22	22	M14x45	94	66,6	77	31,8
	1 1/2"	420	48,6	38	51	30	24	24	M16x55	106	79,3	89	36,5
	2"	420	61	50	70	37	25	32	M20x70	135	96,8	116	44,5
	2 1/2"	320	76,6	63	75	45	28	40	M24x80	166	123,8	150	58,7
	3"	320	90,5	73	90	55	30	55	M30x100	208	152,4	178	71,4

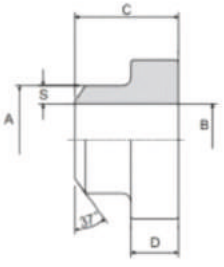


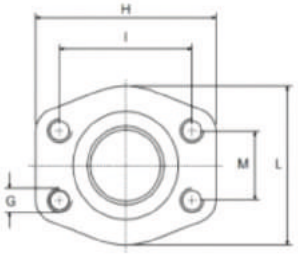


SAE SS316L/SS304L ALIN KAYNAKLI FLANŞLAR
SAE SS316L/SS304L BUTT WELDED FLANGES
Standartlar / Standards ANSI B16.5//ASTM A182
Çalışma Basınç / Working Pressure (20 BAR)
Çalışma sıcaklık / Operating temperature (-30+240°C)
Sızdırmazlık / O-Ring

SERİ SERIE	ÖLÇÜ SIZE	PN BAR	A	B	C	D	S	F	G	H	I	L	M
3000 PSI	3/8"	350	17,5	10	36	16	3,7	14	M8x30	57	38,1	47	17,5
	1/2"	350	21,6	13	36	16	4,3	14	M8x30	57	38,1	47	17,5
	3/4"	350	27,2	19	36	18	4,1	16	M10x35	66	47,6	49	22,3
	1"	320	34,5	25	38	18	4,7	16	M10x35	70	52,4	53	26,2
	1 1/4"	280	42,8	31	41	21	6	18	M10x35	80	58,7	69	30,2
	1 1/2"	210	48,6	38	44	25	5,3	18	M12x45	94	69,9	77	35,7
	2"	210	61	50	45	25	5,5	18	M12x45	103	77,8	89	42,9
	2 1/2"	175	76,6	63	50	25	6,8	18	M12x45	115	88,9	101	50,8
	3"	160	89	73	50	27	8	25	M16x50	135	106,4	124	61,9
	3 1/2"	35	103	89	50	27	7	25	M16x50	153	120,7	136	69,9
	4"	35	115	99	50	27	8	25	M16x50	163	130,2	147	77,8
	5"	35	141	120	50	28	10,5	25	M16x55	184	152,4	180	92,1

6000 PSI	3/8"	420	17,5	10	36	16	3,7	14	M8x30	57	40,5	47	18,2
	1/2"	420	21,6	13	36	16	4,3	14	M8x30	57	40,5	47	18,2
	3/4"	420	27,2	18	36	19	4,6	16	M10x35	71	50,8	53	23,8
	1"	420	34,5	22	44	24	6,3	19	M12x45	80	57,2	66	27,8
	1 1/4"	420	42,8	28	44	27	7,2	22	M14x45	94	66,6	77	31,8
	1 1/2"	420	48,6	32	51	30	8,3	24	M16x55	106	79,3	89	36,5
	2"	420	61	41	70	37	10	32	M20x70	135	96,8	116	44,5
	2 1/2"	320	76,6	50	75	45	13	40	M24x80	166	123,8	150	58,7
	3"	320	90	58	90	55	16	55	M30x100	208	152,4	178	71,4



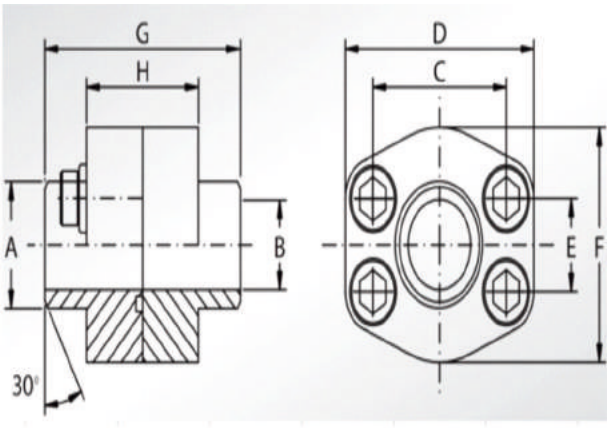




SEA SOKETLİ DUBLE FLANŞ TAKIMI
SEA SOCKET DOUBLE FLANGE KIT
Standartlar / Standards ISO/ASTM A182 ASME B16.11
Çalışma Basınç / Working Pressure (3000 -6000PSİ
Çalışma Sıcaklık / Operating temperature (-30+480°C)
Sızdırmazlık / O-Ring

Maksimum basınç Maximum pressure		A	B			C	D	E	F	G	H	Metrik Metric	Unc	Ağırlık Weight
SERİE 3000			SCH.80 SCH160 SCHXXS											
345	1/2"	21,5	13	11,8	6,3	38,1	57	17,48	46	72	32	M8x30	5/16x1"1/4	0,55
345	3/4"	28	19	15,6	11	47,63	65	22,23	50	72	36	M10x35	3/8x1"1/2	0,86
345	1"	34	25	20,7	15,2	52,37	70	26,19	55	76	36	M10x35	3/8x1"1/2	0,98
276	1"1/4	42,8	32	29,5	22,8	58,72	79	30,18	68	82	42	M10x40	7/16x1"3/4	1,47
207	1"1/2	48,6	38	34	28	69,85	93	35,71	78	88	50	M12x45	1/2x1"3/4	2,23
207	2"	61	51	42,8	38,2	77,77	102	42,88	90	90	50	M12x45	1/2x1"3/4	2,56
172	2"1/2	77	63	54	45	88,9	114	50,8	105	100	50	M12x45	1/2x1"3/4	3,38
SERIE 6000			SCH.80 SCH160 SCHXXS											
414	1/2"	21,5	13	11,8	6,3	40,49	57	18,24	46	72	32	M8x30	5/16x1"1/4	0,55
414	1/2"	17,5	13	----	----	40,49	57	18,24	46	72	32	M8x30	5/16x1"1/4	0,51
414	3/4"	28	19	15,6	11	50,8	71	23,8	55	70	42	M10x40	3/8x1"1/2	1,13
414	1"	34	25	20,7	15,2	57,15	79	27,76	68	82	42	M12x45	7/16x1"3/4	1,54
375	1"1/4	42,8	32	29,5	22,8	66,68	93	31,75	78	88	50	M14x45	1/2x1"3/4	2,37
320	1"1/2	48,6	38	34	28	79,38	112	36,5	94	110	60	M16x50	5/8x2"	3,87
250	2"	61	51	42,8	38,2	96,82	134	44,45	114	130	74	M20x70	3/4x2"1/2	6,75
230	2"1/2	76,6	63	54	45	123,8	180	58,7	152	160	90	M24x80	----	-

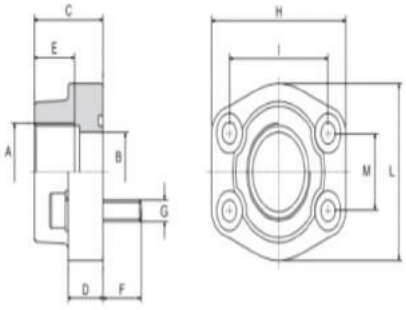




SAE BSP & NPT THREADED FLANGES
Standartlar / Standards ANSI B16.5//ASTM A182
Çalışma Basınç / Working Pressure (3000-6000 PSI)
Çalışma sıcaklık / Operating temperature (-30+240°C)
Sızdırmazlık / O-Ring

SERİ SERIE	SIZE INCH	PN BAR	A	B	C	D	S	F	G	H	I	L	M
3000 PSI	3/8"	350	3/8"	13	36	16	13	14	M8x30	57	38,1	47	17,5
	1/2"	350	1/2"	13	36	16	15	14	M8x30	57	38,1	47	17,5
	3/4"	350	3/4"	19	36	18	18	16	M10x35	66	47,6	49	22,3
	1"	320	1"	25	38	18	20	16	M10x35	70	52,4	53	26,2
	1 1/4"	280	1 1/4"	31	41	21	22	18	M10x35	80	58,7	69	30,2
	1 1/2"	210	1 1/2"	38	44	25	24	18	M12x45	94	69,9	77	35,7
	2"	210	2"	50	45	25	26	18	M12x45	103	77,8	89	42,9
	2 1/2"	175	2 1/2"	63	50	25	30	18	M12x45	115	88,9	101	50,8
	3"	160	3"	73	50	27	30	25	M16x50	135	106,4	124	61,9

6000 PSI	3/8"	420	3/8"	13	36	16	13	14	M8x30	57	40,5	47	18,2
	1/2"	420	1/2"	13	36	16	15	14	M8x30	57	40,5	47	18,2
	3/4"	420	3/4"	19	36	19	18	16	M10x35	71	50,8	53	23,8
	1"	420	1"	25	44	24	20	18	M12x45	80	57,2	66	27,8
	1 1/4"	420	1 1/4"	31	44	27	22	22	M14x45	94	66,6	77	31,8
	1 1/2"	420	1 1/2"	38	51	30	24	28	M16x55	106	79,3	89	36,5
	2"	420	2"	50	70	37	33	32	M20x70	135	96,8	116	44,5
	2 1/2"	320	2 1/2"	63	75	45	35	40	M24x80	166	123,8	150	58,7
	3"	320	3"	73	90	55	40	45	M30x100	208	152,4	178	71,4



ORINGS 3000 PSI & 6000 PSI	3/8"	2 1/2"	69,44x3,53
	1/2"	3"	85,32x3,53
	3/4"	3 1/2"	98,02x3,53
	1"	4"	110,72x3,53
	1 1/4"	5"	136,12x3,53
	1 1/2"		
	2"		

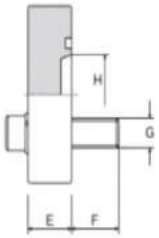


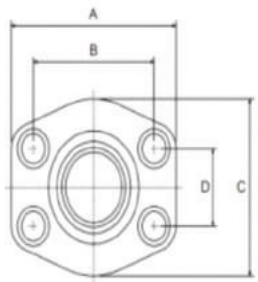
SAEBLIND ORANGE FLANGES
Standartlar / Standards ANSI B16.5//ASTM A182
Çalışma Basınç / Working Pressure (3000 - 6000PSİ
Çalışma Ssıcaklık / Operating temperature (-30+480°C)
Sızdırmazlık / O-Ring

SERİ SERIE	SIZE INCH	PN BAR	A	B	C	D	E	F	G	H
3000 PSI	1/2"	350	57	38,1	47	17,5	16	14	M8x30	13
	3/4"	350	66	47,6	49	22,3	18	16	M10x35	16
	1"	320	71	52,4	53	26,2	19	16	M10x35	25
	1 1/4"	280	80	58,7	69	30,2	21	18	M10x35	25
	1 1/2"	210	95	69,9	77	35,7	25	19	M12x45	34
	2"	210	103	77,8	89	42,9	25	19	M12x45	43
	2 1/2"	175	116	88,9	101	50,8	25	19	M12x45	61
	3"	160	136	106,4	124	61,9	25	27	M16x50	60

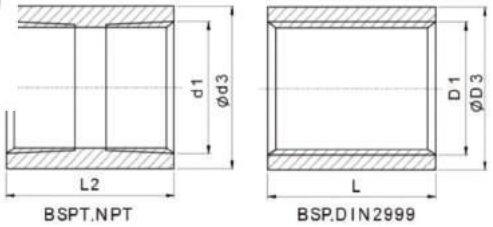
6000 PSI	1/2"	420	57	40,5	47	18,2	16	14	M8x30	13
	3/4"	420	71	50,8	53	23,8	19	16	M10x35	20
	1"	420	80	57,2	66	27,8	24	18	M12x45	25
	1 1/4"	420	94	66,6	77	31,8	27	24	M14x45	25
	1 1/2"	420	103	79,3	89	36,5	30	24	M16x55	34
	2"	420	135	96,8	123	44,5	37	31	M20x70	46
	2 1/2"	320	166	123,8	150	58,7	45	40	M24x80	56
	3"	320	208	152,4	178	71,4	55	45	M30x100	71







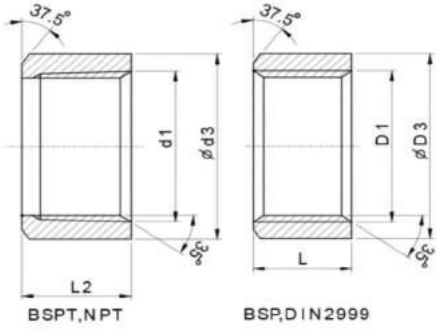




DIN 2999 / İSO 4144 MANŞON
DIN 2999 / İSO 4144 COUPLİNGS
Standartlar / Standarts: ISO 4144, ANSI B16.1-ASTM A351
Diş / Thread: NPT, BSP (Bs21)
Çalışma Basınç / Working Pressure (16-20)
Çalışma Sıcaklık / Operating temperature (-20+210°C)

Size / Spec.		1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
BSPT, NPT	d1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
	d3	14	18,5	21,5	26,5	32	39,5	48	54,5	66,5	84	100	129
	L2	20	27	28	36	39	43	48	48	56	65	71	83
	kg	0,013	0,031	0,037	0,072	0,1	0,159	0,232	0,254	0,371	0,918	1,223	2,352
BSP, DIN2999	D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
	D3	14	18,5	21,5	26,5	32	39,5	48,5	54,5	66,5	82	95	122
	L	20	25	26	34	36	43	48	48	56	65	71	83
	kg	0,013	0,028	0,033	0,065	0,084	0,145	0,204	0,242	0,35	0,506	0,676	1,228



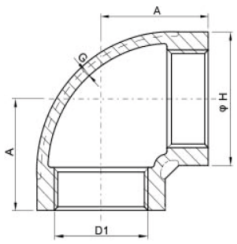


YARIM MANŞON 150LBs
HALF COUPLİNGS 150LBs
Standartlar / Standarts: ISO 4144, ANSI B16.1-ASTM A351
Diş / Thread: NPT, BSP (Bs21)
Çalışma Basınç / Working Pressure (16-20)
Çalışma Sıcaklık / Operating temperature (-20+210°C)

Size / Spec.		1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
BSPT, NPT	d1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
	d3	14	18,5	21,5	26,5	32	39,5	48	54,5	66,5	84	100	129
	L2	11	13	14	18	20	21	24	24	28	33	36	42
	kg	0,008	0,015	0,018	0,037	0,05	0,073	0,108	0,125	0,177	0,451	0,623	1,138
BSP, DIN2999	D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
	D3	14	18,5	21,5	26,5	32	39,5	48,5	54,5	66,5	84	100	129
	L	11	11	12	15	17	19	22	22	26	30	33	40
	kg	0,008	0,012	0,015	0,044	0,056	0,1	0,15	0,19	0,26	0,44	0,64	1,03

90° Dişli Dirsek 150LBs
90° Threaded Elbows 150LBs
Standartlar / Standarts:ASTM A351-ISO 4144
Diş / Thread: NPT, BSP (BS21)

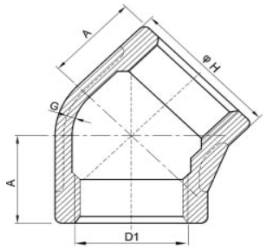




Size / Spec	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
H	14,8	18,3	21,7	26,4	32,1	39,5	49,2	55,5	68,2	83,5	99	126,3
A	17	19	23	27	32	38	45	48	57	69	78	96
G	1,5	1,5	1,5	1,6	1,7	1,8	2	2	2,2	2,7	3	3,4
kg	0,018	0,026	0,04	0,064	0,098	0,158	0,24	0,302	0,498	0,81	1,17	2,6

45° Dişli Dirsek 150LBs
45° Threaded Elbows 150LBs
Standartlar / Standarts:ASTM A351-ISO 4144
Diş / Thread: NPT, BSP (BS21)
Çalışma Basınç /Working Pressure (16-20)
Çalışma sıcaklık /Operating temperature (-20 +210°C)

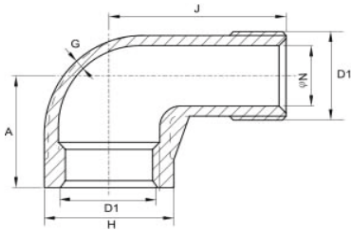




Size / Spec	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
H	14,8	18,3	21,7	26,4	32,1	39,5	49,2	55,5	68,2	83,5	99	126,3
A	17	19	23	27	32	38	45	48	57	69	78	96
G	1,5	1,5	1,5	1,6	1,7	1,8	2	2	2,2	2,7	3	3,4
kg	0,018	0,026	0,04	0,064	0,098	0,158	0,24	0,302	0,498	0,81	1,17	2,6

90° Dişli Kuyruklu Dirsek 150LBs
90° Threaded Steet Elbows 150LBs
Standartlar / Standarts:ASTM A351-ISO 4144
Diş / Thread: NPT, BSP (BS21)
Çalışma Basınç /Working Pressure (16-20)
Çalışma sıcaklık /Operating temperature (-20 +210°C)

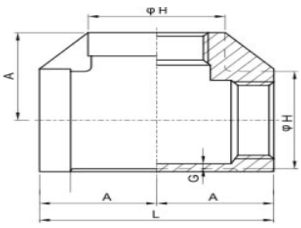




Size / Spec	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
H	14,8	18,3	21,7	26,6	32,1	39,5	49,2	55,5	68,2	83,5	99	126,3
N	5,5	8	11,5	15	20,5	26	34,5	40	51	60	77,5	101,5
A	17	19	23	27	32	38	45	48	57	69	78	97
J	26	27	29	35	40	46	54	57	70	83	94	115
G	1,5	1,5	1,5	1,6	1,7	1,8	2	2	2,2	2,7	3	3,4
kg	0,018	0,026	0,04	0,064	0,098	0,16	0,216	0,336	0,548	0,88	1,283	2,24

Dişli Eşit Tee 150LBs
Threaded Equal TeeE 150LBs
Standartlar / Standarts: ASTM A351-ISO 4144
Diş / Thread: NPT, BSP (BS21)
Çalışma Basınç / Working Pressure (16-20)
Çalışma Sıcaklık / Operating temperature (-20+210°C)

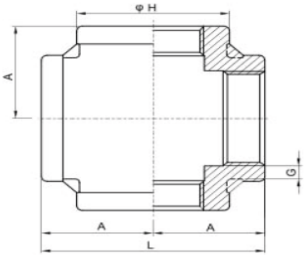




Size / Spec	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
H	14,8	18,3	21,7	26,6	32,1	39,5	49,2	55,5	68,2	83,5	99	126,3
A	17	19	23	27	32	38	45	48	57	69	78	96
L	34	38	46	54	64	76	90	96	114	138	156	192
G	1,5	1,5	1,5	1,6	1,7	1,8	2	2	2,2	2,7	3	3,4
kg	0,028	0,038	0,058	0,09	0,142	0,238	0,342	0,454	0,67	1,22	1,52	2,52

Dişli Kuruva Eşit Tee 150LBs
Threaded Cross Equal TeeE 150LBs
Standartlar / Standarts: ASTM A351-ISO 4144
Diş / Thread: NPT, BSP (BS21)
Çalışma Basınç / Working Pressure (16-20)
Çalışma Sıcaklık / Operating temperature (-20+210°C)

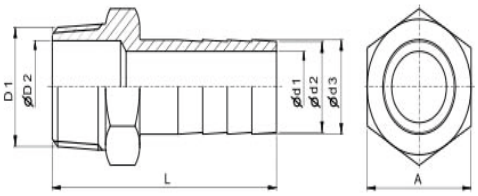




Size / Spec	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
H	14,8	18,3	21,7	26,6	32,1	39,5	49,2	55,5	68,2	83,5	99	126,3
A	17	19	23	27	32	38	45	48	57	69	78	96
L	34	38	46	54	64	76	90	96	114	138	156	192
G	1,5	1,5	1,5	1,6	1,7	1,8	2	2	2,2	2,7	3	3,4
kg	0,028	0,038	0,058	0,09	0,142	0,238	1,342	0,454	0,67	0,22	1,52	2,52

Dişli Hortum Uçlı Nipel 150LBs
Threaded Hex Hose Nipple TeeE 150LBs
Standartlar / Standarts: ASTM A351-ISO 4144
Diş / Thread: NPT, BSP (BS21)
Çalışma Basınç / Working Pressure (16-20)
Çalışma Sıcaklık / Operating temperature (-20+210°C)

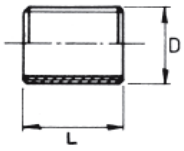




Size / Spec	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A		16	19	25	31	38	46	52	65	80	95	100
D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 14"	1 1/2"	2"	2 1/2"	3"	4"
d1		5	6,5	9,5	14,5	20	27	33	45	58	70	90
d2		8	10	13,5	19,5	25,5	32,5	38,5	50,5	62	75	101
d3		9	11	14,5	20,5	26,5	34	40,5	52,5	64	78	104
L		46,5	51,5	62,5	72,5	82	80	92,5	109,5	136	147	158
kg		0,031	0,048	0,077	0,137	0,211	0,156	0,367	0,606	0,749	1,45	2,495

Tam Dişli Nipel 150LBs
Full Threaded Nipple
Standartlar / Standarts:ASTM A351-ISO 4144
Diş / Thread: NPT, BSP (BS21)
Çalışma Basınç / Working Pressure (16-20)
Çalışma Sıcaklık / Operating temperature (-20+210°C)

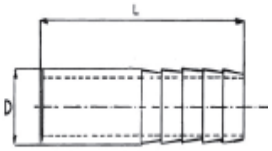




Size / Spec	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
DN	6	8	10	15	20	25	32	30	50	45	60	100
L (mm)	16	18	22	25	30	35	38	38	45	55	60	70
D (mm)	10,20	13,50	21,30	26,90	26,90	33,70	42,40	48,30	60,30	76,10	88,90	114,30
Ağırlık W Kg	0,01	0,02	0,03	0,06	0,08	0,12	0,20	0,27	0,31	0,89	1,07	1,50

Kaynaklı Hortum Nipeli
Welded Hose Nipple
Standartlar / Standarts: ASTM A351-
Çalışma Basınç / Working Pressure (16-20)
Çalışma Sıcaklık / Operating temperature (-20+210°C)

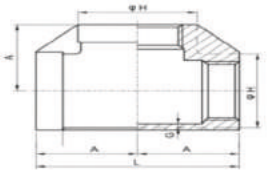




Size / Spec	3/8"	1/2"	3/4"	1"	11/4"	1 1/2"	2"	2 1/2"	3"	4"
DN	10	15	20	25	32	30	50	45	60	100
L (mm)	70	75	75	80	90	90	95	105	110	115
D (mm)	17,20	26,90	26,90	33,70	42,40	48,30	60,30	76,10	88,90	114,30
Ağırlık W Kg	0,05	0,08	0,08	0,17	0,25	0,31	0,44	0,51	0,62	0,68

Dişli Redüksiyon Tee 150LBs
Threaded Reduction TeeE 150LBs
Standartlar / Standarts:ASTM A351-ISO 4144
Diş / Thread: NPT, BSP (BS21)
Çalışma Basınç / Working Pressure (16-20)
Çalışma Sıcaklık / Operating temperature (-20+210°C)

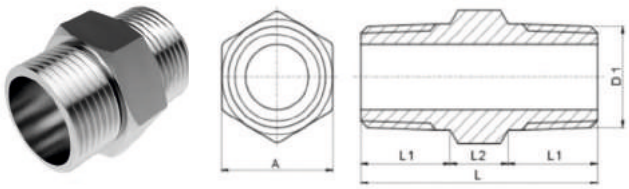




Size Spec	1/4"x1/8"	3/8"x1/8	3/8"x1/4"	1/2"x1/8"	1/2"x1/4"	1/2"x3/8"	3/4"x1/8"	3/4"x1/2"	1"x1/2"	1"x3/4"
A	18,00	20,00	20,00	26,00	26,00	26,00	32,00	32,00	38,00	38,00
H	14,00	14,00	20,00	14,00	18,00	20,00	20,00	26,00	26,00	32,00
L	38,00	46,00	46,00	46,00	46,00	46,00	64,00	64,00	76,00	76,00
G	1,50	1,50	1,50	1,60	1,60	1,60	1,70	1,70	1,80	1,80
Kg	0,038	0,058	0,058	0,900	0,900	0,142	0,142	0,142	0,232	0,232

Size Spec	1 1/4"x1/2"	1 1/4"x3/4	1 1/4"x1"	1 1/2"x1/2"	1 1/2"x3/4	1 1/2"x1"	1 1/2"x1 1/4"	2"x1"	2"x1 1/4"	2"x1 1/2"
A	45,00	45,00	45,00	48,00	48,00	48,00	48,00	57,00	57,00	57,00
H	26,00	32,00	38,00	26,00	32,00	38,00	45,00	38,00	45,00	48,00
L	90,00	90,00	90,00	96,00	96,00	96,00	96,00	114,00	114,00	114,00
G	2,00	2,00	2,00	2,20	2,20	2,20	2,20	2,70	2,70	2,70
Kg	0,342	0,342	0,342	0,454	0,454	0,454	0,454	0,670	0,670	0,670

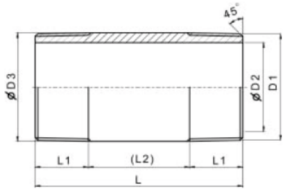
Altıköşe Çift Taraflı Hex Nipel 150LBs
Hex Barrel Nipple 150LBs
Standartlar / Standarts: ISO 4144, ANSI B16.1-ASTM A35
Diş / Thread: NPT, BSP (BS21)
Çalışma Basınç / Working Pressure (16-20)
Çalışma Sıcaklık / Operating temperature (-20+210°C)



Size / Spec	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A	12	15	19	23	29	36	45	51	63	80	95	120
D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
L1	8	10,5	11	14,5	15,5	18	20,5	20,5	25	27,5	30	36
L2	4	4	5	5	5,5	6	6,5	6,5	7	7	7,5	8
L	20	25	27	34	36,5	42	47,5	47,5	57	62	67,5	80
kg	0,008	0,14	0,022	0,038	0,052	0,084	0,267	0,172	0,272	0,46	0,45	1,01

ÇİFT TARAFLI NİPEL
BARREL NİPPLE
Standartlar / Standarts SCH40s, DIN2982
Diş / Thread: NPT, BSP (BS21)
Çalışma Basınç / Working Pressure (45-50)
Çalışma sıcaklık / Operating temperature (-20+210°C)

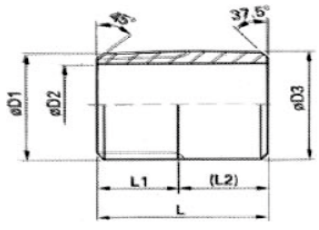




Size / Spec	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
D2	6	9	12	16	21	27	35	41	53	66	79	103
D3	10	13,5	17	21	27	33,5	42	48	60,5	76	89	114
L1	10,5	12	12	17	17	19	22	22	26	26	30	35
L2	19	16	16	26	26	22	36	36	48	48	60	50
L	40	40	40	60	60	60	80	80	100	100	120	120
kg	0,013	0,019	0,025	0,058	0,078	0,118	0,213	0,243	0,394	0,799	1,1	1,403
TK	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S

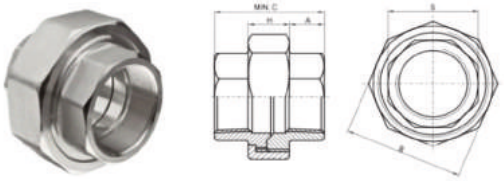
ÇİFT TARAFLI NİPEL
BARREL NİPPLE
Standartlar / Standarts SCH40s, DIN2982
Diş / Thread: NPT, BSP (BS21)
Çalışma Basınç / Working Pressure (45-50)
Çalışma Sıcaklık / Operating temperature (-20+210°C)





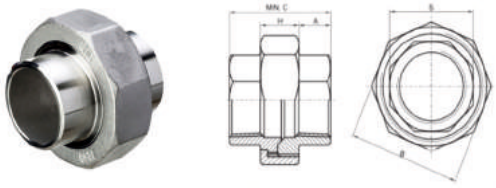
Size / Spec	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
D2	6	9	12	16	21	27	35	41	53	66	79	103
D3	10	13,5	17	21	27	33,5	42	48	60,5	76	89	114
L1	10	12	12	17	17	19	22	22	26	26	30	35
L2	20	18	18	18	21	21	28	28	25	35	40	45
L	30	30	30	35	40	40	50	50	50	60	70	80
kg	0,011	0,015	0,01	0,036	0,055	0,084	0,135	0,161	0,203	0,453	0,622	1,022
TK	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S

Dişli Contasız Konik Rekor F/F 150LBs
Threaded No Sealing Conical Unions F/F 150LBs
Standartlar / Standarts:ASTM A351-ISO 4144
Diş / Thread: NPT, BSP (BS21)
Çalışma Basınç / Working Pressure (16-20)
Çalışma Sıcaklık / Operating temperature (-20+210°C)



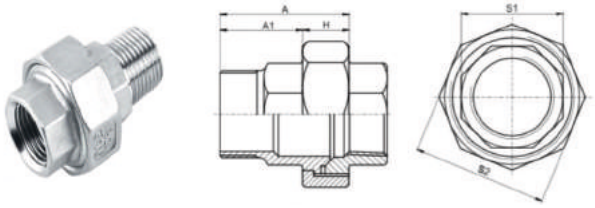
Size / Spec	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
C	36,3	36,3	37,2	39,1	45,4	49	51,1	54,2	58,8	71,2	87,6	98,6
A	10,5	10,5	11	11,6	14,9	15,5	14,5	15	16,4	22,7	29	32
H	15	15	15	15	15,5	18	21,3	22,2	25,2	25	29,2	34,3
S	13,3	16,8	20,2	24,5	29,7	36,5	46,2	52,3	64,6	79,2	94,9	120,3
B	24,1	27,6	34	39,5	46,7	54	63,9	73,5	86,9	90,9	121,9	151,3
kg	0,06	0,076	0,11	0,138	0,19	0,272	0,414	0,54	0,8	1,12	1,93	3,05

Kaynak (BW) Uçlu Contasız Konik Rekor 150LBs
Welding (BW) Conical No Sealing Unions F/F 150LBs
Standartlar / Standarts: ASTM A351-ISO 4144
Diş / Thread: NPT, BSP (BS21)
Çalışma Basınç / Working Pressure (16-20)
Çalışma sıcaklık / Operating temperature (-20+210°C)



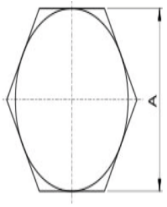
Size / Spec	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
C	33,5	38,5	39,5	45	45	47	52	54	62	67	73	78
A	10,5	10,5	11	11,6	14,9	15,5	14,5	15	16,4	22,7	29	32
H	15	15	15	15	15,5	18	21,3	22,2	25,2	25	29,2	34,3
S	10,2	13,5	17,2	21,3	27	33,7	42,4	48,3	60,3	76,1	88,9	114,3
B	25,2	30,4	34	37	45	52	64	71	87	101	116,5	145,5
kg	0,06	0,076	0,11	0,138	0,19	0,272	0,414	0,54	0,8	1,12	1,93	3,05

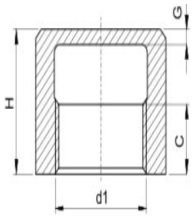
Dişli Contasız Konik Rekor M/F 150LBs
Threaded No Sealing Conical wiyh Unions M/F 150LBs
Standartlar / Standarts:ASTM A351-ISO 4144
Diş / Thread: NPT, BSP (BS21)



Size / Spec	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A	42,5	46,5	47,2	52,3	54,7	66,1	67,8	75,2	84,4	96,1	116,1	130,3
A1	17	21	21,2	25,7	27,6	32,6	32	38	42,8	48,4	57,9	64
H	15	15	15	15	15,5	18	21,3	22,2	25,2	25	29,2	34,3
S1	13,3	16,8	20,2	24,5	29,7	36,5	46,2	52,3	64,6	79,2	94,9	120,3
S2	24,1	27,6	34	39,5	46,7	54	63,9	73,5	86,9	90,9	121,9	151,3
kg	0,071	0,082	0,116	0,156	0,21	0,3	0,46	0,64	0,93	1,54	2,45	3,75

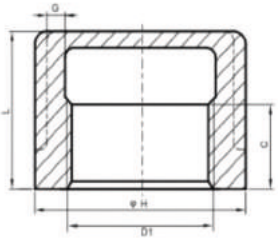
Altı köşe Dişli Kep 150LBs
Hex Threaded Caps 150LBs
Standartlar / Standarts:ASTM A351-ISO 4144
Diş / Thread: NPT, BSP (BS21)
Çalışma Basınç / Working Pressure (16-20)
Çalışma Sıcaklık / Operating temperature (-20+210°C)



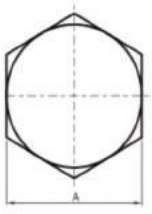
Size / Spec	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A	13,5	16,8	20,2	24,6	30,1	37,5	46,7	53	65,7	80,5	96	123,3
D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
C	6,2	9,4	9,7	10	11	15	17,5	18	18	22	23	25
H	13,5	18,5	19,5	21,1	21,7	24,8	26,5	30	34,2	38,7	42,5	48,4
G	1,5	1,5	1,5	1,6	1,7	1,8	2	2	2,2	2,7	3	3,4
kg	0,013	0,018	0,024	0,038	0,054	0,092	0,122	0,194	0,304	0,5	0,77	1,36

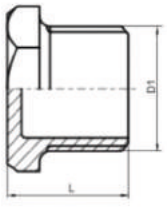
Yuvarlak Dişli Kep 150LBs
Hex Threaded Caps 150LBs
Standartlar / Standarts: ASTM A351-ISO 4144
Diş / Thread: NPT, BSP (BS21)
Çalışma Basınç / Working Pressure (16-20)
Çalışma sıcaklık / Operating temperature (-20+210°C)

Size / Spec	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
C	6,2	9,4	9,7	10	11	15	17,5	18	18	22	23	25
H	13,3	16,8	20,2	24,6	30,1	37,5	46,7	53	65,7	80,5	96	123,3
L	13,5	18,5	19,5	21,1	21,7	24,8	26,5	30	34,2	38,7	42,5	48,4
G	1,5	1,5	1,5	1,6	1,7	1,8	2	2	2,2	2,7	3	3,4
kg	0,008	0,016	0,022	0,03	0,05	0,076	0,084	0,162	0,234	0,34	0,54	0,82

Altı Köşe Dişli Kör Tapa 150LBs
Hex Threaded Caps 150LBs
Standartlar / Standarts: ASTM A351-ISO 4144
Diş / Thread: NPT, BSP (BS21)
Çalışma Basınç / Working Pressure (16-20)
Çalışma sıcaklık / Operating temperature (-20+210°C)

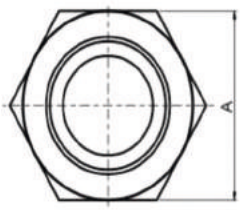



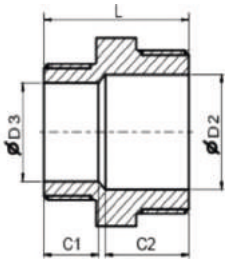


Size / Spec	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A	14	17	21	26	32	38	46	52	65	80	95	120
D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
L	-	-	14,5	17,9	19,3	22,1	25	25	29,8	31,5	35	41,5
kg	0,022	0,022	0,022	0,034	0,052	0,082	0,138	0,15	0,242	0,37	0,57	0,87

Dişli Redüksiyon Nipel 150LBs
Threaded Reducing Nipple 150LBs
Standartlar / Standarts:ASTM A351-ISO 4144
Diş / Thread: NPT, BSP (BS21)
Çalışma Basınç / Working Pressure (16-20)
Çalışma Sıcaklık / Operating temperature (-20+210°C)







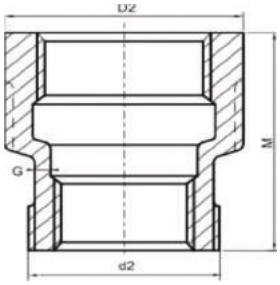
Size Spec	1/4"x1/8"	3/8"x1/8	3/8"x1/4"	1/2"x1/8"	1/2"x1/4"	1/2"x3/8"	3/4"x3/8"	3/4"x1/2"	1"x3/8"	1"x1/2"
A	15,00	19,00	19,00	23,00	23,00	23,00	29,00	29,00	36,00	36,00
C1	9,50	7,50	7,50	11,00	11,00	11,00	14,00	14,00	16,50	16,50
C2	11,50	13,50	13,50	9,50	9,50	9,50	13,00	13,00	15,50	15,50
D2	9,00	12,00	12,00	15,50	15,50	15,50	21,00	21,00	27,00	27,00
D3	6,00	6,00	6,00	6,00	6,00	6,00	6,00	6,00	9,00	9,00
L	22,50	24,00	24,00	27,50	27,50	27,50	29,00	29,00	34,50	34,50
Kg	0,010	0,020	0,020	0,040	0,040	0,040	0,060	0,060	0,100	0,100

Size Spec	1"x3/4"	1 1/4"x1/2"	1 1/4"x3/4"	1 1/4"x1"	1 1/2"x3/4"	1 1/2"x1"	1 1/2"x1 1/4	2"x1/2"	2"x3/4"	2"x1"
A	36,00	45,00	45,00	45,00	51,00	51,00	51,00	63,00	63,00	63,00
C1	16,50	18,50	18,50	18,50	19,50	19,50	19,50	17,50	17,50	17,50
C2	15,50	16,00	16,00	16,00	15,50	15,50	15,50	22,50	22,50	22,50
D2	27,00	35,00	35,00	35,00	40,50	40,50	40,50	52,00	52,00	52,00
D3	9,00	0,90	0,90	0,90	9,00	9,00	9,00	12,00	12,00	12,00
L	34,50	39,50	39,50	39,50	37,50	37,50	37,50	42,00	42,00	42,00
Kg	0,100	0,100	0,100	0,100	0,190	0,190	0,190	0,290	0,290	0,290

Size Spec	2"x1 1/4"	2"x1 1/2"	2 1/2"x1 1/2"	2 1/2"x2"	3"x1 1/2"	3"x2"	3"x2 1/2"	4"x2"	4"x2 1/2"	4"x3"
A	63,00	63,00	80,00	80,00	95,00	95,00	95,00	120,00	120,00	120,00
C1	17,50	17,50	26,50	26,50	29,50	29,50	29,50	26,00	26,00	26,00
C2	22,50	22,50	20,00	20,00	30,00	30,00	30,00	35,50	35,50	35,50
D2	52,00	52,00	66,00	66,00	81,00	81,00	81,00	103,00	103,00	103,00
D3	12,00	12,00	21,00	21,00	52,00	52,00	52,00	40,50	40,50	40,50
L	42,00	42,00	49,50	49,50	62,50	62,50	62,50	64,50	64,50	64,50
Kg	0,290	0,290	0,440	0,440	0,540	0,540	0,540	1,070	1,070	1,070

Dişli Redüksiyon Manşon 150LBs
Threaded Reducing Couplimngs 150LBs
Standartlar / Standarts:ASTM A351-ISO 4144
Diş / Thread: NPT, BSP (BS21)
Çalışma Basınç / Working Pressure (16-20)
Çalışma Sıcaklık / Operating temperature (-20+210°C)





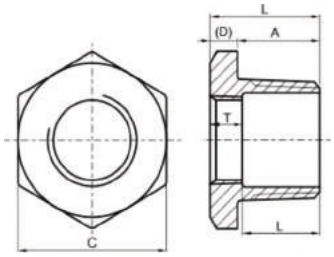
Size Spec	1/4"x1/8"	3/8"x1/8	3/8"x1/4"	1/2"x1/8"	1/2"x1/4"	1/2"x3/8"	3/4"x3/8"	3/4"x1/2"	1"x3/8"	1"x1/2"
D2	18,30	21,70	21,70	26,60	26,60	26,60	32,10	32,10	32,10	39,50
d2	14,80	14,80	14,80	14,80	14,80	14,80	18,30	18,30	18,30	14,80
1,8	25,00	26,00	26,00	34,00	34,00	34,00	36,00	36,00	36,00	42,00
G	1,50	1,50	1,50	1,60	1,60	1,60	1,70	1,70	1,70	1,50
Kg	0,020	0,028	0,028	0,440	0,440	0,440	0,056	0,056	0,056	0,020

Size Spec	1"x3/4"	1 1/4"x1/2"	1 1/4"x3/4"	1 1/4"x1"	1 1/2"x3/4"	1 1/2"x1"	1 1/2"x1 1/4	2"x1/2"	2"x3/4"	2"x1"
D2	39,50	49,20	49,20	49,20	55,50	55,50	55,50	68,00	68,00	68,00
d2	14,80	26,60	26,60	26,60	18,30	18,30	18,30	39,50	39,50	39,50
M	42,00	48,00	48,00	48,00	52,00	52,00	52,00	58,80	58,80	58,80
G	1,50	2,00	2,00	2,00	2,00	2,00	2,00	2,20	2,20	2,20
Kg	0,020	0,150	0,150	0,150	0,190	0,190	0,190	0,260	0,260	0,260

Size Spec	2"x1 1/4"	2"x1 1/2"	2 1/2"x1 1/2"	2 1/2"x2"	3"x1 1/2"	3"x2"	3"x2 1/2"	4"x2"	4"x2 1/2"	4"x3"
D2	68,00	68,00	83,50	83,50	99,00	99,00	99,00	126,30	126,30	126,30
d2	39,50	39,50	49,50	49,50	49,20	49,20	49,20	49,20	49,20	49,20
M	58,80	58,80	65,00	65,00	72,00	72,00	72,00	94,00	94,00	94,00
G	2,20	2,20	2,70	2,70	3,00	3,00	3,00	3,40	3,40	3,40
Kg	0,260	0,260	0,440	0,440	0,640	0,640	0,640	1,030	1,030	1,030

Altı köşe Dişli Bushing Redüksiyon 150LBs
Hex Threaded Bushing 150LBs
Standartlar / Standarts:ASTM A351-ISO 4144
Diş / Thread: NPT, BSP (BS21)
Çalışma Basınç / Working Pressure (16-20)
Çalışma Sıcaklık / Operating temperature (-20+210°C)





Size Spec	1/4"x1/8"	3/8"x1/8	3/8"x1/4"	1/2"x1/8"	1/2"x1/4"	1/2"x3/8"	3/4"x1/8"	3/4"x1/4"	3/4"x3/8"	3/4"x1/2"
C	16,50	20,80	20,80	23,80	23,80	23,80	28,80	28,80	28,80	28,80
A	11,00	11,00	11,00	14,50	14,50	14,50	19,00	19,00	19,00	22,00
D	5,00	5,00	5,00	5,50	5,50	5,50	6,00	6,00	6,00	6,00
L	16,00	16,00	16,00	20,00	20,00	20,00	25,00	25,00	25,00	25,00
Kg	0,014	0,020	0,020	0,038	0,038	0,038	0,070	0,070	0,070	0,070

