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VANASAN

Vana - Fittings ve Dövme Sanayi ve Tic. A.Ş

ÜRÜN KATALOĞU
PRODUCT CATALOGUE



COMPANY PROFILE

VANASAN Vana Fittings ve Dövme Sanayii ve Ticaret A.Ş. has been in the valve and fittings manufacturing and trading business since 1979. We are a leading manufacturer of more than 1200 various types of industrial valves in Turkey and our brand is now recognised in Europe and the Middle East. Our valves are used in refineries, petrochemical facilities, power plants, iron-steel plants and tire factories. In the last 15 years 25% of cast steel valves and 80% of the forged steel valves used in Turkey were manufactured and supplied by Vanasan.

Vanasan has evolved over the years using the latest Technologies available and continues to grow with a professional team of staff in the industrial region of Izmit 74 kms outside of İstanbul.

Our primary product line is cast steel(including stainless steel), forged steel and bronze gate, globe, check, ball, plug and diaphragm valves and fittings in API/ASA/ANSI/DIN standards. Our valve sizes vary between 1/4 inch and 48 inches. We also manufacture some types of valves in DIN norms although in limited numbers.

As a leading valve producing company in Turkey we pay undivided attention to our quality standards. All of our products are produced in accordance with ASA, DIN, CE, API and TSE standards within the frameworks of ISO 9001:2008 and API Q1 Quality Management Systems. Our valves have API 6D, API 600, CE, TSE certificates and our quality system has been certified by ISO 9001:2008 Quality Management System. All of our products are delivered after being tested, inspected, approved and certified with a 2 year warrantee.

Our welders are certified according to EN 287-1 standards and also have acquired EN 287-1 certificates for pipe welding. Our test operators have been certified with Level-1 and Level-2 certificates of non-destructive testing according to SNT TC 1A.

Vanasan produces and sells valves that are manually operated, gear operated or electrically actuated. Our actuated valves are equipped with Auma and Rotork actuators both are recognised around the globe as leading actuator brands. For customers who are interested we also supply pipes and fittings from well established local and foreign pipe manufacturers.

We have an experienced maintenance team that is available to offer their services both in our facility and on location such as power plants and refineries. This team has been working across Turkey with our customers for over 15 years with regard to the repairs, preservation and updating of all types of industrial valves using the latest technological equipment.

VANASAN are committed to understand, meet and when possible exceed our customer's requirements through the continuous improvement of our processes. We are dedicated to delivering defect-free product and best service on time and at reasonable prices.

We will achieve this by;

- Complete understanding of the requirements
- Meeting and exceeding the requirements during production and service through a team approach with employees and suppliers
- Improving employees contributions to VANASAN by training and meetings to achieve consistent and measurable quality targets
- Managing the total quality system according to ISO 9001:2008 an API Spec Q1 requisitions by establishing, implementing and maintaining a documented, effective control system
- Ensuring fair distribution of work between employees in order to increase belonging to VANASAN
- Making investment in technology to improve our knowledge
- Working according to local and international health and safety rules in order to prevent any accidents to employees and visitors.

To go beyond customer expectations using our innovative approach,

To continue an ongoing measurable and consistent growth,

Carry out our activities according to the requirements of ISO 9001-2008 and API Q1 quality management systems by following the legally binding and specified process conditions,

Ensuring a fair share of work among our employees and keeping our employees motivated, inspired and happy to be a part of the Vanasan team,

To work with a sense of purpose as a goal oriented team in unison by sharing our objectives and initiatives,

To invest in the ongoing training of our employees with regard to the evolving demands of the technological improvements in valve manufacturing.

We believe we owe our leadership in the valve industry in Turkey to the consistency of our quality standards along with our 30 plus years of expertise and our intention towards customer satisfaction. Vanasan's constant principles are and have always been; quality product, punctual delivery and continuous develop.

ŞİRKET PROFİLİ

VANASAN Vana Fittings ve Dövme Sanayii ve Ticaret A.Ş., 1979 yılından itibaren vana ve fittings üretimi ve ticareti yapmaktadır. Firmamız Türkiye’de 1200’ün üzerinde farklı tipteki endüstriyel vana üretimi ile lider üreticilerden biri haline gelmiş, markamız Avrupa’da ve Orta Doğu’da tanınmıştır. Vanalarımız başlıca rafinerilerde, petrokimya tesislerinde, enerji santrallerinde, demir-çelik tesislerinde ve lastik fabrikalarında kullanılmaktadır. Son 15 yılda, Türkiye’de kullanılan döküm çelik vanaların % 25’inin, dövme çelik vanaların ise % 80’inin üretim ve satışı Vanasan tarafından yapılmıştır.

Vanasan, mevcut son teknolojileri kullanarak yıllardır kendini geliştirmiş olup, profesyonel kadrosu ile İstanbul’un 74 km dışındaki İzmit tesislerinde gelişimine devam etmektedir.

Başlıca ürün gamımız API/ASA/ANSI/DIN standartlarındaki döküm çelik (paslanmaz çelik dahil), dövme çelik ve bronz gate, globe, check, küre, plug ve diyafram vanalar ve fittingslerdir. Vanalarımızın ölçüleri 1/4 inç ve 48 inç arasında değişmektedir. Aynı zamanda sınırlı sayıda da olsa bazı türdeki DIN normu vanaların da üretimini yapmaktadır.

Türkiye’deki lider bir vana üreticisi olarak tüm dikkatimizi kalite standartlarımıza vermekteyiz. Tüm ürünlerimiz ISO 9001:2008 ve API Q1 Kalite Yönetim Sistemleri çerçevesinde ASA, DIN, CE, API ve TSE standartlarına uygun olarak üretilmektedir. Vanalarımız API 6D, API 600, CE, TSE sertifikalarına, kalite yönetim sistemimiz ise ISO 9001:2008 Kalite Yönetim Sistemi sertifikasına sahiptir. Tüm ürünlerimiz muayene ve testi yapılmış, onaylanmış ve 2 yıl garantili olarak sertifikalandırılmış şekilde sevk edilir.

Kaynak operatörlerimiz EN 287-1 standardına göre sertifikalandırılmıştır ayrıca boru kaynağı alanında da EN 287-1 sertifikasına sahiptir. Test operatörlerimiz tahribatsız muayene alanında SNT TC 1A’ya göre Level-1 ve Level-2 olarak sertifikalandırılmıştır.

Vanasan manuel, dişi kutulu ya da elektrik aktüatör ile çalışan vanaların üretimi ve satışını yapmaktadır. Aktüatörlü vanalarımız dünyaca ünlü lider aktüatör markaları olan Auma ve Rotork aktüatörleri ile donatılmıştır. Müşterilerimizin isteği halinde, yurtiçi ve yurtdışındaki köklü boru üreticilerinden boru ve fittings temini de sağlanmaktadır.

Tesisimizde ya da enerji santralleri ve rafinerilerde olduğu gibi yerinde hizmet verebilen tecrübeli bakım takımımız mevcuttur. Bu takımımız 15 yıldan uzun süredir Türkiye genelinde her türlü vananın tamiri, yenilenmesi ve korunması için son teknoloji ekipmanları ile hizmet vermektedir.

VANASAN A.Ş. tüm çalışanları tarafından benimsenen, kalite hedeflerini belirlemede çıkış noktamız olan kalite politikamız;

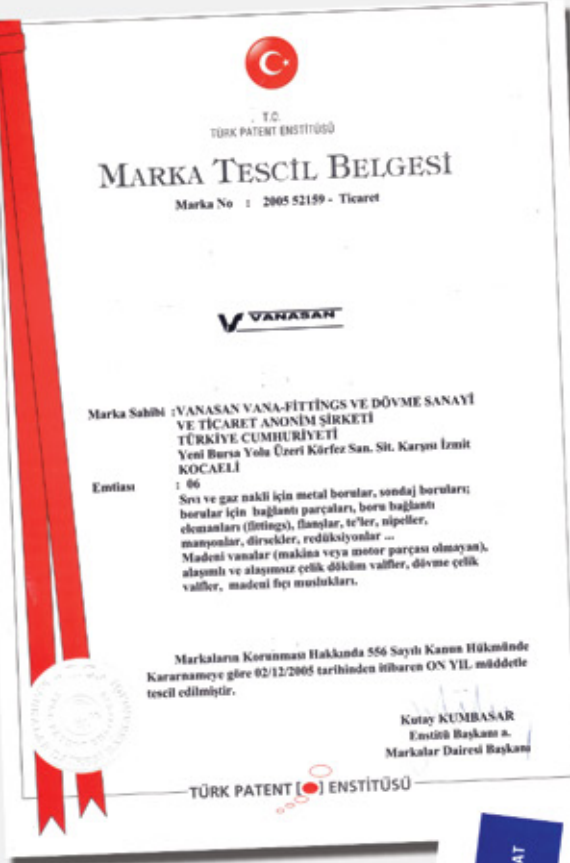
- Müşterilerimizin ihtiyaç ve beklentileri doğrultusunda uygun fiyat ve yüksek standarttaki kaliteli ürünlerimizi zamanında sunmayı
- Gerekli kaynakları temin ederek, üretim ve destek süreçlerinin her aşamasında, süreçlerin performanslarını kuruluş adına çalışan kişilerin katılımı ve sistemin etkinliği ve geliştirilmesi yönünde sürekli iyileştirmeyi
- Yenilikçi yaklaşımlarımızla müşteri beklentilerinin ötesine geçmeyi
- Ölçülebilir ve tutarlı bir gelişim sağlamayı
- Faaliyetlerimizi ISO 9001:2008 ve API Spec Q1 kalite yönetim sistem gerekliliklerine, yasal ve belirlenmiş olduğumuz süreç koşullarına uygun olarak yönetmeyi
- Çalışanlar arasında adil iş paylaşımı sağlamak ve çalışanların işe aidiyet hislerini sıcak tutmayı
- Teknolojik gelişmelere ve eğitimlere yatırım yaparak mevcut bilgi ve birikimimizi sürekli arttırmayı
- İş sağlığı ve güvenliği konularında yerel ve uluslararası mevzuatlara uyumlu çalışmayı, çalışanlarına sağlıklı ve emniyetli bir çalışma ortamını ve iş güvenliği sağlayarak firma adına çalışan kişilerin ve ziyaretçilerinin maruz kalacağı tehlike ve riskleri en aza indirmeyi taahhüt eder.