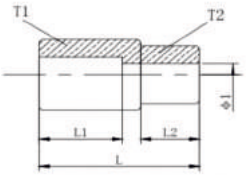
Size Spec	1"x1/8"	1"x1/4	1"x3/8"	1"x1/2"	1"x3/4"	1 1/4"x1/2"	1 1/4"x3/4"	1 1/4"x1"	1 1/2"x1/2"	1 1/2"x3/4"
C	35,80	35,80	35,80	35,80	35,80	43,80	43,80	43,80	50,50	50,50
A	22,00	22,00	22,00	22,00	22,00	23,00	23,00	23,00	23,00	23,00
D	6,00	6,00	6,00	6,00	6,00	7,00	7,00	7,00	8,00	8,00
L	28,00	28,00	28,00	28,00	28,00	30,00	30,00	30,00	31,00	31,00
Kg	0,014	0,014	0,014	0,014	0,014	0,017	0,017	0,017	0,222	0,222

Size Spec	1 1/2"x1"	1 1/2"x1 1/4	2"x1/2"	2"x3/4"	2"x1"	2"x1 1/4"	2"x1 1/2"	2 1/2"x1 1/4"	2 1/2"x1 1/2"	2 1/2"x2"
C	50,50	50,50	61,50	61,50	61,50	61,50	61,50	76,00	76,00	76,00
A	23,00	23,00	23,00	23,00	23,00	23,00	23,00	29,00	29,00	29,00
D	8,00	8,00	9,00	9,00	9,00	9,00	9,00	11,00	11,00	11,00
L	31,00	31,00	31,00	31,00	31,00	31,00	31,00	40,00	40,00	40,00
Kg	0,222	0,222	0,350	0,350	0,350	0,350	0,350	0,520	0,520	0,520

Size Spec	3"x1"	3"x1 1/4"	3"x1 1/2"	3"x2"	3"x2 1/2"	4"x1 1/4"	4"x1 1/2"	4"x2"	4"x2 1/2"	4"x3"
C	92,50	92,50	92,50	92,50	92,50	118,00	118,00	118,00	118,00	118,00
A	29,00	29,00	29,00	29,00	29,00	31,00	31,00	31,00	31,00	31,00
D	13,00	13,00	13,00	13,00	13,00	14,00	14,00	14,00	14,00	14,00
L	46,00	46,00	46,00	46,00	46,00	45,00	45,00	45,00	45,00	45,00
Kg	0,810	0,810	0,810	0,810	0,810	1,500	1,500	1,500	1,500	1,500

Ters Dişli Bushing Redüksiyon 150LBs
Reverse Gear Bushing Reducer
Standartlar / Standarts: ASTM A351-ISO 4144
Diş / Thread BSP
Çalışma Basınç / Working Pressure (16-20)
Çalışma Sıcaklık / Operating temperature (-20+210°C)



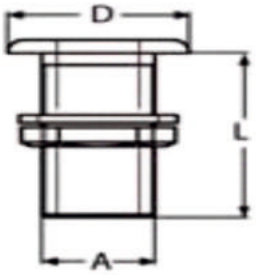


Size Spec	3/8"x1/4"	1/2"x1/4	1/2"x3/4"	3/4"x3/8"	3/4"x1/2"	1"x3/8"	1"x3/8"	1"x3/4"
C	16,50	20,80	20,80	23,80	23,80	23,80	28,80	28,80
L1	12,50	16,00	16,00	17,00	17,00	19,00	19,00	19,00
L2	13,00	14,50	16,50	17,50	17,50	19,50	19,50	19,50
L	30,00	38,00	38,00	40,00	40,00	44,00	44,00	44,00
Kg	0,014	0,020	0,020	0,038	0,038	0,038	0,070	0,070

Dişli Depo Rekoru) 150LBs
Gear Tank Record 150LBs
Standartlar / Standarts: ASTM A351-ISO 4144
Diş / Thread BSP
Çalışma Basınç / Working Pressure (16-20)
Çalışma Sıcaklık / Operating temperature (-20+210°C)

Size Spec	L	D
3/8"	54	35
1/2"	59	40
3/4"	65	47
1"	73	55
1 1/4"	77	64
1 1/2"	83	75
2"	93	84



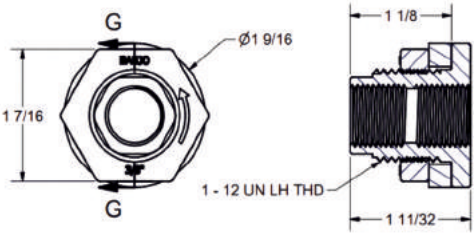


Dişli (Sintine) 150LBs
Gear Bilge 150LBs
Standartlar / Standarts: ASTM A351-ISO 4144
Diş / Thread BSP
Çalışma Basınç / Working Pressure (16-20)
Çalışma Sıcaklık / Operating temperature (-20+210°C)

Size Spec	L	D
3/8"	54	35
1/2"	59	40
3/4"	65	47
1"	73	55
1 1/4"	77	64
1 1/2"	83	75
2"	93	84







3000-6000LB NPT DİŞLİ MANŞON,YARIM MANŞON VE KEP ASM B 16.11 / ASTM A182

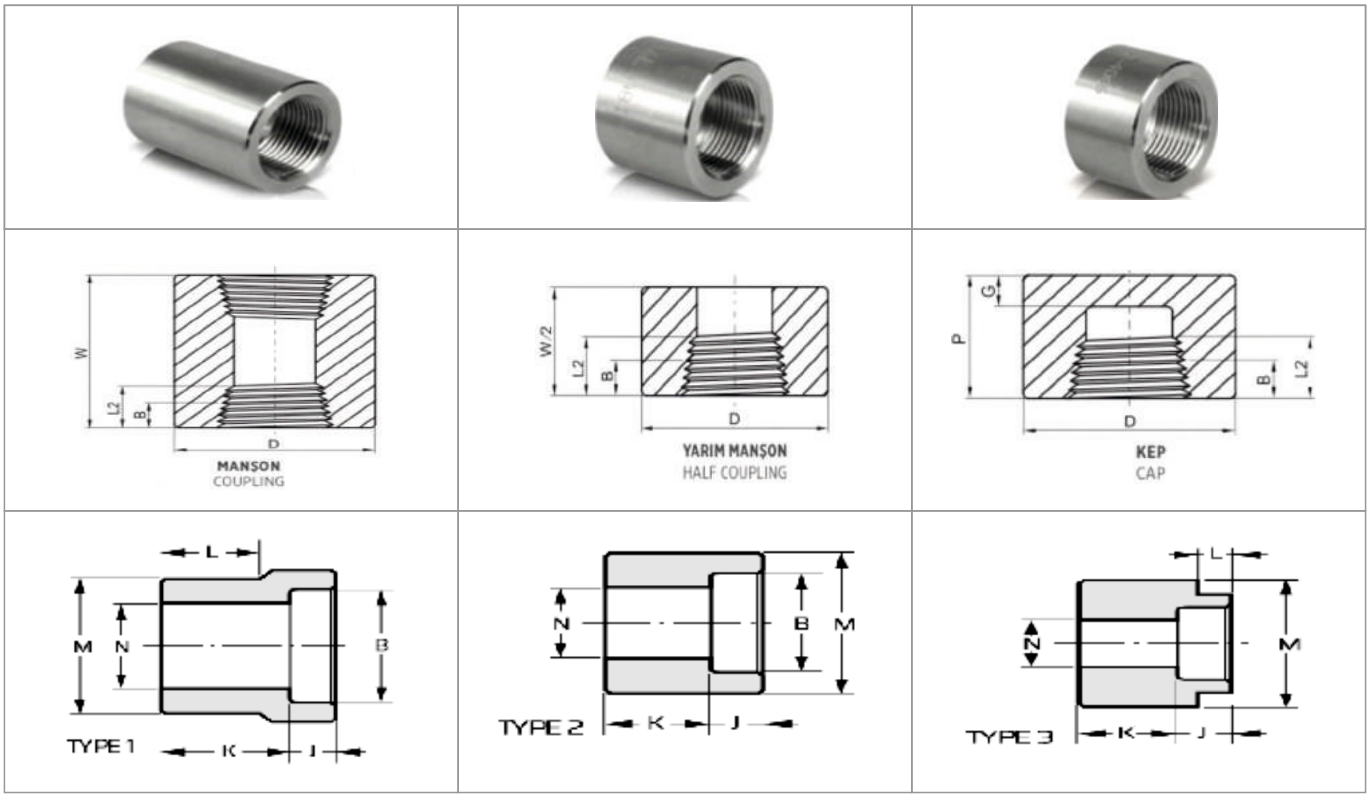
3000-6000LB NPT THREADED COPLINGS,HALF COPLINGS CAP ASM B 16.11 / ASTM A182

Standartlar / Standards -ISO / ASTM A182

Çalışma Basınç / Working Pressure 3000lb (200 Bar) 6000lb (390 Bar)

Çalışma sıcaklık / Operating temperature (-10 +150°C)

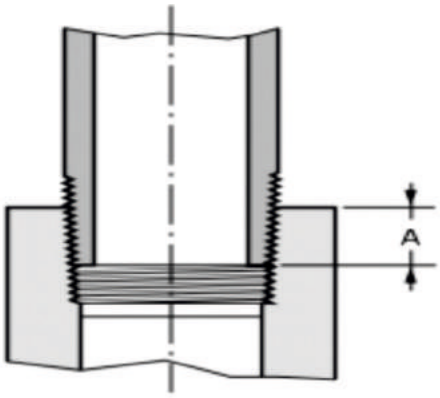
Nominal Boru Ölçüsü	Manşon uzunluk To End Coplungs W	Kep Uzunluk End to End Caps P		Dış Çap Diameter D		Minimum Diş Uzunluğu Length of thread. Min (1)		Minimum Diş Uzunluğu Length of thread. Min (1)	
Ölçü /Size	3000&6000 LB	3000LB	6000LB	3000LB	6000LB	3000LB	6000LB	B	L2
1/4"	35,0	25,0	27,0	19,0	25,0	4,8	6,4	8,1	10,2
3/8"	38,0	25,0	27,0	22,0	32,0	4,8	6,4	9,1	10,4
1/2"	48,0	32,0	33,0	28,0	38,0	6,4	7,9	10,9	13,6
3/4"	51,0	37,0	38,0	35,0	44,0	6,4	7,9	12,7	13,9
1"	60,0	41,0	42,0	44,0	57,0	9,7	11,2	14,7	17,3
1 1/4"	67,0	44,0	46,0	57,0	64,0	9,7	11,2	17,0	18,0
1 1/2"	79,0	44,0	48,0	64,0	76,0	11,2	12,7	17,8	18,4
2"	86,0	48,0	51,0	76,0	92,0	12,7	15,7	19,0	19,2
2 1/2"	92,0	60,0	64,0	92,0	108,0	15,7	19,0	23,6	28,9
3"	108,0	65,0	68,0	108,0	127,0	19,0	22,4	25,9	30,5

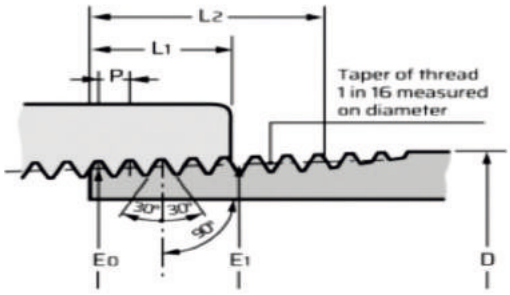


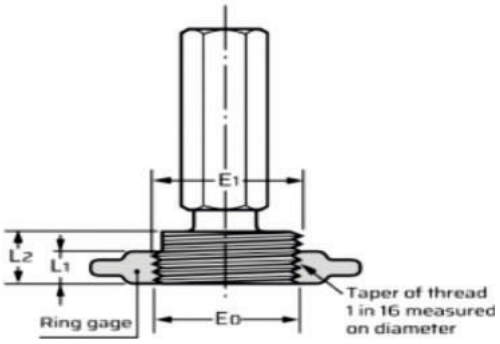
NPT DİŞ ÖLÇÜLERİ ASME B 16.11

NPT STANDARD TAPER PIPE THREAD

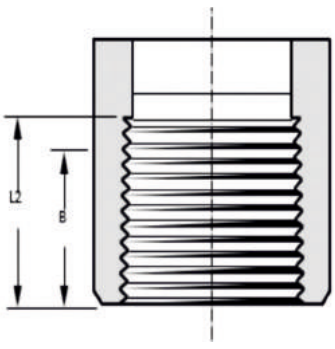
Boru dış çapı Outside diameter of pipe	Diş aralığı Pitch of thread	Diş üstü çapı Pitch diameter at external thread end	Diş boyu Effective threads length	Diş boyu Length of hand tightening	Çap artışı Increase in diameter per threadb
D	P	E0	L2	L1	
mm	mm	mm	mm	mm	mm
10,29	0,94	9,233	6,703	4,102	0,0586
(1/4") 13,72	1,411	12,126	10,205	5,786	0,0881
(3/8") 17,14	1,411	15,545	10,358	6,096	0,0881
(1/2") 21,34	1,814	19,264	13,556	8,128	0,1132
(3/4") 26,67	1,814	24,579	13,86	8,61	0,1132
(1") 33,4	2,209	30,826	17,343	10,16	0,1379
(1 1/4") 42,16	2,209	39,551	17,952	10,668	0,1379
(1 1/2") 48,26	2,209	45,621	18,377	10,668	0,1379
(2") 60,32	2,209	57,633	19,215	11,074	0,1379
(2 1/2") 76,01	3,175	69,076	28,892	17,322	0,1983
(3") 88,9	3,175	84,852	30,48	19,456	0,1983
(4") 114,3	3,175	110,093	33,02	21,437	0,1983

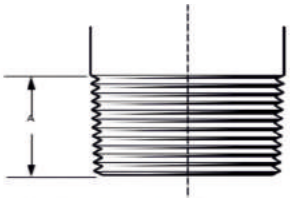






Nominal Boru Ölçüsü	Diş Boyu / Female Thread		Erkek Diş Boyu Male thread
Ölçü /Size	B min mm	L2 min mm	A min mm
1/4"	8,1	10,2	11
3/8"	9,1	10,4	13
1/2"	10,9	13,6	14
3/4"	12,7	13,9	16
1"	14,7	17,3	19
1 1/4"	17	18	21
1 1/2"	17,8	18,4	21
2"	19	19,2	22
2 1/2"	23,6	28,9	27
3"	25,9	30,5	28
4"	27,7	33	32

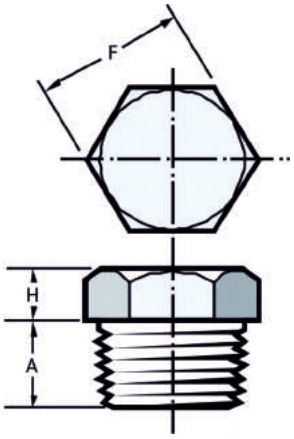




3000-6000LB NPT / BSP 6 KÖŞE DİŞLİ ERKEK KÖR TAPA ASM B 16.11
3000-6000LB NPT / BSP 6 CORNER THREADED MALE BLIND PLUG ASM B 16.11
Standartlar / Standards - ISO / ASTM 182 / ASM B.16.5
Çalışma Basınç / Working Pressure 3000lb (200 Bar) 6000lb (390 Bar)
Çalışma sıcaklık / Operating temperature (-10 +150°C)

Nominal Boru	Class 3000 - Class 6000				
Ölçü/Size	A	H	H	6000# Wt.Kg	3000# Wt.Kg
1/4"	14	20	8	0,06	0,10
3/8"	14	20	8	0,08	0,16
1/2"	14	20	8	0,10	0,20
3/4"	16	27	10	0,30	0,60
1"	19	36	10	0,40	0,80
1 1/4"	21	46	14	0,90	1,70
1 1/2"	21	50	16	1,30	2,50
2"	22	65	18	2,20	4,00
2 1/2"	27	75	19	3,90	7,50
3"	28	90	21	5,70	10,00
4"	32	115	25	11,40	20,00

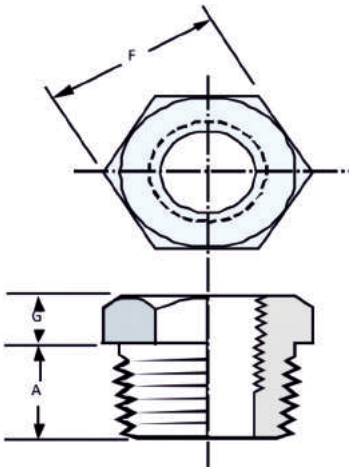




3000-6000LB NPT/ BSP 6 KÖŞE DİŞLİ REDÜKSİYON ASM B 16.11
3000-6000LB NPT/ BSP 6 CORNER THREADED REDUCTION ASM B 16.11
Standartlar / Standards - ISO / ASTM 182 / ASM B.16.5
Çalışma Basınç / Working Pressure 3000lb(200 Bar) 6000lb (390 Bar)
Çalışma sıcaklık / Operating temperature (-10 +150°C)

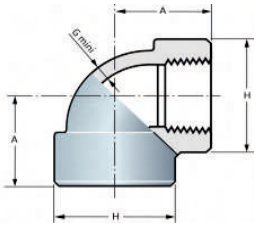
Nominal Boru	Class 3000 - Class 6000				
Ölçü/Size	A	F	H	3000# Wt.Kg	6000# Wt.Kg
3/8 "x 1/4"	13	18	4	0,02	0,04
1/2" x 3/8"	14	22	5	0,06	0,10
1/2" x 1/4"	14	22	5	0,06	0,10
3/4 "x 1/2"	16	27	6	0,10	0,19
3/4" x 1/4"	16	27	6	0,10	0,19
1 "x 3/4"	19	36	6	0,20	0,35
1" x 1/2"	19	36	6	0,20	0,35
11/4" x 1"	21	46	7	0,80	1,45
11/4" x 3/4"	21	46	7	0,80	1,45
11/4" x 1/2"	21	46	7	0,80	1,45
11/2" x 1"	21	50	8	1,30	2,00
11/2" x 3/4"	21	50	8	1,40	2,00
11/2" x 1/2"	21	50	8	1,30	2,00
2" x 11/2"	22	65	9	1,60	3,00
2 "x 1 1/4"	22	65	9	1,60	3,00
2 "x 1"	22	65	9	1,60	3,00
2 1/2 x 2"	27	75	10	2,00	3,90
2 1/2 x 1 1/2"	27	75	10	2,00	3,90





3000-6000LB NPT / BSP DİŞLİ 90° DİRSEK ASM B 16.11
3000-6000LB NPT / BSP THREADED 90° ELBOW ASM B 16.11
Standartlar / Standards - ISO / ASTM A182
Çalışma Basınç / Working Pressure 3000lb (200 Bar) 6000lb (390 Bar)
Çalışma sıcaklık / Operating temperature (-10 +150°C)

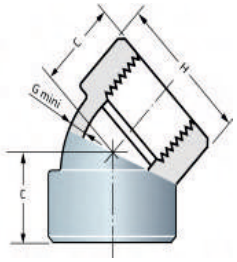




CLAS (LB)	3000			Ağırlık	6000			Ağırlık
Ölçü / Size	A	H	G	Wt.Kg	A	H	G	Wt.Kg
1/4"	25	25	3,3	0,70	28	33	6,6	1,30
3/8"	28	33	3,51	0,73	33	38	6,98	1,45
1/2"	33	38	4,09	0,90	38	46	8,15	1,70
3/4"	38	46	4,32	1,50	44	56	8,53	2,80
1"	44	56	4,98	2,20	51	62	9,93	3,50
1 1/4"	51	62	5,28	3,10	60	75	10,59	6,10
1 1/2"	60	75	5,56	4,80	64	84	11,07	8,30
2"	64	84	7,14	5,40	83	102	12,09	16,00
2 1/2"	83	102	7,65	13,20	95	121	15,29	24,00
3"	95	121	8,84	19,00	106	146	16,64	36,00

3000-6000LB NPT / BSP DİŞLİ 45° DİRSEK ASM B 16.11
3000-6000LB NPT / BSP THREADED 45° ELBOW ASM B 16.11
Standartlar / Standards - ISO / ASTM A182
Çalışma Basınç / Working Pressure 3000lb (200 Bar) 6000lb (390 Bar
Çalışma sıcaklık / Operating temperature (-10 +150°C)

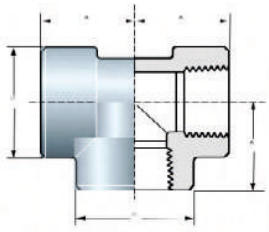




CLAS (LB)	3000			Ağırlık	6000			Ağırlık
Ölçü / Size	A	H	G	Wt.Kg	A	H	G	Wt.Kg
1/4"	19	25	3,3	0,2	22	33	6,6	1
3/8"	22	33	3,51	0,5	25	38	6,98	1,1
1/2"	25	38	4,09	0,7	28	46	8,15	1,3
3/4"	28	46	4,32	1,2	33	56	8,53	2,3
1"	33	56	4,98	2	35	62	9,93	2,7
1 1/4"	35	62	5,28	4,5	43	75	10,59	4,9
1 1/2"	43	75	5,56	4,9	44	84	11,07	5,5
2"	44	84	7,14	8,1	52	102	12,09	9,6
2 1/2"	52	102	7,65	13	64	121	15,29	15
3"	64	121	8,84	20	79	146	16,64	21

3000-6000LB NPT/BSP DİŞLİ EŞİT TEE ASM B 16.11
3000-6000LB NPT/BSP THREADED EQUAL TEE ASM B 16.11
Standartlar / Standards - ISO /ASTM A182
Çalışma Basınç / Working Pressure 3000lb (200 Bar) 6000lb (390 Bar)
Çalışma sıcaklık / Operating temperature (-10 +150°C)

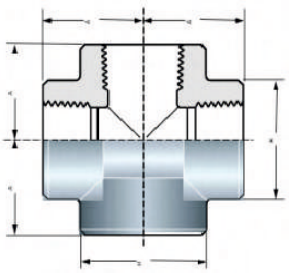




CLAS (LB)	3000			Ağırlık	6000			Ağırlık
Ölçü / Size	A	H	G	Wt.Kg	A	H	G	Wt.Kg
3/8"	28	33	3,51	0,80	33	38	6,98	1,30
1/2"	33	38	4,09	1,20	38	46	8,15	2,10
3/4"	38	46	4,32	2,00	44	56	8,53	3,60
1"	44	56	4,98	3,20	51	62	9,93	4,70
1 1/4"	51	62	5,28	4,20	60	75	10,59	7,50
1 1/2"	60	75	5,56	7,00	64	84	11,07	10,30
2"	64	84	7,14	8,00	83	102	12,09	17,00
2 1/2"	83	102	7,65	15,00	95	121	15,29	28,00
3"	95	121	8,84	22,00	106	146	16,64	49,00

3000-6000LB NPT/BSP DİŞLİ KROS TEE ASM B 16.11
3000-6000LB NPT/BSP THREADED CROSS TEE ASM B 16.11
Standartlar / Standards - ISO / ASTM A182
Çalışma Basınç / Working Pressure 3000lb (200 Bar) 6000lb (390 Bar)
Çalışma sıcaklık / Operating temperature (-10 +150°C)

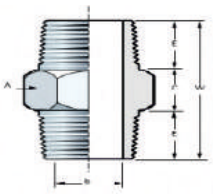




CLAS (LB)	3000			Ağırlık	6000			Ağırlık
Ölçü / Size	A	H	G	Wt.Kg	A	H	G	Wt.Kg
3/8"	28	33	3,51	0,90	33	38	6,98	1,80
1/2"	33	38	4,09	1,40	38	46	8,15	2,20
3/4"	38	46	4,32	2,50	44	56	8,53	3,60
1"	44	56	4,98	3,30	51	62	9,93	3,80
1 1/4"	51	62	5,28	4,10	60	75	10,59	8,80
1 1/2"	60	75	5,56	6,50	64	84	11,07	11,00
2"	64	84	7,14	8,10	83	102	12,09	20,00
2 1/2"	83	102	7,65	22,00	95	121	15,29	39,00
3"	95	121	8,84	39,00	106	146	16,64	51,00

3000-6000LB NPT/BSP 6 KÖŞE DİŞLİ HEX NİPEL ASM B 16.11
3000-6000LB NPT/BSP 6 CORNER THREADED HEX NIPPLE ASM B 16.11
Standartlar / Standards - ISO / ASTM 182 / ASM B.16.5
Çalışma Basınç / Working Pressure 3000lb (200 Bar) 6000lb (390 Bar)
Çalışma sıcaklık / Operating temperature (-10 +150°C)



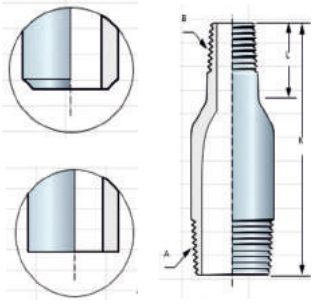


Nominal Boru Ölçüsü	Class 3000 - Class 6000						
Ölçü /Size	A-mm	E-mm	C-mm	W-mm	B 3000#	Wt.Kg	B 6000#
1/4"	15	15	6	36	6	0,10	8
3/8"	18	16	8	40	8	0,12	11
1/2"	22	20	8	48	11	0,20	14
3/4"	27	21	10	52	13	0,40	19
1"	35	25	10	60	17	0,95	24
1 1/4"	50	26	16	68	30	1,60	38
1 1/2"	55	26,5	16,5	69	35	2,00	45
2"	62	27	17	71	39	2,85	49

3000-6000LB - SCH40-80-160 NPT/BSP DİŞLİ VE KAYKANK UCLU ŞİŞE NİPPL ASM B 16.11
3000-6000LB - SCH40-80-160 NPT/BSP THREADED SWEDGE NIPPELS ASM B 16.11
Standartlar / Standards - ISO / ASTM A312 / ASM B.16.5
Kaynaklanabilir Uç / Dişli Uclar Uyum Standardı / ASM B1.201
Buttwelding end: ASME B 1.625 / Threaded Ends Sompliance Standard
Çalışma Basınç / Working Pressure 3000lb (200 Bar) 6000lb (390 Bar)
Çalışma sıcaklık / Operating temperature (-10 +150°C)

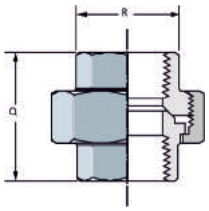
Nominal Boru Ölçüsü	Class 3000 - Class 6000		Sch 40	Sch 80	Sch 160
Ölçü /Size	K(1) mm	L(1) mm	Thickness according to ASME B 36		
3/8" x 1/4"	76	20	Sch 40	Sch 80	–
1/2" x 3/8"	89	20	Sch 40	Sch 80	–
1/2" x 1/4"	89	20	Sch 40	Sch 80	–
3/4" x 1/2"	95	21	Sch 40	Sch 80	Sch 160
3/4" x 3/8"	95	21	Sch 40	Sch 80	–
1" x 3/4"	102	22	Sch 40	Sch 80	Sch 160
1"x 1/2"	102	22	Sch 40	Sch 80	Sch 160
11/4" x 1"	102	25	Sch 40	Sch 80	Sch 160
11/2" x 11/4"	114	25	Sch 40	Sch 80	Sch 160
11/2" x 1"	114	25	Sch 40	Sch 80	Sch 160
11/2" x 3/4"	114	25	Sch 40	Sch 80	Sch 160
2 "x 1 1/2"	165	30	Sch 40	Sch 80	Sch 160
2" x 1 1/4"	165	30	Sch 40	Sch 80	Sch 160
2" x 1"	165	30	Sch 40	Sch 80	Sch 160
2 1/2" x 2"	178	35	Sch 40	Sch 80	Sch 160
3" x 2"	203	40	Sch 40	Sch 80	Sch 160





3000-6000LB NPT/BSP DİŞLİ KONİK RAKOR ASM B 16.11
3000-6000LB NPT/BSP THREADED CONICAL UNİON ASM B 16.11
Standartlar / Standards - ISO / ASTM A182
Çalışma Basınç / Working Pressure 3000lb (200 Bar) 6000lb (390 Bar)
Çalışma sıcaklık / Operating temperature (-10 +150°C)

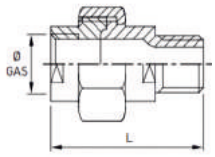




CLAS (LB)	3000		Ağırık	3000		Ağırık
Ölçü /Size	Q (1)	R (1)	Wt.Kg	Q (1)	R (1)	Wt.Kg
1/4"	42,5	36	0,60	54	46	0,88
3/8"	47,5	41	0,70	57	51	0,89
1/2"	52	46	0,80	69	60	1,20
3/4"	57	56	1,00	72	72	1,87
1"	63	65	1,60	80	80	3,10
1 1/4"	68	80	2,20	89	94	4,00
1 1/2"	78	88	3,40	108	100	6,50
2"	91	105	5,40	114	122	10,00
2 1/2"	120	122	8,00	130	144	15,00
3"	120	144	11,50	150	180	20,00

3000-6000LB NPT BSP DİŞLİ KUYRUKLLU KONİK RAKOR ASM B 16.11
3000-6000LB NPT/BSP THREADED TAILED CONICAL UNİON ASM B 16.11
Standartlar / Standards - ISO / ASTM A182
Çalışma Basınç / Working Pressure 3000lb(200 Bar) 6000lb (390 Bar)
Çalışma sıcaklık / Operating temperature (-10 +150°C)



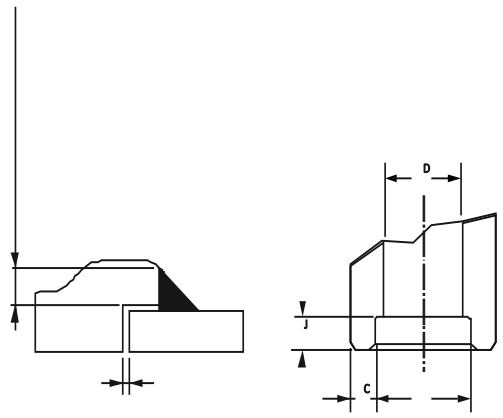


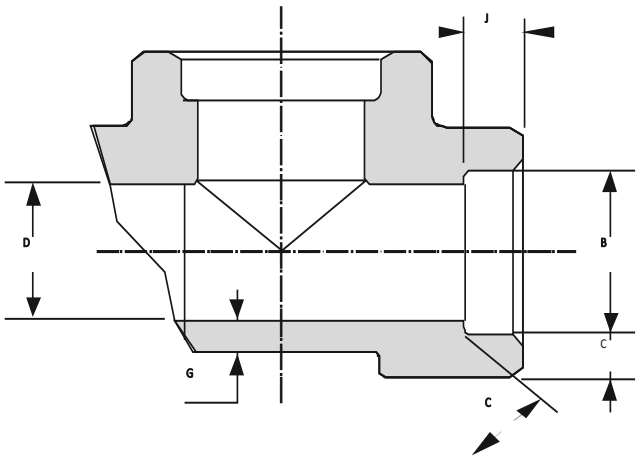
CLAS (LB)	3000		Ağırık	3000		Ağırık
Ölçü /Size	L	Q (1)	Wt.Kg	L	1 (1)	Wt.Kg
1/4"	50	42	0,70	50	50	0,87
3/8"	56	47	0,73	56	56	0,99
1/2"	60	52	0,87	60	60	1,40
3/4"	65	57	1,09	65	65	2,00
1"	70	63	1,70	70	70	3,40
1 1/4"	80	68	2,23	80	80	4,40
1 1/2"	87	78	3,60	87	87	7,00
2"	90	91	5,55	90	90	10,80

SOKET KAYNAKLI FİTTİNG ÖLÇÜLERİ ASME B 16.11 /ASTM A182
DIMENSIONS OF SOCKET WELDING FITTINGS ASME B 16.11 /ASTM A182

Kaynaktan önce yaklaşık 1,5 mm (0.06 in
Approx. 1,5 mm (0.06 in.) before welding
Yaklaşık 1,5 mm (0.06 in.)
Approx. 1,5 mm (0.06 in.) before welding

Nominal Boru Ölçüsü / Nominal Pipe size Inch				1/4"	3/8"	1/2"	3/4"	1"	1,25	1,5	2"	2 1/2"
B(2)			min.	14,2	17,6	21,8	27,2	33,9	42,7	48,8	61,2	73,9
			max.	14,6	18	22,2	27,6	34,3	43,1	49,2	61,7	74,4
-2	Class 3000		min.	8,5	11,8	15	20,2	25,9	34,3	40,1	51,7	61,2
			max.	10	13,3	16,6	21,7	27,4	35,8	41,6	53,5	64,2
	Class 6000		min.	5,6	8,4	11	14,8	19,9	28,7	33,2	42,1	–
			max.	7,1	9,9	12,5	16,3	21,5	30,2	34,7	43,6	–
-1	Class 3000		min.	3,78	4,01	4,67	4,9	5,69	6,07	6,35	6,93	8,76
			max.	3,3	3,5	4,09	4,27	4,98	5,28	5,54	6,04	7,67
	Class 6000		min.	4,6	5,03	5,97	6,96	7,92	7,92	8,92	10,92	–
			max.	4,01	4,37	5,18	6,04	6,93	6,93	7,8	9,5	–
G min	Class 3000			3,02	3,2	3,73	3,91	4,55	4,85	5,08	5,54	7,01
	Class 6000			3,68	4,01	4,78	5,56	6,35	6,35	7,14	8,74	–
J min				9,5	9,5	9,5	12,5	12,5	12,5	12,5	16	16

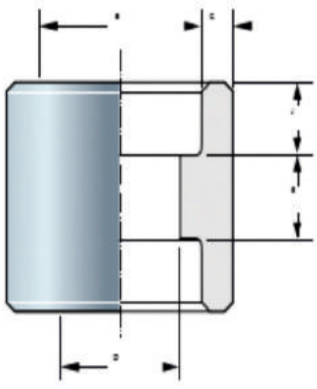
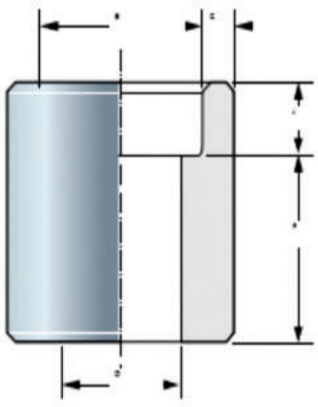
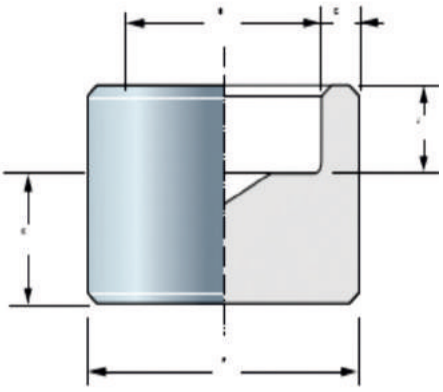




3000-6000LB SW SOKET TAM MANŞON YARIM MANŞON KÖR TAPA ASM B 16.11
3000-6000LB SW SOCKET FULL COUPLİNGS HALF COUPLİNGS BLIND PLUG ASM B 16.11
Standartlar / Standards -ISO / ASTM A182
Çalışma Basınç / Working Pressure 3000lb (200 Bar)
Çalışma sıcaklık / Operating temperature (-10 +150°C)

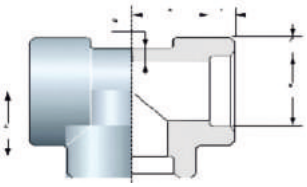
		Manşonlar / Couplings						Yarım Manşonlar / Half Couplings				Ağırık Wt
Nominal Pipe size	Soket Geçiş Socket Transition	3000 LB 6000 LB B	3000 LB F	6000 LB F	3000LB D	6000LB D	Tolerans ± Tolerances ±m	3000 LB 6000 LB F	3000LB D	6000LB D	Tolerans ± Tolerances ±m	FULL COUPLİN 3000lb
1/4"	14,2	6,5	11,0	13,5	4,8	6,4	1,5	16,0	4,8	6,4	1,0	4,8
3/8"	17,6	6,5	13,5	19,0	4,8	6,4	3,0	17,5	4,8	6,4	1,5	6,4
1/2"	21,8	9,5	15,5	22,5	6,4	7,9	3,0	22,5	6,4	7,9	1,5	6,4
3/4"	27,2	9,5	19,0	27,0	9,6	7,9	3,0	24,0	9,6	7,9	1,5	9,7
1"	33,9	12,5	22,5	32,0	9,6	9,6	4,0	28,5	9,6	9,6	2,0	9,7
1 1/4"	42,7	12,5	27,0	38,0	11,2	12,7	4,0	30,0	11,2	12,7	2,0	11,2
1 1/2"	48,8	12,5	32,0	41,0	12,7	15,7	4,0	32,0	12,7	15,7	2,0	12,7
2"	61,2	19,0	38,0	41,0	15,7	19,0	4,0	41,0	15,7	19,0	2,0	15,7

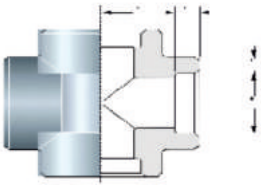


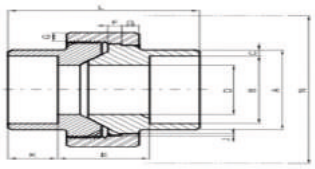
3000-6000LB SOKET TEE&KROS ASM B 16.11
3000-6000LB SW SOCKET TEE&CROSSES ASM B 16.11
Standartlar / Standards - ISO / ASTM A182
Çalışma Basınç / Working Pressure 3000lb (200 Bar) 6000lb (390 Bar)
Çalışma sıcaklık / Operating temperature (-10 +150°C)

Nominal Boru Ölçüsü	Class 3000					Class 6000				
Nominal Pipe size Inch	B mm	A mm	J mm	C mm	Ağırık Wt.Kg	B mm	A mm	J mm	C mm	Ağırık Wt.Kg
3/8"	17,6	11,8	9,5	3,51	0,80	17,6	8,4	9,5	6,98	1,30
1/2"	21,8	15	9,5	4,09	1,20	21,8	11	9,5	8,15	2,10
3/4"	27,2	20,2	12,5	4,32	2,00	27,2	14,8	12,5	8,53	3,40
1"	33,9	25,9	12,5	4,98	3,00	33,9	19,9	12,5	9,93	4,50
1 1/4"	42,7	28,7	12,5	5,28	4,00	42,7	28,7	12,5	10,59	7,00
1 1/2"	48,8	33,2	12,5	5,56	6,80	48,8	33,2	12,5	11,07	9,70
2"	61,2	42,1	12,5	7,14	7,50	61,2	42,1	12,5	12,09	16,40



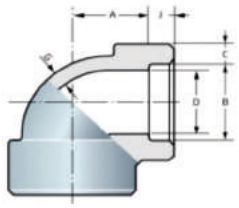
3000LB- SOKET KAYNAKLI REKOR ASM B 16.11
3000LB SOCKET WELDED UNİON ASM B 16.11
Standartlar / Standards - ISO / ASTM A182
Çalışma Basınç / Working Pressure 3000lb (200 Bar)
Çalışma sıcaklık / Operating temperature (-10 +150°C)

Nominal Boru Ölçüsü	A mm	B mm	C mm	D mm	E mm	F mm	K mm	L mm	N Somun Çap
Nominal Pipe size Inch	Min Boru Giriş Min Pipe End	Soket Boğaz Socket Bore	Soket Kalınlık Socket Wa	Boğaz Ağzı Way Bote	Yatay Geçiş Length	Somun Nut	Soket Derinlik Socket Min	Toplam Boy Length Nım	Toplam Somun Clear Nut
1/4"	21,8	14,1	9,5	9,45	19,1	3,17	9,7	41	50
3/8"	25,9	17,6	9,5	13,51	20,6	3,43	9,7	46	55
1/2"	31,2	21,8	9,5	17,07	20,6	3,68	9,7	49	57
3/4"	37,1	27,2	12,5	21,39	25,4	4,06	12,7	57	67
1"	45,5	33,9	12,5	27,74	26,2	4,44	12,7	62	79
1 1/4"	54,9	42,7	12,5	35,36	32,5	5,21	12,7	71	94
1 1/2"	61,5	48,8	12,5	41,2	34	5,59	12,7	76	11
2"	75,1	61,2	12,5	52,12	37,3	6,35	15,7	86	132
2 1/2"	91,7	74	16	64,32	52,1	7,11	15,7	102,4	148

3000-6000LB SOKET KAYNAKLI 90° DİRSEK ASM B 16.11
3000-6000LB SOCKET WELDED 90° ELBOW ASM B 16.11
Standartlar / Standards - ISO / ASTM A182
Çalışma Basınç / Working Pressure 3000lb (200 Bar) 6000lb (390 Bar)
Çalışma sıcaklık / Operating temperature (-10 +150°C)

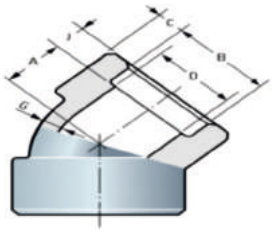




Boru Çapı Mom Pipe Size	Soket Giriş Socket Bore	Geçiş Çapı Diamter Of		Soekt Kalınlığı Socket Thickness		Gövde Kalınlık Body Wal Thickness		Merkes SW Uzunluk Center to SW Bottom of	Merkes SW Uzunluk Center to SW Bottom of	Min Soket Derinlik Dep of Socket Min	Ağırlık Wt	Ağırlık Wt
	3000-6000LB	3000LB	6000LB	3000LB	6000LB	3000LB	6000LB	3000LB	6000LB	3000-6000LB	3000lb	6000lb
Ölçü / Size	B	D	D	C	C	G	G	A	A	J	KG	KG
1,00	1/4"	14,2	8,5	5,60	3,30	4,60	3,02	3,68	11	13,5	9,5	0,68
1,10	3/8"	18,0	11,8	8,40	3,50	5,03	3,2	4,01	13,5	15,5	9,5	0,70
1,35	1/2"	22,2	15,0	11,00	4,09	5,97	3,73	4,87	15,5	19	9,5	0,80
2,20	3/4"	27,2	20,0	14,80	4,27	6,96	3,91	5,56	19	22,5	12,5	1,30
3,00	1"	34,0	25,9	20,00	4,90	7,92	4,55	6,35	22,5	27	12,5	1,80
5,60	1 1/4"	43,0	34,3	28,70	5,69	7,97	4,85	6,35	27	32	12,5	3,10
7,30	1 1/2"	49,0	40,1	33,70	6,07	8,92	5,08	7,14	32	38	12,5	4,80
12,00	2"	61,7	51,7	42,40	6,93	10,92	5,54	8,74	38	41	16	6,00

3000-6000LB SOKET KAYNAKLI 45° DİRSEK ASM B 16.11
3000-6000LB SOCKET WELDED 45° ELBOW ASM B 16.11
Standartlar / Standards - ISO / ASTM A182
Çalışma Basınç / Working Pressure 3000lb (200 Bar) 6000lb (390 Bar)
Çalışma sıcaklık / Operating temperature (-10 +150°C)

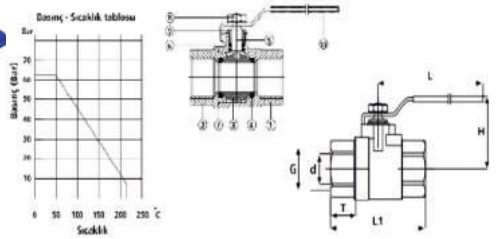




Boru Çapı Mom Pipe Size	Soket Giriş Socket Bore	Geçiş Çapı Diamter Of		Soekt Kalınlığı Socket Thickness		Gövde Kalınlık Body Wal Thickness		Merkes SW Uzunluk Center to SW Bottom of	Merkes SW Uzunluk Center to SW Bottom of	Min Soket Derinlik Dep of Socket Min	Ağırlık Wt	Ağırlık Wt
	3000-6000LB	3000LB	6000LB	3000LB	6000LB	3000LB	6000LB	3000LB	6000LB	3000-6000LB	3000lb	6000lb
Ölçü / Size	B	D	D	C	C	G	G	A	A	J	KG	KG
1/4"	14,2	8,5	5,60	3,30	4,60	3,02	3,68	8	8	9,5	0,20	0,85
3/8"	18,0	11,8	8,40	3,50	5,03	3,2	4,01	8	11	9,5	0,50	9,90
1/2"	22,2	15,0	11,00	4,09	5,97	3,73	4,87	11	12,5	9,5	0,70	1,10
3/4"	27,2	20,0	14,80	4,27	6,96	3,91	5,56	13	14	12,5	1,20	1,87
1"	34,0	25,9	20,00	4,90	7,92	4,55	6,35	14	17,5	12,5	1,65	2,09
1 1/4"	43,0	34,3	28,70	5,69	7,97	4,85	6,35	17,5	20,5	12,5	3,40	3,65
1 1/2"	49,0	40,1	33,70	6,07	8,92	5,08	7,14	20,5	25,5	12,5	3,76	4,70
2"	61,7	51,7	42,40	6,93	10,92	5,54	8,74	25,5	28,5	16	4,89	7,50

2 Parçalı Tam Geçişli 1000 Wog Dişli Küresel Vana
2 Pcs Full Port 1000 Wog Thereaded Welded Ball Valves
ASTM A351 - ANSI B 1.20.1 CF8-CF8M EN 10213
Çalışma Basınç / Working Pressure (PN 63)
Çalışma sıcaklık / Operating temperature (-20 +210°C)

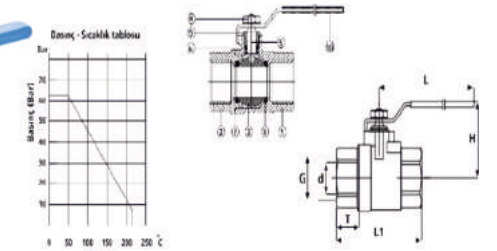




No	Parça Adı / Part Name	Malzeme Meterial	Adet /Q'ty		Ölçü/Size	DN-mm	PN	d	L1	H	T	L	TORK (Nm)	Ağırlık Kg
1	Gövde /Body	CF8/CF8M	1		1/4"	8	63	8	50	47	11	95	3	0,26
2	Yan Gövde Sıde Body	CF8/CF8M	2		3/8"	10	63	10	60	47	12,5	96	5	0,26
3	Küre /Ball	CF8/CF8M	1		1/2"	15	63	15	75	52	15	107	7	0,3
4	Küre Teflonu /Ball Teflon	PTFE	2		3/4"	20	63	20	80	67	16	125	9	0,42
5	Harekat Mili /Handel Shaft	CF8/CF8M	1		1"	25	63	25	90	70	19	147	12,4	0,7
6	Sızdırmazlık Elemanız	PTFE	1		1 1/4"	32	63	32	110	87	22	152,5	15	1,1
7	Conta /Gasket	PTFE	2		1 1/2"	40	63	40	120	92	23	179	20	1,86
8	Somun Rondele Nut Washer	SS304	1		2"	50	63	50	140	100	27	185	30	2,85
9	Baskı Somunu /Pressure Nut	SS304	1		2 1/2"	65	63	65	185	135	37	250	40	6,25
10	Harekat Kol / Operation Handel	SS304	1		3"	80	63	80	205	150	41	242	47	10,42
11	Plastik Kol /Plastic Handle	Vınly Grıp	1		4"	100	63	100	240	180	43	312	59	17,2

2 Parçalı Tam Geçişli 1000 Wog Dişli Küresel Vana
2 Pcs Full Port 1000 Wog Thereaded Welded Ball Valves
ASTM A351 - ANSI B 1.20.1 CF8-CF8M EN 10213
Çalışma Basınç / Working Pressure (PN 63)
Çalışma sıcaklık / Operating temperature (-20 +210°C)

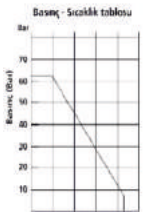


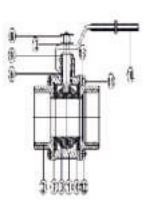


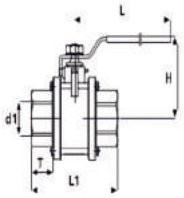
No	Parça Adı / Part Name	Malzeme Meterial	Adet /Q'ty		Ölçü/Size	DN-mm	PN	d	L1	H	T	L	TORK (Nm)	Ağırlık Kg
1	Gövde /Body	CF8/CF8M	1		1/4"	8	63	8	50	47	11	95	3	0,3
2	Yan Gövde Sıde Body	CF8/CF8M	2		3/8"	10	63	10	60	47	12,5	96	5	0,3
3	Küre /Ball	CF8/CF8M	1		1/2"	15	63	15	75	52	15	107	7	0,32
4	Küre Teflonu /Ball Teflon	PTFE	2		3/4"	20	63	20	80	67	16	125	9	0,44
5	Harekat Mili /Handel Shaft	CF8/CF8M	1		1"	25	63	25	90	70	19	147	12,4	0,72
6	Sızdırmazlık Elemanız	PTFE	1		1 1/4"	32	63	32	110	87	22	152,5	15	1,14
7	Conta /Gasket	PTFE	2		1 1/2"	40	63	40	120	92	23	179	20	1,91
8	Somun Rondele Nut Washer	SS304	1		2"	50	63	50	140	100	27	185	30	2,87
9	Baskı Somunu /Pressure Nut	SS304	1		2 1/2"	65	63	65	185	135	37	250	40	6,4
10	Harekat Kol / Operation Handel	SS304	1		3"	80	63	80	205	150	41	242	47	11
11	Plastik Kol /Plastic Handle	Vınly Grıp	1		4"	100	63	100	240	180	43	312	59	18

3Parçalı Tam Geçişli 1000 Wog Dişli Küresel Vana
3 Pcs Full Port 1000 Wog Thereaded Welded Ball Valves
Standartlar /Standards
ASTM A351 - ANSI B 1.20.1 CF8-CF8M EN 10213
Çalışma Basınç / Working Pressure (PN 63)
Çalışma sıcaklık / Operating temperature (-20 +210°C)







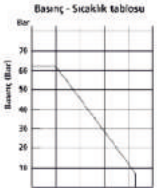


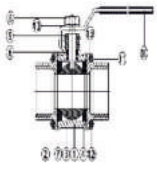
No	Parça Adı / Part Name	Malzeme Meterial	Adet Q'ty
1	Gövde /Body	CF8/CF8M	1
2	Yan Gövde Sıde Body	CF8/CF8M	2
3	Küre /Ball	CF8/CF8M	1
4	Küre Teflon /Ball Teflon	RPTFE	2
5	Harekat Mili /Handel Shaft	CF8/CF8M	1
6&7	Sızdırmazlık Conta /Gasket Sealing	RPTFE	2
8	Somun Rondele Nut Washer	SS304	1
9	Baskı Somunu /Pressure Nut	SS304	1
10	Harekat Kol / Operation Handel	SS304	1
11	Saplama /Stud	SS304	4-6
12&13	Somun Rondele Nut Washer	SS304	8x12

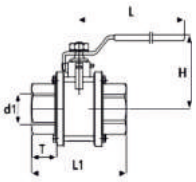
Ölçü Size	DN-mm	PN	d	L1	H	T	L	TORK (Nm)	Ağırlık Kg
1/4"	8	63	11	50	57,2	13	117	0,26	4,5
3/8"	10	63	12,5	60	57,2	13	117	0,26	4,5
1/2"	15	63	15	75	58	15	117	0,44	4,5
3/4"	20	63	20	80	60	16	117	0,63	8,5
1"	25	63	25	90	78	19	147	0,9	11
1 1/4"	32	63	32	110	88	22	160	1,4	15
1 1/2"	40	63	40	120	90	23	182	2,04	24
2"	50	63	50	140	102	27	182	3,37	32
2 1/2"	65	63	65	185	135	37	240	8,12	40
3"	80	63	80	205	150	41	250	12,7	57
4"	100	63	100	240	180	43	312	21,12	69

3Parçalı Tam Geçişli Aktuatör Bağlantılı Tepe Flanşlı 1000 Wog Dişli Küresel Vana
3 Pcs Full Port Actuator Connected Hıl Flange 1000 Wog Thereaded Welded Ball Valves
Standartlar / Standards
ASTM A351 - ANSI B 1.20.1 CF8-CF8M EN 10213
Çalışma Basınç / Working Pressure (PN 63)
Çalışma sıcaklık / Operating temperature (-20 +210°C)









No	Parça Adı / Part Name	Malzeme Meterial	Adet Q'ty
1	Gövde /Body	CF8/CF8M	1
2	Yan Gövde Sıde Body	CF8/CF8M	2
3	Küre /Ball	CF8/CF8M	1
4	Küre Teflon /Ball Teflon	RPTFE	2
5	Harekat Mili /Handel Shaft	CF8/CF8M	1
6&7	Sızdırmazlık Conta /Gasket Sealing	RPTFE	2
8	Somun Rondele Nut Washer	SS304	1
9	Baskı Somunu /Pressure Nut	SS304	1
10	Harekat Kol / Operation Handel	SS304	1
11	Saplama /Stud	SS304	4-6
12&13	Somun Rondele Nut Washer	SS304	8x12

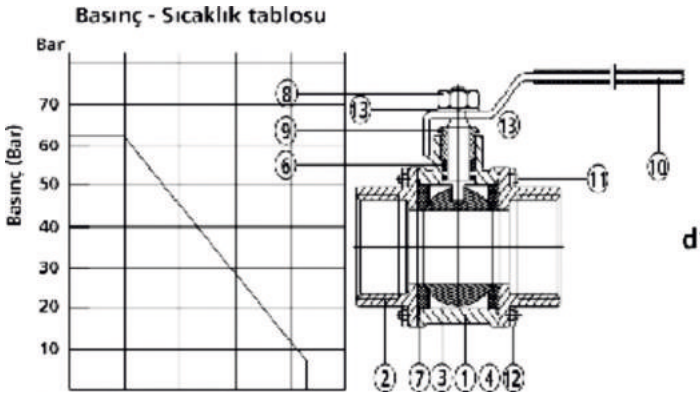
Ölçü Size	DN-mm	PN	d	L1	H	T	L	TORK (Nm)	Ağırlık Kg
1/4"	8	63	11	50	57,2	13	117	4,5	0,28
3/8"	10	63	12,5	60	57,2	13	117	4,5	0,28
1/2"	15	63	15	75	58	15	117	4,5	0,47
3/4"	20	63	20	80	60	16	117	8,5	0,68
1"	25	63	25	90	78	19	147	11	0,95
1 1/4"	32	63	32	110	88	22	160	15	1,51
1 1/2"	40	63	40	120	90	23	182	24	2,18
2"	50	63	50	140	102	27	182	32	3,52
2 1/2"	65	63	65	185	135	37	240	40	8,7
3"	80	63	80	205	150	41	250	57	12,91
4"	100	63	100	240	180	43	312	69	21,65

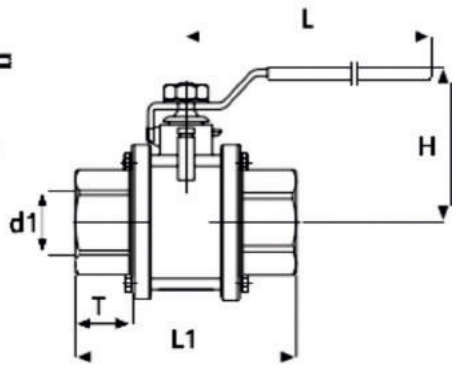
3Parçalı Tam Geçişli 1000 Wog Soket Bağlantılı Küresel Vana
3 Pcs Full Port 1000 Wog Socket Connected Welded Ball Valves
Standartlar / Standards
ASTM A351 - ANSI B 1.20.1 CF8-CF8M EN 10213
Çalışma Basınç / Working Pressure (PN 63)
Çalışma sıcaklık / Operating temperature (-20 +210°C)

No	Parça Adı / Part Name	Malzeme Meterial	Adet Q'ty
1	Gövde /Body	CF8/CF8M	1
2	Yan Gövde Sıde Body	CF8/CF8M	2
3	Küre /Ball	CF8/CF8M	1
4	Küre Teflon /Ball Teflon	RPTFE	2
5	Harekat Mili /Handel Shaft	CF8/CF8M	1
6&7	Sızdırmazlık Conta /Gasket Sealing	RPTFE	2
8	Somun Rondele Nut Washer	SS304	1
9	Baskı Somunu /Pressure Nut	SS304	1
10	Harekat Kol / Operation Handel	SS304	1
11	Saplama /Stud	SS304	4-6
12&13	Somun Rondele Nut Washer	SS304	8x12



Ölçü Size	DN-mm	PN	d	L1	H	T	L	TORK (Nm)	Ağırlık Kg
1/2"	15	63	21,7	75	58	15	117	4,5	0,9
3/4"	20	63	27,1	80	60	16	117	8,5	1,3
1"	25	63	33,8	90	78	19	147	11	2
1 1/4"	32	63	42,6	110	88	22	160	15	3,4
1 1/2"	40	63	48,7	120	90	23	182	24	4,55
2"	50	63	61,2	140	102	27	182	32	7,5



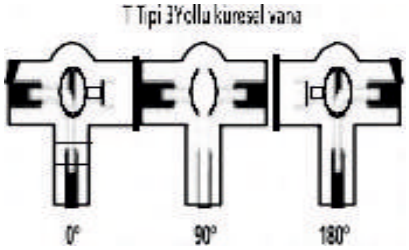


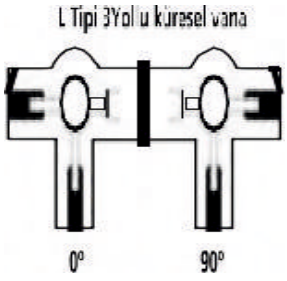
3 Yollu T L Tipi Tam Geçişli 1000 Wog Dişli Küresel Vana
3 Way T-L Full Port 1000 Wog Thereaded Ball Valves
Standartlar / Standards
ASTM A351 - ANSI B 1.20.1 CF8-CF8M EN 10213
Çalışma Basınç / Working Pressure (PN 63)
Çalışma sıcaklık / Operating temperature (-20 +210°C)

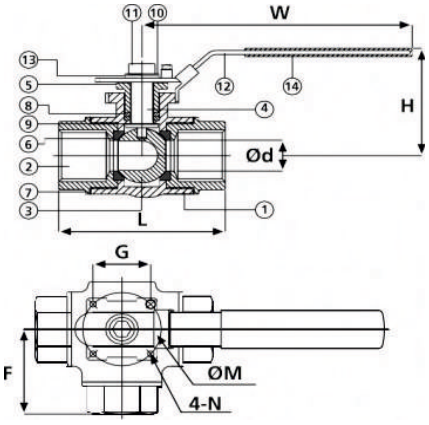
No	Parça Adı / Part Name	Malzeme Meterial	Adet /Q'ty
1	Gövde /Body	CF8/CF8M	1
2	Yan Gövde Sıde Body	CF8/CF8M	1
3	Küre /Ball	CF8/CF8M	1
4	Harekat Mili /Handel Shaft	CF8/CF8M	1
5	Baskı Somunu /Pressure Nut	SS304	1
6	Küre Teflon /Ball Teflon	RPTFE	1
7	Sızdırmazlık Conta /Gasket Sealing	RPTFE	1
8	Mil Alt Conta Shaft Lower Gasket	RPTFE	1
9	Mil Üst Conta Shaft BotTop Gasket	RPTFE	1
10	Somun /Nut	SS304	1
11	Pul /Stamp	SS304	1
12	Harekat Kol / Operation Handel	SS304	1
13	Somun Rondele Nut Washer	SS304	1
14	Kol Kaplaması /Arm Covering	SS304	1



Ölçü/Size	DN-mm	d	L	W	G	F	M	TORK (Nm)	PN	Ağırlık Kg
1/4"	8	13	67	125	26	31,9	38	5	63	0,65
3/8"	10	13	67	125	26	31,9	38	5	63	0,62
1/2"	15	13	75	134	29	33	42	5	63	0,64
3/4"	20	16	86	180	35	39	50	9	63	0,84
1"	25	20	101	180	35	46	50	12	63	1,35
1 1/4"	32	25	118	210	35	52	50	16	63	1,95
1 1/2"	40	32	125	214	50	61	70	24	63	2,88
2"	50	38	149	232	50	71	70	23	63	4,76



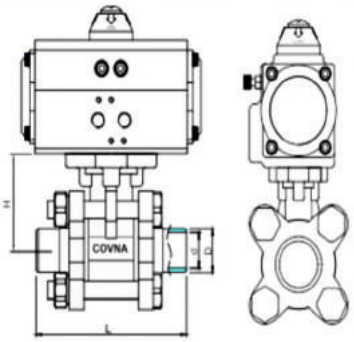




Pnömatik Aktüatörlü Dişli 3 Parçalı Küresel Vana
Pneumatic Actuated Threaded 3-Piece Ball Valve
Standartlar / Standards
ASTM A351 - ANSI B 1.20.1 CF8-CF8M EN 10213
Çalışma Basınç / Working Pressure (PN 63)
Çalışma sıcaklık / Operating temperature (-20 +210°C)

Ölçü/Size	d	D	L	H
1/2"	15	22	75	38
3/4"	20	27	84	45
1"	25	34	90	55
1 1/4"	32	42,5	113	60
1 1/2"	40	48,5	115	70
2"	50	61	140	85
2 1/2"	65	73	160	100
3"	80	90	180	112
4"	100	115	215	140

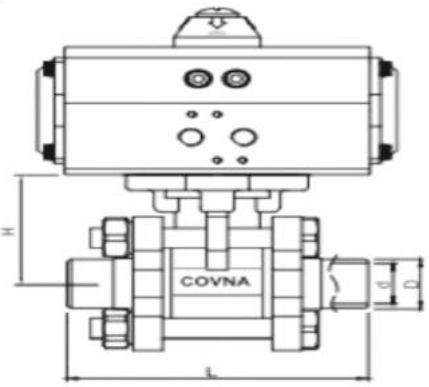




Pnömatik Aktüatörlü Dişli 2 Parçalı Küresel Vana
Pneumatic Actuated Threaded 2-Piece Ball Valve
Standartlar / Standards
ASTM A351 - ANSI B 1.20.1 CF8-CF8M EN 10213
Çalışma Basınç / Working Pressure (PN 63)
Çalışma sıcaklık / Operating temperature (-20 +210°C

Ölçü/Size	d	D	L	H
1/2"	15	22	75	38
3/4"	20	27	84	45
1"	25	34	90	55
1 1/4"	32	42,5	113	60
1 1/2"	40	48,5	115	70
2"	50	61	140	85
2 1/2"	65	73	160	100
3"	80	90	180	112
4"	100	115	215	140

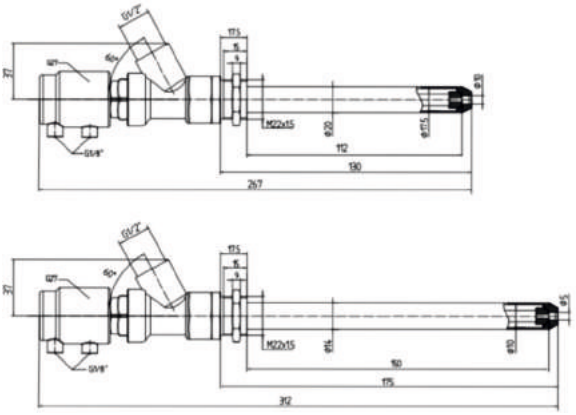




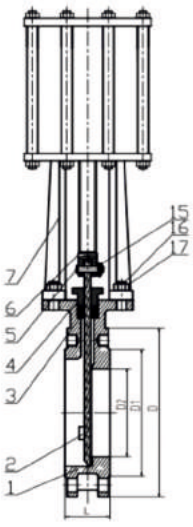
Sıhhi Pnömatik Meme Hava Dolum Vanası
Sanitary Pneumatic Nozzle Air Fill Valve
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (0-7 Bar)
Çalışma sıcaklık / Operating temperature (-30 +150°C)

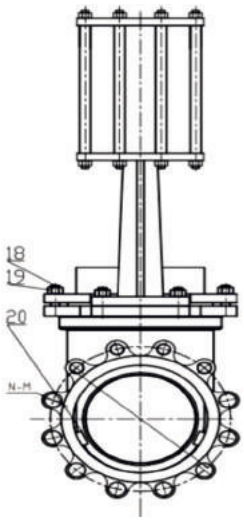
Ölçü/Size		1/2"	3/4"	1"











Pnömatik Silindir Lineer Aktüatör Bıçak Kenar Sürgülü Vana
Pneumatic Cylinder Linear Actuator Blade Edge Gate Valve
Standartlar / Standards
ASTM A351 - ANSI B 1.20.1 CF8-CF8M EN 10213
Çalışma Basınç / Working Pressure (PN 16)
Çalışma sıcaklık / Operating temperature (-20 +180°C)

DN50	DN65	DN80	DN100	DN125	DN510		DN200	DN250	DN300

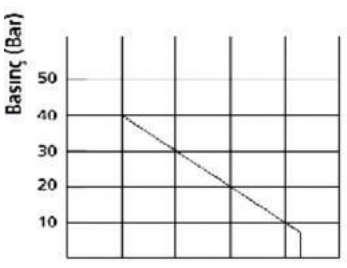
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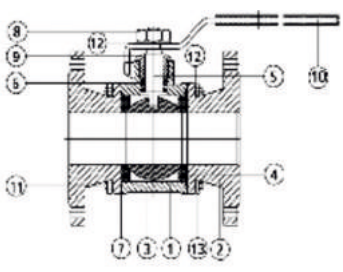
2 Parçalı Tam Geçişli Pn16 Aktuatör Bağlantılı Tepe Flanşlı Küresel Vana
2 Pcs Full Port Pn16 Actuator Connected Hıll Flanges Ball Valves
Standartlar / Standards
ASTM A351 - ANSI B 1.20.1 CF8-CF8M EN 10213
Çalışma Basınç / Working Pressure (PN 16)
Çalışma sıcaklık / Operating temperature (-20 +150°C)

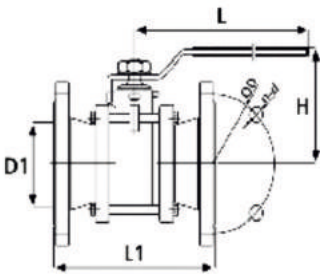
Ölçü/Size	DN-mm	PN	d	L	L1	D	L	n-d	Cv-Factor	Ağırlık Kg
1/2"	15	16	15	115	115	65	95	4--14	19,00	2,00
3/4"	20	16	20	120	120	70	105	4--14	37,00	2,70
1"	25	16	25	125	125	85	115	4--18	54,00	3,30
1 1/4"	32	16	32	130	130	100	140	4--18	103,00	4,90
1 1/2"	40	16	40	140	140	110	150	4--18	143,00	6,00
2"	50	16	50	150	150	125	165	8--18	360,00	8,70
2 1/2"	65	16	65	170	170	145	185	4--18	440,00	15,70
3"	80	16	80	180	180	160	200	8--18	520,00	14,70
4"	100	16	100	190	190	190	220	8--18	820,00	19,20
5"	125	16	125	325	325	210	250	8--18	1500,00	51,00
6"	150	16	150	350	350	240	285	8--22	1920,00	72,00
8"	200	16	200	400	400	295	340	12--22	3600,00	121,00

No	Parça Adı / Part Name	Malzeme Meterial	Adet /Q'ty
1	Gövde /Body	CF8/CF8M	1
2	Yan Gövde Sıde Body	CF8/CF8M	2
3	Küre /Ball	CF8/CF8M	1
4	Küre Teflon /Ball Teflon	RPTFE	2
5	Harekat Mili /Handel Shaft	CF8/CF8M	1
6	Sızdırmazlık Conta /Gasket Sealing	RPTFE	2
7	Conta /Shaft	RPTFE	2
8	Somun Rondele Nut Washer	SS304	2
9	Baskı Somunu /Pressure Nut	SS304	1
10	Harekat Kol / Operation Handel	SS304	1
11	Saplama / Stud	SS304	4+12
12	Rondele /Washer	SS304	8-12
13	Somun /Nut	SS304	8-12







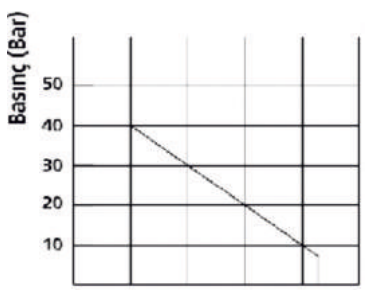


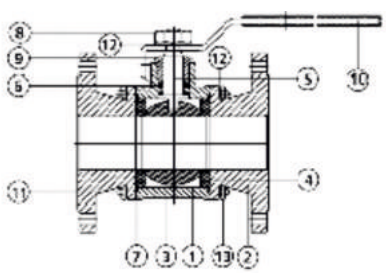
2 Parçalı Tam Geçişli Pn16 Flanşlı Küresel Vana
2 Pcs Full Port Pn16 Flanges Ball Valves
Standartlar /Standards
ASTM A351 - ANSI B 1.20.1 CF8-CF8M EN 10213
Çalışma Basınç / Working Pressure (PN 16)
Çalışma sıcaklık / Operating temperature (-20 +150°C)

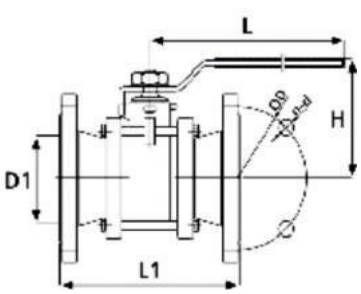
Ölçü/Size	DN-mm	PN	d	L	L1	D	L	n-d	Cv-Factor	Ağırlık Kg
1/2"	15	16	15	115	115	65	95	4--14	19,00	2,00
3/4"	20	16	20	120	120	70	105	4--14	37,00	2,70
1"	25	16	25	125	125	85	115	4--18	54,00	3,30
1 1/4"	32	16	32	130	130	100	140	4--18	103,00	4,90
1 1/2"	40	16	40	140	140	110	150	4--18	143,00	6,00
2"	50	16	50	150	150	125	165	8--18	360,00	8,70
2 1/2"	65	16	65	170	170	145	185	4--18	440,00	15,70
3"	80	16	80	180	180	160	200	8--18	520,00	14,70
4"	100	16	100	190	190	190	220	8--18	820,00	19,20
5"	125	16	125	325	325	210	250	8--18	1500,00	51,00
6"	150	16	150	350	350	240	285	8--22	1920,00	72,00
8"	200	16	200	400	400	295	340	12--22	3600,00	121,00

No	Parça Adı / Part Name	Malzeme Meterial	Adet /Q'ty
1	Gövde /Body	CF8/CF8M	1
2	Yan Gövde Sıde Body	CF8/CF8M	2
3	Küre /Ball	CF8/CF8M	1
4	Küre Teflon /Ball Teflon	RPTFE	2
5	Harekat Mili /Handel Shaft	CF8/CF8M	1
6	Sızdırmazlık Conta /Gasket Sealing	RPTFE	2
7	Conta /Shaft	RPTFE	2
8	Somun Rondele Nut Washer	SS304	2
9	Baskı Somunu /Pressure Nut	SS304	1
10	Harekat Kol / Operation Handel	SS304	1
11	Saplama / Stud	SS304	4+12
12	Rondele /Washer	SS304	8-12
13	Somun /Nut	SS304	8-12







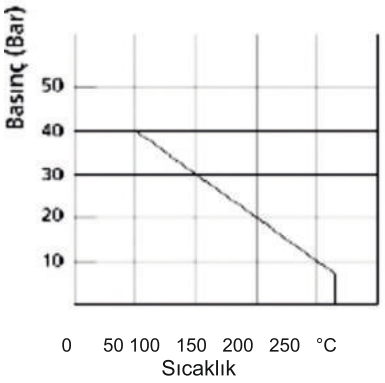


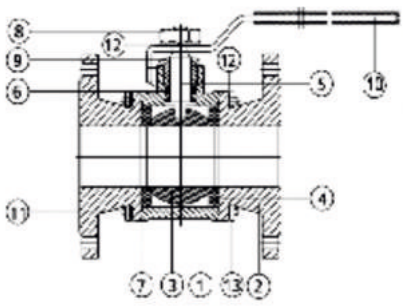
3 Parçalı Tam Geçişli Pn40 Aktuatör Bağlantılı Tepe Flanşlı Küresel Vana
3 Pcs Full Port Pn40 Actuator Connected Hıl Flanges Ball Valves
Standartlar / Standards
ASTM A351 - ANSI B 1.20.1 CF8-CF8M EN 10213
Çalışma Basınç / Working Pressure (PN 40)
Çalışma sıcaklık / Operating temperature (-20 +180°C)

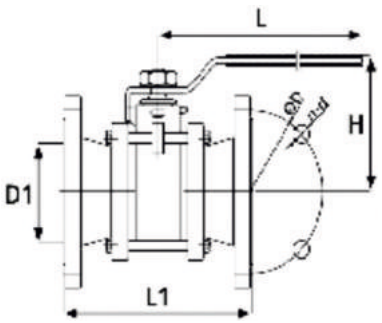
Ölçü/Size	DN-mm	PN	d	L1	H	D	L	n-d	TORK (Nm)	Ağırlık Kg
1/2"	15	40	15	130	71	65	137	4--14	7,5	2,2
3/4"	20	40	20	150	87	70	148	4--14	10	3,03
1"	25	40	25	160	90	85	179	4--18	11	3,72
1 1/4"	32	40	32	180	117	100	185	4--18	12	5,69
1 1/2"	40	40	40	200	114	110	207	4--18	30	6,56
2"	50	40	50	230	122	125	220	8--18	40	8,98
2 1/2"	65	40	65	290	150	145	240	8--18	45	15,91
3"	80	40	80	310	161	160	272	8--18	57	21,6
4"	100	40	100	350	180	190	316	8--22	69	32,4

No	Parça Adı / Part Name	Malzeme Meterial	Adet /Q'ty
1	Gövde /Body	CF8/CF8M	1
2	Yan Gövde Sıde Body	CF8/CF8M	2
3	Küre /Ball	CF8/CF8M	1
4	Küre Teflon /Ball Teflon	RPTFE	2
5	Harekat Mili /Handel Shaft	CF8/CF8M	1
6	Sızdırmazlık Conta /Gasket Sealing	RPTFE	2
7	Conta /Shaft	RPTFE	1
8	Somun Rondele Nut Washer	SS304	1
9	Baskı Somunu /Pressure Nut	SS304	1
10	Harekat Kol / Operation Handel	SS304	1
11	Saplama / Stud	SS304	4-6
12	Rondele /Washer	SS304	8-12
13	Somun /Nut	SS304	8-12



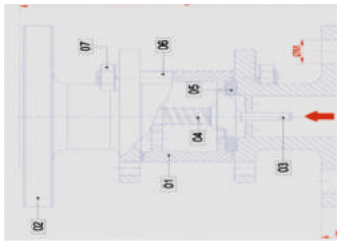






FLANŞLI YAYLI ÇEKVALF
FLANGED SPRING CHECK VALVE
Standartlar / Standards
ASTM A351 - ANSI B 1.20.1 CF8-CF8M EN558-1
Çalışma Basınç / Working Pressure (PN 16/40)
Çalışma sıcaklık / Operating temperature (-30 +180°C)

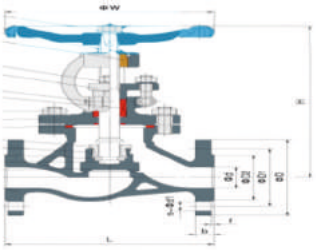




Ölçü/Size	Bağlantı Ölçüleri / Connection Dimensions PN16							Bağlantı Ölçüleri / Connection Dimensions PN40				
DN	L	D	b	N	M	F	MN	D	b	N	M	MN
DN15	130	95	14	65	14	45	4	95	16	65	14	4
DN20	150	105	16	75	14	58	4	105	18	75	14	4
DN25	160	115	16	85	14	68	4	115	18	85	14	4
DN32	180	140	16	100	18	78	4	140	18	100	18	4
DN40	200	150	16	110	18	88	4	150	20	110	18	4
DN50	230	165	18	125	18	102	4	165	22	125	18	4
DN65	290	185	18	145	18	122	4	185	24	145	18	8
DN80	310	200	20	160	18	138	8	200	24	160	18	8
DN100	350	220	20	180	18	158	8	235	24	190	18	8
DN125	400	240	20	200	18	188	8	270	24	220	18	8
DN150	480	260	20	220	18	212	8	305	24	250	18	8
DN200	600	280	20	240	18	268	8	340	24	280	18	8

FLANŞLI SÜRGÜLÜ GLOBE VANA
FLANGE GATE GLOBE VALVE
Standartlar / Standards ISO
ASTM A351 - ANSI B 1.20.1 CF8-CF8M EN558-1
Çalışma Basınç / Working Pressure (PN 16)
Çalışma sıcaklık / Operating temperature (-30 +210°C)





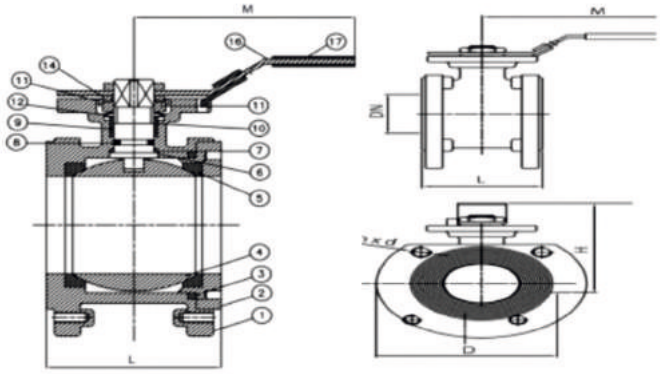
DN	İnch	L	d	D2	D1	D	b	f	n-Ød1	H	W
DN15	1/2"	130	15	45	65	95	14	2	4-14	178	120
DN20	3/4"	150	20	55	75	105	14	2	4*14	182	140
DN25	1"	160	25	65	85	115	14	2	4-18	201	140
DN32	1 1/4"	180	32	78	100	135	16	3	4-18	238	160
DN40	1 1/2"	200	40	85	110	145	16	3	4-18	249	160
DN50	2"	230	50	100	125	160	16	3	4-18	263	200
DN65	2 1/2"	290	65	120	145	180	18	3	4-18	312	200
DN80	3"	310	80	135	160	195	20	3	8-18	336	250
DN100	4"	350	100	155	180	215	20	3	8-18	388	300
DN125	5"	400	125	185	210	250	22	3	8-18	467	350
DN150	6"	480	150	210	240	285	24	3	8-22	529	400
DN200	8"	600	200	265	295	340	26	3	12-22	667	450
DN250	10"	730	250	320	355	405	26	3	12-26	825	500
DN300	12"	850	300	375	410	460	28	3	12-26	947	600

Wefer Tip Tam Geçişli Pn16 Monoblok Flanşlı Küresel Vana
Wefer Type Full Bore Pn16 Monblock Flanged Ball Valve
Standartlar / Standards
ASTM A351 - ANSI B 1.20.1 CF8-CF8M EN 10213
Çalışma Basınç / Working Pressure (PN 16)
Çalışma sıcaklık / Operating temperature (-20 +150°C)

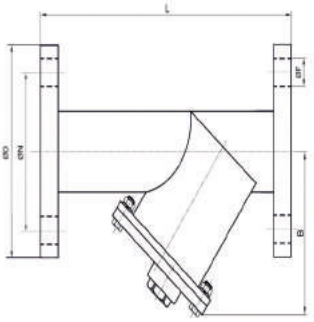
Ölçü/Size	DN-mm	PN	L	M	D	H	n-d	Ağırlık Kg
1/2"	15	16	36	115	95	95	4xM12	1,70
3/4"	20	16	38	115	105	105	4xM12	1,90
1"	25	16	50	170	115	115	4xM12	2,50
1 1/4"	32	16	53	170	140	140	4xM16	3,50
1 1/2"	40	16	65	210	150	150	4xM16	4,35
2"	50	16	78	210	165	165	4xM16	5,45
2 1/2"	65	16	98	260	185	185	4xM16	7,80
3"	80	16	118	260	200	200	8xM16	10,30
4"	100	16	140	260	220	220	8xM16	18,00

No	Parça Adı / Part Name	Malzeme Meterial
1&2	Gövde /Body	CF8/CF8M
3	Sızdırmazlık Conta /Gasket Sealing	RPTFE
4	Küre /Ball	CF8/CF8M
5	Küre Teflon /Ball Teflon	RPTFE G.Fiber
6	Gövde Kasnağı/Stem	CF8/CF8M
7	Somun Rondele Nut Washer	PTFE
8	O-Ring	EPDM
9	Salmastra /Stem Packing	PTFE
10	Sap /Stem Ring	CF8/CF8M
11	Somun /Nut	CF8/CF8M
12	Yay Pulu /Spring Easher	CF8/CF8M
13	Kilit Yıkayıcı /Lock Washer	CF8/CF8M
14	Yıkayıcı / Washer	CF8/CF8M
15	Durdurma Pimi/ Stop Pin	CF8/CF8M
16	Kol /Handle	CF8/CF8M
17	Harekat Kol / Operation Handel	Vynil









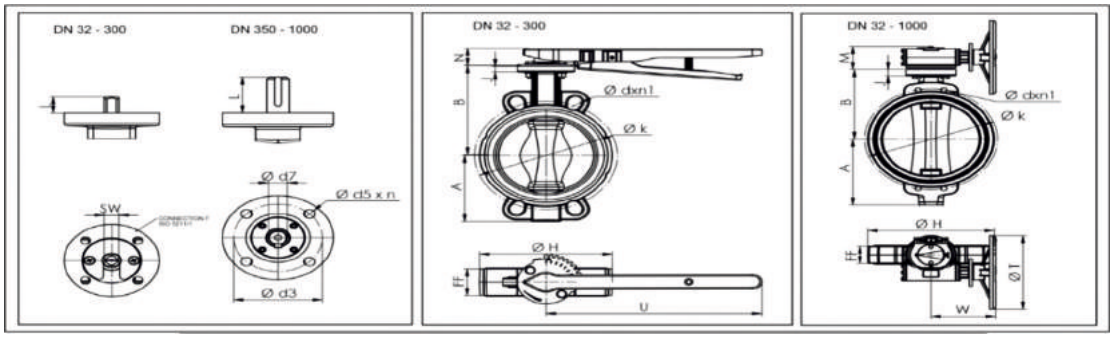
Y TİPİ FLANŞLI PİSLİK TUTUCU
Y TYPE FLANGE STRAINER
Standartlar / Standards ISO
ASTM A351 - ANSI B 1.20.1 CF8-CF8M EN558-1
Çalışma Basınç / Working Pressure (PN 16/40)
Çalışma sıcaklık / Operating temperature (-30 +250°C)

Ölçü/Size	Bağlantı Ölçüleri / Connection Dimensions						Ağırlık Weight
DN	QF	B	QN	QDN	QD	L	Kg
DN15	14x4	51	65	15	95	150	3,10
DN20	14x4	57	75	20	105	150	3,78
DN25	14x4	66	85	25	115	160	4,74
DN32	18x4	78	100	32	140	180	5,78
DN40	18x4	88	110	40	150	200	6,75
DN50	18x4	104	125	50	165	230	9,50
DN65	18x4	150	145	65	185	286	13,10
DN80	18x8	185	160	80	200	306	16,50
DN100	18x8	210	180	100	220	345	23,24
DN125	18x8	250	210	125	250	295	33,60
DN150	22x8	285	240	150	285	475	50,00
DN200	22x12	450	295	200	340	595	87,00
DN250	22x12	530	355	250	405	845	148,00
DN300	22x12	585	410	300	460	995	200,00

Parça Tanımı / Part Introduction		Malzeme tanımı ve tasarımı Material definition and design
Gövde /Body	CF8 / CF8M	GÖVDE MALZEMESİ /AISI-304/316/ BODY MATERIALL AISI-304/316
Filitre/Fılter	CF8 / CF8M	BOŞALTMA TAPASI AISI-304/316 /DISCHARGE SPILE AISI-304/316
Conta /Gascet	PTFE /Teflon	SIZDIRMAZLIK TEFLONU Politetrafloretilen (P.T.F.E.) TIGHTNESS ELEMENT
Kapak /Bonnet	CF8 / CF8M	ÇALIŞMA BASINCI: PN 16/40 Kg/cm² WORKING PRESSURE: PN 16/40 Kg/cm²
Cıvata/Bolt	CF8 / CF8M	ÇALIŞMA SICAKLIĞI: -30°C/ +250°C WORKING TEMPERATURE: -30°C/ +250°C
Tapa /Stoper	CF8 / CF8M	BAĞLANTILAR: EN 1092-1 CONNECTIONS: EN 1092-1

KELEBEK VANA	BUTTERFLY VALVE
Vana Tipi/Valve Type	Wafer -Luk Dişli Kutulu Klebek Vana
Çalışma Basıncı Operating pressure	PN6-PN10
FLANŞ Basıncı Flange pressure	PN6-PN10-16 ANSI 150LB
GÖVDE / BODY	GG25,GGG40-50 GG40,3 SS316-GS C25
GÖVDE SİTİL / BODY STL	EPDM-NBR-VİTON-SLİKON
KLAPE / CLAMP	SS304-Al B GG40-50 GS-C25
MİL / SHAFT	SS304/SS316-SS420
BURÇ / HOROSCOPE	SB CARBON STEEL+PTFE
O-RİNG	NBR
PUL / STAMP	ST-37-A2
CİVATA / BOLT	ST-37
ALT KAPAK / BOTTOM COVER	8.8 A-2