Türkiye’de vana endüstrisindeki liderliğimizi 30 yılı aşkın süredir kalite standartlarıyla olan tutarlılığımıza, 30 yıldan fazla olan uzmanlığımıza ve müşteri memnuniyetine yönelik hedeflerimize borçlu olduğumuza inanıyoruz. Vanasan’ın değişmez ve daimi presipleri; kaliteli ürün, zamanında teslimat ve sürekli gelişimdir.

BELGELERİMİZ

Our Certificates





VANASAN A.Ş. ÜRETİM, MUAYENE VE TEST STANDARTLARI

VANASAN A.Ş. MANUFACTURING, INSPECTION AND TEST STANDARDS

API 6D, API 600, API 599, API 594, API 608, API 602, API 6FA, API 510, API 598, API 607

DIN 3202, DIN&BS 1873, DIN EN 1092, DIN EN 12516, DIN EN 12627, DIN 2501, DIN2999

BS EN ISO 17292, BS 3293, BS 1868, BS EN 558, BS EN ISO 5817, BS EN 1503

BS EN 13942, EN 10204, EN 10213, EN 12266

ANSI/ASME B16.34, B16.10, B16.5, B16.47, B16.9, B16.11, B1.20.1, B2.1, B31.3, B1.1, B1.5, B1.8, ANSI/NACE MR0175

ISO 14313, ISO 5210, ISO 5752, ISO 6708, ISO 5208, ISO 7005, ISO 5211, ISO 10497

ASTM A105, A216, A217, A 350, A351, A352, A307, A193, A194, A320, A403, B61-08, B62-09, B148-97

MSS SP44, SP55, SP80

HOW CAN I ORDER?

S200	V	2020	M2	C3	B2	8	Trim Number
							Body Material
							Connection Type
							Model Type
							Product Type
							Product Size

Example for 8" 300lb gate valve, flexible wedge, renewable seat rings, but welding ends, body material A 216 Gr. WCB, Trim material; API Trim number 8.

MALZEME SEÇİMİ (MATERIAL SELECTION)

Vana içerisinden geçen akışkanın basıncına, sıcaklığına, korozif özelliğine bağlı olarak malzeme seçimi yapılır. Vana malzemesi, vananın fonksiyonunu ve basınç içerme kapasitesini etkileyecek korozyonu ve kırılmayı önleyecek şekilde seçilmelidir. Başlıca kullanılan malzemelerin özellikleri şu şekildedir.

The material choice is made in according to the pressure, temperature and corrosivity of the fluid passes through the valve. Valve materials shall be selected so as to avoid corrosion and galling, which would impair function and/or pressure containing capability. Specifications of main materials used are as follows.

ASTM A 216 Gr. WCB (Malzeme Grubu 1.1) (Material Group 1.1)

Vananın basınca maruz kalan gövde kısmının yapımında kullanılmaya elverişli bir çelik malzemedir. Çekme mukavemetinin yüksek oluşu ve aynı zamanda kırılmaya karşı dayanıklılığı bu çeliğe, sistemde meydana gelebilecek vuruntulara karşı yüksek bir dayanıklılık sağlar. Kaynak edilebilme özelliği çok yüksektir. Doymuş ve kızgın buhar devrelerinde, sıcak ve soğuk su devrelerinde, korozif olmayan yağ, gaz, hava ve diğer akışkan devrelerinde kullanılmaya çok elverişlidir. Düzenli ve genel kullanım amaçlı bütün valflerde kullanılan karbon çeliğidir. 425°C sıcaklığın üzerindeki sıcaklık şartlarında tavsiye edilmez. *This group of steel materials are suitable for the pressurized shell of the valve. High tensile strength, resistance to impacts and breaking makes it a suitable choice for general usage. It has also high weldability. It is very useful for saturated or super heated steam, hot and cold water and for non-corrosive oil, gas, air etc. lines. Mainly used in producing multi-purpose valves. They are not recommended for prolonged usage in temperatures above 425°C.*

ASTM A 217 Gr. WC6 (Malzeme Grubu 1.9) (Material Group 1.9)

Krom molibden alaşımlı çeliktir. Çalışma sıcaklığı 1100°F(595°C)'a kadar olan devrelerde kullanılması önerilir. Yüksek sıcaklıklarda grafitleşme ve normal elastik sınırının altında şekil değiştirmeye başlaması (creep) olaylarına karşı dayanıklılığı çok yüksektir. Kaynak edilebilme özelliği yüksektir.

An alloy steel with chrome-molybdenum that is recommended to be used up to 595°C. Its resistance to graphitization and creep is very high. It has high weldability.

ASTM A 217 Gr WC9 (Malzeme Grubu 1.10) (Material Group 1.10)

Krom molibden alaşımlı çeliktir. Çalışma sıcaklığı 1050°F(570°C)'a kadar olan devrelerde kullanılması önerilir. Bu sıcaklığın üstündeki çalışma şartlarında oksitlenme olabileceği göz önünde bulundurulmalıdır.

It is chrome-molybdenum alloy steel. They are recommended to be used up to 1050°F(570°C). Above this temperature oxidation should be taken in to consideration.

ASTM A 217 Gr WC1 (Malzeme Grubu 1.5) (Material Group 1.5)

Molibden çeliği olarak bilinir. 850°F(455°C)'a kadar olan sıcaklıklara kadar tavsiye edilir. Düşük karbonlu ve kaynağa elverişli bir yüksek sıcaklık çeliğidir.

Molybdenum alloy steel with low carbon content makes it a weldable high temperature steel. They can be used up to 455°C.

ASTM A 217 Gr C5 (Malzeme Grubu 1.13) (Material Group 1.13)

Yüksek sıcaklık derecelerinde çalışan buhar, su, yağ veya gaz devrelerinde kullanılması önerilir. Çalışma sıcaklığı 1100°F(595°C)'a kadar olan devrelerde creep, korozyon, erozyon ve grafitleşme olaylarına karşı dayanıklılığı en yüksek çeliktir. Kükürtlü yağ devrelerinde korozyona karşı yüksek bir dayanıklılığa sahip olduğundan rafineri hizmetlerinde kullanımı önerilir. Kaynak birleştirmesi zor olan malzemedir.

They are recommended to be used at high temperatures for steam water, oil or gas lines. They have the highest resistance to creep, corrosion, erosion and graphitization up to 1100°F(595°C). High corrosion resistance to sulphur in oil lines makes them suitable for refinery use.

ASTM A 351 Gr CF8 (Malzeme Grubu 2.1) *(Material Group 2.1)*

18.8 krom nikel çeliğidir. Kullanım alanı çok geniş ve 304 kalite paslanmaz çelik olarak da bilinen östenitik paslanmaz çeliktir. Yüksek korozyon ortamlarında ve 540°C sıcaklığa kadar kullanılabilir.

They are austenitic stainless steel that can be used highly corrosive media up to 540°C. They have a wide range of application and correspond to AISI 304.

ASTM A 351 Gr CF8M (Malzeme Grubu 2.2) *(Material Group 2.2)*

Bu östenitik paslanmaz çeliğin bileşimine molibden katmakla korozyona karşı dayanıklılığı artırılmıştır. 18Cr9Ni2Mo çeliği ya da 316 kalite paslanmaz çelik olarak bilinir. 2.1 malzeme grubunun uygun olmadığı korozif ortamlarda kullanılır. 540°C'den yüksek sıcaklıklarda tavsiye edilmez.

This group of stainless steel also known as 316 grade contain Mb which make them more resistant than 2.1 group to severe corrosive conditions. They are not recommended for use above 540°C.

ASTM A 351 Gr. CF8C (Malzeme Grubu 2.5) *(Material Group 2.5)*

CF8 malzemeye niyobyum ilavesi ile elde edilmiş, 347 paslanmaz çeliğin döküm eşdeğeri olan malzemedir. CF8 ile aynı korozyon dayanımına sahiptir. Kaynak gerektiren ya da yüksek sıcaklıktaki kullanım için uygundur. *It is obtained by adding niobium to the CF8 material. This group of material is the equivalent casting material with 347 stainless steel. It has the same corrosion resistance with CF8. It is suitable for applications require high temperature or welding.*

ASTM A 351 Gr. CF3 (Malzeme Grubu 2.3) *(Material Group 2.3)*

AISI 304L paslanmaz çeliğin döküm eşdeğeri malzemedir. Korozyon dayanımı CF8 malzemeye göre daha yüksektir. 425°C sıcaklığa kadar kullanıma uygundur. Nitrik asit, organik asitler, fosfat ve sülfatlara karşı iyi korozyon dayanımına sahiptir.

This group of material is the equivalent casting material with AISI 304L stainless steel. It has more corrosion resistance than CF8. It is suitable for use up to 425°C. It has good corrosion resistance against to nitric acid, organic acids, phosphates and sulphates.

ASTM A351 Gr. CF3M (Malzeme Grubu 2.3) *(Material Group 2.3)*

Fe-Cr-Ni-Mo alaşımı, 316L paslanmaz çeliğin döküm eşdeğeri olan malzemedir. Organik asitlere, tuzlara, sülfirik ve fosforik asite, klorit çözeltilerine, sodyum hidroksite karşı korozyon dayanımı yüksektir. 425°C sıcaklığa kadar kullanıma uygundur.

Fe-Cr-Ni-Mo alloy, it is the equivalent casting material with 316L stainless steel. It has high corrosion resistance against to organic acids, salts, sulphuric and phosphoric acid, chloride solutions, sodium hydroxide. It is suitable for use up to 425°C.

ASTM A351 Gr CN7M (Malzeme Grubu 3.17) *(Material Group 3.17)*

Sülfirik asit içeren uygulamalar için geliştirilmiş Cr-Ni-Mo paslanmaz çelik alaşımıdır. Östenitik bir yapıya sahiptir ve korozyon direnci yüksektir. 425°C sıcaklığa kadar kullanıma uygundur.

It is CR-Ni-Mo stainless steel alloy material developed for applications include sulphuric acid. It has austenitic structure and high corrosion resistance. It is suitable for use up to 425°C.

ASTM A 352 Gr. LCA- LCB-LCC

LC grubu malzemeler düşük sıcaklıklarda kullanım için uygundur. Grubun son harfi (A,B,C) malzemeyi düşük dereceden yüksek dereceye sınıflandırır. LCC malzeme en fazla kopma/akma mukavemetine sahip olan malzemedir. Bu malzemelerin çalışma sıcaklığı -50°F(-45°C)- 800°F(425°C) arasındadır.

LC group materials are suitable for application at low temperatures. The last letter of group(A,B,C) classifies the material grade. LCC material has the highest tensile/yield strength. Operating temperature of this group of material is between -50°F(-45°C) and 800°F(425°C).

Vana Seçimi / Valve Selection

Vananın kullanıldığı hatta en iyi performansı en az masraf ile verebilmesi için uygun bir vana seçimi yapılmalıdır. Bir vana seçilirken başlıca göz önünde bulundurulması gereken faktörler şunlardır;
1.İçerisinden geçecek akışkanın cinsi (sıvı veya gaz olması, korozyon, erozyon vb. özellikler)
2.Akışkanın basıncı ve sıcaklığı (Vana malzemesi seçiminde büyük önem taşır)
3.Akış kontrol koşulları (akışı kesme ya da akışı boğma amaçlı kullanım durumu)
4.Vananın kullanım sıklığı

The appropriate valve type should be selected to provide the best performance at the pipeline with the least expense. While selecting a valve type, these conditions should be taken in consideration;

- 1.Type of fluid passes through the valve (being liquid or gas, corrosion, erosion etc.)*
- 2.Temperature and pressure of the fluid (it is essential for selection of the valve material)*
- 3.Flow control conditions (cutting or regulating the flow)*
- 4.Frequency of operation of the valve*

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ASA 300 Cast Steel Gate Valves
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ASA 600 Cast Steel Gate Valves
- 25** ASA 900-1500 DÖKÜM ÇELİK GATE VALFLER
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PN 10-16-25-40-100 DÖVME ÇELİK GLOBE VALFLER <i>PN 10-16-25-40-100 Forged Steel Globe Valves</i>	87
ASA 800 DÖVME ÇELİK SWING CHECK VALFLER <i>ASA 800 Forged Steel Swing Check Valves</i>	89
ASA 150-300-600 DÖVME ÇELİK SWING CHECK VALFLER <i>ASA 150-300-600 Forged Steel Swing Check Valves</i>	90
PN 10-16-25-40-100 DÖVME ÇELİK SWING CHECK VALFLER <i>PN 10-16-25-40-100 Forged Steel Swing Check Valves</i>	91
ASA 800 DÖVME ÇELİK PİSTON CHECK VALFLER <i>ASA 800 Forged Steel Piston Check Valves</i>	93
ASA 150-300-600 DÖVME ÇELİK PİSTON CHECK VALFLER <i>ASA 150-300-600 Forged Steel Piston Check Valves</i>	94
PN 25-40-100 DÖVME ÇELİK PİSTON CHECK VALFLER <i>PN 25-40-100 Forged Steel Piston Check Valves</i>	95
ASA 800 DÖVME ÇELİK KÜRE CHECK VALFLER <i>ASA 800 Forged Steel Ball Check Valves</i>	97
ASA 150-300-600 DÖVME ÇELİK BALL CHECK VALFLER <i>ASA 150-300-600 Forged Steel Ball Check Valves</i>	98
PN 25-40-100 DÖVME ÇELİK BALL CHECK VALFLER <i>PN 25-40-100 Forged Steel Ball Check Valves</i>	99
ASA 800 DÖVME ÇELİK KÜRE VALFLER <i>ASA 800 Forged Steel Ball Valves</i>	101
ASA 150-300 DÖVME ÇELİK KÜRE VALFLER <i>ASA 150-300 Forged Steel Ball Valves</i>	102
PN 10-16-25-40 DÖVME ÇELİK KÜRE VALFLER <i>PN 10-16-25-40 Forged Steel Ball Valves</i>	103
ASA 800 DÖVME ÇELİK Y TİPİ PİSLİK TUTUCULAR <i>ASA 800 Forged Steel Y Type Strainers</i>	105



Çelik Döküm ve Dövme Vanaların Ürün Kodları		
Product	Class	Order Code
Cast Steel Valves		
Gate Valve	150	V 2010
Gate Valve	300	V 2020
Gate Valve	600	V 2030
Gate Valve	900	V 2040
Gate Valve	1500	V 2050
Cast Bronze Gate Valve	300	V 2300
DBB Gate Valve	150	V 2200
Trunnion Ball Valve	150	V 5010
Trunnion Ball Valve	300	V 5020
Trunnion Ball Valve	600	V 5030
Trunnion Ball Valve	900	V 5040
Floating Ball Valve	150	V 5110
Floating Ball Valve	300	V 5120
Floating Ball Valve	600	V 5130
Swing Check Valve	150	V 4010
Swing Check Valve	300	V 4020
Swing Check Valve	600	V 4030
Swing Check Valve	900	V 4040
Swing Check Valve	1500	V 4050
Lift-Check Valve	150	V 4110
Lift-Check Valve	300	V 4120
Lift-Check Valve	600	V 4130
Silent Check Valve	300	V 4310
Wafer Check Valve	150	V 4210
Globe Valve	150	V 3010
Globe Valve	300	V 3020
Globe Valve	600	V 3030
Globe Valve	900	V 3040
Globe Valve	1500	V 3050



Çelik Döküm ve Dövme Vanaların Ürün Kodları		
Product	Class	Order Code
Cast Bronze Globe Valve	300	V 3200
Lubricated Plug Valve	150	V 6010
Lubricated Plug Valve	300	V 6020
Lubricated Plug Valve	600	V 6030
DBB Non-Lubricated Plug Valve	150	V 6040
Basket Type Strainer	150	ST 8010
Basket Type Strainer	300	ST 8020
Y Type Strainer	150	ST 8110
Y Type Strainer	300	ST 8120
Y Type Strainer	600	ST 8130
Diaphragm Valve	150	V 7010
Diaphragm Valve	PN 10-16	V 7020
Forged Steel Valves		
Gate Valve	150	V 2100
Gate Valve	300	V 2101
Gate Valve	600	V 2102
Gate Valve	800	V 2103
Gate Valve	1500	V 2104
Gate Valve	2500	V 2105
Gate Valve	PN 10-16	V 2106
Gate Valve	PN 25-40	V 2107
Gate Valve	PN 100	V 2108
Globe Valve	150	V 3100
Globe Valve	300	V 3101
Globe Valve	600	V 3102
Globe Valve	800	V 3103
Globe Valve	1500	V 3104
Globe Valve	2500	V 3105
Globe Valve	PN 10-16	V 3106
Globe Valve	PN 25-40	V 3107
Globe Valve	PN 100	V 3108



Çelik Döküm ve Dövme Vanaların Ürün Kodları

Product	Class	Order Code
Cast Steel Valves		
Swing Type Check Valve	150	V 4100
Swing Type Check Valve	300	V 4101
Swing Type Check Valve	600	V 4102
Swing Type Check Valve	800	V 4103
Swing Type Check Valve	PN 10-16	V 4104
Swing Type Check Valve	PN 25-40	V 4105
Swing Type Check Valve	PN 100	V 4106
Piston Type Check Valve	150	V 4200
Piston Type Check Valve	300	V 4201
Piston Type Check Valve	600	V 4202
Piston Type Check Valve	800	V 4203
Piston Type Check Valve	PN 25-40	V 4204
Piston Type Check Valve	PN 100	V 4205
Ball Type Check Valve	150	V 4300
Ball Type Check Valve	300	V 4301
Ball Type Check Valve	600	V 4302
Ball Type Check Valve	800	V 4303
Ball Type Check Valve	PN 25-40	V 4304
Ball Type Check Valve	PN 100	V 4305
Ball Valve	150	V 5100
Ball Valve	300	V 5101
Ball Valve	600	V 5102
Ball Valve	800	V 5103
Ball Valve	1500	V 5104
Ball Valve	PN 10-16	V 5105
Ball Valve	PN 25-40	V 5106
Ball Valve	PN 100	V 5107
Strainer Y Type	800	V 5400

Threaded Fittings

Elbows, Tees, Coupling, Cap, Hex. Head Plug, Head Bushing, Male - Female Reducer, Hex. Nipple, Red. Coupling, Welding Boss, Female - female Union

Socket Welding Fittings

Elbows, Tees, Couplings, Caps, Red. Coupling, Weld. Boss etc.
Flanges (WN, SO, Flat Flange)