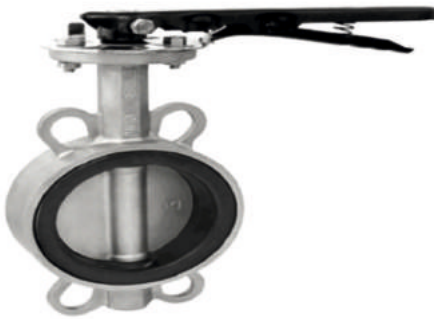


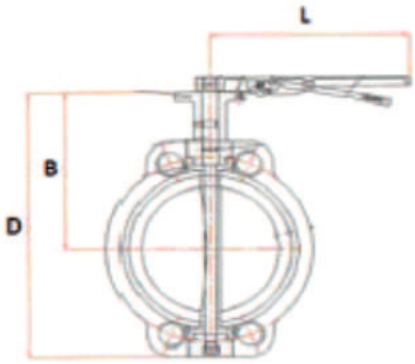
DN	A	B	FF	QH	J	M	N	U	W	QT	F	Ød5xn	□ SW Ød7	L
Q32	62	96	40	87	13	50	37	220	160	200	5	7x4	? 9	20
Q40	62	96	40	87	13	50	37	220	160	200	5	7x4	? 9	20
Q50	67	108	42	100	13	50	37	220	160	200	5	7x4	? 9	20
Q65	80	127	46	123	13	50	37	220	160	200	7	9x4	? 11	20
Q80	99	132	46	137	14	50	37	220	160	200	7	9x4	? 14	20
Q100	110	155	52	156	14	50	37	260	160	200	7	9x4	? 14	20
Q125	123	158	56	187	14	50	37	260	160	200	7	9x4	? 14	20
Q150	141	185	56	212	14	50	37	350	160	200	7	9x4	? 17	22
Q200	174	203	60	265	15	75	37	350	160	200	7	9x4	? 17	22
Q250	208	245	68	319	15	75	47	400	175	260	10	11x4	? 22	32
Q300	250	282	78	372	15	81	47	400	175	260	10	11x4	? 27	32

Ød3	PN10 Ø k	Ød	n1	PN10 Ø k	Ød	n1	FEREE SHAFT Weight (Kg)	HAND LEVER Type	Weight (Kg)	GEAR BOX Type	Weight (Kg) PN10	GEAR BOX Type	Weight (Kg) PN16
50	100	Ø 18	4	100	Ø 18	4	2,4	92,150		AST-20		AST-20	
50	110	Ø 18	4	110	Ø 18	4	2,4	92,150	0,600	AST-20		AST-20	
70	125	Ø 18	4	125	Ø 18	4	2,5	92,150		AST-20		AST-20	
70	145	Ø 18	4	145	Ø 18	4	3,8	92,150		AST-20		AST-20	
70	160	Ø 18	8	160	Ø 18	8	4,1	92,200		AST-20	2,9	AST-20	,5
70	180	Ø 18	8	180	Ø 18	8	5,3	92,200	0,800	AST-20		AST-20	
70	210	Ø 18	8	210	Ø 18	8	6,5	92,200		AST-20		AST-20	
70	240	Ø 22	8	240	Ø 22	8	8	92,300	0,900	AST-20		AST-20	
70	295	Ø22	8	295	Ø22	12	12,5	92,300		AST-20		AST-20	
102	355	Ø 26	12	355	Ø 26	12	20,5	92,400	2,600	AST-30	8.200	AST-30	
102	400	Ø 26	12	410	Ø 26	12	30	92,400		AST-30		AST-30	

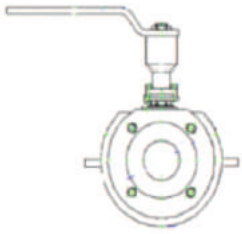
KOMPLE PASLANMAZ WAFER KELEBEK VANA
COMPLETE STAINLESS WAFER BUTTERFLY VALVE

Ölçü/Size	DN	D	D	Bore	Ağırlık/W
2"	50	105	105	30	0,66
2 1/2"	65	124	124	42	1,00
3"	80	137	137	50	2,20
4"	100	175	175	72	2,80
5"	125	197	197	93	5,50
6"	150	222	222	113	8,80
8"	200	179	179	142	15,28
10"	250	340	340	190	21,34
12"	300	410	410	221	26,80
14"	350	451	451	260	31,80
16"	400	514	514	306	44,00
18"	450	549	549	358	56,00
20"	500	606	606	408	78,10
24"	600	660	660	510	117,89





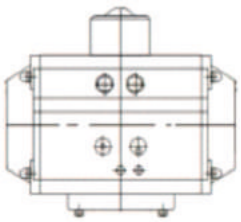




PASLANMAZ KÜRSEL VANA ISITMA ÇEKETLİ
STAINLESS BALL VALVE WITH HEATING BOAT
Standartlar / Standards / SMS
Çalışma Basınç / Working Pressure (0-10 Bar)

Ölçü/Size	Ağırlık/W
1"	0,66
1 1/4"	1,00
1 1/2"	2,20
2"	2,80
2 1/2"	5,50
3"	8,80
4"	15,28



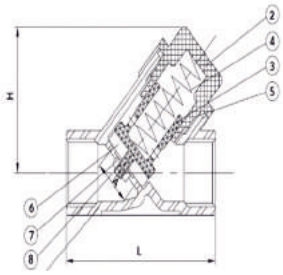


KÜRESEL VANA AKTÜATÖRÜ
BALL VALVE ACTUATOR

"Tork Değeri P.6-8 Bar"	"Flanş Ölçü ISO 5211"	Açma Kapama (sn)	
18Mn	F03/F04	0,22	0,26
25Mn	F03/F04	0,22	0,26
42Mn	F03/F05	0,27	0,33
110Mn	F05	0,39	0,48
178Mn	F07	0,52	0,63
330Mn	F07	0,95	1,15
420Mn	F07	1,3	1,8

DİŞLİ Y TİPİ YAYLI ÇEKVALF
THREADED Y TYPE SPRING CHECK VALVE
Standartlar / Standards
ASTM A351 - ANSI B 1.20.1 CF8-CF8M EN 10213
Çalışma Basınç / Working Pressure (PN 18)
Çalışma sıcaklık / Operating temperature (-20 +210°C)



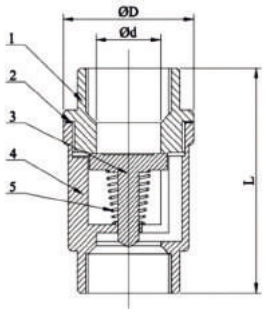


Ölçü/Size	A	H	L	Kg (Weight)
1/2"	15	45	65	0,36
3/4"	20	52	80	0,41
1"	25	66	90	0,67
1 1/4"	32	70	105	0,71
1 1/2"	40	78	120	1,00
2"	50	95	140	1,42
2 1/2"	65	122	180	2,37
3"	80	141	200	3,89

Parça Tanımı Part Introduction		Miktar/Q'TY
Gövde /Body	CF8/CF8M	1
Kap /Cap	CF8/CF8M	1
Piston /Pıston	CF8/CF8M	1
Conta /Shaft	TEFLON	1
Yay/ Sprıng	CF8/CF8M	1
Yıkayıcı/Waher	TEFLON	1
Cıvata/Bolt	CF8/CF8M	1

DİŞLİ DİK YAYLI ÇEKVALF
THREADED STEEP CHECK VALVE
Standartlar / Standards
ASTM A351 - ANSI B 1.20.1 CF8-CF8M EN 10213
Çalışma Basınç / Working Pressure (PN 18)
Çalışma sıcaklık / Operating temperature (-20 +210°C)



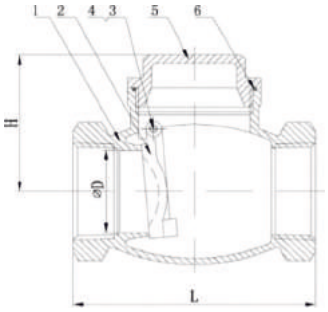


Ölçü/Size	d	D	L	Kg (Weight)
1/2"	15	37	56	0,214
3/4"	20	42	63	0,340
1"	25	48	74	0,565
1 1/4"	32	58	81	0,690
1 1/2"	40	70	91	0,890
2"	50	82	97	1,300

Parça Tanımı Part Introduction		Miktar/Q'TY
Kap /Cap	CF8/CF8M	1
Gövde Conta /Gasket	PTFEE	1
Disk /Disc	CF8/CF8M	1
Gövde /Body	CF8/CF8M	1
Yay/ Sprıng	CF8/CF8M	1
Piston /Pıston	CF8/CF8M	1

DİŞLİ ÇALPARA ÇEKVALF
THREADED SWİNG CHECK VALVE
Standartlar / Standards
ASTM A351- ANSI B 1.20.1 CF8-CF8M EN 10213
Çalışma Basınç / Working Pressure (PN 18)
Çalışma sıcaklık / Operating temperature (-20 +210°C)



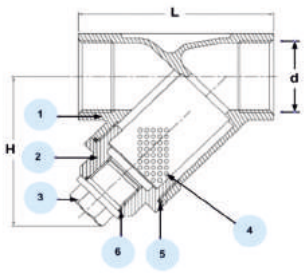


Ölçü/Size	D	H	L	Kg (Weight)
1/2"	1/2"	41,5	64	0,40
3/4"	3/4"	51,5	80	0,49
1"	1"	56,5	90	0,70
1 1/4"	1 1/4"	70	104	1,02
1 1/2"	1 1/2"	75	119	1,20
2"	2"	80	137	1,51

Parça Tanımı Part Introduction		Miktar/Q'TY
Gövde /Body	CF8/CF8M	1
Disk /Disc	CF8/CF8M	1
Hanger pim /Hanger Pin	CF8/CF8M	1
Çekiş Conta /Pulg Gasket	PTFEE	1
Kapak başlığı /Bonnet	CF8/CF8M	1
Gaket /Conta	PTFEE	2

DİŞLİ Y TİPİ PİSLİK TUTUCU
Y TYPE GEAR STRAINER
Standartlar / Standards
ASTM A351 - ANSI B 1.20.1 CF8-CF8M EN 10213
Çalışma Basınç / Working Pressure (PN 40)
Çalışma sıcaklık / Operating temperature (-20 +210°C)



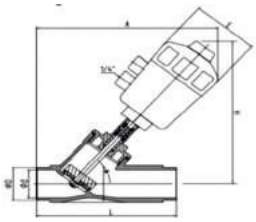


Ölçü/Size	D	H	L	Kg (Weight)
1/2"	1/2"	51	65	0,21
3/4"	3/4"	60	80	0,35
1"	1"	72	90	0,51
1 1/4"	1 1/4"	77	105	0,82
1 1/2"	1 1/2"	87	120	1,15
2"	2"	103	140	1,95
2 1/2"	2 1/2"	124	180	3,60

Parça Tanımı Part Introduction		Miktar/Q'TY
Gövde /Body	CF8/CF8M	1
Ekran /Screen	CF8/CF8M	1
Conta /Gasket	CF8/CF8M	4
Kapak Başlığı /Bonnet	CF8/CF8M	1
O-ring	Viton	1
Giriş Çıkış /Cap	CF8/CF8M	1

Dişli Y-Tipi Pnömatik Pistonlu Kontrol Vanası
Threaded Y-Type Pneumatic Piston Control Valve
Standartlar / Standards ISO
Çalışma Basınç / Working Pressure 6-10 Bar)
Çalışma sıcaklık / Operating temperature (-30 +120°C)

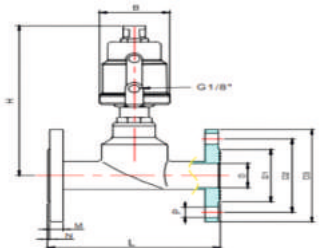




Ölçü/Size	İnch	d	D	L	H	A		E	Actuatar
15	1/2"	15,5	19,5	100	137	175		64	50
20	3/4"	21,5	26,5	120	145	180		64	50
25	1"	28,5	32,5	140	185	215		80	63
32	1 1/4"	33	38,5	155	210	235		80	63
40	1 1/2"	46	52	170	260	245		80	63
50	2"	57	64	190	300	325		100	80
65	2 1/2"	68	77	200	340	355		100	80
80	3"	82	92	220	385	400		126	100

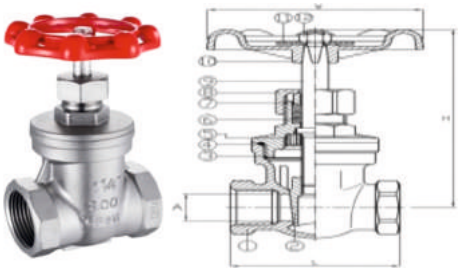
Flanşlı Y-Tipi Pnömatik Pistonlu Kontrol Vanası
Flange Y-Type Pneumatic Piston Control Valve
Standartlar / Standards ISO
Çalışma Basınç / Working Pressure 6-10 Bar)
Çalışma Sıcaklık / Operating temperature (-30 +90°C)





Ölçü/Size	İnch	D	D1	D2	D3	M	N	B	L	H	P	P
15	1/2"	16	45	65	96	14	2	62	120	171	4-14	
20	3/4"	20	56	75	106	14	2	62	130	173	4-14	
25	1"	25	66	85	115	14	2	62	136	188	4-14	
32	1 1/4"	32	78	100	140	16	3	76	150	234	4-18	
40	1 1/2"	39	84	110	150	16	3	76	165	237	4-18	
50	2"	50	100	125	165	16	3	76	190	254	4-18	
65	2 1/2"	66	120	145	185	18	3				8-18	
80	3"	80	135	160	200	20	3				8-18	
100	4	100	155	180	215	20	3				8-18	

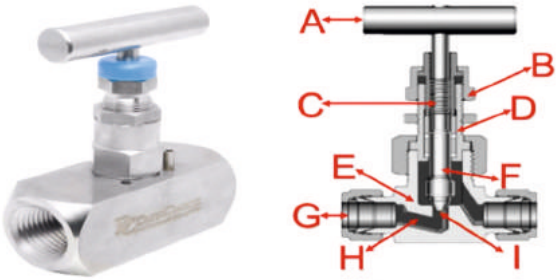
DİŞLİ TAM GEÇİŞLİ GEYT VANA ÇEKVALF
THREADED FULL PORT GATE VALVE
Standartlar / Standards
ASTM A351 - ANSI B 1.20.1 CF8-CF8M EN 10213
Çalışma Basınç / Working Pressure (PN 16)
Çalışma sıcaklık / Operating temperature (-20 +210°C)



Ölçü/Size	W	H	L	A	Kg (Weight)
1/2"	72	97	55	15	0,79
3/4"	72	103	60	20	1,07
1"	72	113	68	25	1,48
1 1/4"	80	132	77	32	2,18
1 1/2"	90	156	80	40	3,19
2"	100	172	93	50	4,70
2 1/2"	130	200	110	65	11,79
3"	140	205	120	80	15,60

Parça Tanımı Part Introduction		Miktar/Q'TY
Gövde /Body	CF8/CF8M	1
Disk /Disc	CF8/CF8M	1
Kapak başlığı /Bonnet	CF8/CF8M	1
Conta /Gasket	PTFEE	1
Conta /Seat	PTFEE	1
Kasnak Conta/Packing	CF8/CF8M	1
Somun/Nut	CF8/CF8M	1
Yön Çubuğu/ Gland	CF8/CF8M	1
Gövde Kasnağı/Stem	CF8/CF8M	1

DİŞLİ İĞNELİ VANA 6000 psi
THREADED NEEDLE VALVE 6000 psi
Standartlar / Standards
ASTM A351 - ANSI B 1.20.1 CF8-CF8M EN 10213
Çalışma Basınç / Working Pressure (330-380 bar)
Çalışma sıcaklık / Operating temperature (-60 +400°C)



Ölçü/Size	A1	A2	B	C	D
1/8"	38	25	44	75	45,00
1/4"	38	25	44	75	50,00
3/8"	42	28	60	80	55,00
1/2"	48	32	65	85	60,00

Parça Tanımı Part Introduction		Miktar/Q'TY
Gövde /Body	CF8M/316	2
Kök /Root	CF8M/316	1
Sızırmazlık/Sealing	PTFEE	1
Somun /Nut	CF8M/316	1

Parça Tanımı Part Introduction		Miktar/Q'TY
O-Ring	Viton	1
Cıvata/Bolt	CF8M SS304	1
Kaldıraç Kol/Lever	Alümnyumi-Alloy	1
Gövde /Body	CF8M SS304	1
Kap /Cap	CF8M SS304	1
Top / Ball	CF8M SS304	1
Baskı Rondelası /Thrust Waher	PTFE	1
Plastik Kol /Plastic Handle	Vınly Grıp	1



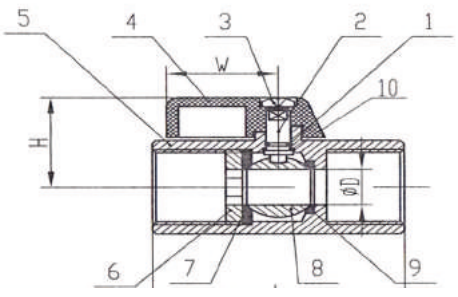


Mini Dişli Küresel Vana
Mini g Thereaded Ball Valves
Standartlar / Standards
ASTM A351 - ANSI B 1.20.1 CF8-CF8M EN 10213
Çalışma Basınç / Working Pressure (PN 63)
Çalışma sıcaklık / Operating temperature (10 +180°C)

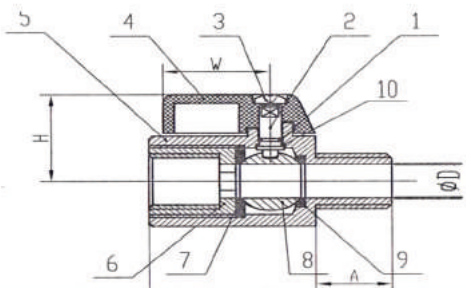
BOYUTLAR / DIMENSIONS (LV 6101)							
Ölçü/Size	D	L	H	W	B	Nm	Kg (Weight)
1/4"	7	42	26	22,80	21,00	3,40	0,10
3/8"	7	42	26	22,80	21,00	3,40	0,10
1/2"	9	46	28	22,80	24,50	4,50	0,12
3/4"	12	54	30	22,80	24,50	4,50	0,17
1"	15	62	30	22,80	24,50	5,00	0,17

BOYUTLAR / DIMENSIONS (LV 6102)							
Ölçü/Size	D	L	H	W	B	Nm	Kg (Weight)
1/4"	7	42	26	22,80	21,00	3,40	0,10
3/8"	7	42	26	22,80	21,00	3,40	0,10
1/2"	9	46	28	22,80	24,50	4,50	0,12
3/4"	12	54	31	22,80	24,50	4,50	0,17
1"	15	62	34	22,80	24,50	5,00	0,17

LV 6101

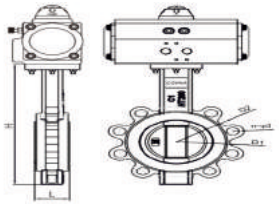


LV 6102



Pnömatik Aktuatörlü Wafer-Lug Tipi Kelebek vana
Pneumatic Soft Sealing - Wafer-Lug Type Butterfly Valve
Standartlar / Standards
ASTM A351 - ANSI B 1.20.1 CF8-CF8M EN 10213
Çalışma Basınç / Working Pressure (PN 63)
Çalışma sıcaklık / Operating temperature (-20 +210°C)

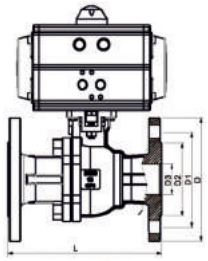




Ölçü/Size	İnch	D	D1	D2	L	H	n-Ød	Actuator
50	2"	52,7	92	120,5	41,4	217	4-M16	AT52
65	2 1/2"	64,5	105	139,5	44	234	4-M16	AT52
80	3"	78,8	127	152,5	45	252	8-M16	AT63
100	4"	104,2	157	190,5	52	289	8-M16	AT75
125	5"	123,3	186	216	54	318	8-M16	AT83
150	6"	157	216	241,5	54	341	8-M16	AT92
200	8"	202,5	270	298,5	55	428	12-M20	AT115
250	10"	250,4	314	362,5	60	490	12-M24	AT125
300	12"	301,6	381	432	65	567	12-M24	AT140
350	14"	333,3	413	476	76			
400	16"	389,6	470	539,5	86			
500	20"	491,6	584	635	130			

Pnömatik Aktuatörlü Flanşlı Küresel Vana
Flanged Ball Valve with Pneumatic Actuator
Standartlar / Standards
ASTM A351 - ANSI B 1.20.1 CF8-CF8M EN 10213
Çalışma Basınç / Working Pressure (PN 16)
Çalışma sıcaklık / Operating temperature (-20 +210°C)



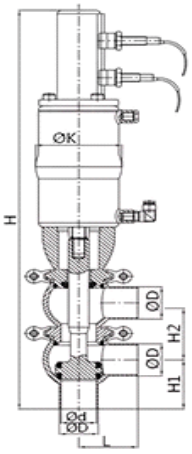


Ölçü/Size	G	D3	D2	D1	D	L	n-Ød	Weight (Kg)	Actuator
15	1/2"	15	45	65	95	130	4-Ø14	3,68	AT52
20	3/4"	20	55	75	105	140	4-Ø14	3,98	AT52
25	1"	25	65	85	115	150	4-Ø14	4,38	AT52
32	1 1/4"	32	78	100	135	165	4-Ø18	6,48	AT63
40	1 1/2"	40	85	110	145	180	4-Ø18	8,38	AT75
50	2"	50	100	125	160	200	4-Ø18	10,18	AT83
65	2 1/2"	65	120	145	180	222	4-Ø18	15,58	AT93
80	3"	80	135	160	195	250	8-Ø18	18,08	AT105
100	4"	100	155	180	215	280	8-Ø18	26,26	AT125
125	5"	125	185	210	245	320	8-Ø18	37,68	AT140
150	6"	150	210	240	280	360	8-Ø20	53,98	AT160
200	8"	200	265	295	336	400	8-Ø23	77,34	AT210

Sıhhi Pnömatik Kapatma Tek Yataklı Yön Değiştirici Vanalar Hijyenik
Sanitary Pneumatic Shut Off Single Seat Diverter Valves Hygienic
Standartlar / Standards Dın 11850 / SMS
Çalışma Basınç / Working Pressur10 Bar)
Çalışma sıcaklık / Operating temperature (-30 +135-175°C)



Ölçü/Size	D	d	H1	H2	L	H	K	Ağrık /Weight
1"	25	22,4	61	66	61	465	85	5,08
1 1/2"	38	35,1	58	67	58	463	85	5,25
2"	51	47,8	66	76	66	504	126	6,46
2 1/2"	63,5	59,7	77	88	77	534	126	13
3"	76,1	72,2	97	106	97	581	126	17
4"	101,6	97,6	106	135	114	670	151	24,8

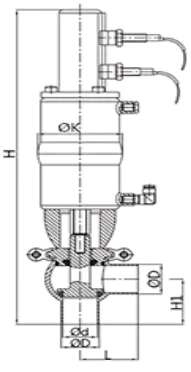


Ölçü/Size	D	d	H1	H2	L	H	K	Ağrık /Weight
25	28	25	61	66	61	465	85	5,08
32	34	31	61	66	58	465	85	5,09
40	40	37	58	67	66	463	126	5,12
50	52	49	66	76	77	504	126	6,46
65	70	66	97	106	97	581	126	11,7
80	85	81	97	120	107	612	140	18,22
100	104	100	106	135	114	670	151	24,28

Ölçü/Size	D	d	H1	L	H	K	Ağrık /Weight
1"	25	22,4	61	61	398	85	5,08
1 1/2"	38	35,1	59	58	396	85	5,25
2"	51	47,8	66	66	428	126	6,46
2 1/2"	63,5	59,7	77	77	446	126	13,00
3"	76,1	72,2	97	97	475	126	17,00
4"	101,6	97,6	106	114	535	151	24,80



Ölçü/Size	D	d	H1	L	H	K	Ağrık /Weight
25	28	25	61	61	398	85	4,37
32	34	31	61	58	396	85	4,35
40	40	37	58	66	428	126	4,36
50	52	49	66	77	446	126	5,41
65	70	66	97	97	475	126	9,1
80	85	81	97	107	492	240	15,5
100	104	100	106	114	535	151	19,85

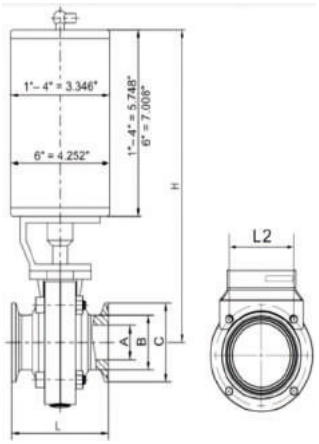


KLEMP BAĞLANTILI PNÖMATİK AKTÜATÖRLÜ KELEBEK VANA
CLAMP CONNECTED PNEUMATIC ACTUATOR BUTTERFLY VALVE
Standartlar / Standards DIN 11850
Hava Besleme Basıncı 80-100 PSI/Air Supply Pressure 80-100 PSI
Çalışma sıcaklık / Operating temperature (-10 +110°C)
Sızdırmazlık / Sealing Slikon-EPDM

"Ölçü/Size"	C	B	L	L2	Ağırlık Weight/Kg
25	50,4	26	84	1,850	4,37
32	50,4	32	92	1,987	4,35
40	50,5	38	102	2,046	4,36
50	64	50	106	2,363	5,41
65	77,5	66	114	2,756	9,10
80	91	81	134	3,051	15,50
100	119	100	152	3,858	19,85

KLEMP BAĞLANTILI PNÖMATİK AKTÜATÖRLÜ KELEBEK VANA
CLAMP CONNECTED PNEUMATIC ACTUATOR BUTTERFLY VALVE
Standartlar / Standards SMS/ISO
Çalışma Basınç / Working Pressure (10 Bar)
Çalışma sıcaklık / Operating temperature (-10 +110°C)
Sızdırmazlık / Sealing Slikon-EPDM

"Ölçü/Size"	C	B	L	L2	"Ağırlık Weight/Kg"
1"	50,40	87	90	1,850	4,17
1 1/2"	50,40	97	95	2,046	4,22
2"	64,00	110	100	2,363	5,30
2 1/2"	77,40	112	102	2,756	7,80
3"	90,90	127	110	3,051	10,80
4"	118,90	162	128	3,858	18,86



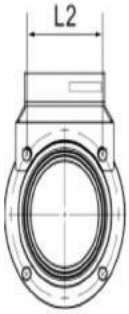


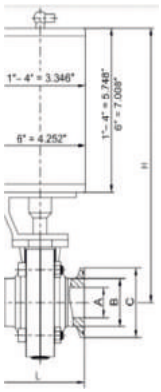
KAYNAKLI WELDING PNÖMATİK AKTÜATÖRLÜ KELEBEK VANA
KAYNAKLI WELDING PNEUMATIC ACTUATOR BUTTERFLY VALVE

Standartlar / Standards DIN 11850
Hava Besleme Basıncı 80-100 PSI/Air Supply Pressure 80-100 PSI
Çalışma sıcaklık / Operating temperature (-10 +110°C)
Sızdırmazlık / Sealing Slikon-EPDM

"Ölçü/Size"	C	B	L	L2	Ağırlık Weight/Kg
25	50,4	26	84	1,850	4,37
32	50,4	32	92	1,987	4,35
40	50,5	38	102	2,046	4,36
50	64	50	106	2,363	5,41
65	77,5	66	114	2,756	9,10
80	91	81	134	3,051	15,50
100	119	100	152	3,858	19,85



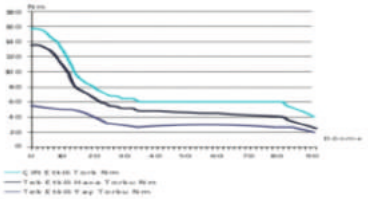




Ölçü	A (mm)	B (mm)	C (mm)
Tork-85 DA/SR	183	89	8.10.12

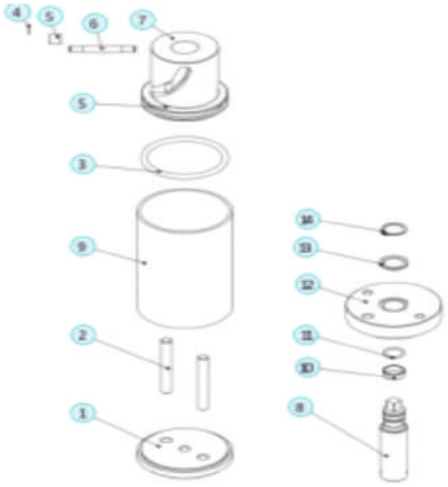


Tork Değeri /Torque Value



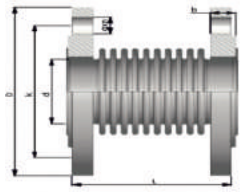
Parça Adı Part Name	Malzemeler Meterial	"Miktar Quantiy"
Alt Kapak /Bottom Cover	CF8M /S316L	1
Mil Yatak Piston/Shaft Bearing Piston	CF8M /S316L	2
O-ring /O-ring	NBR	1
Segman /Segment	8,8	2
Rulman/Roller	CF8M /S316L	2
Mil Rulman/ Shaft Reller	CF8M /S316L	1
Piston /Piston	Kestamit	1
Mil /Shaft	CF8M /S316L	1
Gövde /Body	CF8M /S316L	1
Delrin /Delrin	POM-C	1
O-ring/ O-ring	NBR	1
Üst Kapak /Top cover	CF8M /S316L	1
Pul Yataklama / Stamp Bedding	Bronz	1
Segman /Segment	8,8	1

Malzemeler Meterial



Döner ve Sabit Kople Paslanmaz Flanşlı Kompansatör
Rotating and Fixed Coupling with Stainless Flange compensator
Çalışma Basınç / Working Pressure (16 BAR)
Çalışma sıcaklık / Operating temperature (-30 +240°C)

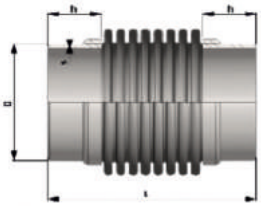




ÇAP (DIAMETER)		Genleşme Miktarı (L mm) Expansion Amount (L mm)									
Size /DN	Inch	30	45	60	D	d	k	b	n	q	"Efektik Alan (cm 2)"
25	1"	110			115	43	85	18	4	14	18
32	1 1/4"	110			140	43	100	18	4	18	18
40	1 1/2"	120	150		150	49	110	18	4	18	22
50	2"	120	150		165	61	125	18	4	18	36
65	2 1/2"	120	150	180	185	77	145	18	4	18	58
80	3"	120	150	180	200	89	160	20	8	18	78
100	4"	120	150	185	220	115	180	20	8	18	124
125	5"	125	155	190	250	140	210	22	8	18	180
150	6"	130	155	200	285	169	240	22	8	22	252
200	8"	150	190	230	340	220	295	24	12	22	430
250	10"	165	205	245	405	274	355	26	12	26	660

Kaynak Boyunlu Paslanmaz Flanşlı Kompansatör
Welded Nick Stainless Flange compensator
Çalışma Basınç / Working Pressure (16 BAR)
Çalışma sıcaklık / Operating temperature (-30 +240°C)

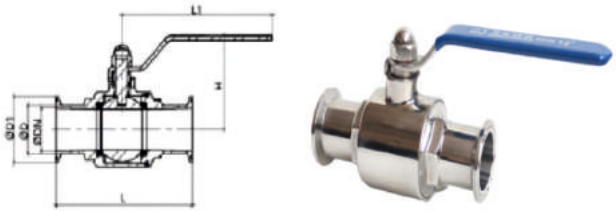




ÇAP (DIAMETER)		Genleşme Miktarı (L mm) Expansion Amount (L mm)						
Size /DN	Inch	30	45	60	D	s	h	"Efektik Alan (cm 2)"
25	1"	180			33,7	2,6	50	18
32	1 1/4"	180			42,4	3,2	50	18
40	1 1/2"	190	220		48,3	3,2	50	22
50	2"	185	215		60,3	3,6	50	36
65	2 1/2"	185	215	240	76,1	3,6	50	58
80	3"	185	215	245	88,9	4	50	78
100	4"	200	230	265	114,3	4,5	60	124
125	5"	200	230	265	139,7	5	60	180
150	6"	245	270	315	168,3	5	80	252
200	8"	265	305	340	219,1	5	80	430
250	10"	310	360	395	273	5	100	660

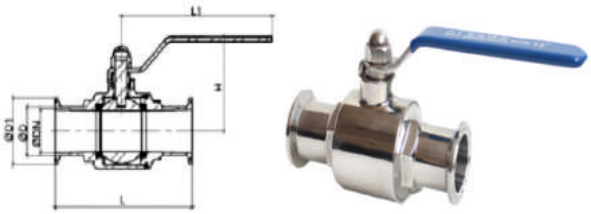
KLEMP BAĞLANTIL MANUEL KÜRSEL VANA
CLAMP CONNECTION MANUAL BALL VALVE HYGIENIC
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (0-10 Bar)
Çalışma sıcaklık / Operating temperature (-40 +200°C)

Ölçü Size DN	D1	QDN	H	L	Ağırlık Weight
20	22	19,35	50,5	120	0,45
25	28	24,5	50,5	120	0,47
32	34	30,8	50,5	130	0,72
40	40	36,6	50,5	140	1,91
50	52	48,5	64	164	3,21
65	70	63,5	91	189	6,88
80	85	81,8	91	212	12,90
100	104	100,7	64	260	18,45



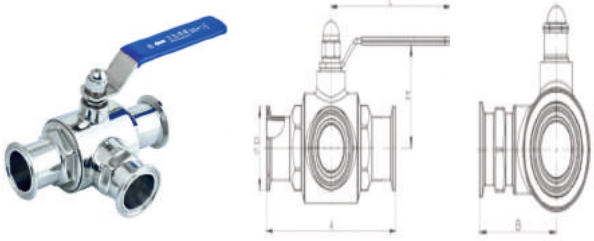
KLEMP BAĞLANTIL MANUEL KÜRSEL VANA
CLAMP CONNECTION MANUAL BALL VALVE HYGIENIC
Standartlar / Standards ISO-SMS
Çalışma Basınç / Working Pressure (0-10 Bar)
Çalışma sıcaklık / Operating temperature (-40 +200°C)

Ölçü Size DN	D1	QDN	H	L	Ağırlık Weight
1"	25	22,1	50,5	120	0,45
1 1/2"	38	34,8	50,5	140	1,80
2"	51	47,5	64	164	3,20
2 1/2"	63,5	60,2	77,5	189	6,00
3"	76,1	72,9	91	212	6,78
4"	101,6	97,4	119	260	17,50



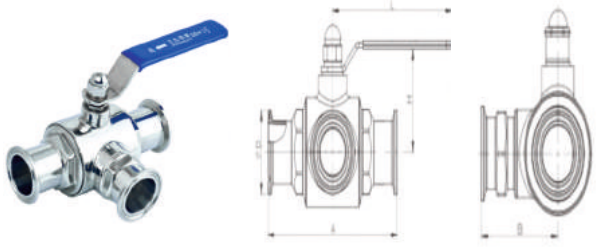
KLEMP BAĞLANTIL 3 YOLLU MANUEL KÜRSEL VANA HİJYENİK
CLAMP CONNECTED 3-WAY VALVE HYGIENIC
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (0-10 Bar)
Çalışma sıcaklık / Operating temperature (-40 +200°C)

Ölçü Size DN	A	B	D	H	L	Ağırlık Weight
20	101	55	34	55	120,00	0,66
25	120	61	50,5	55	132,00	0,73
32	130	60,5	50,5	60	136,00	1,55
40	153	73	50,5	65	160,00	1,90
50	164	84	64	65	178,00	4,50
65	200	101	91	100	225,00	7,00
80	210	105	106	110	250,00	12,00
100	260	132	119	140	300,00	24,10



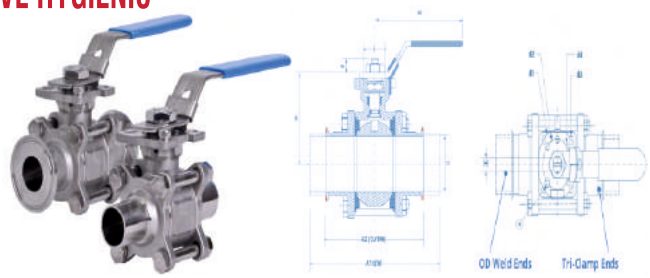
KLEMP BAĞLANTIL 3 YOLLU MANUEL KÜRSEL VANA HİJYENİK
CLAMP CONNECTED 3-WAY VALVE HYGIENIC
Standartlar / Standards ISO-SMS
Çalışma Basınç / Working Pressure (0-10 Bar)
Çalışma sıcaklık / Operating temperature (-40 +200°C)

Ölçü Size DN	A	B	D	H	L	Ağırlık Weight
1"	120	55	25,2	55	132,00	0,80
1 1/2"	153	73	50,5	65	160,00	1,70
2"	164	84	64	65	178,00	4,30
2 1/2"	200	102	77,5	100	225,00	7,50
3"	210	105	91	110	250,00	8,38
4"	260	132	119	140	300,00	21,60



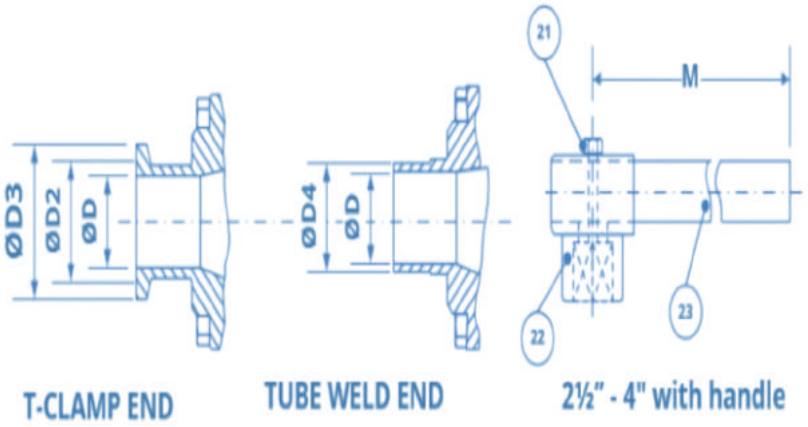
KLEMP BAĞLANTIL VE KANAKLI MANULEL KÜRSEL VANA HİJYENİK
MANUAL BALL VALVE WITH CLAMP CONNECTION AND GROOVE HYGIENIC

Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (0-10 Bar)
Çalışma sıcaklık / Operating temperature (-40 + 200°C)
Conta/ Gasket Silikon, EPDM, PTFE



Sıhhi Küresel Vana için Boyutlar /Dimensions for Sanitary Ball Valve														
Ölçü Size	A1	A2	B	C	D	d1	d2	d3	d4	E	H	M	Wt.Kg Clap	Wt.Kg Tube
1/2"	124,4	90	35	9,5	9,6	42	36	6	6	9	9	135	0,76	0,71
3/4"	142,5	101,6	39	9,5	15,8	42	36	6	6	9	9	135	0,87	0,91
1"	132,5	114,3	48	14	22,1	50	42	7	6	11	11	155	1,44	1,26
1 1/2"	183	139,7	64	18	35,8	50	50	9,2	7	14	14	205	3,29	3,24
2"	193	159	70	18	47,5	50	50	9,2	7	14	14	205	4,57	3,59
2 1/2"	254	171,5	90	22	60,2	102	70	11,3	9	17	17	290	9,46	9,9
3"	280	196,8	99	22	72,9	102	70	11,3	9	17	17	290	12,81	13,19
4"	305	241,3	131	26	97,3	125	102	13,5	11,3	17	22	335	20,33	21,2

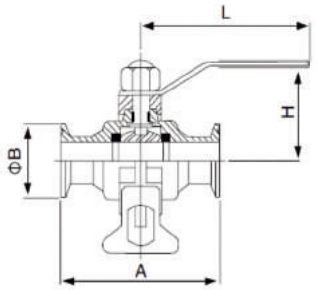
Boyutlar -mm Dimensions (mm)				
Ölçü Size	D	D2	D3	D4
1/2"	9,6	21,7	25	12,7
3/4"	15,8	21,7	25	19,1
1"	22,1	43,5	50,4	25,5
1 1/2"	34,8	43,5	50,4	38,1
2"	47,5	56,5	63,9	50,8
2 1/2"	60,2	70,5	77,4	63,5
3"	72,9	83,3	90,9	76,1
4"	97,3	110,3	119	101,6



SIHHI KLEMPLİ KELEPÇELİ KÜRESEL VANA HİJYENİK
SANITARY CLAMP HANDCUFFED BALL VALVE HYGIENIC
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (0-10 Bar)
Çalışma sıcaklık / Operating temperature (-40 + 200°C)
Conta / Gasket Silikon, EPDM, PTFE

Ölçü Size	MM	A	B	H	L	Wt.Kg
25	28	125.0	50.5	55.0	140.0	1,28
40	40	140.0	50.5	65.0	160.0	3,00
50	52	159.0	64.0	85.0	180.0	3,30
65	70	180.0	77.5	100.0	200.0	9,50

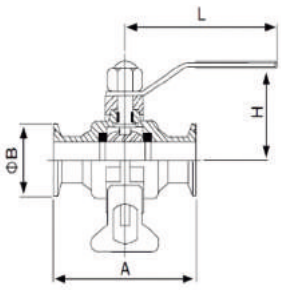




SIHHI KLEMPLİ KELEPÇELİ KÜRESEL VANA HİJYENİK
SANITARY CLAMP HANDCUFFED BALL VALVE HYGIENIC
Standartlar / Standards SMS
Çalışma Basınç / Working Pressure (0-10 Bar)
Çalışma sıcaklık / Operating temperature (-40 + 200°C)
Conta / Gasket Silikon, EPDM, PTFE

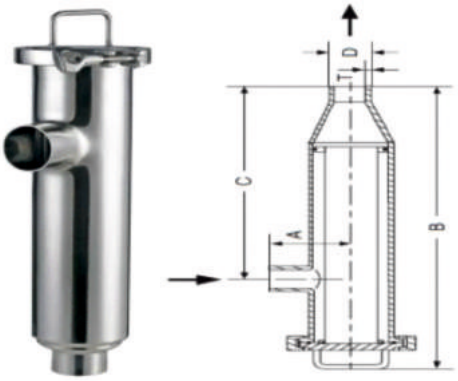
Ölçü Size	MM	A	B	H	L	Wt.Kg
1"	25	110.0	50.5	70.0	140.0	1,18
11/2"	38	140.0	50.5	80.0	160.0	2,80
2"	51	164.0	64.0	85.0	180.0	3,10
21/2"	63	180.0	77.5	110.0	200.0	8,80





KAYNAKLI TANK FLİTRES HİJYENİK
WELDWED TANK FILTER HYPHENIC
Standartlar / Standards DIN 11850* ISO-SMS
Çalışma Basınç / Working Pressure (16 Bar)
Çalışma Sıcaklık / Operating temperature (120C)

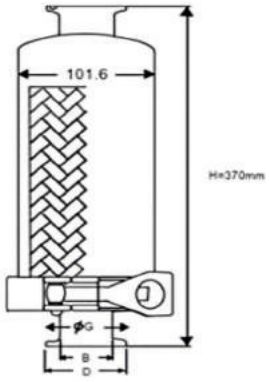
Ölçü Size DN	D	A	B	C	Mesh	Tel Çapı Wire Diameter
DN25	28	60	539	391	100	0,08
DN32	34	65	530	382	100	0,08
DN40	40	70	521	373	100	0,08
DN50	52	85	566	394	100	0,08
DN65	70	85	540	368	100	0,08
DN80	85	95	747	543	100	0,08
DN100	104	105	720	516	100	0,08