Steel Casting Valves HOW TO ORDER?		
MODEL CODES		
Cast Steel Valve	Type	Code
Gate Valve	Solid Wedge, Renewable seat	M 1
Gate Valve	Flex Wedge, Renewable seat	M 2
Globe Valve	Tapered type disc, Renewable seat	M 3
Swing Type Check Valve	Swing Type, Renewable seat	M 4
Lift Type Check Valve	Lift Type, Renewable seat	M 5
Silent Type Check Valve	Silent Type, Renewable seat	M 6
Wafer Type Check Valve	Wafer Type, Metalseat	M 7
Wafer Type Check Valve	Wafer Type, Metalseat	M 8
Trunnion Ball Valve	Full port, Renewable seat	M 9
Floating Ball Valve	Full port, Renewable seat	M 10
Y Type Strainer	Y type, bolted bonnet	M 11
Basket Type Strainer	Basket type, bolted bonnet	M 12
Plug Valve	Lubricated type plug	M 13
DBB Plug Valve	Soft sealing plug, non lubricated	M 14
Diaphragm Valve	Weir type, lining body	M 15
DBB Gate Valve	Slab gate, Renewable seat	M 16
Cast Bronze Gate Valve	Union Bonnet and Screw Bonnet	M 17
Cast Bronze Globe Valve	Union Bonnet	M 18
Forged Steel Valve		
Gate Valve	Solid Wedge Disc, Renewable seat , Stdport	M 19
Gate Valve	Solid Wedge Disc, Renewable seat , Fullport	M 20
Globe Valve	Integral or Renewable seat, Full port	M 21
Globe Valve	Integral or Renewable seat, Std port	M 22
Check Valve	Swing, Piston or Ball Type, Stdport	M 23
Check Valve	Swing, Piston or Ball Type, Fullport	M 24
Ball Valve	Reducedport	M 25
Ball Valve	Fullport	M 26



SIZE CODES	
Size	Code
¼" (DN8)	S 8
½" (DN15)	S 15
¾" (DN20)	S 20
1" (DN25)	S 25
1 ¼" (DN32)	S 32
1 ½" (DN40)	S 40
2" (DN 50)	S 50
2 ½" (DN 65)	S 65
3" (DN 80)	S 80
4" (DN 100)	S 100
6" (DN150)	S 150
8" (DN 200)	S 200
10" (DN 250)	S 250
12" (DN 300)	S 300
14" (DN 350)	S 350
16" (DN 400)	S 400
18" (DN 450)	S 450
20" (DN 500)	S 500
24" (DN 600)	S 600
26" (DN 650)	S 650
28" (DN 700)	S 700
30" (DN 750)	S 750
32" (DN 800)	S 800
36" (DN 900)	S 900
40" (DN 1000)	S 1000
42" (DN 1050)	S 1050
44" (DN 1100)	S 1100
48" (DN 1200)	S 1200

CONNECTION CODES	
Connection Type	Code
Flanged/Flanşlı (RF)	C1
Flanged ring joint/Flanşlı ring birleştirme(RJ)	C2
Kaynak uçlu/Butt welding(BW)	C3
Soket uçlu/Socket welding(SW)	C4
Dişli/screwed (NPT)	C5
Dişli boru vidası/screwed(R)	C6

BODY MATERIAL CODES		
Cast Steel Valves		
Body Material	ASTM Spec	Code
Carbon Steel	ASTM A216 Gr. WCA	B1
Carbon Steel	ASTM A216 Gr. WCB	B2
Carbon Steel	ASTM A216 Gr. WCC	B3
C 0,5Mo Steel	ASTM A217 Gr. WC1	B4
1,25%Cr 0,5Mo Steel	ASTM A217 Gr. WC6	B5
2,25%Cr 1Mo Steel	ASTM A217 Gr. WC9	B6
5%Cr 0,5%Mo Steel	ASTM A217 Gr. C5	B7
18%Cr 8%Ni Steel	ASTM A351 Gr. CF3	B8
16%Cr 12%Ni 2%Mo Steel	ASTM A351 Gr. CF3M	B9
18%Cr 8%Ni Steel(AISI 304)	ASTM A351 Gr. CF8	B10
18%Cr 8%Ni Cb Steel	ASTM A351 Gr. CF8C	B11
16%Cr 13Ni 3Mo Steel (AISI 316)	ASTM A351 Gr. CF8M	B12
20%Cr 29%Ni-Mo-Cu Steel(Alloy 20)	ASTM A351 Gr. CN7M	B13
Carbon Steel	ASTM A352 Gr. LCA	B14
Carbon Steel	ASTM A352 Gr. LCB	B15
Carbon Steel	ASTM A352 Gr. LCC	B16
C 0,5Mo Steel	ASTM A352 Gr. LC1	B17
2 ½ Ni Steel	ASTM A352 Gr. LC2	B18
3 ½ Ni Steel	ASTM A352 Gr. LC3	B19
Cast Iron (Pik döküm)	ASTM A126 Gr. B	B20



BODY MATERIAL CODES

Forged Steel Valves

Body Material	ASTM Spec	Code
Carbon Steel	A 105	B21
316	A 182 Gr. F 316	B22
304	A 182 Gr. F 304	B23
2,25%Cr 1Mo Steel	A 182 Gr. F 22	B24
1,25%Cr 0,5 Mo Steel	A 182 Gr. F 11	B25
5%Cr 0,5 Mo Steel	A 182 Gr. F 5	B26
18%Cr 10%Ni Cb Steel	A 182 Gr. F 347	B27
18%Cr 10%Ni Ti Steel	A 182 Gr. F 321	B28

TRIM MATERIAL CODES

API Trim Number	Material	Seat Surface	Surface	Backseat	Stem
1	13Cr	13Cr	13Cr	13Cr	13Cr
2	304	304	304	304	304
3	F310	310	310	310	310
4	Hard 13Cr	Hard13 CrHard	Hard 13 Cr	Hard13 Cr	13Cr
5	Hardfaced	STL	STL	13Cr	13Cr
5A	Hardfaced	Ni -Cr	Ni -Cr	13Cr	13Cr
6	13Cr and Cu Ni	Cu - Ni	Cu - Ni	13Cr	13Cr
7	13Cr and Hard 13Cr	Hard 13Cr	Hard 13Cr	13Cr	13Cr
8	13Cr and Hardfaced	STL	13Cr	13Cr	13Cr
8A	13Cr and Hardfaced	Ni -Cr	13Cr	13Cr	13Cr
9	Monel	Monel	Monel	Monel	Monel
10	316	316	316	316	316
11	Monel and Hardfaced	STL	Monel	Monel	Monel
12	316 and Hardfaced	STL	316	316	316
13	Alloy 20	Alloy 20	Alloy20	Alloy 20	Alloy 20
14	Alloy 20 and Hardfaced	STL	Alloy20	Alloy 20	Alloy 20
15	304 and Hardfaced	STL	STL	304	304
16	316 and Hardfaced	STL	STL	316	316
17	347 and Hardfaced	STL	STL	347	347
18	Hardfaced	STL	STL	Alloy20	Alloy 20

Not: *Bunların dışında gövde ile aynı malzemede veya piriç, bronz iç aksam malzemeler de uygulanabilir.

Note: *Other than these trim materials such as the same material with body or brass, bronze can be applied.

****İsteğe bağlı olarak gövde siteri integral ya da kaynaklı olarak da imalat yapılabilir.**

****Upon request body seat rings can be manufacture as integrated or weld-deposit.**

*****Bütün valflerde imalatçı standardı kapsamında tasarım ve ölçü değiştirme hakkımız saklıdır.**

*****We have right to change the design and dimensions of all valves within manufacturer standard.**



DÖKÜM ÇELİK GATE VALFLER

Cast Steel Gate Valves

Bu tip vanalar içerisinde akış esnasında basınç düşmesi istenmeyen yerlerde kullanılır. Tam açık ya da tam kapalı olarak kullanılırlar. Yarı açık konumda kullanıldıkları takdirde içerisinde geçen akışkanın hızı sürgünün titreşimine ve bunun sonucunda hasarına neden olur. Gate vanalarda kısarak boğma işlemi yapılamaz.

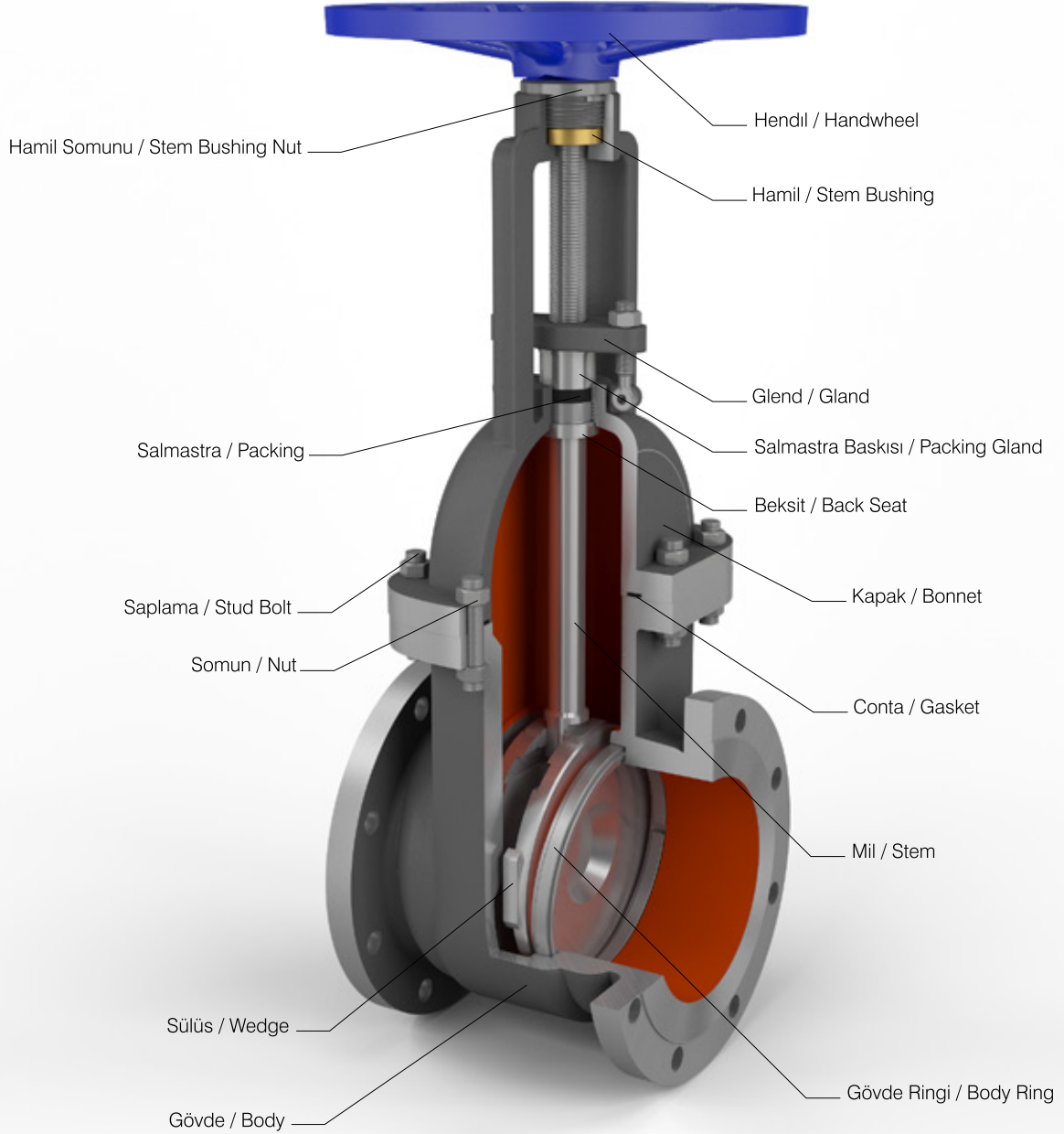
These types of valves are used in flows where no or minimum pressure drop is desired. This type fully opens or closes the flow. If used partially open the flowing fluid will vibrate the gate and this will lead to erosion and mechanical failures. Throttling is not possible with gate valves.