KLMEP BAĞLANTILI TANK FLİTRES HİJYENİK
CLAMP CONNECTED FILTERS HYGIENIC
Standartlar / Standards DIN 11850* ISO-SMS
Çalışma Basınç / Working Pressure (16 Bar)
Çalışma sıcaklık / Operating temperature (120C)

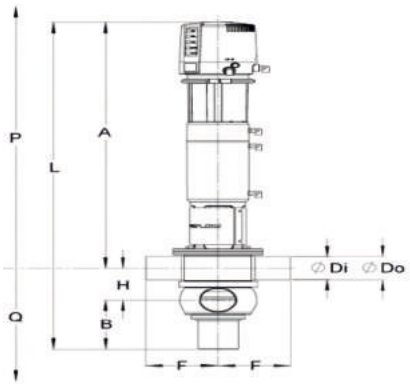
Ölçü Size DN	MM	D	B	H-mm	Mesh	Tel Çapı Wire Diameter
1"	25	50,5	22,1	370	100	0,08
1 1/2"	38	50,5	34,8	370	100	0,08
2"	51	64	47,5	370	100	0,08
2 1/2"	63,5	77,5	60,2	370	100	0,08
25	28	50,5	24,5	370	100	0,08
40	40	50,5	36,6	370	100	0,08
50	52	64	48,5	370	100	0,08
65	70	77,5	63,5	370	100	0,08





Çift Yataklı Karışım Geçirmez Vanalar
Double Seat Mixture Proof Valves
Standartlar / Standards Dın 11850 Hijyenik Hygienic
Çalışma Basınç / Working Pressur10 Bar)
Çalışma Sıcaklık / Operating temperature (-30 + 135-175°C)

Ölçü Size DN	A	A1	B	ØD.a	ØD.i	F	H	L	L1
1 1/2"	25,6	28,1	4,7	40	1,4	4,9	2,5	32,7	35,2
2"	25,8	28,3	4,9	50	1,9	4,9	3	33,6	37,1
2 1/2"	25,9	28,4	5,2	65	2,4	4,9	3,4	34,5	37
3"	26,2	28,7	5,4	80	2,4	4,9	3,9	35,4	38
4"	30,8	33,3	6,1	100	3,8	5,6	4,9	41,4	44

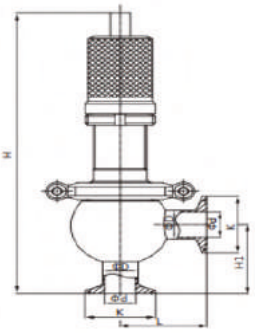




KLEMP BAĞLANTILI PNÖMATİK EMNİYET VALFİ&TAHLİYE VANASI
PNEUMATIC SAFETY VALVE WITH CLAMP CONNECTION&RELIEF VALVE
Standartlar / Standards DIN 11850/SMS ISO
Çalışma Basınç / Working Pressure (0-9 Bar)
Çalışma sıcaklık / Operating temperature (-20 + 135°C)
Sızdırmazlık / Sealing NBR - EPDM

Ölçü Size DN	d	D	K	H	H1	L	Ağırlık Weight
1"	22,4	25	50,5	227	61	61	4,37
1 1/2"	35,8	38	50,5	227	58	59	4,36
2"	47,8	51	64	270	66	66	5,41
2 1/2"	59,2	63,5	77,5	318	77	77	9,10
3"	72,2	76,1	91	351	97	91	15,50
4"	97,6	101,6	119	359	127	135	19,85
25	25	28	50,5	227	61	61	4,00
32	31	34	50,5	227	61	61	4,35
40	37	40	50,5	227	58	59	4,51
50	49	52	64	270	66	66	5,20
65	66	70	91	351	97	97	10,40
80	81	85	106	362	97	107	16,20
100	100	104	119	399	127	135	21,09





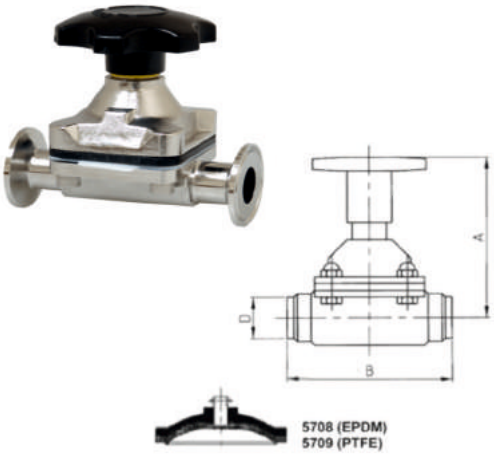
AKTUATÖRLÜ DİYAFRAM VANA
ACTUATOR DIAPHRAGM VALVE
Standartlar / Standards DIN 11850/51 SMS/ISO
Çalışma Basınç / Working Pressure (10 Bar)
Çalışma Sıcaklık / Operating temperature (-30 + 175°C)
Sızdırmazlık / PTFE-EPDM

Ölçü Size DN	DN	A	B	D	L	Ağırlık Weight/Kg
15	12	120	89	12,7	60	1,36
20	19	135	102	19	90	2,46
25	25	140	114	25,4	90	2,78
40	38	203	140	38,1	127	6,88
50	51	215	159	50,8	127	8,16



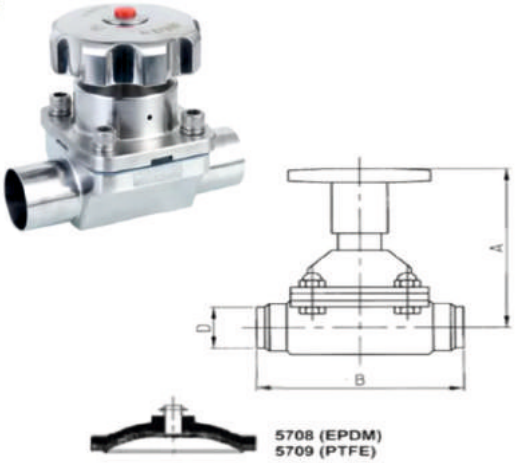
FERRULE CONNECTED DIAPHRAGM VALVE
FERRULE BAĞLANTILI DİYAFRAM VANA
Standartlar / Standards DIN 11850/51 SMS/ISO
Çalışma Basınç / Working Pressure (10 Bar)
Çalışma Sıcaklık / Operating temperature (-30 + 175°C)
Sızdırmazlık / PTFE-EPDM

Ölçü Size DN	DN	SMS	A	B	D	Ağırlık Weight/Kg
1/2"	18	12	78	89	12,7	0,84
3/4"	22	19	79	102	19	1,2
1"	28	25	92	114	25,4	1,68
1 1/2"	40	38	112	140	38,1	3,14
2"	52	51	135	159	50,8	5,04



KAYNAKLI DİYAFRAM VANA
WELDİNG DIAPHRAGM VALVE
Standartlar / Standards DIN 11850/51 SMS/ISO
Çalışma Basınç / Working Pressure (10 Bar)
Çalışma Sıcaklık / Operating temperature (-30 + 175°C)
Sızdırmazlık / PTFE-EPDM

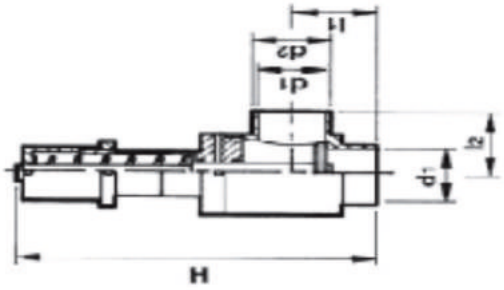
Ölçü Size DN	DN	SMS	A	B	D	Ağırlık Weight/Kg
15	12	12	78	89	12,7	0,84
20	19	19	79	102	19	1,2
25	25	25	92	114	25,4	1,68
40	38	38	112	140	38,1	3,14
50	51	51	135	159	50,8	5,04



EMNİYET VENTİL VANASI
SAFETY VALVE VALVE
Standartlar / Standards Dın 11850 Hijyenik Hygienic
Çalışma Basınç / Working Pressur10 Bar)
Çalışma Sıcaklık / Operating temperature (-30 + 175°C)
Sızdırmazlık / PTFE-EPDM

Ölçü Size	d1	d2	H	l1	l2	Ağırlık Weight
25	26	29	248	48	48	2,70
32	32	35	248	48	48	2,70
40	38	41	264	58	58	2,80
50	50	53	272	62	62	3,45
65	66	70	295	75	75	5,40

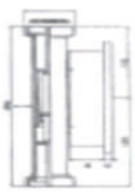




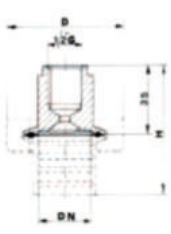
PASLANMAZ DEBİ METRE (AKIŞ ÖLÇER) STAINLESS FLOW METER			Basınç Transmitteri Pressure Transmitter		
Ölçü Size	Çalışma Aralığı Working Range	Bağlantı Tipi Connection Type	DN	D	H
DN25	100/1000 lt/h	DIN -SMS-CLAMP	1 1/2	72	64
DN40	200/2000 lt/h	Hassasiyet / %1	2"	85	69
DN50	800/8000 lt/h	Hassasiyet / %1			
DN65	2500/2500 lt/h	Hassasiyet / %1			
DN80	5000/5000 lt/h	Hassasiyet / %1			







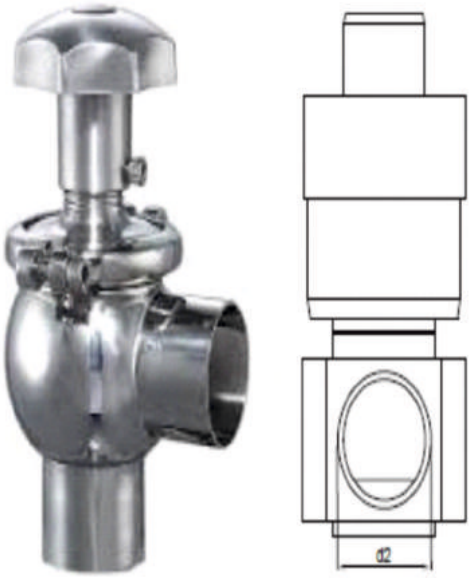






DEBİ AYAR VANASI
FLOW ADJUSTMENT VALVE
Standartlar / Standards Dın 11850 Hijyenik Hygienic
Çalışma Basınç / Working Pressur10 Bar)
Çalışma Sıcaklık /Operating temperature (-30 + 175°C)
Sızdırmazlık / PTFE-EPDM

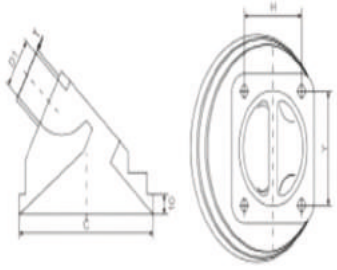
Ölçü Size	d1	I	Ağırlık Weight
25	28	100	1,20
32	34	112	2,20
40	40	134	2,80
50	52	144	3,75
65	70	170	7,40
80	80	196	8,50
100	104	260	9,00



TANK ALT DİYAFRAM VANASI HİJYENİK
TANK LOWER DIAPHRAGM VALVE HYGIENIC
Standartlar / Standards DIN 11850-SMS/ISO
Çalışma Basınç / Working Pressure (0-10 Bar)
Çalışma Sıcaklık / Operating temperature (-25 + 481°C)

Ölçü Size	C	(D) (D1)	T	L	H x Y
1"	105	50,5x22,1	1,65	120	57x47
1 1/2"	140	50,5x34,9	1,65	120	70x64
2"	160	64x47,5	1,65	130	85x75
25	105	50,4x25	1,5	212	57x47
32	140	50,4x31	1,5	260	70x64
40	140	50,4x37	1,5	130	70x64
50	160	64x49	1,5	140	85x75

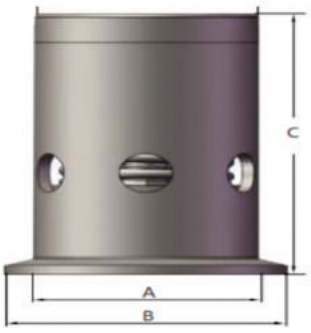




KLEMP BAĞLANTILI BASINÇ / VAKUM TAHLİYE VANASI
CLAMP CONNECTED PRESSURE / VACUUM RELIEF VALVE
Standartlar / Standards DIN 1185* ISO-SMS
Çalışma Basınç / Working Pressure (** Bar)
Çalışma Sıcaklık / Operating temperature (**C)

Ölçü Size	MM	A	B	D	C	Max/Pressur
1"	25	25	50,5	30	49	2 Bar
1 1/2"	25	35	50,5	42	72	3 Bar
2"	25	47	64	51	85	6 Bar
2 1/2"	25	59	77,5	64	90	2,5 Bar
20	25	25	34	30	49	2 Bar
25	25	25	50,5	30	49	2 Bar
40	25	35	50,5	42	72	3 Bar
50	25	47	64	51	85	6 Bar
65	25	59	91	64	90	2,5 Bar
80	25	83	105	88	135	3,5 Bar

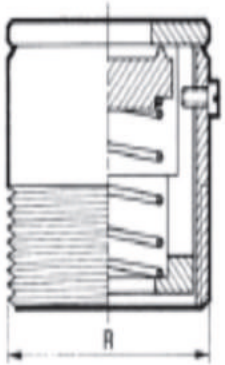




VAKUM VANASI
VACUUM VALVE
Standartlar / Standards Dın 11850 Hijyenik Hygienic
Çalışma Basınç / Working Pressur10 Bar)
Çalışma Sıcaklık / Operating temperature (-30 + 175°C)
Sızdırmazlık / PTFE-EPDM

Ölçü Size	R	Ağırlık Weight
40	1 1/2"	0,55
50	2"	0,66
65	2 1/2"	0,90





KLEMP BAĞLANTILI EMNİYET BASINÇ TAHLİYE VANASI HİJYENİK
CLAMP CONNECTED SAFETY PRESSURE RELIEF VALVE HYGIENIC
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (0-10 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 200°C)



Ölçü Size	d	D	K	H	H1	L	Ağırlık/Weight
25	25	28	50,5	227	61,00	61,00	3,30
32	31	34	50,5	227	61,00	61,00	3,80
40	37	40	50,5	227	58,00	59,00	4,00
50	49	52	64	270	55,00	66,00	4,81
65	66	70	91	351	97,00	97,00	8,10
80	81	85	106	362	97,00	107,00	13,20
100	100	104	119	399	127,00	135,00	18,80

KLEMP BAĞLANTILI EMNİYET BASINÇ TAHLİYE VANASI HİJYENİK
CLAMP CONNECTED SAFETY PRESSURE RELIEF VALVE HYGIENIC
Standartlar / Standards / SMS
Çalışma Basınç / Working Pressure (0-10 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 200°C)

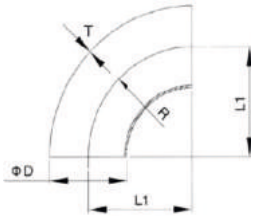


Ölçü Size	d	D	K	H	H1	L	Ağırlık/Weight
1"	22,4	25	50,5	227	61,00	61,00	3,50
1 1/2"	35,1	38	50,5	227	58,00	59,00	3,80
2"	47,8	51	64	270	66,00	66,00	4,50
2 1/2"	59,5	63,5	77,5	318	77,00	77,00	10,40
3"	72,2	76,1	91	351	97,00	97,00	13,70
4"	97,6	101,6	119	399	127,00	135,00	16,80

KAYNAKLI 90° DİRSEK HİJYENİK
WELDED 90° ELBOW HYGIENIC
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

Ölçü Size	Φ D/mm	L1 /mm	R /mm	T/mm	Kg-Weight
DN15	18	35	35	1,50	0.02
DN20	22	40	40	1,50	0.04
DN25	28	50	50	1,50	0.05
DN32	34	55	55	1,50	0.08
DN40	40	60	60	1,50	0.10
DN50	52	70	70	1,50	0.17
DN65	70	80	80	2,00	0.39
DN80	85	90	90	2,00	0.57
DN100	104	100	100	2,00	1,17
DN125	129	187	187	2,00	2,40
DN150	154	225	225	2,00	3,28
DN200	204	300	300	2,00	4,76

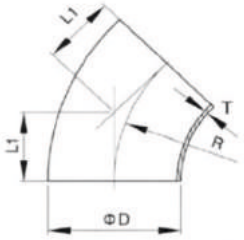




KAYNAKLI 45° DİRSEK HİJYENİK
WELDED 45° ELBOW HYGIENIC
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

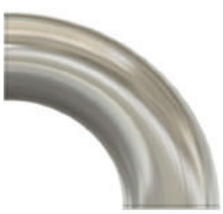
Ölçü Size	Φ D/mm	L1 /mm	R /mm	T/mm	Kg-Weight
DN25	28	20,7	50	1,50	0,03
DN32	34	22,8	55	1,50	0,04
DN40	40	24,8	60	1,50	0,05
DN50	52	29	70	1,50	0,08
DN65	70	33,2	80	2,00	0,20
DN80	85	33,7	90	2,00	0,03
DN100	104	41,5	100	2,00	0,55
DN125	129	77,5	187	2,00	1,25
DN150	154	93,2	225	2,00	1,65

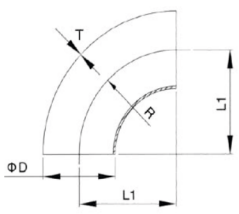




KAYNAKLI KISA 90° DİRSEK HİJYENİK
WELDED SHORT 90ELBOW HYGIENIC
Standartlar / Standards SMS
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

Ölçü Size	L1 /mm	D/mm	R /mm	T/mm	Kg-Weight
25	38	25	37,5	1,2	0,05
38	57	38	57	1,2	0,09
51	76	51	76,1	1,2	0,17
63,5	95	63,5	95,3	1,6	0,36
76,1	114	76,1	114,2	1,6	0,42
101,6	152	101,6	152,5	2	1,00

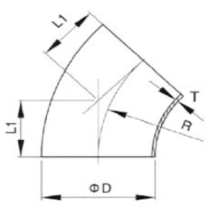




KAYNAKLI KISA 45° DİRSEK HİJYENİK
WELDED SHORT 45° ELBOW HYGIENIC
Standartlar / Standards SMS
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

Ölçü Size	L1 /mm	D/mm	R /mm	T/mm	Kg-Weight
25	28,5	25	37,5	1,2	0,03
38	36,5	38	57	1,2	0,05
51	44,5	51	76,1	1,2	0,10
63,5	52,4	63,5	95,3	1,6	0,21
76,1	60,3	76,1	114,2	1,6	0,30
101,6	76,1	101,6	152,5	2	0,55

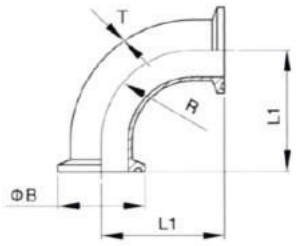




KLEMP BAĞLANTILI DİRSEK HİJYENİK
ELBOW WITH CLAMP CONNECTION HYGIENIC
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

Ölçü Size DN	L1 /mm	B Φ mm	R /mm	T/mm	Ağırlık Weigh
20	52	34	40	1,5	0,33
25	70	50,5	50	1,5	0,35
32	78	50,5	55	1,5	0,44
40	85	50,5	60	1,5	0,45
50	97	64	70	1,5	0,81
65	110	91	80	2	1,00
80	118	106	90	2	2,00
100	140	119	100	2	3,40

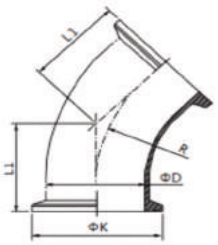




KLEMP BAĞLANTILI DİRSEK 45° HİJYENİK
ELBOW WITH CLAMP CONNECTION 45° HYGIENIC
Standartlar / Standards DIN11850
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

Ölçü Size DN	D	K	L1	R	Ağırlık Weigh
20	22	34	35,6	40	0,33
25	28	50,5	44,3	50	0,35
32	34	50,5	44,3	55	0,44
40	40	50,5	46,3	60	0,45
50	52	64	50,5	70	0,81
65	70	91	61,2	80	1,00
80	85	106	65,3	90	2,00
100	104	119	69,5	100	3,40

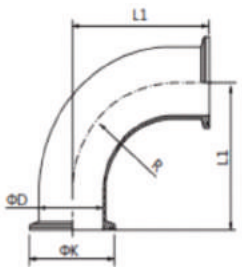




KLEMP BAĞLANTILI DİRSEK HİJYENİK
ELBOW WITH CLAMP CONNECTION HYGIENIC
Standartlar / Standards SMS-ISO
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

Ölçü Size DN	D	K	L1	R	Ağırlık Weigh
1"	25	50,5	50,8	38,1	0,31
1 1/2"	38	50,5	69,9	57,2	0,33
2"	51	64	88,9	76,1	0,35
2 1/2"	63,5	77,5	108	95,3	0,44
3"	76,1	91	127	114,3	0,45
4"	101,6	167	168,3	152,4	0,81

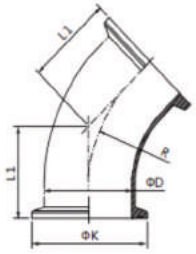




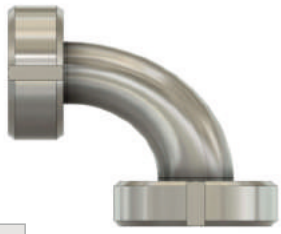
KLEMP BAĞLANTILI DİRSEK 45° HİJYENİK
ELBOW WITH CLAMP CONNECTION 45° HYGIENIC
Standartlar / Standards SMS/ISO
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

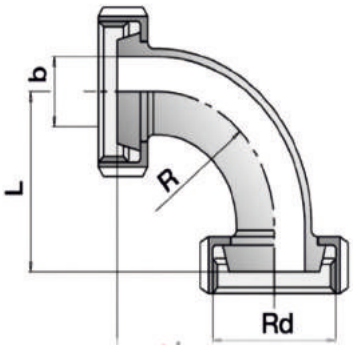
Ölçü Size DN	D	K	L1	R	Ağırlık Weigh
1"	25	50,5	28,5	38,1	0,31
1 1/2"	38	50,5	36,5	57,2	0,33
2"	51	64	44,5	76,1	0,35
2 1/2"	63,5	77,5	52,4	95,3	0,44
3"	76,1	91	60,3	114,3	0,45
4"	101,6	119	76,1	152,4	0,81





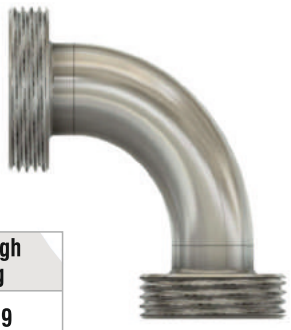
ASEPTİK KONİK RAKOR DİŞLİ DİRSEK PARÇASI
ASEPTIC CONICAL UNİON THREADED ELBOW PART
Standartlar / Standards DIN 11850-SMS
Çalışma Basınç / Working Pressure (20 Bar)
Çalışma Sıcaklık / Operating temperature (-25 + 481°C)

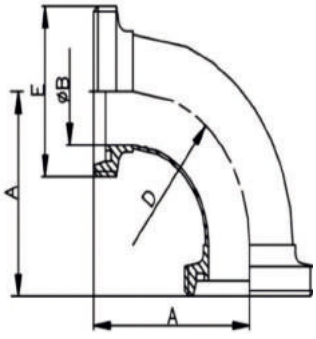




DN	MM	L	b	R	Rd	Weigh Kg
15	18	48	15	35	34x1/8"	0.10
20	22	53	19	40	44x1/6"	0.14
25	28	65	25	50	52x1/6"	0.18
32	34	70	31	55	58x1/6"	0.22
40	40	75	37	60	65x1/6"	0.25
50	52	86	49	70	78x1/6"	0.28
65	70	97	66	80	95x1/6"	0.32
80	85	107	81	90	110x1/4"	0.35
100	104	120	100	100	130x1/4"	0.38

ASEPTİK KONİK RAKOR DİŞLİ DİRSEK PARÇASI
ASEPTIC CONICAL UNİON THREADED ELBOW PART
Standartlar / Standards DIN 11850-SMS
Çalışma Basınç / Working Pressure (20 Bar)
Çalışma Sıcaklık / Operating temperature (-25 + 481°C)



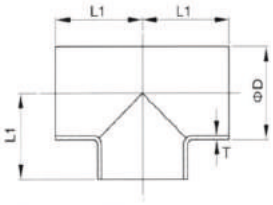


DN	MM	A	B	D	E	Weigh Kg
15	18	52	15	35	34x1/8"	0.09
20	22	59	19	40	44x1/6"	0.10
25	28	72	25	50	52x1/6"	0,15
32	34	77	31	55	58x1/6"	0,2
40	40	82	37	60	65x1/6"	0,22
50	52	93	49	70	78x1/6"	0,25
65	70	105	66	80	95x1/6"	0,28
80	85	115	81	90	110x1/4"	0,3
100	104	130	100	100	130x1/4"	0,3

DİKİŞLİ UZUN EŞİT TEE HİJYENİK
WELDED LONG EQUAL TEE HYGIENIC
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

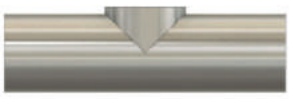
Ölçü Size	Φ D/mm	L1/mm	L1/mm	T/mm	Kg Weigh
DN15	18	35	35	1,50	0,08
DN20	22	40	40	1,50	0,09
DN25	28	50	50	1,50	0,12
DN32	34	55	55	1,50	0,18
DN40	40	60	60	1,50	0,24
DN50	52	70	70	1,50	0,31
DN65	70	80	80	2,00	0,65
DN80	85	90	90	2,00	1,07
DN100	104	100	100	2,00	1,85
DN125	129	187	187	2,00	2,65
DN150	154	225	225	2,00	3,31
DN200	204	265	265	2,00	4,43

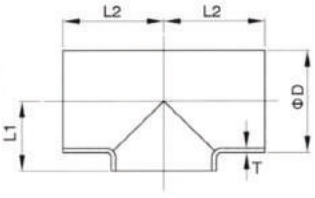




DİKİŞLİ KISA EŞİT TEE HİJYENİK
WELDED SHORT EQUAL TEE HYGIENIC
Standartlar / Standards / SMS
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

Ölçü Size	L1/mm	L2/mm	Φ D/mm	T/mm	Kg Weigh
25	25	50	50	1,20	0,10
38	38	60	60	1,20	0,24
51	51	70	70	1,20	0,30
63,5	63,5	80	80	1,60	0,71
76,1	76,1	80	80	1,60	0,80
101,6	101,6	100	100	2,00	1,55

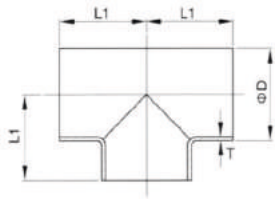




DİKİŞLİ UZUN EŞİT TEE HİJYENİK
WELDED LONG EQUAL TEE HYGIENIC
Standartlar / Standards / SMS
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

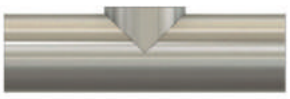
Ölçü Size	Φ D/mm	L1/mm	L1/mm	T/mm	Kg Weigh
25	25	50	50	1,20	0,10
38	38	60	60	1,20	0,24
51	51	70	70	1,20	0,30
63,5	63,5	80	80	1,60	0,71
76,1	76,1	80	80	1,60	0,80
101,6	101,6	100	100	2,00	1,55

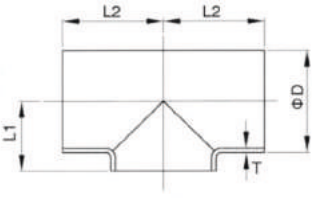




DİKİŞLİ KISA EŞİT TEE HİJYENİK
WELDED SHORT EQUAL TEE HYGIENIC
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık /Operating temperature (-40 + 220°C)

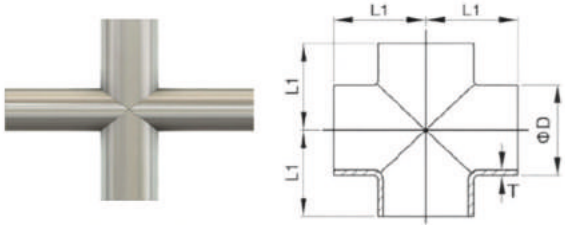
Ölçü Size	Φ D/mm	L1/mm	L1/mm	T/mm	Kg Weigh
DN15	18	35	35	1,50	0,08
DN20	22	40	40	1,50	0,09
DN25	28	50	50	1,50	0,12
DN32	34	55	55	1,50	0,18
DN40	40	60	60	1,50	0,24
DN50	52	70	70	1,50	0,31
DN65	70	80	80	2,00	0,65
DN80	85	90	90	2,00	1,07
DN100	104	100	100	2,00	1,85
DN125	129	187	187	2,00	2,65
DN150	154	225	225	2,00	3,31
DN200	204	265	265	2,00	4,43





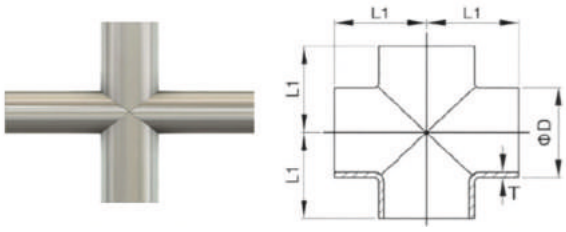
DİKİŞLİ EŞİT KROS TEE HİJYENİK
WELDED EQUEL CROSS TEE HYGIENIC
Standartlar / Standards DIN SMS
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

Ölçü Size	L1/mm	L1/mm	L1/mm	T/mm	Kg Weigh
1"	50	25	25	1,20	0,28
1 1/2"	55	38	38	1,20	0,55
2"	70	51	51	1,20	0,66
2 1/2"	75	63,5	63,5	1,60	1,76
3"	80	76,1	76,1	1,60	2,00
4"	100	101,6	101,6	2,00	2,40



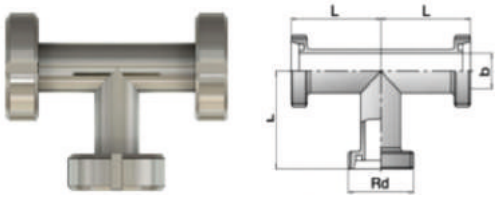
DİKİŞLİ EŞİT KROSS TEE HİJYENİK
WELDED EQUAL CROSS TEE HYGIENIC
Standartlar / Standards / SMS
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

Ölçü Size	L1/mm	L1/mm	L1/mm	T/mm	Kg Weigh
25	50	28	28	1,50	0,25
32	55	34	34	1,50	0,28
40	60	40	40	1,50	0,55
50	70	52	52	1,50	0,68
65	80	70	70	2,00	1,65
80	90	85	85	2,00	1,80
100	100	104	104	2,00	2,64



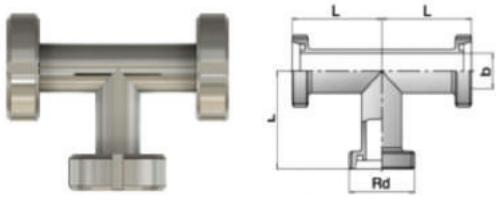
ASEPTİK KONİK RAKOR BAĞLANTIL TEE PARÇASI
ASEPTIC CONICAL UNİON CONNECTED TEE PART
Standartlar / Standards DIN 11850-SMS
Çalışma Basınç / Working Pressure (20 Bar)
Çalışma Sıcaklık / Operating temperature (-25 + 481°C)

DN	MM	Rd	b	L	Weight Kg
15	18	34x/1/8"	16	48	0,19
20	22	44x/1/6"	20	53	0,21
25	28	52x/1/6"	26	65	0,34
32	34	58x/1/6"	32	70	0,37
40	40	65x/1/6"	38	75	0,45
50	52	78x/1/6"	50	86	0,65
65	70	95x/1/6"	66	97	1,09
80	85	110x/1/4"	81	107	1,65
100	104	130x/1/4"	100	120	2,90



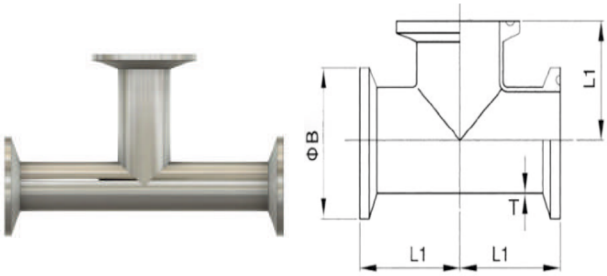
ASEPTİK KONİK DİŞLİ TEE PARÇASI
ASEPTIC CONICAL GEAR TEE PART
Standartlar / Standards DIN 11850-SMS
Çalışma Basınç / Working Pressure (20 Bar)
Çalışma Sıcaklık / Operating temperature (-25 + 481°C)

DN	MM	Rd	b	L	Weight Kg
15	18	34x/1/8"	16	48	0,19
20	22	44x/1/6"	20	53	0,21
25	28	52x/1/6"	26	65	0,34
32	34	58x/1/6"	32	70	0,37
40	40	65x/1/6"	38	75	0,45
50	52	78x/1/6"	50	86	0,65
65	70	95x/1/6"	66	97	1,09
80	85	110x/1/4"	81	107	1,65
100	104	130x/1/4"	100	120	2,90



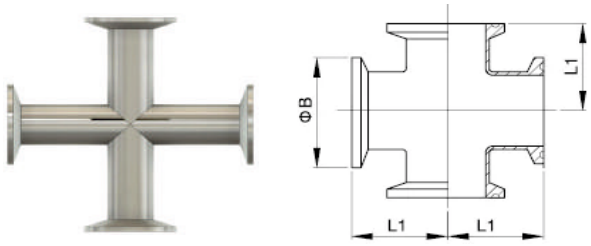
KLEMP BAĞLANTILI THEE HİJYENİK
THEE WITH CLAMP CONNECTION HYGIENIC
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

Ölçü Size DN	(mm)	L1 (mm)	B (mm)	T (mm)	Ağırlık Weigh
15	18	53	34	1,5	0,40
20	22	58	34	1,5	0,43
25	28	71,5	50,5	1,5	0,48
32	34	76,5	50,5	1,5	0,56
40	40	81,5	50,5	1,5	0,62
50	52	91,5	64	1,5	0,98
65	70	108	91	2	1,18
80	85	118	106	2	2,28
100	104	128	119	2	3,60



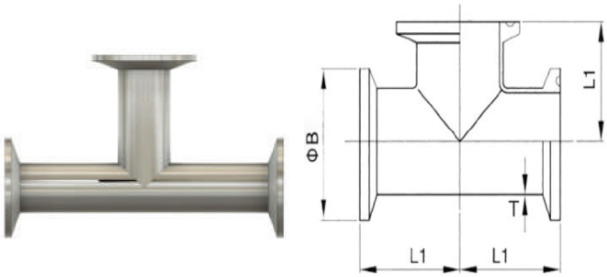
KLEMP BAĞLANTILI KROS HİJYENİK
CLAMP CONNECTION CROSS TEE HYGIENIC
Standartlar / Standards DIN11850
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

Ölçü Size DN	(mm)	L1 (mm)	B (mm)	T (mm)	Ağırlık Weigh
15	18	53	34	1,5	0,50
20	22	58	34	1,5	0,70
25	28	71,5	50,5	1,5	0,82
32	34	76,5	50,5	1,5	0,99
40	40	81,5	50,5	1,5	1,12
50	52	91,5	64	1,5	1,42
65	70	108	91	2	1,68
80	85	118	106	2	3,10
100	104	128	119	2	4,87



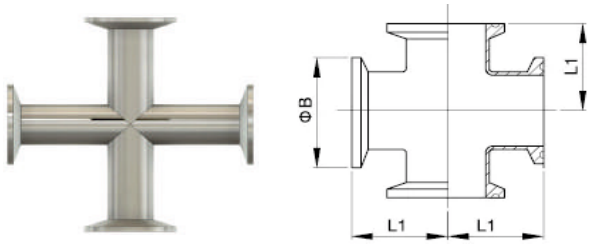
KLEMP BAĞLANTILI TEE HİJYENİK
THE WITH CLAMP CONNECTION HYGIENIC
Standartlar / Standards SMS-ISO
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

Ölçü Size DN	(mm)	L1 (mm)	B (mm)	T (mm)	Ağırlık Weigh
1"	25	70	50,5	1,2	0,45
1 1/2"	38	82	50,5	1,2	0,60
2"	51	90	64	1,2	0,95
2 1/2"	63,5	110	91	1,6	1,00
3"	76,1	114	106	1,6	1,25
4"	101,6	123	119	1,6	3,50



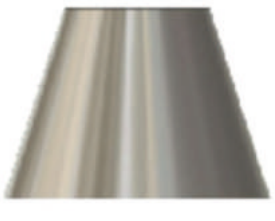
KLEMP BAĞLANTILI TEE HİJYENİK
TEE WITH CLAMP CONNECTION HYGIENIC
Standartlar / Standards SMS/ISO
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

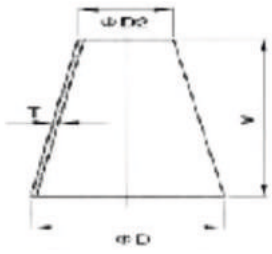
Ölçü Size DN	(mm)	L1 (mm)	B (mm)	T (mm)	Ağırlık Weigh
1"	25	60,4	50,5	1,2	0,55
1 1/2"	38	69,9	50,5	1,2	0,70
2"	51	88,9	64	1,2	1,10
2 1/2"	63,5	88,9	91	1,6	1,21
3"	76,1	95,3	106	1,6	1,40
4"	101,6	114,3	119	1,6	3,75



KAYNAKLI KONSANTRİK REDÜKSİYON HİJYENİK
WELDED CONCENTRIC REDUCTION HYGIENIC
Standartlar / Standards DIN11850
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

Ölçü/Size	A / mm	Φ D/mm	Φ D2 /2mm	T/2mm	Kg Weight
DN15xDN10	11	18	12	1,50	0,01
DN20xDN15	11	22	18	1,50	0,01
DN25xDN10	22	28	12	1,50	0,02
DN25xDN15	15	28	18	1,50	0,02
DN25xDN20	11	28	22	1,50	0,02
DN32xDN20	22	34	22	1,50	0,02
DN32xDN25	11	34	28	1,50	0,03
DN40xDN20	33	40	22	1,50	0,03
DN40xDN25	22	40	28	1,50	0,04
DN40xDN32	20	40	34	1,50	0,04
DN50xDN25	44	52	28	1,50	0,07
DN50xDN32	33	52	34	1,50	0,08
DN50xDN40	22	52	40	1,50	0,08
DN65xDN25	73	70	28	2,00	0,13
DN65xDN32	62	70	34	2,00	0,12
DN65xDN40	51	70	40	2,00	0,11
DN65xDN50	29	70	52	2,00	0,09
DN80xDN40	78	85	40	2,00	0,02
DN80xDN50	56	85	52	2,00	0,01
DN80xDN65	27	85	70	2,00	0,01
DN100xDN50	90	104	52	2,00	0,29
DN100xDN65	61	104	70	2,00	0,28
DN100xDN80	34	104	85	2,00	0,17
DN125xDN100	75	129	104	2,00	0,36
DN150xDN100	90	154	104	2,00	0,40
DN150xDN125	70	154	129	2,00	0,35
DN200xDN125	90	204	129	2,00	0,40
DN200xDN150	70	204	154	2,00	0,35

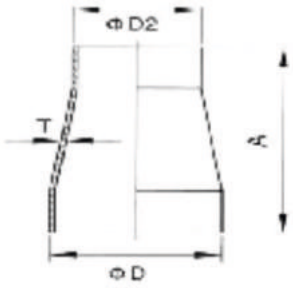




KAYNAKLI KONSANTRİK REDÜKSİYON HİJYENİK
WELDED CONCENTRIC REDUCTION HYGIENIC
Standartlar / Standards / SMS
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

Φ D/mm	Φ D2 /2mm	A / mm	A1 / mm	T/2mm	Kg Weight
38	25	39	46	1,20	0,04
51	25	57	68	1,20	0,05
51	38	39	47	1,20	0,05
63,5	25	72	80	1,60	0,09
63,5	38	57	70	1,60	0,09
63,5	51	39	44	1,60	0,10
76,1	25	82	102	1,60	0,12
76,1	38	74	92	1,60	0,12
76,1	51	57	68	1,60	0,12
76,1	63,5	39	47	1,60	0,12
101,6	51	95	117	2,00	0,45
101,6	63,5	78	94	2,00	0,45
101,6	76,1	60	74	2,00	0,45

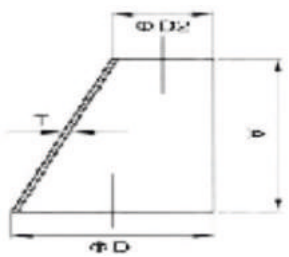




KAYNAKLI EKSANTRİK REDÜKSİYON HİJYENİK
WELDED ECCENTRIC REDUCTION HYGIENIC
Standartlar / Standards DIN11850
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

Ölçü/Size	A / mm	Φ D/mm	Φ D2 /2mm	T/2mm	Kg Weight
DN15xDN10	11	18	12	1,50	0,01
DN20xDN15	11	22	18	1,50	0,01
DN25xDN10	22	28	12	1,50	0,02
DN25xDN15	15	28	18	1,50	0,02
DN25xDN20	11	28	22	1,50	0,02
DN32xDN20	22	34	22	1,50	0,02
DN32xDN25	11	34	28	1,50	0,03
DN40xDN20	33	40	22	1,50	0,03
DN40xDN25	22	40	28	1,50	0,04
DN40xDN32	20	40	34	1,50	0,04
DN50xDN25	44	52	28	1,50	0,07
DN50xDN32	33	52	34	1,50	0,08
DN50xDN40	22	52	40	1,50	0,08
DN65xDN25	73	70	28	2,00	0,13
DN65xDN32	62	70	34	2,00	0,12
DN65xDN40	51	70	40	2,00	0,11
DN65xDN50	29	70	52	2,00	0,09
DN80xDN40	78	85	40	2,00	0,02
DN80xDN50	56	85	52	2,00	0,01
DN80xDN65	27	85	70	2,00	0,01
DN100xDN50	90	104	52	2,00	0,29
DN100xDN65	61	104	70	2,00	0,28
DN100xDN80	34	104	85	2,00	0,17
DN125xDN100	75	129	104	2,00	0,36
DN150xDN100	90	154	104	2,00	0,40
DN150xDN125	70	154	129	2,00	0,35

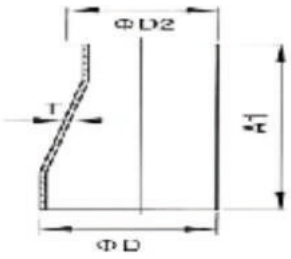




KAYNAKLI EKSANTRİK REDÜKSİYON HİJYENİK
WELDED ECCENTRIC REDUCTION HYGIENIC
Standartlar / Standards SMS
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