300
WCB
A1075 8



ASA 150 DÖKÜM ÇELİK GATE VALFLER

Cast Steel Gate Valves Figure V 2010



Design standard: API 6D&API 600&ASME B16.34
Face to face standard: ANSI B16.10
Flange dimensions are according to ANSI B16.5
Inspection and test standard: API 598, API 6D, API 600
Operating pressure-temperatures are according to ASME B16.34

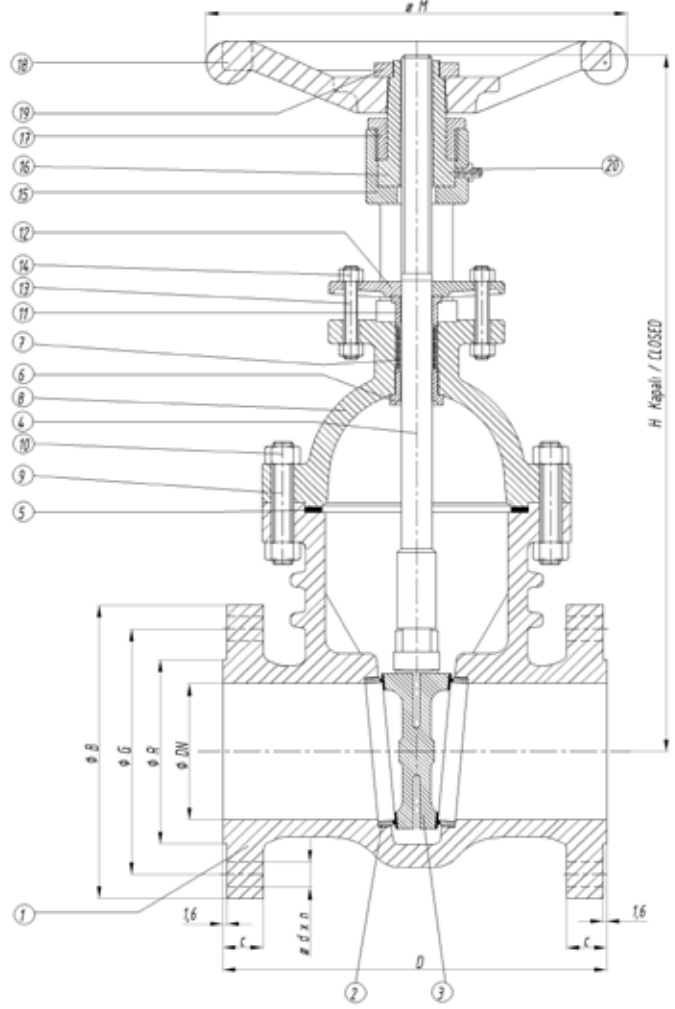
ASA 150 DÖKÜM ÇELİK GATE VALFLER

Cast Steel Gate Valves Figure V 2010



MALZEME SPESİFİKASYONLARI / Material Specifications

PARÇA ADI / PART NAME	
1 GÖVDE Body	Cast Steel
2 GÖVDE RİNGİ Body Ring	Carbon Steel
2a GÖVDE RİNGİ YÜZEYİ Body Ring Face	Stainless Steel
3 SÜLÜS Wedge	Cast Steel
3a SÜLÜS YÜZEYİ Wedge Seat Face	Stainless Steel
4 MİL Stem	Stainless Steel
5 CONTA ASA 150 Gasket ASA 300 / 600	Graphite SS Spiral Wound Gasket (SWG)
6 BEKSİT RİNGİ Back Seat Ring	Stainless Steel
7 SALMASTRA Packing	Graphite
8 KAPAK Bonnet	Cast Steel
9 KAP. SAPLAMALARI Bonnet Stud - Bolt	CrMo Steel
10 KAP.SAPL. SOMUNLARI Bonnet Bolt Nut	Carbon Steel
11 SALMASTRA BASKISI Packing Gland	Stainless Steel
12 GLEND Gland	Carbon Steel
13 GLEND SAPLAMASI Gland Bolt	Cast Steel
14 GLEND SAP. SOMUNU Gland Bolt Nut	Cast Steel
15 KAPAK ÇATALI Yoke	Carbon Steel
16 HAMİL (MİL BURCU) Stem Bushing	Bronze
17 HAMİL SOMUNU Bushing Nut	Carbon Steel
18 HENDİL Handwheel	Ductile Iron
19 HENDİL SOMUNU Handwheel Nut	Carbon Steel
20 GRESÖRLÜK Grease Fitting	Carbon Steel
21 İSİM PLAKASI Name Plate	Aluminium



ASA 150 Figure V 2010	ÖLÇÜ/SIZE		Ø B	Ø G	Ø R	C	Ø dxn	D	H	Ø M	App. W
	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
	2	50	152,4	120,6	92	19,1	19 x 4	177,8	345	200	19
	2 1/2	65	177,8	139,7	104,8	22,3	19 x 4	190,5	350	200	26
	3	80	190,5	152,4	127	23,9	19 x 4	203,2	415	230	36
	4	100	228,6	190,5	157,2	23,9	19 x 8	228,6	470	250	51
	5	125	254	215,9	185,7	23,9	22,2 x 8	254	550	300	75
	6	150	279,4	241,3	215,9	25,4	22,2 x 8	266,7	575	300	77
	8	200	342,9	298,4	269,9	28,6	22,2 x 8	292,1	740	350	112
	10	250	406,4	362	323,8	30,2	25,4 x 12	330,2	910	400	178
	12	300	482,6	431,8	381	31,8	25,4 x 12	355,6	1040	500	335
	14	350	533,4	476,2	412,8	35	28,5 x 12	381	1160	500	520
	16	400	596,9	539,8	469,9	36,6	28,5 x 16	406,4	1370	600	550
	18	450	635	577,8	533,4	39,7	31,8 x 16	431,8	1475	700	770
	20	500	698,5	635	584,2	42,9	31,8 x 20	457,2	1650	700	900
	24	600	812,8	749,3	692,2	47,7	35 x 20	508	2120	800	1250
	26	650	870	806,4	749,3	68,3	35 x 24	558,8	2305	800	1800
	28	700	927,1	863,6	800	71,4	35 x 28	610	2540	800	2150
	30	750	984,2	914,4	857,2	74,7	35 x 28	610	2590	800	2700
	32	800	1060,4	977,9	914,4	57,1	41,1 x 28	711,2	2800	800	2420
	36	900	1168,4	1085,8	1022,3	90,4	41,1 x 32	711,2	3080	800	3200

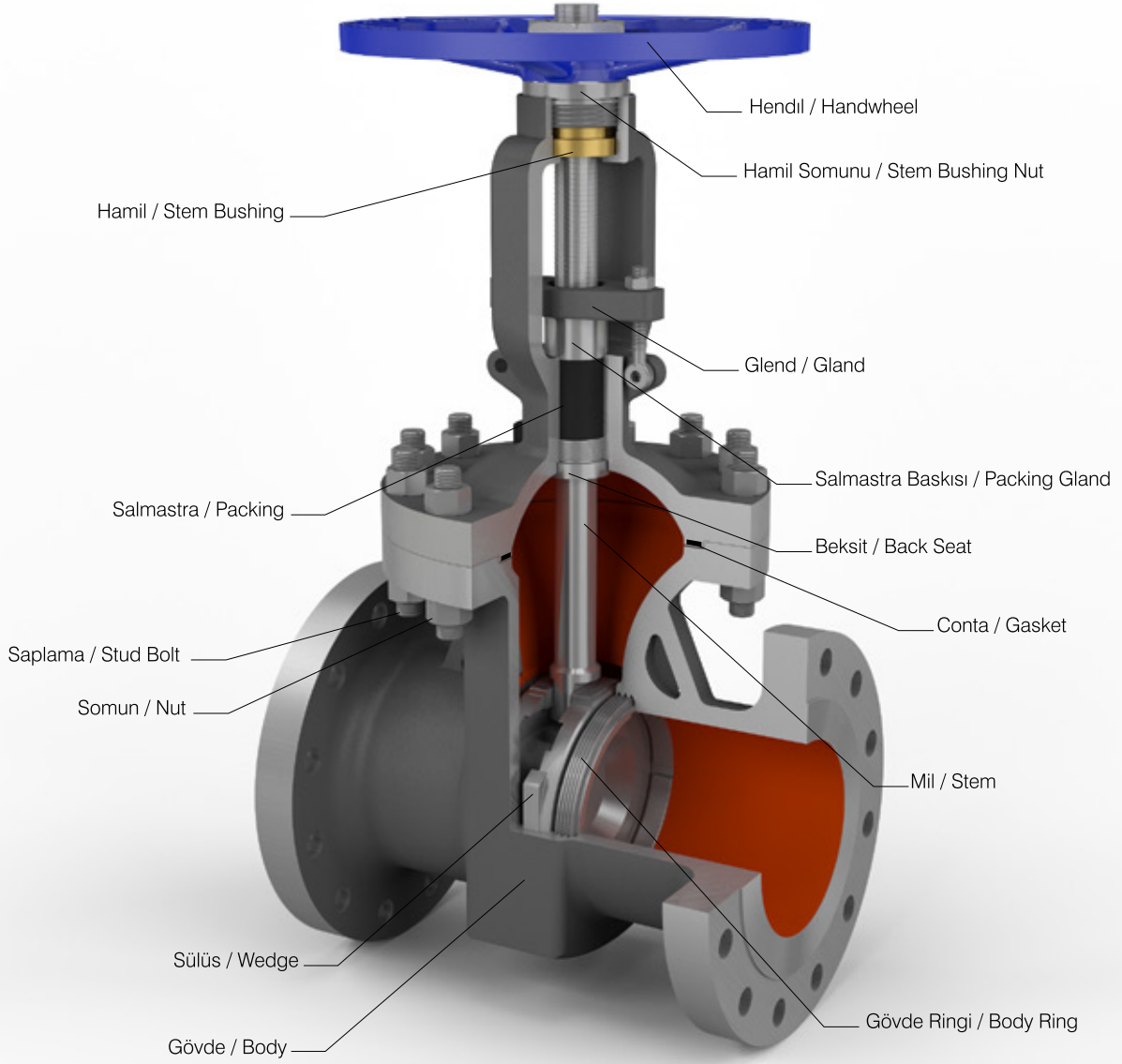
Not: Ölçü, basınç sınıfı, bağlantı, model, gövde ve trim malzemesi seçimleri müşteri tarafından sipariş kodlarına göre yapılır.

Note: Dimensions, pressure class, connection type, model, body and trim materials are specified by purchaser according to the order codes.



ASA 300 DÖKÜM ÇELİK GATE VALFLER

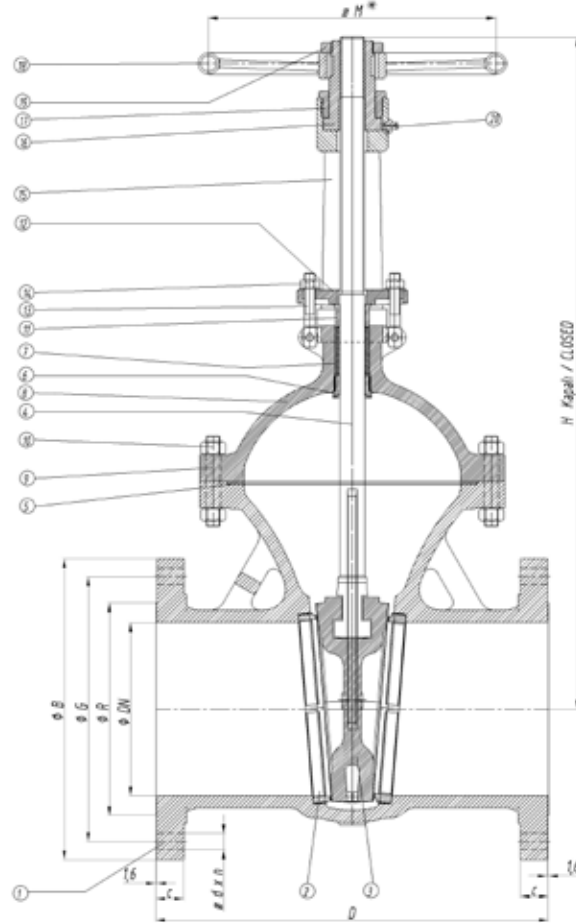
Cast Steel Gate Valves Figure V 2020



Design standard: API 6D&API 600&ASME B16.34
Face to face standard: ANSI B16.10
Flange dimensions are according to ANSI B16.5
Inspection and test standard: API 598, API 6D, API 600
Operating pressure-temperatures are according to ASME B16.34

ASA 300 DÖKÜM ÇELİK GATE VALFLER

Cast Steel Gate Valves Figure V 2020



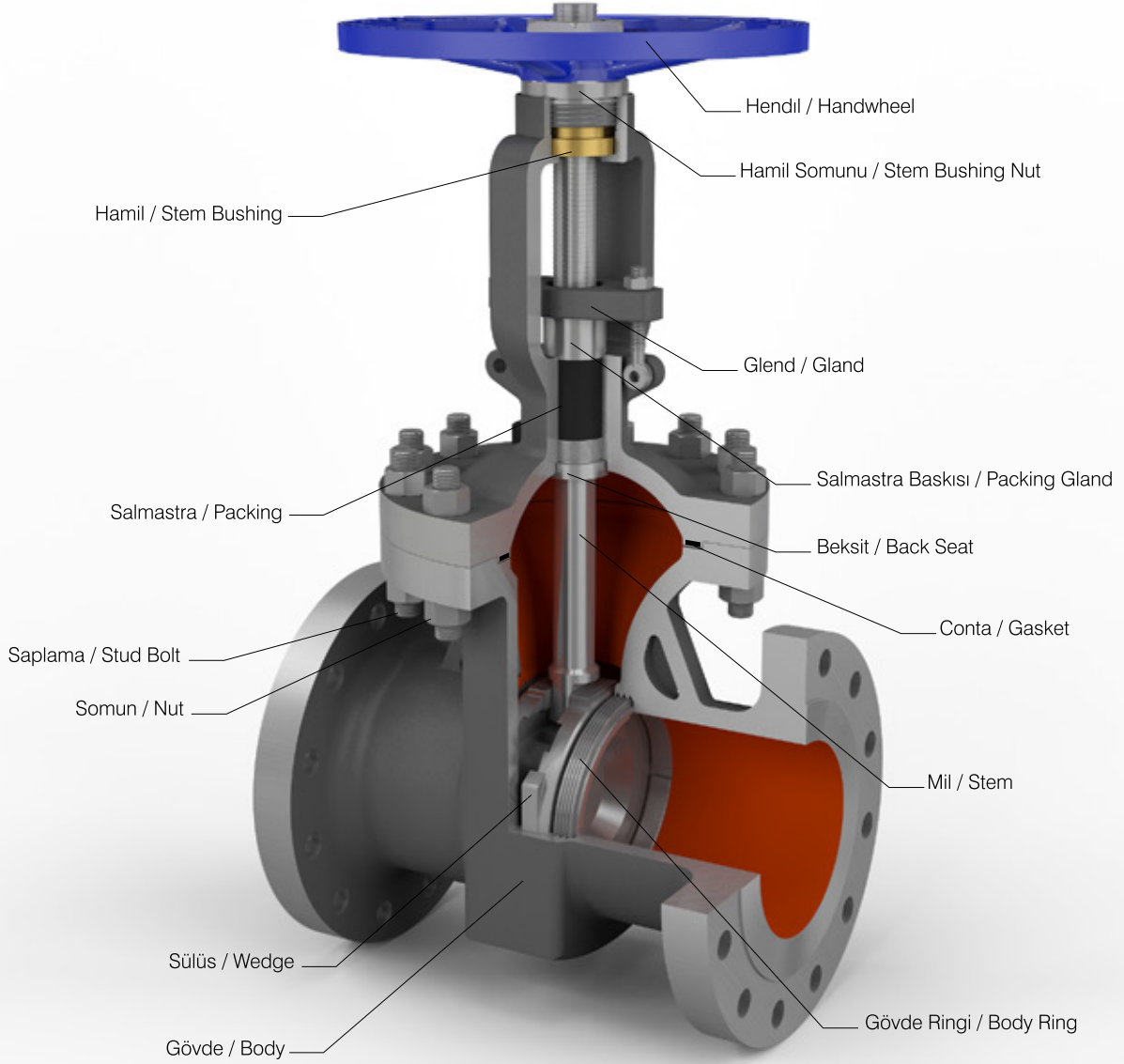
ASA 300 Figure V 2020	ÖLÇÜ/SIZE		Ø B	Ø G	Ø R	C	Ø dxn	D	H	Ø M	App. W
	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
	2	50	165,1	127	92	22,4	19 x 8	215,9	345	200	25
	2 ½	65	190,5	149,3	104,8	25,4	22,2 x 8	241,3	410	230	28
	3	80	209,6	168,3	127	28,4	22,2 x 8	282,6	410	230	55
	4	100	254	200	157,2	31,8	22,2 x 8	304,8	445	250	64
	5	125	279,4	235	185,7	35	22,2 x 8	381	585	300	100
	6	150	317,5	269,8	215,9	36,6	22,2 x 12	403,2	620	350	165
	8	200	381	330,2	269,9	41,1	25,4 x 12	419,1	810	400	205
	10	250	444,5	387,4	323,8	47,8	28,5 x 16	457,2	970	500	374
	12	300	520,7	450,8	381	50,8	31,8 x 16	501,7	1100	500	454
	14	35	584,2	514,4	412,8	53,8	31,8 x 20	762	1305	600	880
	16	400	647,7	571,5	469,9	57,2	35 x 20	838,2	1620	700	1120
	18	450	711,2	628,6	533,4	60,5	35 x 24	914,4	1640	700	1365
	20	500	774,7	685,8	584,2	63,5	35 x 24	990,6	1910	700	1850
	24	600	914,4	812,8	692,2	69,9	41,1 x 24	1143	2125	800	2000

Not: Ölçü, basınç sınıfı, bağlantı, model, gövde ve trim malzemesi seçimleri müşteri tarafından sipariş kodlarına göre yapılır.
Note: Dimensions, pressure class, connection type, model, body and trim materials are specified by purchaser according to the order codes.