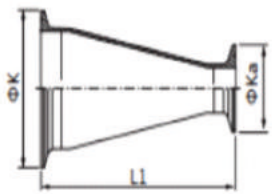
Φ D/mm	Φ D2 /2mm	A / mm	A1 / mm	T/2mm	Kg Weight
38	25	39	46	1,20	0,04
51	25	57	68	1,20	0,05
51	38	39	47	1,20	0,05
63,5	25	72	80	1,60	0,09
63,5	38	57	70	1,60	0,09
63,5	51	39	44	1,60	0,10
76,1	25	82	102	1,60	0,12
76,1	38	74	92	1,60	0,12
76,1	51	57	68	1,60	0,12
76,1	63,5	39	47	1,60	0,12
101,6	51	95	117	2,00	0,45
101,6	63,5	78	94	2,00	0,45
101,6	76,1	60	74	2,00	0,45

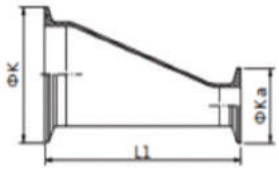




KLEMP BAĞLANTILI KONSANTRİK REDÜKSİYON HİJYENİK
CONCENTRIC REDUCTION WITH CLAMP CONNECTION HYGIENIC
Standartlar / Standards DIN11850
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

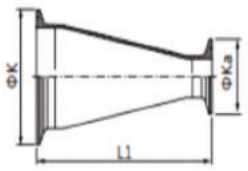
Ölçü Size (DN)	MM	Φ K	Φ Ka	Model 182	Ağırlık Weight
20x15	22x18	34	34	Cons/Ecc	0,10
25x20	28x22	50,5	34	Cons/Ecc	0,12
32x20	34x22	50,5	34	Cons/Ecc	0,15
32x25	34x28	50,5	5,5	Cons/Ecc	0,16
40x25	40x28	50,5	5,5	Cons/Ecc	0,17
40x32	40x34	50,5	5,5	Cons/Ecc	0,19
50x25	52x28	64	5,5	Cons/Ecc	1,24
50x32	52x34	64	5,5	Cons/Ecc	0,23
50x40	52x40	64	5,5	Cons/Ecc	0,19
65x40	70x40	91	5,5	Cons/Ecc	0,23
65x50	70x52	91	64	Cons/Ecc	0,25
85x40	85x40	106	50,5	Cons/Ecc	0,30
85x50	85x52	106	64	Cons/Ecc	0,45
85x65	85x70	106	91	Cons/Ecc	0,45
100x50	104x52	119	64	Cons/Ecc	0,55
100x65	104x70	119	91	Cons/Ecc	0,58
100x80	104x85	119	106	Cons/Ecc	0,60

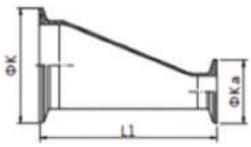



KLEMP BAĞLANTILI KONSANTRİK REDÜKSİYON HİJYENİK
CONCENTRIC REDUCTION WITH CLAMP CONNECTION HYGIENIC
Standartlar / Standards SMS-ISO
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

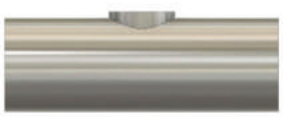
Ölçü Size	Φ K	Φ K	L1	Model 182	Ağırlık Weight
1.5"x1"	50,5	50,5	76,1	Cons/Ecc	0,08
2"x1"	64	50,5	127	Cons/Ecc	0,16
2"x1.5"	64	50,5	76,2	Cons/Ecc	0,10
2.5"x1.5"	77,5	50,5	127	Cons/Ecc	0,25
2.5"x2"	77,5	64	76,2	Cons/Ecc	0,14
3"x1.5"	91	50,5	177,8	Cons/Ecc	0,40
3"x2"	91	64	127	Cons/Ecc	0,30
3"x2.5"	91	77,5	76,2	Cons/Ecc	0,15
4"x2"	119	64	231,8	Cons/Ecc	0,66
4"x2.5"	119	77,5	181	Cons/Ecc	0,50
4"x3"	119	91	130,2	Cons/Ecc	0,39

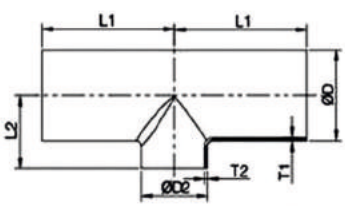



KAYNAKLI REDÜKSİYON TEE HİJYENİK
WELDED REDUCTION TEE HYGIENIC
Standartlar / Standards DIN11850
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

Ölçü Size	Φ D-D2 mm	L1 / mm	L2 / mm	T1-T2 /mm	Kg Weight
DN20xDN15	22x18	40	12,5	1,50	0,08
DN25xDN15	28x18	50	16,5	1,50	0,09
DN25xDN20	28x22	50	16,5	1,50	0,09
DN32xDN20	34x22	55	16,5	1,50	0,18
DN32xDN25	34x28	55	19,5	1,50	0,18
DN40xDN20	40x22	60	19,5	1,50	0,24
DN40xDN25	40x28	60	22,5	1,50	0,24
DN40xDN32	40x34	60	22,5	1,50	0,24
DN50xDN25	52x28	70	30	1,50	0,31
DN50xDN32	52x34	70	30	1,50	0,31
DN50xDN40	52x40	70	30	1,50	0,31
DN65xDN32	70x34	80	40	2,00	0,65
DN65xDN40	70x40	80	40	2,00	0,65
DN65xDN50	70x52	80	40	2,00	0,65
DN80xDN40	85x40	90	48	2,00	1,07
DN80xDN50	85x50	90	48	2,00	1,07
DN80xDN65	85x70	90	48	2,00	1,07
DN100xDN50	104x52	100	58	2,00	1,80
DN100xDN65	104x70	100	58	2,00	1,80
DN100xDN80	104x85	100	58	2,00	1,80
DN125xDN80	129x85	187	70	2,00	2,65
DN125xDN100	129x104	187	70	2,00	2,65
DN150xDN100	154x104	225	83	2,00	3,31
DN150xDN125	154x129	226	83	2,00	3,31
DN200xDN125	204x129	265	95	2,00	4,43
DN200xDN150	204x154	265	95	2,00	4,43

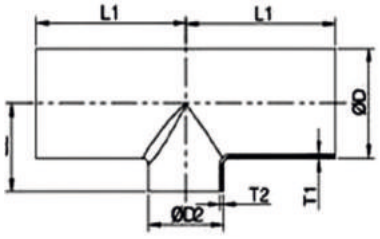




KAYNAKLI REDÜKSİYON TEE HİJYENİK
WELDED REDUCTION TEE HYGIENIC
Standartlar / Standards/SMS
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

Ölçü Size	L1 / mm	D/D2 mm	T1-T2 /mm	Kg Weight
1 1/2"x1"	70	38x25	1,20	0,23
2"x1"	82	51x25	1,20	0,36
2"x1 1/2"	82	51x38	1,20	0,36
2 1/2"x1"	105	63,5x25	1,60	0,60
2 1/2"x1 1/2"	105	63,5x38	1,60	0,60
2 1/2"x2"	105	63,5x51	1,60	0,60
3"x1 1/2"	110	76,1x38	1,60	0,67
3"x2"	110	76,1x51	1,60	0,67
3"x2 1/2"	110	76,1x63,5	1,60	0,67
4"x2"	150	101,6x51	1,60	2,00
4"x2 1/2"	150	101,6x63,5	1,60	2,00
4"x3"	150	101,6x76,1	1,60	2,00



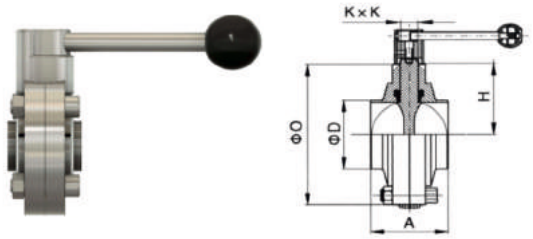


KAYNAKLI KELEBEK VANA HİJYENİK
WELDED BUTTERFLY VALVE HYGIENIC
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (10 Bar)
Çalışma Sıcaklık / Operating temperature (-10 + 110°C)
Sızdırmazlık / Sealing NBR

Ölçü Size	Φ O/mm	ΦD / mm	KxK / mm	A / mm	H / mm	Kg Weight
DN15	78	18	8.0x8.0	50	39	1,1
DN20	78	22	8.0x8.0	50	39	1,1
DN25	78	28	8.0x8.0	50	39	1,2
DN32	86	34	8.0x8.0	50	43	1,4
DN40	90	40	8.0x8.0	50	45	1,5
DN50	108	52	10.0x10.0	52	53	1,5
DN65	125	70	10.0x10.0	56	62	2,7
DN80	140	85	10.0x10.0	60	70	4,0
DN100	160	104	10.0x10.0	64	80	8,4
DN125	190	129	12.0x12.0	80	93	10,0
DN150	220	154	12.0x12.0	90	108	11,0

KAYNAKLI KELEBEK VANA HİJYENİK
WELDED BUTTERFLY VALVE HYGIENIC
Standartlar / Standards SMS
Çalışma Basınç / Working Pressure (10 Bar)
Çalışma Sıcaklık / Operating temperature (-10 + 110°C)
Sızdırmazlık / Sealing NBR

Ölçü Size	Φ O/mm	ΦD / mm	KxK / mm	A / mm	H / mm	Kg Weight
25	78	25,4	8.0x8.0	50	39	1,21
38	86	38,1	8.0x8.0	52	43	1,40
51	102	50,8	10.0x10.0	56	51	1,50
63,5	115	63,5	10.0x10.0	56	58	2,20
76,1	128	76,2	10.0x10.0	56	64	4,00
101,6	154	101,6	10.0x10.0	64	77	8,00

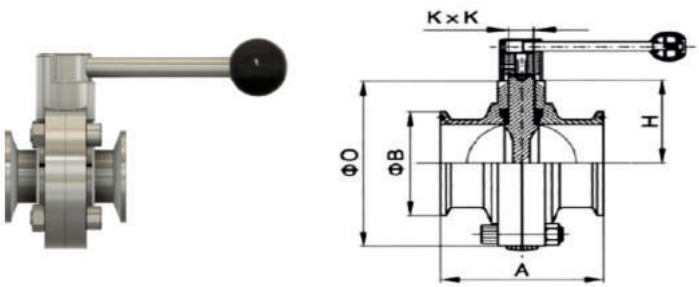


KLEMP BAĞLANTILI KELEBEK VANA HİJYENİK
BUTTERFLY VALVE WITH CLAMP CONNECTION HYGIENIC
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (10 Bar)
Çalışma Sıcaklık / Operating temperature (-10 + 110°C)
Sızdırmazlık / Sealing NBR

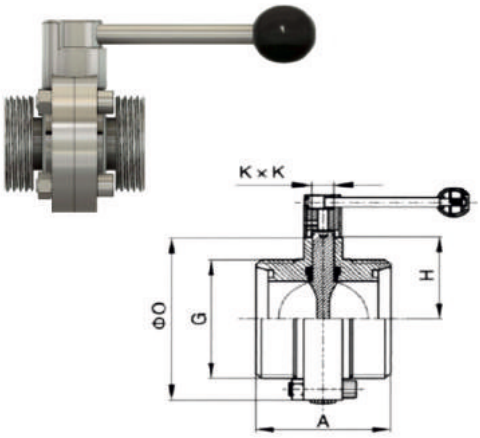
Ölçü Size	Φ O/mm	ΦB / mm	KxK / mm	A / mm	H / mm	Ağırlık Weight Kg
20	78	34	8x8	64	37,2	1,12
25	78	50,5	8x8	64	37,2	1,47
32	86	50,5	8x8	66	41,4	2,24
40	90	50,5	8x8	70	43,4	2,45
50	102	64	8x8	76	51,5	3,44
65	125	91	10x10	80	60,5	5,77
80	140	106	10x10	82	67,5	9,12
100	160	119	10x10	104	78,2	14,18

KLEMP BAĞLANTILI KELEBEK VANA HİJYENİK
BUTTERFLY VALVE WITH CLAMP CONNECTION HYGIENIC
Standartlar / Standards SMS/ISO
Çalışma Basınç / Working Pressure (10 Bar)
Çalışma Sıcaklık / Operating temperature (-10 + 110°C)
Sızdırmazlık / Sealing NBR

Ölçü Size DIN	Φ O/mm	ΦB / mm	KxK / mm	A / mm	H / mm	Ağırlık Weight Kg
25	78	50,5	8x8	66	39	1,39
38	86	50,5	8x8	70	43	2,65
52	102	64	8x8	76	62	3,29
63,5	115	77,5	10x10	80	57,5	5,09
76,1	128	91	10x10	84	64	5,65
101,6	154	119	10x10	104	78	13,58

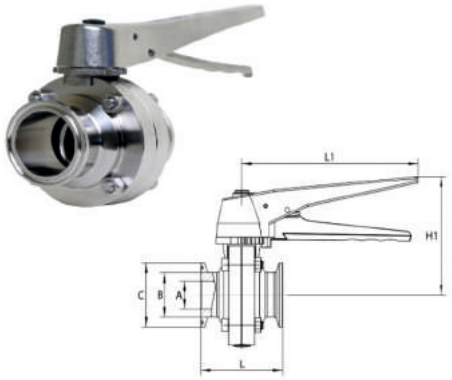


REKOR DİŞLİ KELEBEK VANA HİJYENİK
RECORD THREADED BUTTERFLY VALVE HYGIENIC
Standartlar / Standards DIN 11850/51 SMS/ISO
Çalışma Basınç / Working Pressure (10 Bar)
Çalışma Sıcaklık / perating temperature (-10 +10°C)
Sızdırmazlık /ealing NBR



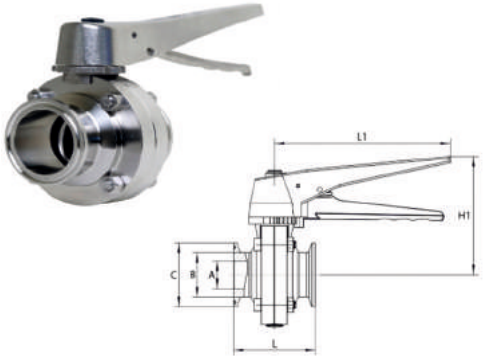
Ölçü Size DIN	Φ O / mm	Φ G / mm	KxK / mm	A / mm	H / mm	Ağırlık Weight Kg
15	78	RD34x1/8"	8x8	66	39	1,09
20	78	RD44x1/6"	8x8	66	39	1,21
25	78	RD52x1/6"	8x8	66	39	1,61
32	86	RD58x1/6"	8x8	70	43	2,34
40	90	RD65x1/6"	8x8	74	45	2,60
50	102	RD78x1/6"	8x8	76	53	3,70
65	125	RD95x1/6"	10x10	84	70	6,12
80	140	RD110x1/4"	10x10	90	80	10,00
100	160	RD130x1/4"	10x10	104	104	14,90
125	190	RD160x1/4"	12x12	130	130	19,80
150	220	RD190x1/4"	12x12	150	150	24,00

KLEMP BAĞLANTILI KELEPÇELİ ÇEKME KOLU KELEBEK VANA HİJYENİK
CLAMP CONNECTION CLAMP PULL HANDLE BUTTERFLY VALVE HYGIENIC
Standartlar / Standards SMS/ISO
Çalışma Basınç / Working Pressure (10 Bar)
Çalışma Sıcaklık / Operating temperature (-10 + 110°C)
Sızdırmazlık / Sealing Slikon-EPDM



Ölçü Size	C	B	H1	L	L1	Ağırlık Weight Kg
25	50,4	26	90	84	150	1,90
32	50,4	32	93	92	150	2,00
40	50,5	38	95	102	150	2,20
50	64	50	100	106	150	2,60
65	77,5	66	110	114	150	3,50
80	91	81	117	134	150	5,60
100	119	100	128	152	150	10,80

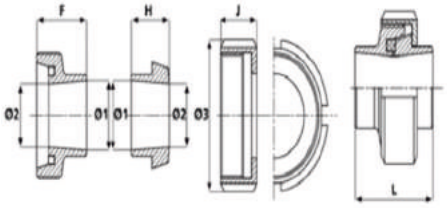
KLEMP BAĞLANTILI KELEPÇELİ ÇEKME KOLU KELEBEK VANA HİJYENİK
CLAMP CONNECTION CLAMP PULL HANDLE BUTTERFLY VALVE HYGIENIC
Standartlar / Standards SMS/ISO
Çalışma Basınç / Working Pressure (10 Bar)
Çalışma Sıcaklık / Operating temperature (-10 + 110°C)
Sızdırmazlık / Sealing Slikon-EPDM



Ölçü Size	C	B	H1	L	L1	Ağırlık Weight Kg
1"	50,40	87	90	64	150	1,800
1 1/2"	50,40	97	95	72	150	2,000
2"	64,00	110	100	72	150	2,500
2 1/2"	77,40	112	102	76	150	2,800
3"	90,90	127	110	76	150	3,400
4"	118,90	162	128	104	150	9,500

KAYNAKLI HİJYENİK REKOR
WELDED HYGIENIC UNİON
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40+220°C)

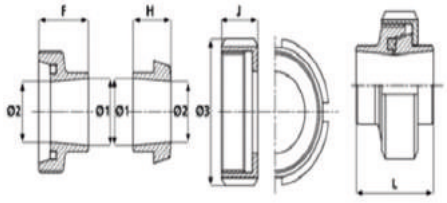




Ölçü/Size	MM	Q3	L	J	Q1	Q2	F	H	KgWeigh
DN15	18	44	34	18	16	10	21	17	0,16
DN20	22	54	44	21	20	16	24	18	0,27
DN25	28	63	52	21	25	20	29	22	0,37
DN32	34	70	58	21	31	26	32	25	0,44
DN40	40	78	65	21	38	32	33	26	0,53
DN50	52	92	78	22	49	38	35	28	0,74
DN65	70	112	95	25	66	50	40	32	1,17
DN80	85	127	110	30	81	66	45	37	1,65
DN100	104	148	130	31	100	81	54	44	2,27
DN125	129	178	160	35	125	100	46	34	3,27
DN150	154	210	190	40	150	125	50	37	5,02

KAYNAKLI HİJYENİK REKOR
WELDED HYGIENIC UNİON
Standartlar / Standardlar SMS
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40+220°C)

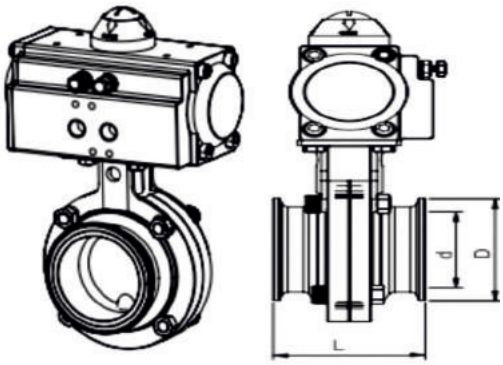




Ölçü/Size	MM	Q3	L	J	Q1	Q2	F	H	KgWeigh
1"	25	51	40	19	22,5	11	19	15,5	0,21
1 1/2"	38	74	60	22	35,5	12	23	16	0,5
2"	51	84	70	23	48,5	12	23	17	0,61
2 1/2"	63,5	100	85	28	60,4	12	27	17	0,94
3"	76,1	114	98	30	72,9	13	27	19	1,28
4"	101,6	138	125	31	97,6	13	30	19	1,62

Pnömatik Aktüatörlü Kelebek Vana Hijyenik
Pneumatic Actuated Butterfly Valve Hygienic
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (0-9 Bar)
Çalışma Sıcaklık / Operating temperature (-20 + 135°C)

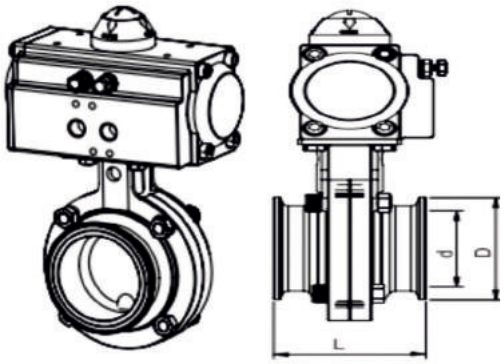




Ölçü Size	İnc-Ø	d	D	L
Q28	25	34	50,5	68
Q34	32	50,5	50,5	70
Q40	40	50,5	50,5	70
Q52	50	50,5	64	76
Q70	65	64	91	81
Q85	80	91	106	85
Q104	100	106	119	85

Pnömatik Aktüatörlü Kelebek Vana Hijyenik
Pneumatic Actuated Butterfly Valve Hygienic
Standartlar / Standards SMS ISO
Çalışma Basınç / Working Pressure (0-9 Bar)
Çalışma Sıcaklık / Operating temperature (-20 + 135°C)



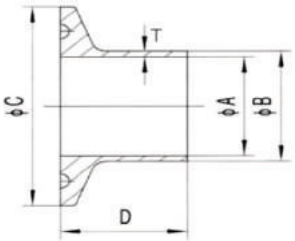


Ölçü Size	İnc-Ø	d	D	L
Q25	1"	22	25,5	68
Q38	1 1/2"	35	50,5	70
Q51	2"	48	50,5	70
Q63.5	2 1/2"	59	77,5	76
Q76,1	3"	72	91	81
Q101,6	4"	119	119	85

KLEMP YAKASI HİJYENİK
CLAMP COLLAR HYGIENIC
Standartlar / Standards DIN 11850/SMS -ISO
Çalışma Basınç / Working Pressure (0-10 Bar)
Çalışma Sıcaklık / Operating temperature (-25 + 220°C)

Ölçü Size	A	B	C	D	T	Ağırlık Weight/Kg
15	0,010	1,50	21,50	34	18	15
20	0,020	1,50	21,50	34	22	19
25	0,030	1,50	21,50	50,5	28	25
32	0,030	1,50	21,50	50,5	34	31
40	0,030	1,50	21,50	50,5	40	37
50	0,040	1,50	21,50	65	52	49
65	0,070	2,00	21,50	91	70	66
80	0,080	2,00	21,50	106	85	81
100	0,100	2,00	21,50	119	104	100
125	0,130	2,00	21,50	155	129	125
150	0,180	2,00	21,50	183	154	150
200	0,290	2,00	21,50	233,5	204	200
1"	0,010	1,20	21,50	50,40	25	23,6
1 1/2"	0,010	1,20	21,50	50,40	38	25,6
2"	0,020	1,20	21,50	64,00	51	48,6
2 1/2"	0,070	1,60	21,50	77,40	63,5	60,3
3"	0,070	1,60	21,50	90,90	76,1	72,9
4"	0,090	2,00	21,50	118,90	101,6	97,6

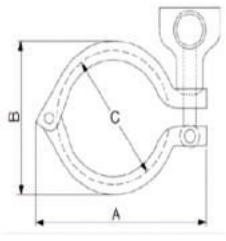




KLEMP KELEPÇESİ
FERRULE CLAMP
Standartlar / Standards DIN 11850/SMS -ISO
Çalışma Basınç / Working Pressure (0-15 Bar)
Çalışma Sıcaklık / Operating temperature (-25+220°C)

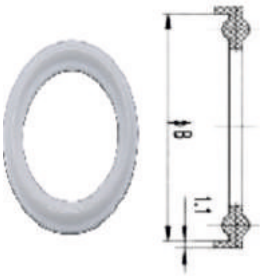
Ölçü Size	MM	B	C	Ağırlık Weight/Kg
15	18	17	25,5	0,10
20	22	17	25,5	0,10
25	28	54	25,4	0,26
32	34	54	50,5	0,29
40	40	54	50,5	0,31
50	52	67,5	64	0,34
65	70	94,5	77,7	0,44
80	85	109	106	0,53
100	104	122,5	119	0,60
125	129	159	140	0,90
150	154	187	167	1,50
200	204	233	189	1,99
1"	25	90,9	63,8	0,26
1 1/2"	38	90,9	63,8	0,30
2"	51	103,9	77,4	0,34
2 1/2"	63,5	117,6	90,4	0,41
3"	76,1	131	103,6	0,48
4"	101,6	159,5	132,6	0,66





KLEMP CONATASI
CLAMP GASKET
Standartlar / Standards DIN 11850/SMS -ISO
Çalışma Basınç / Working Pressure (0-10 Bar)
Çalışma Sıcaklık / Operating temperature (-25 + 220°C)

Ölçü Size	Ø B	Ağırlık Weight/Kg
15	36,2	0,01
20	36,2	0,02
25	52,7	0,04
32	52,7	0,04
40	52,7	0,05
50	66,2	0,07
65	93,2	0,13
80	108,2	0,15
100	121,2	0,18
125	157,2	0,21
150	185,2	0,23

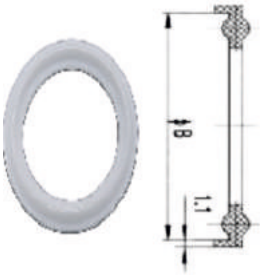


KLEMP KÖRLEYİCİSİ
CLAMP BLINDING
Standartlar / Standards DIN 11850/SMS -ISO
Çalışma Basınç / Working Pressure (0-10 Bar)
Çalışma Sıcaklık / Operating temperature (-25 + 220°C)

Ölçü Size	A	Ø B	Ağırlık Weight/Kg
15	34	6	0,02
20	34	6	0,07
25	50,5	6	0,07
32	50,5	6	0,07
40	50,5	6	0,14
50	64	7	0,20
65	91	8	0,41
80	106	8	0,57
100	119	8	0,62
125	155	12	1,00
150	183	12	1,20



Ölçü Size	Ø B	Ağırlık Weight/Kg
25	44,4	0,01
38	44,4	0,02
51	57,8	0,04
63,5	71,4	0,04
76,1	84,0	0,05
101,6	110,0	0,05

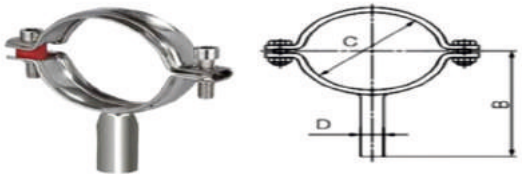


Ölçü Size	A	Ø B	Ağırlık Weight/Kg
25	50,4	6	0,07
38	50,5	6	0,14
51	64	6	0,20
63,5	77,5	6	0,38
76,1	91	6	0,42
101,6	119	8	0,84



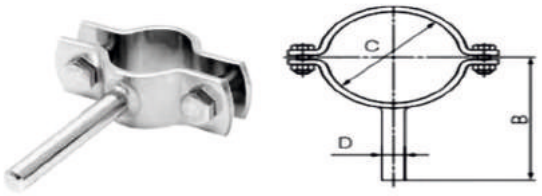
BORU SAPLI KELEPÇE HİJYENİK
PİPE HANDLE CLAMP HYGIENIC
Standartlar / Standards/DIN 11850
Çalışma Basınç / Working Pressure (16 Bar)

Ölçü/Size	MM	D	B	Ağırlık Weight
DN15	18	8	45	0,10
DN20	22	8	60	0,10
DN25	28	10	60	0,11
DN32	34	10	60	0,11
DN40	40	10	60	0,13
DN50	52	12	75	0,16
DN65	70	12	99	0,20
DN80	85	12	116	0,28
DN100	104	12	130,7	0,32
DN125	129	16	155	0,50
DN150	154	16	176	0,90



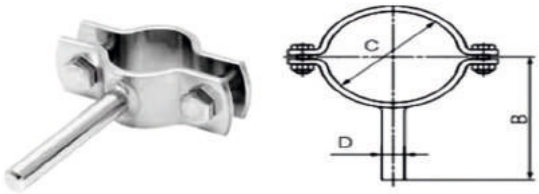
MİL SAPLI KELEPÇE HİJYENİK
PIPE CLAMP WITH SHAFT HANDLE HYGIENIC
Standartlar /Standards / DIN 11850
Çalışma Basınç / Working Pressure (16 Bar)

Ölçü/Size	MM	D	B	Ağırlık Weight
DN15	18	8	45	0,10
DN20	22	8	60	0,10
DN25	28	10	60	0,11
DN32	34	10	60	0,11
DN40	40	10	60	0,13
DN50	52	12	75	0,16
DN65	70	12	99	0,20
DN80	85	12	116	0,28
DN100	104	12	130,7	0,32
DN125	129	16	155	0,50
DN150	154	16	176	0,90



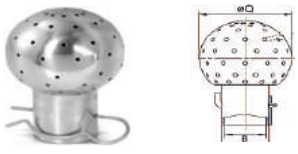
MİL SAPLI KELEPÇE HİJYENİK
PIPE CLAMP WITH SHAFT HANDLE HYGIENIC
Standartlar / Standards / SMS
Çalışma Basınç / Working Pressure (16 Bar)

Ölçü/Size	MM	D	B	Ağırlık Weight
1"	25	10	70	0,15
1 1/2"	38	10	76	0,18
2"	51	12	83	0,24
2 1/2"	63,5	12	90	0,32
3"	76,1	12	96	0,50
4"	101,6	16	109	0,65



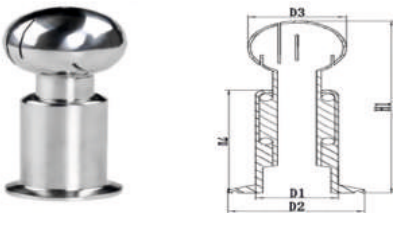
KAYNAKLI SABİT TİP YIKAMA TOPU HİJYENİK
WELDED FIXED TYPE WASHING BALL HYGIENIC
Standartlar / Standards / ISO
Çalışma Basınç / Working Pressure (1-2 Bar)
Çalışma Sıcaklık / Operating temperature (-20+180°C)

Ölçü/Size A-B	Q / mm	Delik Çap mm	T/mm	H	Kg Weight
22	40	2	2,00	70,00	0,11
28	40	2	2,00	70,00	0,11
28	50	2	2,00	80,00	0,20
32	50	2	2,00	90,00	0,22
32	65	2	2,00	90,00	0,22
38	65	2	2,00	95,00	0,25
40	65	2	2,00	95,00	0,34
52	90	2	2,00	95,00	0,90



FERRULE BAĞLANTILI 180° DÖNER TİP YIKAMA TOPU
FERRULE TYPE WASHING 180° BALL WITH FERRULE CONNECTION
Standartlar / Standards S/ISO
Çalışma Basınç / Working Pressure (1-2 Bar)
Çalışma Sıcaklık / Operating temperature (-20+180°C)

Ölçü/Size	D1-D2-mm	D3	H1	H2	Ağırlık Weight/Kg
1 1/2"	38-51	53	140	72	0,490
2"	51-64	63	153	72	0,676

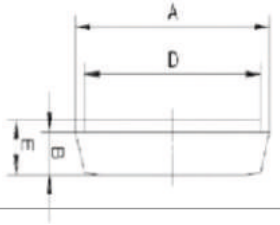


BOŞ ASTAR HİJYENİK
BLANK LİNER HYGIENIC
Standartlar / Standards SMS
Çalışma Basınç / Working Pressure (0-10 Bar)
Çalışma sıcaklık / Operating temperature (-25+220°C)

A	B	E	C	Ağırlık Weight/Kg
28	6	24	9	0,03
36,5	8	30	11	0,03
44	10	35	13	0,04
50	10	41	13	0,04
56	10	48	13	0,13
68,5	11	61	14	0,15
86	12	79	16	0,20
100	12	93	16	0,38
121	15	114	20	0,62
150	17	137	22	1,09
176	18	163	24	1,23

Ölçü Size	A	B	E	C	Ağırlık Weight/Kg
25	35,5	7	13	31,5	0.04
38	55	8	13	47,5	0.10
51	65	9	14	60	0.18
63,5	80	9	16	73,5	0.32
76,1	93	11	16	86,5	0.34
101,6	118	11	20	112,4	0.52

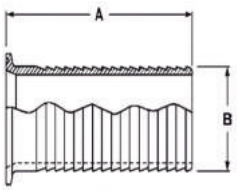




KLEMP BAĞLANTIL HORTUM REKORU HİJYENİK
CLAMP CONNECTION HOSE COUPLING HYGIENIC
Standartlar / Standards DIN 11850-SMS/ISO
Çalışma Basınç / Working Pressure (0-10 Bar)
Çalışma Sıcaklık / Operating temperature (-40+200°C)

Ölçü Size	MM	A	B	L	Ağırlık Weight/Kg
1"	25	3,5	50,5	120	0,08
1 1/2"	38	5	50,5	120	0,10
2"	51	5	64	130	0,25
2 1/2"	63,5	5	77,5	140	0,32
3"	76,1	5,5	91	164	0,36
4"	101,6	6	119	189	0,43
25	28	4	50,4	212	0,09
32	34	5	50,4	260	0,13
40	40	5	50,5	130	0,12
50	52	5,5	64	140	0,26
65	70	5,5	77,5	164	0,32
80	85	6	91	189	0,38
100	104	6	119	212	0,45

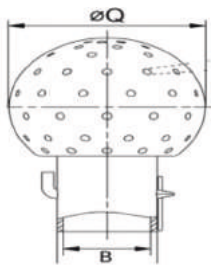




SABİT KLEMP BAĞLANTILI YIKAMA TOPU
FIXED CLAMP CONNECTION WASHING BALL
Standartlar / Standards / ISO / DIN 11850
Çalışma Basınç / Working Pressure (1-2 Bar)
Çalışma Sıcaklık / Operating temperature (-20+180°C)

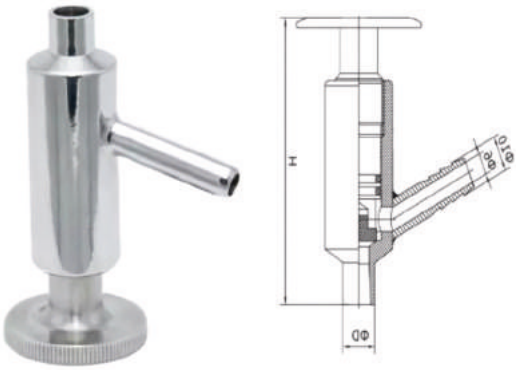
Ölçü/Size	QD-Ferrule	Fit Clamp	S.Q (Diametr)	B	Ağırlık Weight/Kg
1 1/2"	50,5	38	1,8	36	0,22
2"	64	51	2	51	0,37





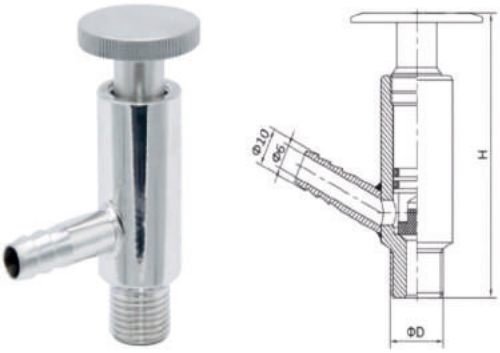
KAYNAK UCLU NUMUNE ALMA VANAS
WELD END SAMPLING VALVE
Standartlar / Standards DIN 11850/51 SMS/ISO
Çalışma Basınç / Working Pressure (10 Bar)
Çalışma Sıcaklık / Operating temperature (-10 + 200°C)
Sızdırmazlık / PTFE-SLİKON

Ölçü/Size	D	H	Ağırlık Weight
1/2"	12,7	89	0,70
3/4"	12,7	89	0,70
3/4"	12,7	89	0,70



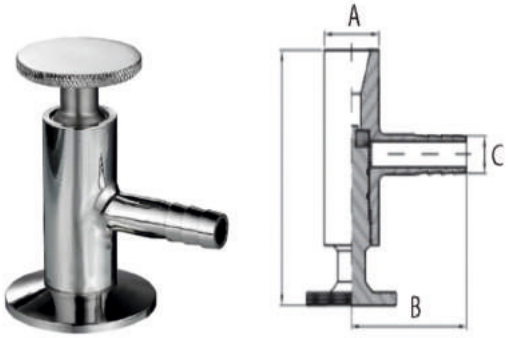
DİŞLİ TİP NUNUNE ALMA VANASI
THREADED TYPE DELIVERY VALVE
Standartlar / Standards /ISO
Çalışma Basınç / Working Pressure (10 Bar)
Çalışma Sıcaklık / Operating temperature (-10 + 200°C)
Sızdırmazlık / PTFE-SLİKON

Ölçü/Size	D-BSP	H	Ağırlık Weight
3/8"	3/8"	89	0,70
1/2"	1/2"	89	0,70
3/4"	3/4"	89	0,70

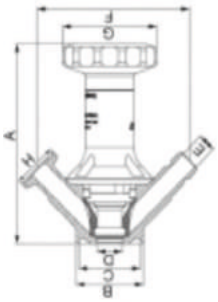


FERULE KLEMP BAĞLANTILI NUNUNE ALMA VANASI
FERULE CLAMP CONNECTION DELIVERY VALVE
Standartlar / Standards DIN 11850/51 SMS/ISO
Çalışma Basınç / Working Pressure (10 Bar)
Çalışma Sıcaklık / Operating temperature (-1 + 150°C)
Sızdırmazlık / PTFE-SLİKON

Ölçü/Size	D-BSP	H	Ağırlık Weight
1/2"	25,5	89	0,70
3/4"	50,5	89	0,70



TEK YATAKLI NUMUNE ALMA VANASI
SINGLE SEAT SAMPLING VALVE





Standartlar / Standards DIN 11850/51 SMS/ISO
Çalışma Basınç / Working Pressure (6 Bar)
Çalışma Sıcaklık / Operating temperature (-10 + 200°C)
Sızdırmazlık / PTFE-SLİKON

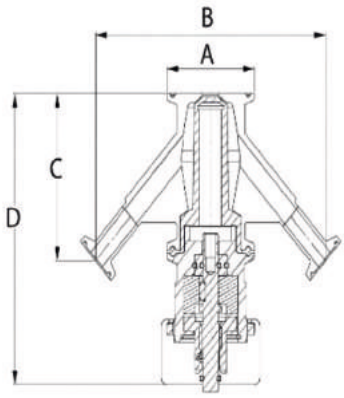
Ölçü/Size	A	B	C	D	E	F	G	H
25	87,6	29	26	4	6	78	46	25
40	87,6	41	38	4	6	78	46	25
50	87,6	53	50	4	6	78	46	25
25	87,6	25	21,8	4	6	78	46	25
40	87,6	38	34,8	4	6	78	46	25
50	87,6	51	47,8	4	6	78	46	25

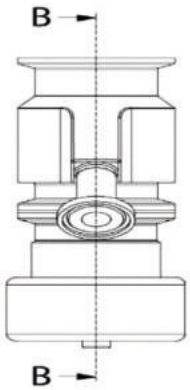
FERULE BAĞLANTILI ASEPTİK NUMUNE ALMA VANASI
ASEPTIC SAMPLING VALVE WITH FERULE CONNECTION

Standartlar / Standards /ISO
Çalışma Basınç / Working Pressure (150 Bar)
Çalışma Sıcaklık / Operating temperature (-51 + 260°C)
Sızdırmazlık / PTFE-SLİKON

Ölçü/Size	A-inch	B	C	D	Ağırlık Weight
50,5	1,55	5,25	2,99	5,25	0,45



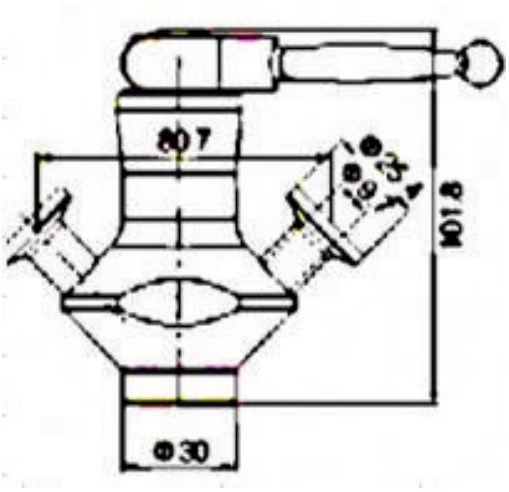




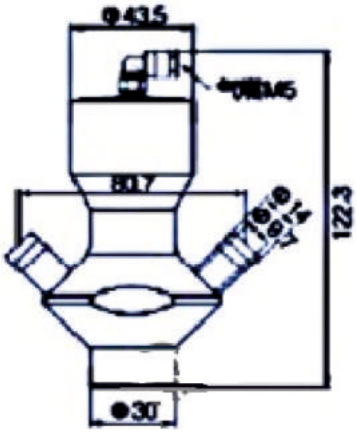
ASEPTİK NUMUNE ALMA VANA MODELLERİ
ASEPTIC SAMPLING VALVE MODELS

Standartlar / Standards / ISO
Çalışma Basınç / Working Pressure (150 Bar)
Çalışma sıcaklık / Operating temperature (-51 + 260°C)
Sızdırmazlık / PTFE-SLİKON

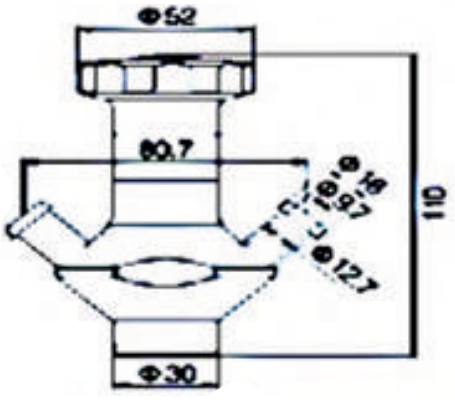








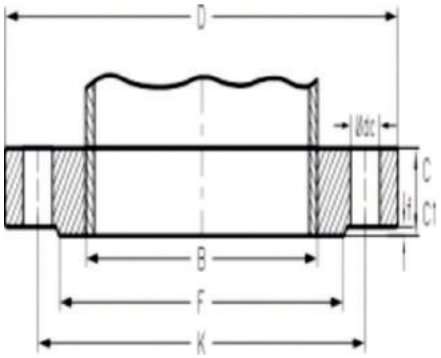




DIN 11850 HİJYENİK GIDA FLANŞI
DIN 11850 HYGIENIC FOOD FLANGE
Standartlar / Standards DIN 11850/51
Çalışma Basınç / Working Pressure (20 Bar)
Çalışma sıcaklık / Operating temperature (-30 + 205°C)

Ölçü/Size	db	D	C	K	Cıvata Bolt	Ağırlık Weight/Kg
15	18	95	14	65	M12	0,65
20	22	105	14	75	M13	0,7
25	28	115	14	85	M12	1,2
32	34	140	18	100	M16	1,7
40	40	150	18	110	M16	1,95
50	52	165	18	125	M16	2,65
65	70	185	20	145	M16	2,85
80	85	200	20	160	M16	3,5
100	104	220	22	180	M16	4,35
125	129	250	22	210	M16	5,8
150	154	285	24	240	M16	6,9
200	204	340	26	295	M20	9,3
250	254	395	26	350	M20	11,5





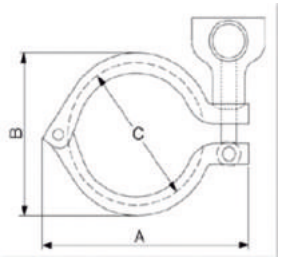
HİJYENİK KLEMP KLEPPÇE TAKIMI
HYGIENIC CLAMP CLAMP KIT
Standartlar / Standards / DIN 11850
Conta / Gasket EPDM / SLİCON