ASA 600 DÖKÜM ÇELİK GATE VALFLER

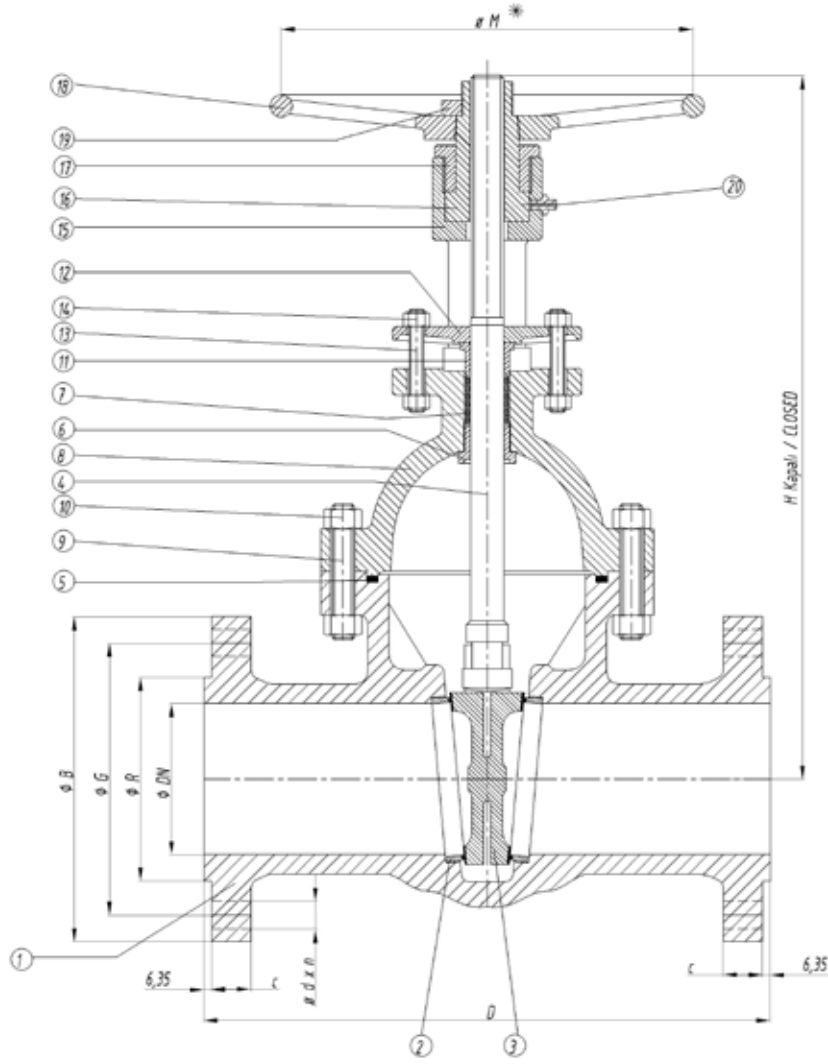
Cast Steel Gate Valves Figure V 2030



Design standard: API 6D&API 600&ASME B16.34
Face to face standard: ANSI B16.10
Flange dimensions are according to ANSI B16.5
Inspection and test standard: API 598, API 6D, API 600
Operating pressure-temperatures are according to ASME B16.34

ASA 600 DÖKÜM ÇELİK GATE VALFLER

Cast Steel Gate Valves Figure V 2030



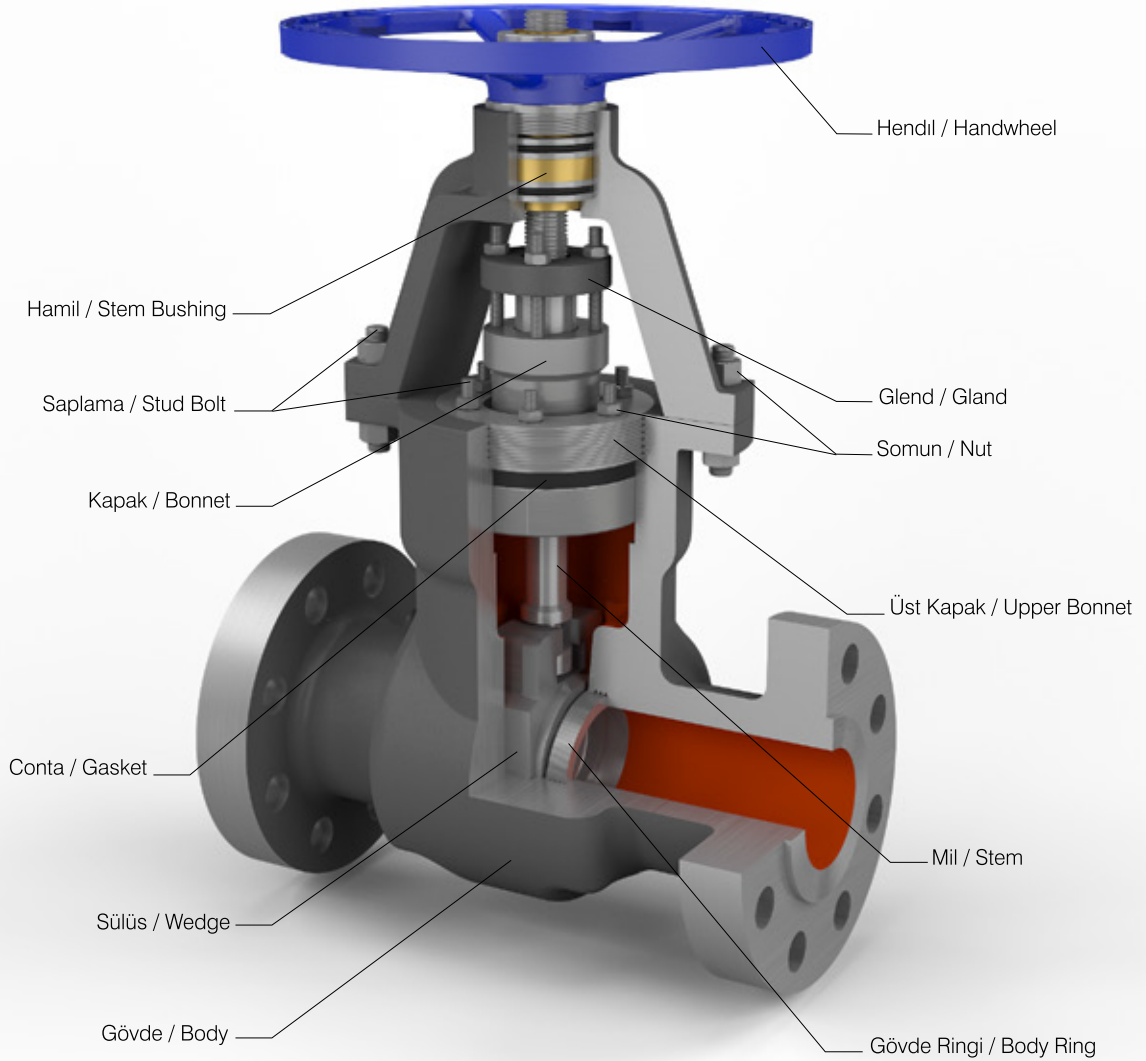
ASA 600 Figure V 2030	ÖLÇÜ/SIZE		Ø B	Ø G	Ø R	C	Ø d x n	D	H	Ø M	App. W
	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
	2	50	165,1	127	92	25,4	19 x 8	292,1	375	200	36
	2 1/2	65	190,5	149,3	104,8	28,4	22,2 x 8	330,2	415	230	42
	3	80	209,6	168,3	127	31,8	22,2 x 8	355,6	455	250	75
	4	100	273	215,9	157,2	38,1	25,4 x 8	431,8	555	350	123
	6	150	355,6	292,1	215,9	47,8	28,5 x 12	558,8	800	500	290
	8	200	419,1	349,2	269,9	55,6	31,8 x 12	660,4	930	600	420
	10	250	508	431,8	323,8	63,5	35 x 16	787,4	1125	800	700
	12	300	558,8	489	381	66,5	35 x 20	838,2	1400	800	1020
	14	35	603,3	527	412,8	69,9	38,1 x 20	889	1570	800	1450
	16	400	685,8	603,2	469,9	76,2	41,1 x 20	990,6	1625	800	1820
	18	450	743	654	533,4	82,6	44,5 x 20	1092,2	2250	1000	1990
	20	500	812,8	723,9	584,2	88,9	44,5 x 24	1193,8	2400	1400	2410
	24	600	939,8	838,2	692,2	101,6	50,8 x 24	1397	3000	1500	3990

Not: Ölçü, basınç sınıfı, bağlantı, model, gövde ve trim malzemesi seçimleri müşteri tarafından sipariş kodlarına göre yapılır.
Note: Dimensions, pressure class, connection type, model, body and trim materials are specified by purchaser according to the order codes.