Ölçü/Size	MM	A	B	C	Kg Weight
DN15	18	70	45	35	0,25
DN20	22	80	60	35	0,28
DN25	28	80	60	49,5	0,32
DN32	34	80	60	49,5	0,40
DN40	40	80	60	52	0,42
DN50	52	102	75	64,5	0,50
DN65	70	129	99	91	0,87
DN80	85	140	116	106	0,96
DN100	104	155	130,7	119	1,10
DN125	129	173	155	155	1,43
DN150	154	221	176	166	1,87
DN200	204	248	180	216	2,14

HİJYENİK KLEMP KLEPPÇE TAKIMI
HYGIENIC CLAMP CLAMP KIT
Standartlar / Standards / SMS
Conta / Gasket EPDM / SLİCON

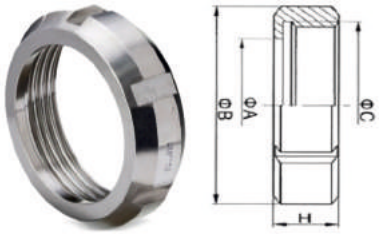
Ölçü/Size	MM	A	B	C	Kg Weight
1"	25	90,5	63,5	50,5	0,39
1 1/2"	38	90,5	63,5	50,5	0,48
2"	51	103	77	64	0,50
2 1/2"	63,5	117,5	90	77,5	0,65
3"	76,1	130,5	103,5	91	0,74
4"	101,6	159	132,5	119	1,09





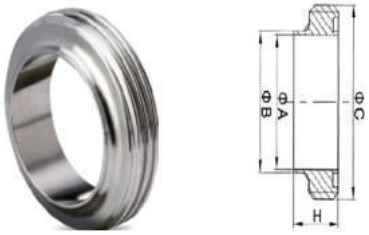
REKOR SOMUNU
UNİON MALE NUT
Standartlar / Standards SMS
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40+220°C)

Ölçü/Size	A	B	C	H	Kg Weight
25	32	51	Rd40×1/6"	19	0.17
38	48	74	Rd60×1/6"	23	0.21
51	60,5	84	Rd70×1/6"	24	0.24
63,5	74	100	Rd85×1/6"	28	0.32
76,1	87	114	Rd98×1/6"	30	0.48
101,6	113	138	Rd125×1/4"	31	0.90



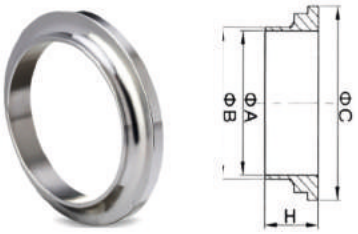
REKOR DİŞLİSİ
UNİON MALE PAR
Standartlar / Standards SMS
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40+220°C)

Ölçü/Size	A	B	C	H	Kg Weight
25	22,5	25	Rd40×1/6"	19	0,04
38	35,5	38	Rd60×1/6"	23	0,08
51	48,5	51	Rd70×1/6"	23	0,12
63,5	60	63,5	Rd85×1/6"	27	0,15
76,1	72,9	76,1	Rd98×1/6"	27	0,16
101,6	97,6	101,6	Rd125×1/4"	40	0,20



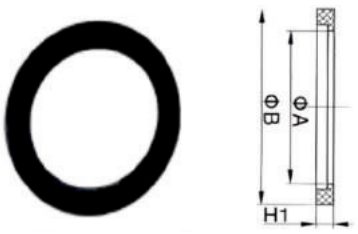
REKOR YAKASI
UNİON LİNER
Standartlar / Standards SMS
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma sıcaklık / Operating temperature (-40+220°C)

Ölçü/Size	A	B	C	H	Kg Weight
25	22,5	25	35,5	15,5	0.10
38	35,5	38	55	16	0.12
51	48,5	51	65	17	0.17
63,5	60	63,5	80	17	0.28
76,1	72,9	76,1	93	19	0.30
101,6	97,6	101,6	118	19	0.30



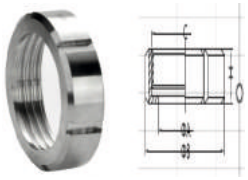
REKOR CONTASI
UNİON GASKET
Standartlar / Standards EPDM-SLİCON
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40+220°C)

Ölçü/Size	A	B	H	RİNG	Kg Weight
25	22,8	38,1	5,3	EPDM	0,02
38	35,8	47,8	5,3	EPDM	0,02
51	48,8	60,8	5,3	EPDM	0,02
63,5	61	73,3	5,3	EPDM	0,02
76,1	73,4	85,8	5,3	EPDM	0,03
101,5	100,5	115,7	5,3	EPDM	0,03



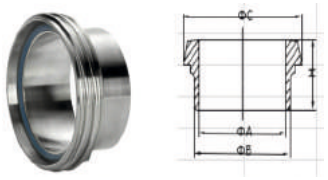
REKOR SOMUNU
UNİON MALE NUT
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40+220°C)

Ölçü/Size	A	B	C	H	Kg Weight
10	14	38	Rd28×1/8"	18	0,09
15	25	44	Rd34×1/8"	18	0,13
20	31	54	Rd44×1/6"	20	0,15
25	36	63	Rd52×1/6"	21	0.18
32	42.5	70	Rd58×1/6"	21	0.27
40	49	78	Rd65×1/6"	21	0.35
50	62	92	Rd78×1/6"	22	0.62
65	80	112	Rd95×1/6"	25	0.85
80	94	127	Rd110×1/4"	29	0.92
100	115	138	Rd130×1/4"	31	1,10
125	138	178	Rd160×1/4"	35	1,34
150	164	210	Rd190×1/4"	40	1,76



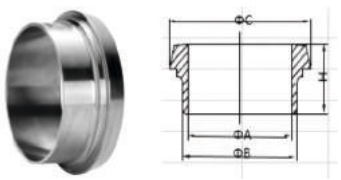
REKOR DİŞLİSİ
UNİON MALE PAR
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40+220°C)

Ölçü/Size	A	B	C	H	Kg Weight
10	10	15	22,5	17	0,04
15	16	21	28,5	17	0,08
20	20	25	36.5	18	0,12
25	26	31	44	22	0,15
32	32	37	50	25	0,16
40	38	43	56	26	0,20
50	50	55	68.5	28	0,29
65	66	72	86	32	0,43
80	81	87	100	37	0,52
100	100	106	121	44	0,67
125	125	132	150	34	0,87
150	150	157	176	37	0,98



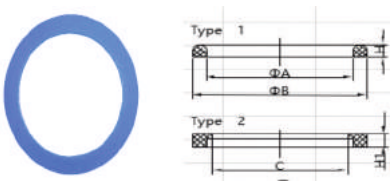
REKOR YAKASI
UNİON LİNER
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40+220°C)

Ölçü/Size	A	B	C	H	Kg Weight
10	10	15	Rd28×1/8"	0,01	0,01
15	16	21	Rd34×1/8"	0,02	0,02
20	20	25	Rd44×1/6"	0,05	0,05
25	26	31	Rd52×1/6"	0,07	0,07
32	32	37	Rd58×1/6"	0,09	0,09
40	38	43	Rd65×1/6"	0,11	0,11
50	50	55	Rd78×1/6"	0,16	0,16
65	66	72	Rd95×1/6"	0,28	0,28
80	81	87	Rd110×1/4"	0,34	0,34
100	100	106	Rd130×1/4"	0,56	0,56
125	125	132	Rd160×1/4"	46	0,77
150	150	157	Rd190×1/4"	50	0,98



REKOR CONTASI
UNİON GASKET
Standartlar / Standards EPDM-SLİCON
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40+220°C)

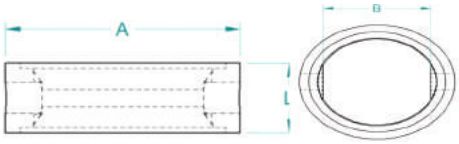
Ölçü/Size	A	B	C	H	Kg Weight
10	12	20	10,2	4,5	0,02
15	18	26	16,2	4,5	0,02
20	23	33	20,2	4,5	0,02
25	30	40	26,2	5	0,02
32	36	46	32.2	5	0,03
40	42	52	38.2	5	0,04
50	54	64	50.2	5	0,06
65	71	81	66.2	5	0,07
80	85	95	81.2	5	0,09
100	104	114	100.2	6	0,13
125	130	142	125.2	7	0,16
150	155	167	150.2	7	0,18



KELEBEK VANA CONTASI / EPDM NBR/PTFE
BUTTERFLY VALVE GASKET / EPDM NBR/PTFE
Standartlar / Standards/SMS / ISO
Çalışma Basınç / Working Pressure (16 Bar)
Çalışma sıcaklık / Operating temperature (-40+210°C)

Model	L	D	A
1" (25)	36	22	19
1 1/2" (38)	49	35	19
2" (51)	63	48	20
2 1/2" (63,5)	76	60	24
3" (76,1)	93	73	27
4" (101,6)	126	100	35

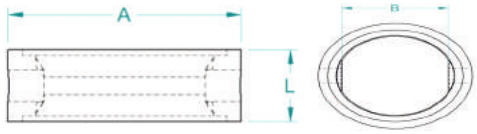




KELEBEK VANA CONTASI / EPDM NBR/PTFE
BUTTERFLY VALVE GASKET / EPDM NBR/PTFE
Standartlar / Standards-DIN 11850
Çalışma Basınç / Working Pressure (16 Bar)
Çalışma Sıcaklık / Operating temperature (-40+210°C)

DN15	35	17,5	18
DN20	38	18	22
DN25	42	18	27
DN32	46	18	30
DN40	55	18	40
DN50	66,5	20	50
DN65	85	22,5	67
DN80	100	25	81
DN100	119	28	101



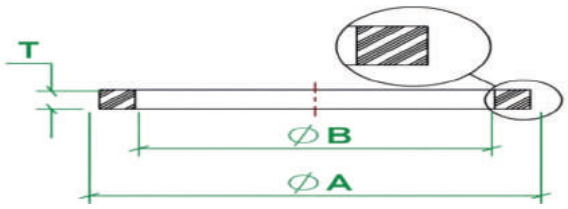


REKOR CONTASI / EPDM NBR/PTFE
REKOR CONTASI / EPDM NBR/PTFE
Standartlar / Standards / ISO / DIN 11850-SMS
Çalışma Basınç / Working Pressure (16 Bar)
Çalışma Sıcaklık / Operating temperature (-40+210°C)

Model	T	B	A
DN10	4,5	12	20
DN15	4,5	18	26
DN20	4,5	23	33
DN25	5	30	40
DN32	5	43	46
DN40	5	54	52
DN50	5	71	64
DN65	5	78	81
DN80	5	85	88
DN100	5	104	95
DN125	6	130	142







KLEM CONTASI / EPDM NBR/PTFE
FERRULE GASKET EPDM NBR/PTFE
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (16 Bar)
Çalışma Sıcaklık / Operating temperature (-40+210°C)

Model	T	B	A
DN10	5,5	10,2	36,2
DN15	5,5	16,2	36,2
DN20	5,5	20,2	36,2
DN25	5,5	26,2	52,7
DN32	5,5	32,2	52,7
DN40	5,5	38,2	52,7
DN50	5,5	50,2	66,2
DN65	5,5	66,2	93,2
DN80	5,5	81,2	108,2
DN100	5,5	100,2	121,2
DN125	5,5	125,2	157,2
DN150	5,5	150,2	185,2



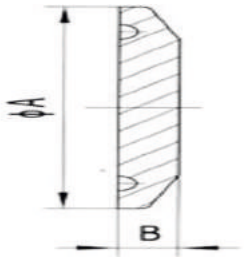


Ölçü Size	T	O	B
1"	5,1	50,5	52,5
1 1/2"	5,1	5,5	52,5
2"	5,1	64	67
2 1/2"	5,1	77,5	80,5
3"	5,1	91	95
4"	5,1	119	123

KLMEP KÖRLEYİCİ END/KEP HİJYENİK
CLAAMP BLINDINS END/CAP HYGIENIC
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

Ölçü/Size	Φ A / mm	B / mm	DUCT-RİNG	Kg Weight
25	28	6	2,00	0,07
40	40	6	2,00	0,90
50	52	6	2,00	0,15
65	70	6	2,00	0,20
80	85	7	2,00	0,40
100	104	7	2,00	0,65
125	129	11	2,00	1,52
150	154	11	2,00	2,18

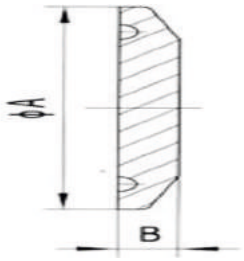




KLMEP KÖRLEYİCİ END/KEP HİJYENİK
CLAMP BLINDINS END/CAP HYGIENIC
Standartlar / Standards SMS
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma sıcaklık / Operating temperature (-40 +220°C)

Ölçü/Size	Φ A / mm	B / mm	DUCT-RİNG	Kg Weight
1"	25	6	2,00	0,07
1 1/2"	38	6	2,00	0,90
2"	51	6	2,00	0,15
2 1/2"	63,5	6	2,00	0,35
3"	76,1	7	2,00	0,40
4"	101,6	7	2,00	0,65

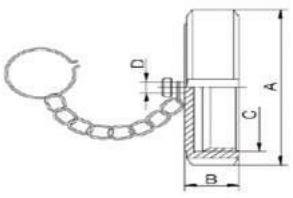




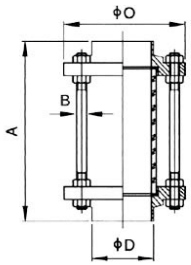
HİJYENİK ZİNCİRLİK KÖR RAKOR SOMUNU
HYGIENIC CHAIN FITTING NUT
Standartlar / Standards / DIN 11850

Ölçü/Size	A	B	C	D	Kg Weight
DN25	63	21	52	8	0,25
DN32	70	21	58	8	0,25
DN40	78	21	65	8	0,30
DN50	93	22	78	8	0,35
DN65	113	25	95	8	0,41
DN80	148,5	29	110	8	0,80
DN100	179	31	130	8	1,10





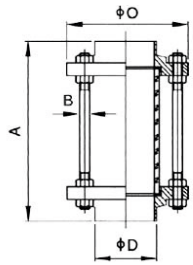




HAT TİPİ GÖZETLEME CAMI HİJYENİK
LINE TYPE SIGHT GLASS HYGIENIC
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

Ölçü Size	A /mm	ΦD /mm	ΦO /mm	B/mm	Ağırlık Weigh
DN25	140	28	78	3	0,51
DN32	140	34	78	3	0,49
DN40	140	40	86	5	0,55
DN50	142	52	102	5	0,80
DN65	144	70	120	5	1,21
DN80	148	85	134	5	1,90
DN100	152	104	154	5	2,34

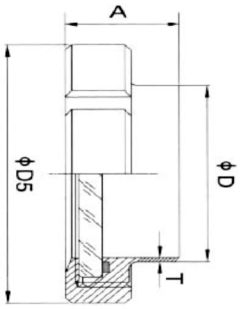




HAT TİPİ GÖZETLEME CAMI HİJYENİK
LINE TYPE SIGHT GLASS HYGIENIC
Standartlar / Standards SMS-ISO
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

Ölçü Size	A /mm	ΦD /mm	ΦO /mm	B/mm	Ağırlık Weigh
25	140	25	8	M6	0,45
38	140	38	8	M6	0,49
51	140	51	10	M6	0,76
63,5	142	63,5	10	M6	1,10
76,1	144	76,1	10	M6	1,30
101,6	148	101,6	10	M6	2,20

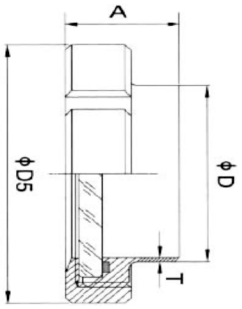




REKOR TİPİ GÖZETLEME CAMI HİJYENİK
LINE TYPE SIGHT GLASS HYGIENIC
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

Ölçü Size	A /mm	ΦD /mm	ΦT5 /mm	T/mm	Ağırlık Weigh
DN25	35	28	63	1,50	0.31
DN32	38	34	70	1,50	0.40
DN40	40	40	78	1,50	0.48
DN50	42	52	92	1,50	0.69
DN65	47	70	112	2,00	1,10
DN80	52	85	127	2,00	1,61
DN100	62	104	148	2,00	2,27

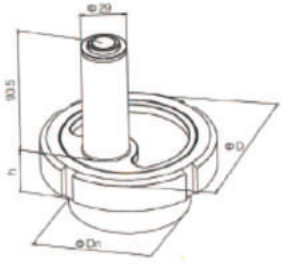




REKOR TİPİ GÖZETLEME CAMI HİJYENİK
LINE TYPE SIGHT GLASS HYGIENIC
Standartlar / Standards SMS-ISO
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma sıcaklık / Operating temperature (-40 + 220°C)

Ölçü Size	A /mm	ΦD /mm	ΦT5 /mm	T/mm	Ağırlık Weigh
25	29	25	51	1,50	0,29
38	33	38	74	1,50	0,45
51	36	51	84	1,50	0,65
63,5	41	63,5	100	1,60	0,90
76,1	48	76,1	114	1,60	1,25
101,6	50	101,6	150	2,00	2,00

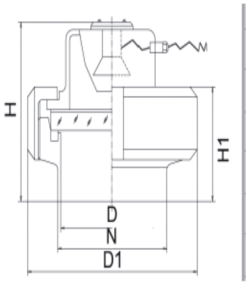




LED IŞIKLI GÖZETLEME CAMI HİJYENİK
LED LIGHTED SIGHT GLASS HYGIENIC
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma sıcaklık / Operating temperature (-40+220°C)

Ölçü Size	D	Dn	H	Ağırlık Weight
50	92	55	38	0.69
65	100	72	44	1,10
80	125	87	49	1,61
100	146	106	57	2,27
125	178	132	52	3,65
150	210	158	53	4,98

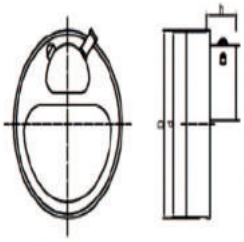




IŞIKLI GÖZETLEME CAMI HİJYENİK
LIGHTED SIGHT GLASS HYGIENIC
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma sıcaklık / Operating temperature (-40 + 220°C)

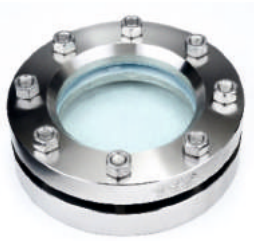
Ölçü Size	D-MM	D1-MM	N-MM	H-MM	H1-MM	Ağırlık Weight
80	127	106	81	88,00	50	1,81
100	146	106	100	88,00	60	2,50
125	176	132	125	88,00	55	3,44
150	208	157	159	88,00	55	4,70

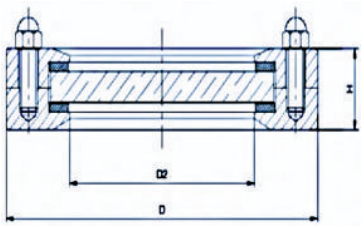




GÖZETLEME CAM TERTİBATI
SURVEILLANCE GLASS ASSEMBLY
Standartlar / Standards :
Aydınlatma Kablosu Lighting cable

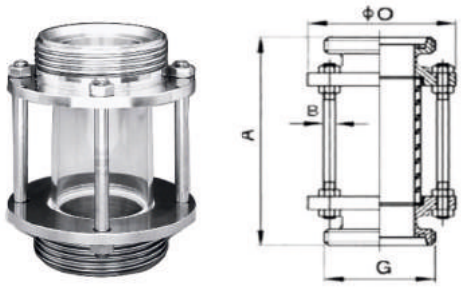
Ölçü Size	D	d	a	h
80	100	94	34	40
100	120	114	44	40
125	152	148	44	40
150	172	165	44	40





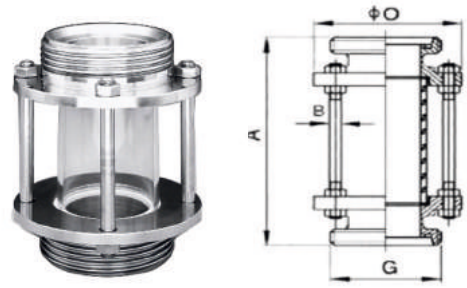
FLANŞLI GÖZETLEME CAMI
FLANGED SIGHT GLASS
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma sıcaklık / Operating temperature (-40 + 220°C)

Ölçü Size	MM	H	N-MM	H-MM	Ağırlık Weight
40	40	25	115	68,00	4,50
50	52	29	140	78,00	5,50
65	70	29	155	98,00	6,50
80	85	29	155	98,00	8,40
100	104	30	190	128,00	9,00
125	128	33	224	154,00	12,65
150	154	41	250	183,00	14,86



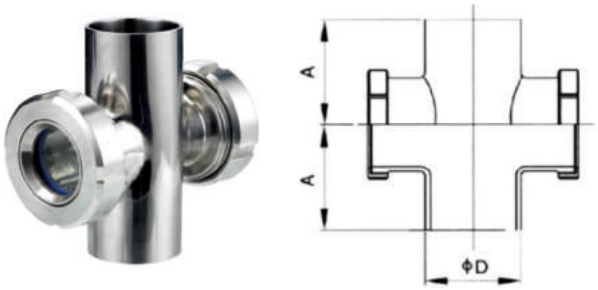
RAKOR DİŞLİ GÖZETLEME CAMI HİJYENİK
UNİON THREADED SIGHT GLASS HYGIENIC
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

Ölçü Size	A/mm	Φ O/mm	B/mm	Ağırlık Weight
DN25	156	78	8	0,81
DN32	160	86	8	0,91
DN40	164	90	8	0,99
DN50	166	106	10	1,12
DN65	172	124	10	1,55
DN80	178	139	10	2,38
DN100	196	159	10	3,00



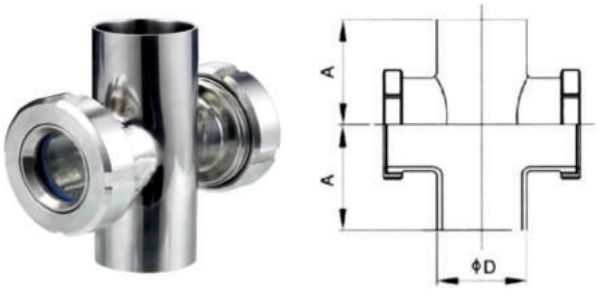
RAKOR DİŞLİ GÖZETLEME CAMI HİJYENİK
UNİON THREADED SIGHT GLASS HYGIENIC
Standartlar / Standards SMS-ISO
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

Ölçü Size	A/mm	ΦO/mm	B/mm	Ağırlık Weight
25	156	78	8	0,76
38	160	86	8	0,95
51	164	102	8	1,10
63,5	168	115	10	1,75
76,1	172	128	10	2,00
101,6	192	154	10	2,75



BULLGÖZ HAT TİPİ GÖZETLEME CAMI HİFYENİK
BULLGEY LINE TYPE SIGHT GLASS HYGIENIC
Standartlar / Standards DIN 11850
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

Ölçü Size	D	DA	D1	Ağırlık Weight
DN25	28	50	28	0,81
DN32	34	55	34	0,91
DN40	40	60	40	0,99
DN50	52	70	52	1,12
DN65	70	80	70	1,55
DN80	85	90	85	2,38
DN100	104	100	104	3,00



BULLGÖZ HAT TİPİ GÖZETLEME CAMI HİFYENİK
BULLGEY LINE TYPE SIGHT GLASS HYGIENIC
Standartlar / Standards SMS-ISO
Çalışma Basınç / Working Pressure (14 Bar)
Çalışma Sıcaklık / Operating temperature (-40 + 220°C)

Ölçü Size	D	DA	D1	Ağırlık Weight
1	25	33,5	25	0,81
1 1/2"	38	48,5	38	0,91
2"	51	60,5	51	0,99
2 1/2"	63,5	83,5	63,5	1,12
3"	76,1	88,5	76,1	1,55
4"	101,6	128	101,6	2,38

HİJYENİK PNÖMATİK AKTUATÖR
HYGIENIC PNEUMATIC ACTUATOR
Standartlar / Standards /ISO/DIN 11850
Çalışma Basınç / Working Pressure (4-6 Bar)
Çalışma Sıcaklık / Operating temperature (-20 + 80°C)

Ölçü Size	DN	ØM	H2	Ağırlık Weight
1"	25	90	160	2,65
1 1/4"	32	90	160	2,65
1 1/2"	40	90	160	2,65
2"	50	90	160	2,65
2 1/2"	65	90	160	3,00
3"	80	90	160	3,00
4"	100	90	160	3,00
5"	125	90	160	7,00
6"	150	90	160	7,00





KELEBEK VANA C -TOPU UYUMLU AKTUATÖR
BUTTERFLY VALVE C-BALL COMPATIBLE ACTUATOR
Standartlar / Standards / ISO/DIN 11850
Çalışma Basınç / Working Pressure (5-7 Bar)
Çalışma Sıcaklık / Operating temperature (-25 + 90°C)

Ölçü Size	DN	d	H	Ağırlık Weight
1"	25	90	160	2,40
1 1/4"	32	90	160	2,40
1 1/2"	40	90	160	2,40
2"	50	90	160	2,40
2 1/2"	65	90	160	3,00
3"	80	90	160	3,00
4"	100	90	160	3,00
5"	125	90	160	3,00
6"	150	90	160	7,00





C TOP ÜNİTESİ
C BAAL UNIT
Çalışma Sıcaklık / Operating temperature (-25 +90°C)
Çalışma Basınç / Working Pressure (5-7 Bar)

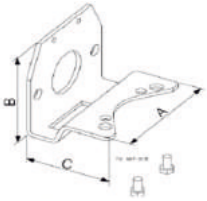
0 Selenoid/1 Prox.Swic 1 B
1 Selenoid/1 Prox.Swic 1 B
2 Selenoid/1 Prox.Swic 1 B
3 Selenoid/1 Prox.Swic 1 B





PNÖMATİK VANA BAĞLANTI BRAKETİ
PNEUMATIC VALVE CONNECTION BRACKET

Ölçü Size	A	B	C	Ağırlık Weight
DN25	51,5	52	78	0,21
DN32	55	52	82	0,22
DN40	58,5	52	86	0,24
DN50	67,5	52	96	0,27
DN65	70,5	52	98	0,27
DN80	90	57	117	0,30
DN100	104,5	57	131	0,45

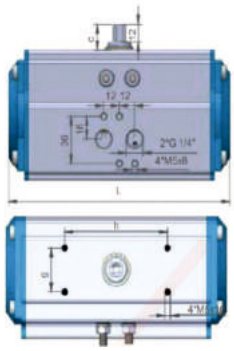


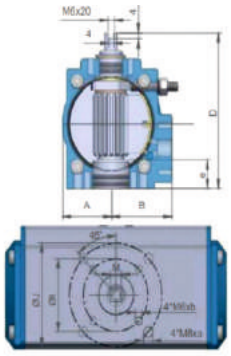


TEKNİK ÖLÇÜLER / TECHNICAL MEASUREMENT (mm)														
Model	L	D	A	B	c	e	e	h	g	J	I	M	b	Hava Besleme
U40	121	81	40	36	18	15	80	30	50	36	9	M5x8	M6x10	G1/4”
U52	148	92	30	42	18	15	80	30	50	36	11	M5x8	M6x10	G1/4”
U63	172	106	37	47	18	19	80	30	70	50	11&14	M6x10	M8x10	G1/4”
U75	185	119	42	53	18	19	80	30	70	50	11&14	M6x10	M8x13	G1/4”
U83	204	129	46	57	18	21	80	30	70	50	14-17	M6x10	M8x13	G1/4”
U92	262	137	50	59	18	21	80	30	70	50	14*17	M6x10	M8x13	G1/4”





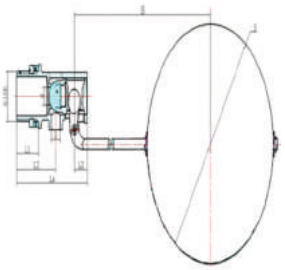




Basınç kontrol etmeye yarayan, durumu hava ve gaz ile değiştirebilen sistemlere Pnömatik aktüatörler denir. Bu durum pnömatik aktüatör nedir sorusunu ortaya çıkartır. Yaygın kullanım alanları ise özellikle kimya endüstrisi ve otomasyon uygulamalarıdır. Vana ve alıcılar sayesinde sistemde yer alan basınç ve debinin sağlıklı bir şekilde kontrol edilmesi sağlanır.
Systems that are used to control pressure and can change the situation with air and gas are called Pneumatic actuators. This raises the question of what is a pneumatic actuator. Common usage areas are especially chemical industry and automation applications. Thanks to valves and receivers, it is ensured that the pressure and flow in the system are controlled in a healthy way.

Çift Etkili Pnömatik Aktüatör Tork Değerleri (N.m) / Double Acting Pneumatic Actuator Torque Values (N.m)							
Model	2 Bar	3 Bar	4 Bar	5 Bar	6 Bar	7 Bar	8 Bar
U40	4,0	6,0	8,0	10,0	12,0	14,0	14,0
U52	8,5	12,7	17,0	21,0	26,0	30,0	30,0
U63	15,0	22,0	30,0	37,0	45,0	53,0	53,0
U75	24,7	37,1	50,0	62,0	74,0	87,0	87,0
U83	32,5	48,7	65,0	81,0	97,0	113,0	114,0
U92	46,5	69,8	93,0	116,0	140,0	162,0	162,0





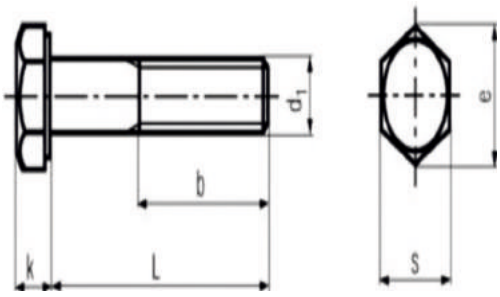
Paslanmaz Dişli Şamandıra
Stainless Gear Float

Ölçü Size	L1	L2	L3	L4	L5	d	D	S	Kg
1/2"	21	30	24	70	275	8	10	115	0,3
3/4"	22	32	24	70	275	10	12	115	0,33
1"	28	42	29	90	350	15	16	135	0,62
1 1/4"	31	44	29	94	370	14	16	150	0,7
1 1/2"	32	49	38	115	480	22	25	225	1,66
2"	36	57	40	128	500	27	28	250	2,1

6 KÖŞE BAŞLI METRİK CİVATALAR
6 CORNER HEAD METRIC BOLTS

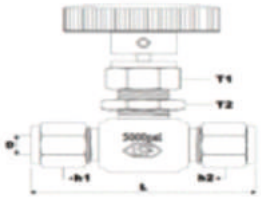
Ölçü Size	L (mm)
M 4	-
M 6	-
M 8	-
M 10	-
M 12	-
M 14	-
M 16	-
M 18	-
M 20	-
M 22	-
M 24	-
M 26	-
M 30	-
M 33	-
M 36	-





REKORLU İĞNELİ VANA
RECORD NEEDLE VALVE

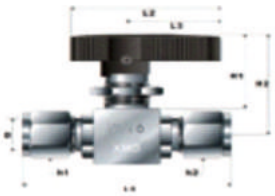




Ölçü Size	D	H1	H2	h1	h2	L1	L2	L3	Orfice
6-mm	6,00	29,50	39,00	14,00	14,00	64,50	45,50	16,00	5,00
8-mm	8,20	29,50	39,00	17,00	17,00	70,00	45,50	16,00	5,00
10-mm	10,20	31,00	43,00	19,00	19,00	72,00	67,00	22,00	7,00
12-mm	12,20	33,00	43,00	22,00	22,00	82,00	67,00	22,00	9,20

REKORLU KÜRESEL VANA
BALL VALVE WITH RECOGNITION



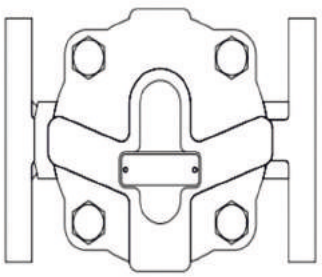


Ölçü Size	D	T1	T2	h1	h2	L1	Orfice
6-mm	6,00	17,00	19,00	14,00	14,00	59,00	4,00
8-mm	8,20	17,00	19,00	16,00	16,00	63,00	4,00
10-mm	10,20	19,00	22,00	19,00	19,00	67,00	5,00
12-mm	12,20	22,00	24,00	22,00	22,00	83,00	6,00

Paslanmaz Şamandırlalı Kondestop
Stainless Float Trap

Ölçü / Size / 1/2" BSP

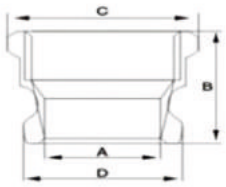




A TİPİ KAMLOK
A TYPE CAMLOCK

Ölçü Size (DN)	A	B	C	D
1/2"	14,5	46	26	24
3/4"	21	36,5	31	32
1"	24	45,5	39	27
1 1/4"	30	54	48	46
1 1/2"	38	55	54	53
2"	47	60	66	63
2 1/2"	59	72	82	75
3"	76	69	95	91
4"	102	72	122	119



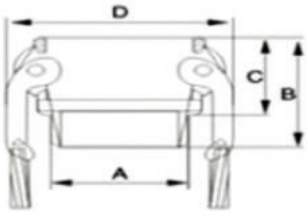


Quick Joint Type A

B TİPİ KAMLOK
B TYPE CAMLOCK

Ölçü Size (DN)	A	B	C	D
1/2"	20,9	45	29	42
3/4"	26,4	50	34	53
1"	33,2	58	39	58
1 1/4"	41,9	66	45	72
1 1/2"	47,8	66	45	78
2"	59,6	72	51	93
2 1/2"	75,2	79	52	107
3"	87,9	85	55	130
4"	113	87	57	158



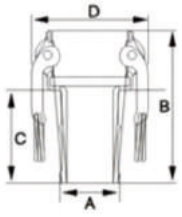


Quick Joint Type B

C TİPİ KAMLOK
C TYPE CAMLOCK

Ölçü Size (DN)	A	B	C	D
1/2"	14	65	36	42
3/4"	20	82	48	53
1"	25	96	57	58
1 1/4"	32	110	65	72
1 1/2"	38	115	70	78
2"	51	126	75	93
2 1/2"	65	134	82	107
3"	76	148	93	130
4"	102	154	97	158



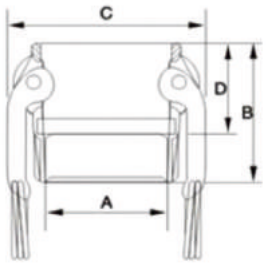


Quick Joint Type C

D TİPİ KAMLOK
D TYPE CAMLOCK

Ölçü Size (DN)	A	B	C	D
1/2"	18,6	44	42	29
3/4"	24,1	49	52	34
1"	30,3	59	58	39
1 1/4"	38,9	65	72	45
1 1/2"	44,8	66	78	45
2"	56,6	74	93	51
2 1/2"	72,2	79	107	52
3"	85	83	130	55
4"	110	89	158	57



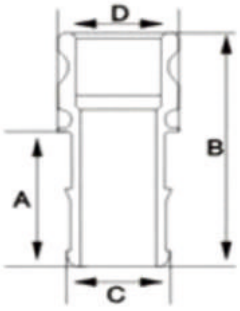


Quick Joint Type D

E TİPİ KAMLOK
E TYPE CAMLOCK

Ölçü Size (DN)	A	B	C	D
1/2"	36	73	14	24
3/4"	48	86	20	31
1"	57	101	25	26
1 1/4"	64	116	32	45
1 1/2"	70	125	38	53
2"	76	137	51	67
2 1/2"	80	144	65	75
3"	92	158	76	91
4"	98	165	102	119



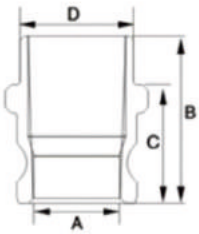


快速接头E型
Quick Joint Type E

F TİPİ KAMLOK
F TYPE CAMLOCK

Ölçü Size (DN)	A	B	C	D
1/2"	14,5	51	36	21
3/4"	21	53	39,5	26
1"	24	63	45,5	32
1 1/4"	30	72	54	42
1 1/2"	38	74	55	48
2"	47	80	60	60
2 1/2"	59	89	72	75
3"	76	96	69	88
4"	102	102	72	113



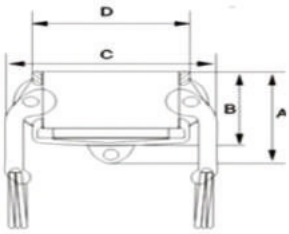


快速接头F型
Quick Joint Type F

D P TİPİ KAMLOK
D P TYPE CAMLOCK

Ölçü Size (DN)	A	B	C	D
1/2"	28	36	26	24
3/4"	31	39	31	31,3
1"	35	45	39	26,3
1 1/4"	42	52	48	45,3
1 1/2"	45	55	54	53
2"	51	63	66	63
2 1/2"	53	64	82	75,5
3"	56	68	95	91,3
4"	58	73	122	119



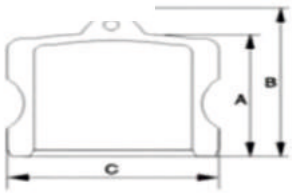


Quick Joint Type DC

D C TİPİ KAMLOK
D C TYPE CAMLOCK

Ölçü Size (DN)	A	B	C	D
1/2"	38	30	42	32
3/4"	44	35	52	39
1"	49	40	58	44
1 1/4"	57	47	72	55
1 1/2"	59	48	78	63
2"	65	57	93	74
2 1/2"	80	58	107	87
3"	71	59	130	105
4"	72	60	158	132



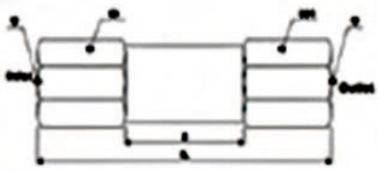


Quick Joint Type DP

REKORLU ÇEKVALF
CHECK VALVE WITH RECOGNITION

Ölçü Size	H	H1	I	L
6-mm	17,00	17,00	18,00	50,00
8-mm	22,00	22,00	22,00	60,00
10-mm	30,00	30,00	33,00	78,00
12-mm	0,00	0,00	0,00	82,00

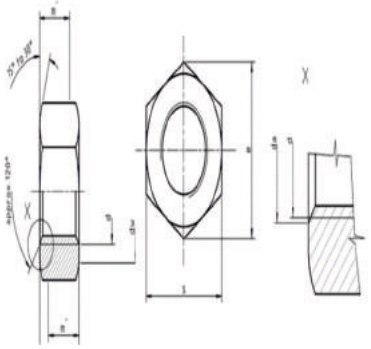




6 KÖŞE BAŞLI METRİK SOMUN
6 CORNER HEAD METRIC NUT

Ölçü Size	L (mm)
M 4	-
M 6	-
M 8	-
M 10	-
M 12	-
M 14	-
M 16	-
M 18	-
M 20	-
M 22	-
M 24	-
M 26	-
M 30	-
M 33	-
M 36	-

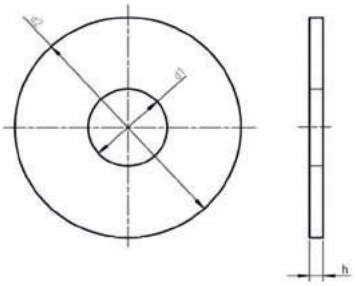




METRİK SOMUN PUL
METRIC STAMP

Ölçü Size	L (mm)
M 4	-
M 6	-
M 8	-
M 10	-
M 12	-
M 14	-
M 16	-
M 18	-
M 20	-
M 22	-
M 24	-
M 26	-
M 30	-
M 33	-
M 36	-





Pnömatik ve Hidrolik Yüksek Basınçlı Bağlantı Parçalar
Pneumatic and Hydraulic High Pressure Fittings

NPT ELBOW



NPT MALE ELBOW



NPT TEE



NPT MALE TEE



NPT CROSS



NPT HEX COUPLING



NPT UNION RECORD



NPT PIPE CAP



NPT REDUCING BUSHING



REDUCING BUSHING SAE/MS STRAIGHT THREAD BOSS



NPT HEX LONG NIPPLE



NPT STREET ELBOW



NPT HEX REDUCING COUPLING



ADAPTER NPT



ADAPTER FEMALE NPT TO MAL BSPP



ADAPTER NPT TO SAE/MS STRAIGHT THREAD BOSS



PIPE PLUG NPT



NPT HEX NIPPLE



HEX NIPPLE MALE NPT TO MALE BSPT



HEX NIPPLE MALE NPT TO MALE BSPP



HEX NIPPLE NPT TO SAE/MS STRAIGHT BOSS



NPT CLOSE NIPPLE



NPT REDUCING NIPPLE



NPT BRANCH TEE



NPT STREET TEE



NPT MALE HOSE CONNECTOR



NPT FEMALE HOSE CONNECTOR



TUBE TO HOSE CONNECTOR



H500 SERİSİ ÜÇ PARÇALI KÜRESEL VANALAR
H500 SERIES THREE-PIECE BALL VALVES



H6800 SERİSİ YÜKSEK PERFORMANSLI KÜRESELVANALAR
H6800 SERIES HIGH PERFORMANCE BALL VALVES



İKİ PARÇALI KÜRESEL VANALAR
H700 SERIES TWO-PIECE BALL VALVES



KOMPAKT MİNİ KÜRESEL VANALAR
H800 SERIES COMPACT MINI BALL VALVES



CHECK VANALARI
H400-H400HP SERIES CHECK VALVES



BASINÇ EMNİYET VANALARI
H900-H900HP SERIES PRESSURE RELIEF VALVES



AŞIRI AKIŞ KONTROL VANALARI
H911 SERIES EXCESS FLOW CONTROL VALVES



HAT TİPİ & T-TİPİ FİLTRELER
H600-H600R SERIES IN-LINE TYPE & T-TYPE FILTERS



HASSAS DEBİ AYAR VANALARI
H1300 & MBV SERIES METERING VALVES



YÜKSEK BASINÇ VE SICAKLI İĞNE VANALARI
H99-H99HP SERIES HIGH PRESSURE AND TEMPERATURE NEEDLE VALVES



İĞNE VANALAR
H300U SERIES NEEDLE VALVES



MANOMETRE V İZOLASYON VANALARI
MANOMETER AND ISOLATION VALVES



ENSTRÜMANTASYON MANİFOLDLARI
INSTRUMENTATION MANIFOLDS

PNÖMATİK AKTÜATÖRLER
PNEUMATIC ACTUATORS

QC-LOK HIZLI KONNEKTÖRLER
QC-LOK QUICK CONNECTORS

37° TÜP FİTTİNGSLERİ
SAE 37° FLARE

ULTRA-VAKUM SİSTEMLERİ
UHLINE SERIES

YALITKAN TÜP FİTTİNGSLERİ
DIELECTRIC FITTINGS

YÜKSEK-SAFLIKTA DİYAFRAM VANALAR
ULTRA-CLEAN DIAPHRAGM VALVES

NUMUNE ALMA SİLİNDİRLERİ
SAMPLE CYLINDER

ESNEK TELLİ METAL-TEFLON HORTUMLAR
FLEXIBL METAL-TEFLON HOSES

ORBİTAL KAYNAKLI VE METAL CONTALI FİTTİNGSLER
HTC HI-TECH COMPONENTS

KORUMA KUTULARI/ KABİNLERİ
PROTECTION BOX / CABINETS

AKSESUARLAR
ACCESSORIES

Pnömatik ve Hidrolik Yüksek Basınçlı Bağlantı Parçalar
Pneumatic and Hydraulic High Pressure Fittings

BACK FERRULE



FRONT FERRULE



TUBE INSERT



NUT



UNION



REDUCING UNION



UNION TEE



UNION ELBOW



REDUCING UNION ELBOW



NPT FEMALE CONNECTOR



BSPT FEMALE CONNECTOR



BSPP FEMALE CONNECTOR



REDUCER



REDUCING PORT CONNECTOR



PORT CONNECTOR



NPT MALE CONNECTOR



BSPT MALE CONNECTOR



BSPP MALE CONNECTOR



BSPP MALE CONNECTOR



SAE/MS MALE CONNECTOR



NPT MALE CONNECTOR



SAE/MS MALE CONNECTOR



MALE PIPE WELD CONNECTOR



TUBE SOCKET WELD UNION



NPT MALE ELBOW



BSPT MALE ELBOW



MALE PIPE WELD ELBOW



TUBE SOCKET WELD ELBOW



REDUCING ELBOW



NPT FEMALE ELBOW



NPT MALE RUN TEE



NPT FEMALE RUN TEE



NPT MALE BRANCH TEE



NPT FEMALE BRANCH TEE



BULKHEAD UNION



NPT BULKHEAD FEMALE CONNECTOR



BULKHEAD REDUCER



NPT BULKHEAD MALE CONNECTOR



BULKHEAD REDUCING UNION



UNION CROSS



CAP

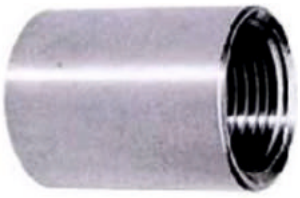
PLUG

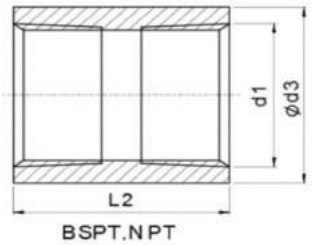
NPT FEMALE ADAPTER TUBE TO PIPE

NPT MALE ADAPTER TUBE TO PIPE

BSPT MALE ADAPTER TUBE TO PIPE

Dişli Manşon Galvaniz&Sihay
Threaded Coulpings Galvanized&Black
Standartlar / Standarts: TS EN 10242
Diş / Thread: NPT, BSP
Çalışma Basınç /Working Pressure (16-20)
Çalışma sıcaklık /Operating temperature (-20 +210°C)

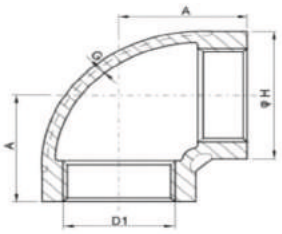




Size / Spec.		1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
BSPT, NPT	d1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
	d3	14	18,5	21,5	26,5	32	39,5	48	54,5	66,5	84	100	129
	L2	20	27	28	36	39	43	48	48	56	65	71	83
	kg	0,013	0,031	0,037	0,072	0,1	0,159	0,232	0,254	0,371	0,918	1,223	2,352

90° Dişli Dirsek Galvaniz&Siyah
90° Threaded Elbows Galvanized&Black
Standartlar / Standarts: TS EN 10242
Diş / Thread: NPT, BSP
Çalışma Basınç /Working Pressure (16-20)
Çalışma sıcaklık /Operating temperature (-20 +210°(

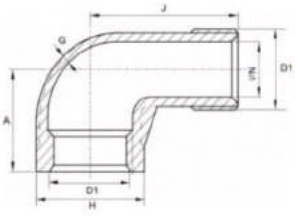




Size / Spec.	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
H	14,8	18,3	21,7	26,4	32,1	39,5	49,2	55,5	68,2	83,5	99	126,3
A	17	19	23	27	32	38	45	48	57	69	78	96
G	1,5	1,5	1,5	1,6	1,7	1,8	2	2	2,2	2,7	3	3,4
kg	0,018	0,026	0,04	0,064	0,098	0,158	0,24	0,302	0,498	0,81	1,17	2,6

90° Dişli Kuyruklu Dirsek Galvaniz&Siyah
90° Threaded Steet Elbows Galvanized&Black
Standartlar / Standarts: TS EN 10242
Diş / Thread: NPT, BSP
Çalışma Basınç /Working Pressure (16-20)
Çalışma sıcaklık /Operating temperature (-20 +210°C

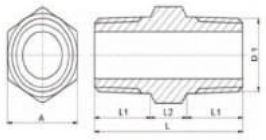




Size / Spec.	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
H	14,8	18,3	21,7	26,6	32,1	39,5	49,2	55,5	68,2	83,5	99	126,3
N	5,5	8	11,5	15	20,5	26	34,5	40	51	60	77,5	101,5
A	17	19	23	27	32	38	45	48	57	69	78	97
J	26	27	29	35	40	46	54	57	70	83	94	115
G	1,5	1,5	1,5	1,6	1,7	1,8	2	2	2,2	2,7	3	3,4
kg	0,018	0,028	0,038	0,064	0,098	0,16	0,216	0,336	0,548	0,88	1,283	2,24

Altıköşe Çift Taraflı Hex Nipel Galvaniz&Siyah
Hex Barrel Nipple Galvanized&Black
Standartlar / Standarts: TS EN 10242
Diş / Thread: NPT, BSP
Çalışma Basınç /Working Pressure (16-20)
Çalışma sıcaklık /Operating temperature (-20 +210°C)

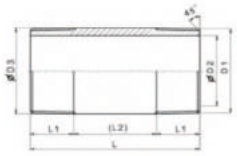




Size / Spec.	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A	12	15	19	23	29	36	45	51	63	80	95	120
D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
L1	8	10,5	11	14,5	15,5	18	20,5	20,5	25	27,5	30	36
L2	4	4	5	5	5,5	6	6,5	6,5	7	7	7,5	8
L	20	25	27	34	36,5	42	47,5	47,5	57	62	67,5	80
kg	0,008	0,14	0,022	0,038	0,052	0,084	0,267	0,172	0,272	0,46	0,45	1,01

Çift Taraflı Boru Nipel Galvaniz&Siyah
Double-Sıded Barrel Nipple Galvanized&Black
Standartlar / Standarts: TS EN 10242
Diş / Thread: NPT, BSP
Çalışma Basınç /Working Pressure (16-20)
Çalışma sıcaklık /Operating temperature (-20 +210°C)

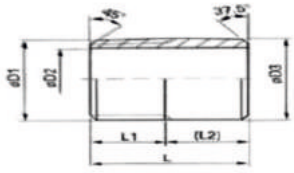




Size / Spec.	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
D2	6	9	12	16	21	27	35	41	53	66	79	103
D3	10	13,5	17	21	27	33,5	42	48	60,5	76	89	114
L1	10,5	12	12	17	17	19	22	22	26	26	30	35
L2	19	16	16	26	26	22	36	36	48	48	60	50
L	40	40	40	60	60	60	80	80	100	100	120	120
kg	0,013	0,019	0,025	0,058	0,078	0,118	0,213	0,243	0,394	0,799	1,1	1,403
TK	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S

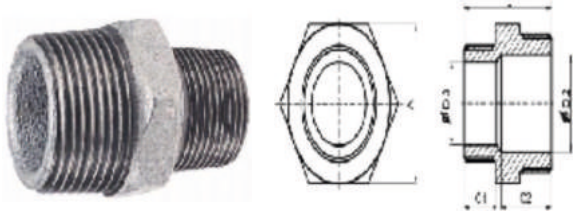
Tek Taraflı Boru Nipel Galvaniz&Siyah
One sided Barrel Nipple Galvanized&Black
Standartlar / Standarts: TS EN 10242
Diş / Thread: NPT, BSP
Çalışma Basınç /Working Pressure (16-20)
Çalışma sıcaklık /Operating temperature (-20 +210°C)





Size / Spec.	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
D2	6	9	12	16	21	27	35	41	53	66	79	103
D3	10	13,5	17	21	27	33,5	42	48	60,5	76	89	114
L1	10	12	12	17	17	19	22	22	26	26	30	35
L2	20	18	18	18	21	21	28	28	25	35	40	45
L	30	30	30	35	40	40	50	50	50	60	70	80
kg	0,011	0,015	0,01	0,036	0,055	0,084	0,135	0,161	0,203	0,453	0,622	1,022
TK	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S	SCH40S

Dişli Redüksiyon Nipel Galvaniz&Siyah
Threaded Reducing Nipple Galvanized&Black
Standartlar / Standarts: TS EN 10242
Diş / Thread: NPT, BSP
Çalışma Basınç / Working Pressure (16-20)
Çalışma Sıcaklık / Operating temperature (-20 +210°C)



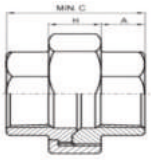
SIZE SPEC	1/4"x1/8"	3/8"x1/8	3/8"x1/4"	1/2"x1/8"	1/2"x1/4"	1/2"x3/8"	3/4"x3/8"	3/4"x1/2"	1"x3/8"	1"x1/2"
A	15,00	19,00	19,00	23,00	23,00	23,00	29,00	29,00	36,00	36,00
C1	9,50	7,50	7,50	11,00	11,00	11,00	14,00	14,00	16,50	16,50
C2	11,50	13,50	13,50	9,50	9,50	9,50	13,00	13,00	15,50	15,50
D2	9,00	12,00	12,00	15,50	15,50	15,50	21,00	21,00	27,00	27,00
D3	6,00	6,00	6,00	6,00	6,00	6,00	6,00	6,00	9,00	9,00
L	22,50	24,00	24,00	27,50	27,50	27,50	29,00	29,00	34,50	34,50
Kg	0,010	0,020	0,020	0,040	0,040	0,040	0,060	0,060	0,100	0,100

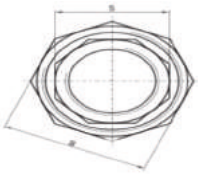
SIZE SPEC	1"x3/4"	1 1/4"x1/2"	1 1/4"x3/4"	1 1/4"x1"	1 1/2"x3/4"	1 1/2"x1"	1 1/2"x1 1/4	2"x1/2"	2"x3/4"	2"x1"
A	36,00	45,00	45,00	45,00	51,00	51,00	51,00	63,00	63,00	63,00
C1	16,50	18,50	18,50	18,50	19,50	19,50	19,50	17,50	17,50	17,50
C2	15,50	16,00	16,00	16,00	15,50	15,50	15,50	22,50	22,50	22,50
D2	27,00	35,00	35,00	35,00	40,50	40,50	40,50	52,00	52,00	52,00
D3	9,00	0,90	0,90	0,90	9,00	9,00	9,00	12,00	12,00	12,00
L	34,50	39,50	39,50	39,50	37,50	37,50	37,50	42,00	42,00	42,00
Kg	0,100	0,100	0,100	0,100	0,190	0,190	0,190	0,290	0,290	0,290

SIZE SPEC	2"x1"	2"x1 1/2"	2 1/2"x1 1/2"	2 1/2"x2"	3"x1 1/2"	3"x2"	3"x2 1/2"	4"x2"	4"x2 1/2"	4"x3"
A	63,00	63,00	80,00	80,00	95,00	95,00	95,00	120,00	120,00	120,00
C1	17,50	17,50	26,50	26,50	29,50	29,50	29,50	26,00	26,00	26,00
C2	22,50	22,50	20,00	20,00	30,00	30,00	30,00	35,50	35,50	35,50
D2	52,00	52,00	66,00	66,00	81,00	81,00	81,00	103,00	103,00	103,00
D3	12,00	12,00	21,00	21,00	52,00	52,00	52,00	40,50	40,50	40,50
L	42,00	42,00	49,50	49,50	62,50	62,50	62,50	64,50	64,50	64,50
Kg	0,290	0,290	0,440	0,440	0,540	0,540	0,540	1,070	1,070	1,070

Dişli Contasız Konik Rekor F/F Galvaniz&Siyah
Threaded No Sealing Conical Unions F/F Galvanized&Black
Standartlar / Standarts: TS EN 10242
Diş / Thread: NPT, BSP
Çalışma Basınç /Working Pressure (16-20)
Çalışma sıcaklık /Operating temperature (-20 +210°C)



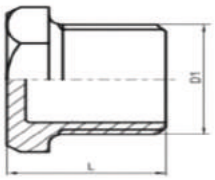




Size / Spec.	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
C	36,3	36,3	37,2	39,1	45,4	49	51,1	54,2	58,8	71,2	87,6	98,6
A	10,5	10,5	11	11,6	14,9	15,5	14,5	15	16,4	22,7	29	32
H	15	15	15	15	15,5	18	21,3	22,2	25,2	25	29,2	34,3
S	13,3	16,8	20,2	24,5	29,7	36,5	46,2	52,3	64,6	79,2	94,9	120,3
B	24,1	27,6	34	39,5	46,7	54	63,9	73,5	86,9	90,9	121,9	151,3
kg	0,06	0,076	0,11	0,138	0,19	0,272	0,414	0,54	0,8	1,12	1,93	3,05

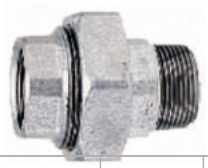
Dötrt köşe Dişli Kör Tapa Galvaniz&Siyah
Hex Head Threaded Plugs Galvanized&Black
Standartlar / Standarts: TS EN 10242
Diş / Thread: NPT, BSP
Çalışma Basınç /Working Pressure (16-20)
Çalışma sıcaklık /Operating temperature (-20 +210°C)

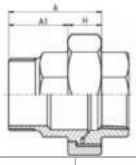


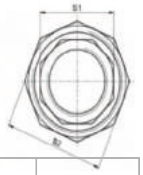


Size / Spec.	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A	14	17	21	26	32	38	46	52	65	80	95	120
D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
L	-	-	14,5	17,9	19,3	22,1	25	25	29,8	31,5	35	41,5
kg	0,022	0,022	0,022	0,034	0,052	0,082	0,138	0,15	0,242	0,37	0,57	0,87

Dişli Contasız Kuyruklu Konik Rekor M/F Galvaniz&Siyah
Threaded No Sealing Tailed Conical wiyh Unions M/F Galvanized&Black
Standartlar / Standarts: TS EN 10242
Diş / Thread: NPT, BSP
Çalışma Basınç /Working Pressure (16-20)
Çalışma sıcaklık /Operating temperature (-20 +210°C)



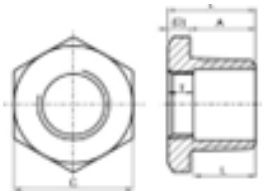




Size / Spec.	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A	42,5	46,5	47,2	52,3	54,7	66,1	67,8	75,2	84,4	96,1	116,1	130,3
A1	17	21	21,2	25,7	27,6	32,6	32	38	42,8	48,4	57,9	64
H	15	15	15	15	15,5	18	21,3	22,2	25,2	25	29,2	34,3
S1	13,3	16,8	20,2	24,5	29,7	36,5	46,2	52,3	64,6	79,2	94,9	120,3
S2	24,1	27,6	34	39,5	46,7	54	63,9	73,5	86,9	90,9	121,9	151,3
kg	0,071	0,082	0,116	0,156	0,21	0,3	0,46	0,64	0,93	1,54	2,45	3,75

Altı köşe Dişli Bushing Redüksiyon Galvaniz&Siyah
Hex Threaded Bushing Galvanized&Black
Standartlar / Standarts: TS EN 10242
Diş / Thread: NPT, BSP
Çalışma Basınç / Working Pressure (16-20)
Çalışma Sıcaklık / Operating temperature (-20 +210°C)





SIZE SPEC	1/4"x1/8"	3/8"x1/8	3/8"x1/4"	1/2"x1/8"	1/2"x1/4"	1/2"x3/8"	3/4"x1/8"	3/4"x1/4"	3/4"x3/8"	3/4"x1/2"
C	16,50	20,80	20,80	23,80	23,80	23,80	28,80	28,80	28,80	28,80
A	11,00	11,00	11,00	14,50	14,50	14,50	19,00	19,00	19,00	22,00
D	5,00	5,00	5,00	5,50	5,50	5,50	6,00	6,00	6,00	6,00
L	16,00	16,00	16,00	20,00	20,00	20,00	25,00	25,00	25,00	25,00
Kg	0,014	0,020	0,020	0,038	0,038	0,038	0,070	0,070	0,070	0,070

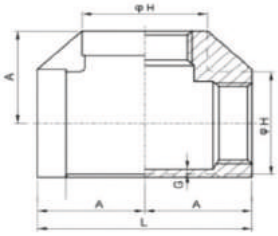
SIZE SPEC	1"x1/8"	1"x1/4	1"x3/8"	1"x1/2"	1"x3/4"	1 1/4"x1/2"	1 1/4"x3/4"	1 1/4"x1"	1 1/2"x1/2"	1 1/2"x3/4"
C	35,80	35,80	35,80	35,80	35,80	43,80	43,80	43,80	50,50	50,50
A	22,00	22,00	22,00	22,00	22,00	23,00	23,00	23,00	23,00	23,00
D	6,00	6,00	6,00	6,00	6,00	7,00	7,00	7,00	8,00	8,00
L	28,00	28,00	28,00	28,00	28,00	30,00	30,00	30,00	31,00	31,00
Kg	0,014	0,014	0,014	0,014	0,014	0,017	0,017	0,017	0,222	0,222

SIZE SPEC	1 1/2"x1"	1 1/2"x1 1/4	2"x1/2"	2"x3/4"	2"x1"	2"x1 1/4"	2"x1 1/2"	2 1/2"x1 1/4"	2 1/2"x1 1/2"	2 1/2"x2"
C	50,50	50,50	61,50	61,50	61,50	61,50	61,50	76,00	76,00	76,00
A	23,00	23,00	23,00	23,00	23,00	23,00	23,00	29,00	29,00	29,00
D	8,00	8,00	9,00	9,00	9,00	9,00	9,00	11,00	11,00	11,00
L	31,00	31,00	31,00	31,00	31,00	31,00	31,00	40,00	40,00	40,00
Kg	0,222	0,222	0,350	0,350	0,350	0,350	0,350	0,520	0,520	0,520

SIZE SPEC	3"x1"	3"x1 1/4"	3"x1 1/2"	3"x2"	3"x2 1/2"	4"x1 1/4"	4"x1 1/2"	4"x2"	4"x2 1/2"	4"x3"
C	92,50	92,50	92,50	92,50	92,50	118,00	118,00	118,00	118,00	118,00
A	29,00	29,00	29,00	29,00	29,00	31,00	31,00	31,00	31,00	31,00
D	13,00	13,00	13,00	13,00	13,00	14,00	14,00	14,00	14,00	14,00
L	46,00	46,00	46,00	46,00	46,00	45,00	45,00	45,00	45,00	45,00
Kg	0,810	0,810	0,810	0,810	0,810	1,500	1,500	1,500	1,500	1,500

Dişli Eşit Tee Galvaniz&Siyah
Threaded Equal TeeE Galvanized&Black
Standartlar / Standarts: TS EN 10242
Diş / Thread: NPT, BSP
Çalışma Basınç / Working Pressure (16-20)
Çalışma Sıcaklık / Operating temperature (-20 +210°C)

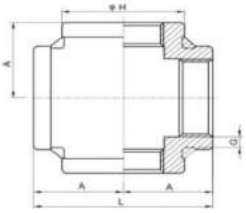




Size / Spec.	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
H	14,8	18,3	21,7	26,6	32,1	39,5	49,2	55,5	68,2	83,5	99	126,3
A	17	19	23	27	32	38	45	48	57	69	78	96
L	34	38	46	54	64	76	90	96	114	138	156	192
G	1,5	1,5	1,5	1,6	1,7	1,8	2	2	2,2	2,7	3	3,4
kg	0,028	0,038	0,058	0,09	0,142	0,238	0,342	0,454	0,67	1,22	1,52	2,52

Dişli Kuruva Eşit Tee Galvaniz&Siyah
Threaded Cross Equal Tee Galvanized&Black
Standartlar / Standarts: TS EN 10242
Diş / Thread: NPT, BSP
Çalışma Basınç / Working Pressure (16-20)
Çalışma Sıcaklık / Operating temperature (-20 +210°C)

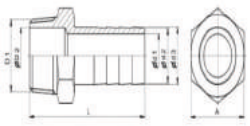




Size / Spec.	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
H	14,8	18,3	21,7	26,6	32,1	39,5	49,2	55,5	68,2	83,5	99	126,3
A	17	19	23	27	32	38	45	48	57	69	78	96
L	34	38	46	54	64	76	90	96	114	138	156	192
G	1,5	1,5	1,5	1,6	1,7	1,8	2	2	2,2	2,7	3	3,4
kg	0,028	0,038	0,058	0,09	0,142	0,238	0,342	0,454	0,67	1,22	1,52	2,52

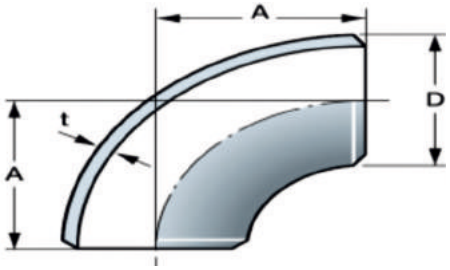
Dişli Hortum Uçlı Nipel Galvaniz&Siyah
Threaded Hex Hose Nipple 1Galvanized&Black
Standartlar / Standarts: TS EN 10242
Diş / Thread: NPT, BSP
Çalışma Basınç / Working Pressure (16-20)
Çalışma Sıcaklık / Operating temperature (-20 +210°C)





Size / Spec.	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A		16	19	25	31	38	46	52	65	80	95	100
D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 14"	1 1/2"	2"	2 1/2"	3"	4"
d1		5	6,5	9,5	14,5	20	27	33	45	58	70	90
d2		8	10	13,5	19,5	25,5	32,5	38,5	50,5	62	75	101
d3		9	11	14,5	20,5	26,5	34	40,5	52,5	64	78	104
L		46,5	51,5	62,5	72,5	82	80	92,5	109,5	136	147	158
kg		0,031	0,048	0,077	0,137	0,211	0,156	0,367	0,606	0,749	1,45	2,495

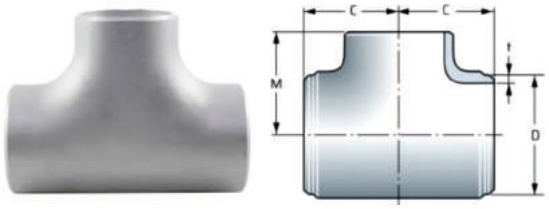




90° DİKİŞLİ DİRSEK UZUN RADYUS = 3D GALVANİZ/SİYAH
90° WELDED ELBOW LONG RADIUS = 3D GALVANIZED&BLACK
Standartlar / Standards DIN 2605-ASTM A234

Boru Çapı İnç. Nominal Pipe Size Inch	Dış çap mm Outside diameter D – mm	Eksen Center-to end A-mm	Kalınlık thickness T1 (mm)	Kalınlık thickness T2 (mm)	Kalınlık thickness T3 (mm)
1/4"	13,50	20	2,00	3,00	4,00
3/8"	17,20	25	2,00	3,00	4,00
1/2"	21,30	28	2,00	3,00	4,00
3/4"	26,90	29	2,00	3,00	4,00
1"	33,70	38	2,00	3,00	4,00
1 1/4"	42,40	48	2,00	3,00	4,00
1 1/2"	48,30	57	2,00	3,00	4,00
2"	60,30	76	2,00	3,00	4,00
2 1/2"	76,10	95	2,00	3,00	4,00
3"	88,90	114	2,00	3,00	4,00
4"	114,30	155	2,00	3,00	4,00
5"	139,70	190	2,00	3,00	4,00
6"	168,30	229	2,00	3,00	4,00
8"	219,10	305	2,00	3,00	4,00
10"	273,00	381	2,00	3,00	4,00
12"	323,90	457	2,00	3,00	4,00
14"	355,60	533	2,00	3,00	4,00
16"	406,40	610	2,00	3,00	4,00
18"	457,40	686	2,00	3,00	4,00
20"	508,40	762	2,00	3,00	4,00
24"	609,60	914	2,00	3,00	4,00
28"	711,20	1067	2,00	3,00	4,00
32"	812,80	1219	2,00	3,00	4,00
36"	914,40	1372	2,00	3,00	4,00
40"	1016,00	1524	2,00	3,00	4,00

Boru Çapı İnç. Nominal Pipe Size Inch	Ağırlık / Weight Kg		
	T-1	T-2	T-3
1/4"	0,020	0,030	
3/8"	0,030	0,042	
1/2"	0,057	0,065	
3/4"	0,054	0,087	
1"	0,093	0,135	
1 1/4"	0,147	0,235	0,697
1 1/2"	0,204	0,320	1,251
2"	0,342	0,551	1,470
2 1/2"	0,557	0,812	2,689
3"	0,768	1,140	3,620
4"	1,322	1,970	5,220
5"	2,070	3,090	11,090
6"	3,090	4,560	16,000
8"	5,200	8,700	23,090
10"	8,160	12,200	32,000
12"	11,600	17,400	39,000
14"		22,300	46,000
16"		29,000	60,000
18"		37,000	86,000
20"		45,000	149,000
24"		65,000	149,000
28"		119,000	294,00
32"		156,000	365,00
36"			
40"			



DİKİŞLİ -DİKŞSİZ EŞİT TEE GALVANİZ&SİYAH
WELDED SEAMLESS EQUAL TEE GALVANIZED&BLACK
Standartlar / Standards DIN 2605-ASTM A234

Boru Çapı.	Dış Çap.	Eksen.	Et Kalınlığı/Wall Thickness (T)				
Nominal Pipe Size	Outside diameter D – mm	Center-to end C-M mm	SCH 5s	SCH 10s	SCH 40s	SCH 80s	SCH 160s
1/4"	13,70	20 /20	1,25	1,65	2,23	3,02	4,11
3/8"	17,15	22 /22	1,32	1,65	2,30	3,23	4,28
1/2"	21,30	25 /25	1,65	2,11	2,77	3,73	4,78
3/4"	26,90	29 /29	1,65	2,11	2,87	3,91	5,56
1"	33,70	38 /38	1,65	2,11	3,38	4,55	6,35
1 1/4"	42,40	48 /48	1,65	2,77	3,56	4,85	6,35
1 1/2"	48,30	57 /57	1,65	2,77	3,68	5,08	7,14
2"	60,30	64 /64	2,11	2,77	3,91	5,54	8,74
2 1/2"	76,10	76 /76	2,11	3,05	5,16	7,01	9,53
3"	88,90	86 /86	2,11	3,05	5,49	7,62	11,13
3 1/2"	101,60	95 /95	2,11	3,05	5,49	7,62	11,13
4"	114,30	105 /105	3,05	3,05	6,02	8,56	13,40
5"	139,70	124 /124	2,77	3,40	6,55	9,53	15,88
6"	168,30	143 /143	2,77	3,40	7,11	10,97	18,26
8"	219,10	188 /178	2,77	3,76	8,18	12,70	23,00
10"	273,00	216 /216		4,19	9,27	12,70	
12"	323,90	254 /254		4,57	9,53	12,70	
14"	355,60	279 /279		4,78	9,54	12,70	
16"	406,40	305 /305		4,78	9,54	12,70	
18"	457,00	343 /343		4,78	9,54	12,70	
20"	508,00	381 /381		4,78	9,54	12,70	
22"	559,00	411 /419		4,78	9,54	12,70	
24"	610,00	432 /432		4,78	9,54	12,70	

Boru Çapı.	Ağırlık/Weight-(Kg)				
Nominal Pipe Size	SCH 5s	SCH 10s	SCH 40s	SCH 80s	SCH 160s
1/4"	0,03	0,05	0,06	0,08	0,12
3/8"	0,04	0,06	0,07	0,10	0,13
1/2"	0,06	0,07	0,08	0,11	0,15
3/4"	0,07	0,09	0,11	0,16	0,30
1"	0,16	0,20	0,24	0,32	0,47
1 1/4"	0,23	0,33	0,41	0,54	0,96
1 1/2"	0,31	0,45	0,60	0,80	1,21
2"	0,47	0,63	0,87	1,20	3,18
2 1/2"	0,78	1,01	1,66	2,19	3,42
3"	0,94	1,38	1,90	3,25	6,58
3 1/2"	1,13	1,68	2,58	4,38	7,41
4"	1,55	2,15	4,13	5,74	15,53
5"	3,09	3,48	6,55	9,31	23,93
6"	3,89	4,77	9,80	12,90	39,00
8"	7,21	8,87	18,00	27,40	71,00
10"		14,20	31,00	42,00	
12"		21,60	44,00	58,40	
14"		27,00	54,00	71,00	
16"		34,00	66,00	88,00	
18"		47,00	84,00	111,00	
20"		61,00	104,00	138,00	
22"		74,00	126,00	167,00	
24"		94,00	140,00	185,00	






DİKİŞLİ-DİKİŞSİZ KONSANTRİK VE EKSANTRİK REDÜKSİYON GALVANİZ/SİYAH
WELDED-SEAMLESS CONCENTRIC AND ECCENTRIC REDUCTION GALVANIZED&BLACK
Standartlar /Standards DIN 2605-ASTM A234

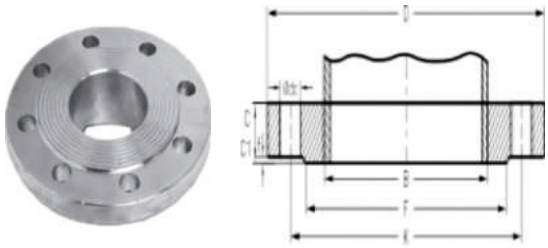
Monimal Çap inç			Dış Çap mm		Uzunluk	Et kalınlık-Wall Thickness (T)		Et kalınlık-Wall Thickness (T)			
			(D1)	(D2)		SCH 10s		SCH 40s		SCH 80s	
Pipe size Inch			Outer diameter		Length (L)	(T1)	(T2)	(T1)	(T2)	(T1)	(T2)
3/4"	x	1/2"	26,90	21,30	38	2,11	2,11	2,87	2,77	3,91	3,73
1"	x	3/4"	33,70	26,90	51	2,77	2,11	3,38	2,87	4,55	3,91
1"	x	1/2"	33,70	21,30	51	2,77	2,11	3,38	2,77	4,55	3,73
1 1/4"	x	1/2"	42,40	21,30	51	2,77	2,11	3,56	2,77	4,85	3,73
1 1/4"	x	3/4"	42,40	26,90	51	2,77	2,11	3,56	2,87	4,85	3,91
1 1/4"	x	1"	42,40	33,70	51	2,77	2,77	3,56	3,38	4,85	4,55
1 1/2"	x	1/2"	48,30	21,30	64	2,77	2,11	3,68	2,77	5,08	3,73
1 1/2"	x	3/4"	48,30	26,90	64	2,77	2,11	3,68	2,87	5,08	3,91
1 1/2"	x	1"	48,30	33,70	64	2,77	2,77	3,68	3,38	5,08	4,55
1 1/2"	x	1 1/4"	48,30	42,40	64	2,77	2,77	3,68	3,56	5,08	4,85
2"	x	1/2"	60,30	21,30	76	2,77	2,11	3,91	2,77	5,55	3,73
2"	x	3/4"	60,30	26,90	76	2,77	2,11	3,91	2,87	5,55	3,91
2"	x	1"	60,30	33,70	76	2,77	2,77	3,91	3,38	5,55	4,55
2"	x	1 1/4"	60,30	42,40	76	2,77	2,77	3,91	3,56	5,55	4,85
2"	x	1 1/2"	60,30	48,30	76	2,77	2,77	3,91	3,68	5,55	5,08
2 1/2"	x	1"	76,10	33,70	89	3,05	3,05	5,16	3,38	7,62	4,55
2 1/2"	x	1 1/4"	76,10	42,40	89	3,05	3,05	5,16	3,56	7,62	4,85
2 1/2"	x	1 1/2"	76,10	48,30	89	3,05	3,05	5,16	3,68	7,62	5,08
2 1/2"	x	2"	76,10	60,30	89	3,05	3,05	5,16	3,91	7,62	5,54
3"	x	2 1/2"	88,90	76,10	89	3,05	3,05	5,49	5,16	7,62	7,01
3"	x	2"	88,90	60,30	89	3,05	3,05	5,49	3,91	7,62	5,54
3"	x	1 1/2"	88,90	48,30	89	3,05	3,05	5,49	3,68	7,62	5,08
3"	x	1 1/4"	88,90	42,40	89	3,05	3,05	5,49	3,56	7,62	4,85
3"	x	1"	88,90	33,70	89	3,05	3,05	5,49	3,38	7,62	4,55
4"	x	3"	114,30	88,90	102	3,05	3,05	6,02	5,49	8,56	7,62
4"	x	2 1/2"	114,30	76,10	102	3,05	3,05	6,02	5,16	8,56	7,01
4"	x	2"	114,30	6*,3	102	3,05	3,05	6,02	3,91	8,56	5,54
4"	x	1 1/2"	114,30	48,30	102	3,05	3,05	6,02	3,68	8,56	5,08
4"	x	1 1/4"	114,30	42,40	102	3,05	3,05	6,02	3,56	8,56	4,85
5"	x	4"	141,30	114,3	127	3,40	3,40	6,55	6,02	9,53	8,56






DİKİŞLİ-DİKİŞSİZ KONSANTRİK VE EKSANTRİK REDÜKSİYON GALVANİZ/SİYAH
WELDED-SEAMLESS CONCENTRIC AND ECCENTRIC REDUCTION GALVANIZED&BLACK
Standartlar /Standards DIN 2605-ASTM A234

Monimal Çap inç			Dış Çap mm		Uzunluk	Et kalınlık-Wall Thickness (T)		Et kalınlık-Wall Thickness (T)			
			(D1)	(D2)		SCH 10s		SCH 40s		SCH 80s	
Pipe size Inch			Outer diameter		Length (L)	(T1)	(T2)	(T1)	(T2)	(T1)	(T2)
5"	x	3"	141,30	88,90	127	3,40	3,40	6,55	5,49	9,53	7,62
5"	x	2 1/2"	141,30	76,10	127	3,40	3,40	6,55	5,16	9,53	7,01
5"	x	2"	141,30	60,30	127	3,40	3,40	6,55	3,91	9,53	5,54
6"	x	5"	168,30	141,30	140	3,40	3,40	7,11	6,55	10,97	9,53
6"	x	4"	168,30	114,30	140	3,40	3,05	7,11	6,02	10,97	8,56
6"	x	3"	168,30	88,90	140	3,40	3,05	7,11	5,49	10,97	7,62
6"	x	2 1/2"	168,30	76,10	140	3,40	3,05	7,11	5,16	10,97	7,01
8"	x	6"	219,10	168,30	152	3,76	3,40	8,18	7,11	12,70	10,97
8"	x	5"	219,10	141,30	152	3,76	3,40	8,18	6,55	12,70	9,53
8"	x	4"	219,10	114,30	152	3,76	3,05	8,18	6,02	12,70	8,56
8"	x	3"	219,10	88,90	152	3,76	3,05	8,18	5,49	12,70	7,62
10"	x	8"	273,00	219,10	178	4,19	3,40	9,27	8,18	12,70	12,70
10"	x	6"	273,00	168,30	178	4,19	3,40	9,27	7,11	12,70	12,70
10"	x	5"	273,00	141,30	178	4,19	3,40	9,27	6,55	12,70	12,70
10"	x	4"	273,00	114,30	178	4,19	3,05	9,27	6,02	12,70	12,70
12"	x	10"	323,90	273,00	203	4,57	4,19	9,53	9,27	12,70	12,70
12"	x	8"	323,90	219,10	203	4,57	3,76	9,53	8,18	12,70	12,70
12"	x	6"	323,90	168,30	203	4,57	3,40	9,53	7,11	12,70	12,70
12"	x	5"	323,90	141,30	203	4,57	3,40	9,53	6,55	12,70	12,70
14"	x	12"	355,60	323,90	330	4,78	4,57	9,53	9,53	12,70	12,70
14"	x	10"	355,60	273,00	330	4,78	4,19	9,53	9,27	12,70	12,70
14"	x	8"	355,60	219,10	330	4,78	3,76	9,53	8,18	12,70	12,70
14"	x	6"	355,60	168,30	330	4,78	3,40	9,53	7,11	12,70	12,70
16"	x	14"	406,00	356,00	356	4,78	4,78	9,53	9,57	12,70	12,70
16"	x	12"	406,00	324,00	356	4,78	4,57	9,53	9,57	12,70	12,70
16"	x	10"	406,00	219,00	356	4,19	4,19	9,27	9,27	12,70	12,70
16"	x	8"	406,40	219,10	356	4,78	3,76	9,53	8,18	12,70	12,70



Pn16 DÜZ FLANŞLAR GALVANİZ/SİYAH
PN16 STRAİGHT FLANGES GALVANIZED&BLACK
Standartlar / Standards EN 1092-1 -DIN 2576
Çalışma Basınç / Working Pressure (10-15 Bar)
Çalışma Sıcaklık / Operating temperature (-20 +150°C)

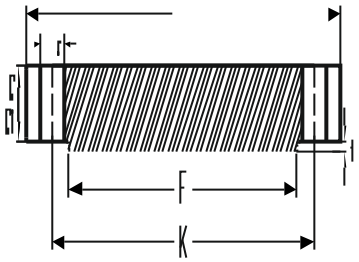
BORU (PIPE)		FLANŞ/ FLANGE							CİVATA/ BOLT			AĞIRLIK (WEIGHT)
Çap Diameter	db DIN	B	D	EN 1092-1 C	DIN 2573 C1	K	f	F	Delik Sayısı (Bolt Holes)	Civata Çapı (Bolt Diameter)	dc	
15	21,30	22	95	14	14	65	2	46	4	M12	14	0,67
20	26,90	27,6	105	16	16	75	2	56	4	M12	14	0,94
25	33.70	34.4	115	16	16	85	2	65	4	M12	14	1,11
32	42.40	43.1	140	18	18	100	2	76	4	M16	18	1,62
40	48.30	49	150	18	18	110	2	84	4	M16	18	1,86
50	60.30	61.1	165	19	18	125	2	99	4	M16	18	2,47
65	76.10	77.1	185	20	10	145	2	118	4	M16	18	3,00
80	88.90	90.3	200	20	18	160	2	132	4	M16	18	3,79
100	114.30	115.9	220	22	20	180	2	156	4	M16	18	4,03
125	139.70	141.6	250	22	20	210	2	184	8	M16	18	5,46
150	168.30	170.5	285	24	22	240	2	211	8	M20	22	6,57
200	219.10	221.8	340	26	24	295	2	266	8	M20	22	10,90
250	273,00	276.2	405	29	26	350	2	319	12	M24	26	15,40
300	323.90	327.6	460	32	28	400	2	370	12	M24	26	21,30
350	355.60	359.7	520	35	30	460	2	429	12	M24	26	31,40
400	406.40	411	580	38	32	515	2	480	16	M27	30	40,00
450	457,00	462.5	640	42	32	565	2	548	16	M30	30	51,00
500	508,00	513.6	715	46	34	620	2	609	20	M30	33	70,00
600	610,00	616	840	52	36	725	2	720	20	M33	36	106,00

Pn10 DÜZ FLANŞLAR GALVANİZ/SİYAH
PN10 STRAİGHT FLANGES GALVANIZED&BLACK
Standartlar /Standards EN 1092-1 -DIN 2573
Çalışma Basınç /Working Pressure (10-15 Bar)
Çalışma sıcaklık /Operating temperature (-20 +150°C)

Boru Ölçüsü Monimal Diamete	db ISO	B	D	C	C1	K	f	C1	Delik Sayısı (Bolt Holes)	Cıvata Çapı (Bolt Diameter)	dc	AĞIRLIK (WEIGHT)
200	219,7	221,8	340	24	24	295	2	266	8	M20	22	9,31
250	273	276,2	395	26	26	350	2	319	12	M20	22	11,90
300	323,9	237,6	445	28	26	400	2	370	12	M20	22	13,80
350	355,6	359,6	505	30	26	460	2	429	16	M20	22	19,00
400	406,4	411	565	32	26	515	2	480	16	M24	26	25,60
450	457	462	615	35	28	565	2	530	20	M24	26	35,60
500	508	513	670	38	28	620	2	582	20	M24	26	41,10
600	610	616	780	42	28	725	2	682	20	M27	30	54,00

PN16 KÖR FLANŞLAR GALVANİZ/SİYAH
PN16 BLİND FLANGES GALVANIZED&BLACK
Standartlar / Standards EN 1092-1 -DIN 2576
Çalışma Basınç / Working Pressure (10-15 Bar)
Çalışma Sıcaklık / Operating temperature (-20 +150°C)





Boru Ölçüsü Monimal Diamete	D	EN 1902 1 C	DIN 2527 C1	F	f	Delik Sayısı (Bolt Holes)	Cıvata Çapı (Bolt Diameter)	dc	K	AĞIRLIK (WEIGHT)
10	90	14	14	41	2	4	M12	14	60	0,63
15	95	14	14	46	2	4	M12	14	65	0,72
20	105	16	16	56	2	4	M12	14	75	1,10
25	115	16	16	65	2	4	M12	14	85	1,23
32	140	18	16	76	2	4	M16	18	100	1,80
40	150	18	16	84	2	4	M16	18	110	2,09
50	165	20	18	99	2	4	M16	18	125	2,88
65	185	20	18	118	2	8	M16	18	145	3,66
80	200	20	20	132	2	8	M16	18	160	4,77
100	220	22	20	156	2	8	M16	18	180	5,65
125	250	22	22	184	2	8	M16	18	210	8,42
150	285	24	22	211	2	8	M20	22	240	10,40
200	340	24	24	266	2	8	M22	22	295	16,50
250	405	26	26	319	2	12	M26	26	355	25,00
300	460	28	28	370	2	12	M26	26	410	35,00
350	520	30	30	429	2	16	M27	26	470	48,00
400	580	32	32	480	2	16	M27	30	525	64,00
450	640	35	34	530	2	20	M30	30	585	75,00
500	715	38	34	582	2	20	M33	33	650	100,00
600	840	42	36	682	2	20	M33	36	770	150,00

Pn10 KÖR FLANŞLAR GALVANİZ/SİYAH
PN10 BLİND FLANGES GALVANIZED&BLACK
Standartlar / Standards EN 1092-1 -DIN 2576
Çalışma Basınç / Working Pressure (10-15 Bar)
Çalışma Sıcaklık / Operating temperature (-20 +150°C)

Boru Ölçüsü Monimal Diamete	D	EN 1902 1 C	DIN 2527 C1	F	f	Delik Sayısı (Bolt Holes)	Cıvata Çapı (Bolt Diameter)	dc	K	AĞIRLIK (WEIGHT)
200	340	24	24	266	2	8	M20	22	295	16,50
250	395	26	26	319	2	12	M20	22	350	24,00
300	445	28	26	370	2	12	M20	22	400	30,90
350	505	30	26	429	2	16	M20	22	460	41,00
400	565	32	26	480	2	16	M24	26	515	50,00
450	615	35	28	530	2	20	M24	26	565	63,00
500	670	38	28	582	2	20	M24	26	620	75,00
600	780	42	28	682	2	20	M27	30	725	125,00



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