ASA 900-ASA1500 DÖKÜM ÇELİK GATE VALFLER

Cast Steel Gate Valves Figure V 2040-V 2050



Design standard: API 6D&API 600&ASME B16.34
Face to face standard: ANSI B16.10
Flange dimensions are according to ANSI B16.5
Inspection and test standard: API 598, API 6D, API 600
Operating pressure-temperatures are according to ASME B16.34

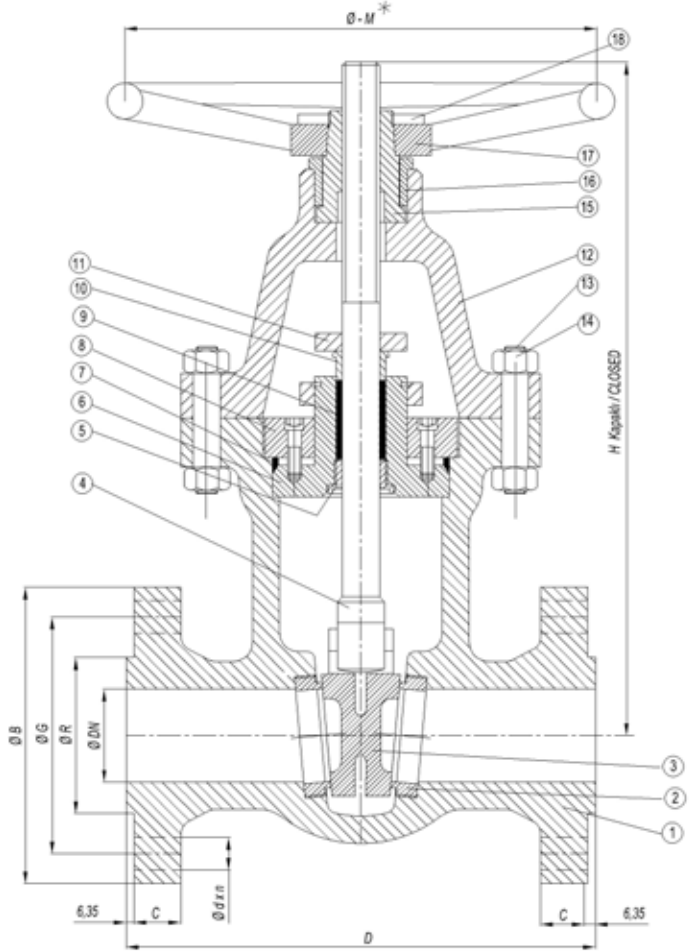
ASA 900-ASA1500 DÖKÜM ÇELİK GATE VALFLER

Cast Steel Gate Valves Figure V 2040-V 2050



MALZEME SPESİFİKASYONLARI / Material Specifications

PARÇA ADI / PART NAME		
1	GÖVDE Body	Cast Steel
2	GÖVDE RİNGİ Body Ring	Carbon Steel
2a	GÖVDE RİNG YÜZEYİ Body Ring Face	Stainless Steel
3	SÜRGÜ Wedge	Cast Steel
3a	SÜLÜS YÜZEYİ Wedge Seat Face	Stainless Steel
4	MİL Stem	Stainless Steel
5	BEKSİT RİNGİ Back Seat	Stainless Steel
6	KAPAK (Glend Çektirmesi) Bonnet	Cast Steel
7	CONTA Gasket	Stainless Steel
8	ÜST KAPAK Bonnet (Top)	Carbon Steel
9	SALMASTRA Packing	Graphite
10	SALMASTRA BASKISI Packing Gland	Stainless Steel
11	GLEND Gland	Carbon Steel
12	KAPAK ÇATALI Yoke	Cast Steel
13	ÇATAL SAPLAMALARI Yoke Stud Bolt	Cr Mo Steel
14	SAPL. SOMUNU Stud Bolt Nut	Carbon Steel
15	HAMIL (MİL Burcu) Stem Bushing	Bronze
16	HAMIL SOMUNU Bushing Nut	Steel
17	HENDİL Handwheel	Ductile Iron
18	HENDİL SOMUNU Handwheel Nut	Steel
19	İSİM PLAKASI Name Plate	Aluminium



ASA 900 Figure V 2040	ÖLÇÜ / SIZE		Ø B	Ø G	Ø R	C	Ø d x n	D	H	Ø M	App. W
	DN	inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
	50	2	215,9	165,1	92	38,1	25,4 x 8	368,3	450	300	85
	65	2 ½	244,4	190,5	104,8	41,1	28,5 x 8	419,1	500	300	90
	80	3	241,3	190,5	127	38,1	25,4 x 8	381	530	350	105
	100	4	292,1	235	157,2	44,5	31,8 x 8	457,2	690	400	200
	150	6	381	317,5	215,9	55,6	31,8 x 12	609,6	1100	500	450
	200	8	470	393,7	269,9	63,5	38,1 x 12	736,6	1130	600	630
	250	10	546,1	469,9	323,8	69,9	38,1 x 16	838,2	1255	680	950
	300	12	609,6	533,4	381	79,2	38,1 x 20	965,2	1300	780	1225

ASA 1500 Figure V 2050	ÖLÇÜ / SIZE		Ø B	Ø G	Ø R	C	Ø d x n	D	H	Ø M	App. W
	DN	inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
	50	2	215,9	165,1	92	38,1	25,4 x 8	368,3	550	300	75
	65	2 ½	244,4	190,5	104,8	41,1	28,5 x 8	419,1	500	300	92
	80	3	266,7	203,2	127	47,8	31,8 x 8	470	560	350	135
	100	4	311,1	241,3	157,2	53,8	35 x 8	546,1	640	500	204
	150	6	393,7	317,5	215,9	82,6	38,1 x 12	704,9	900	600	450
	200	8	482,6	393,7	269,9	91,9	44,5 x 12	831,9	1130	685	750
	250	10	584,2	482,6	323,8	108	50,8 x 12	990,6	1240	900	1200
	300	12	673,1	571,5	381	124	53,8 x 16	1130,3	1385	1100	2060

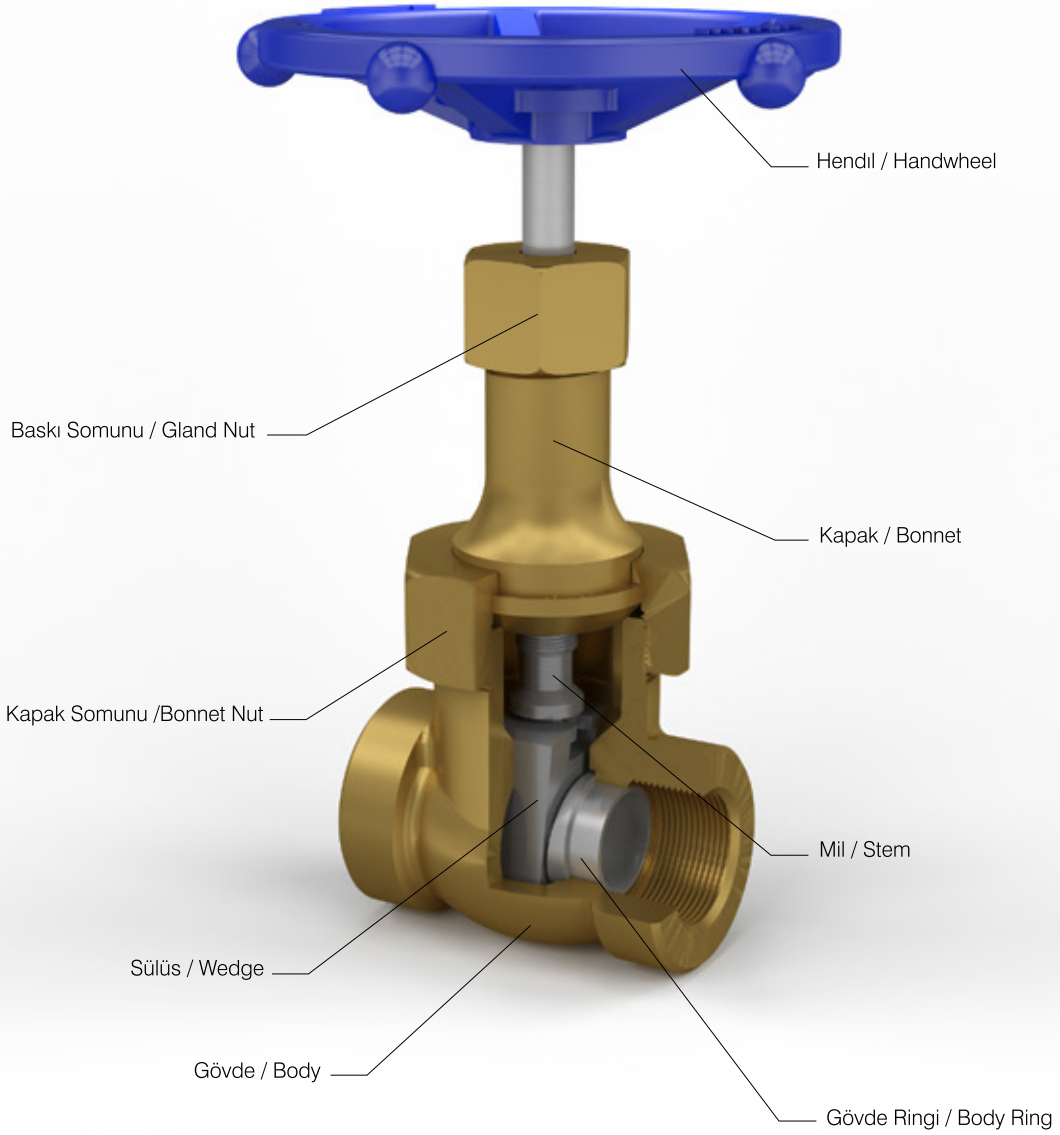
Not: Ölçü, basınç sınıfı, bağlantı, model, gövde ve trim malzemesi seçimleri müşteri tarafından sipariş kodlarına göre yapılır.

Note: Dimensions, pressure class, connection type, model, body and trim materials are specified by purchaser according to the order codes.



ASA 300 DÖKÜM BRONZ GATE VALFLER

Cast Bronze Gate Valves Figure V 2300



Tasarım standardı: MSS SP 80
Face to face standardı: ANSI B16.10
Flange standardı: ANSI B16.5
Inspection and test standard: API 598

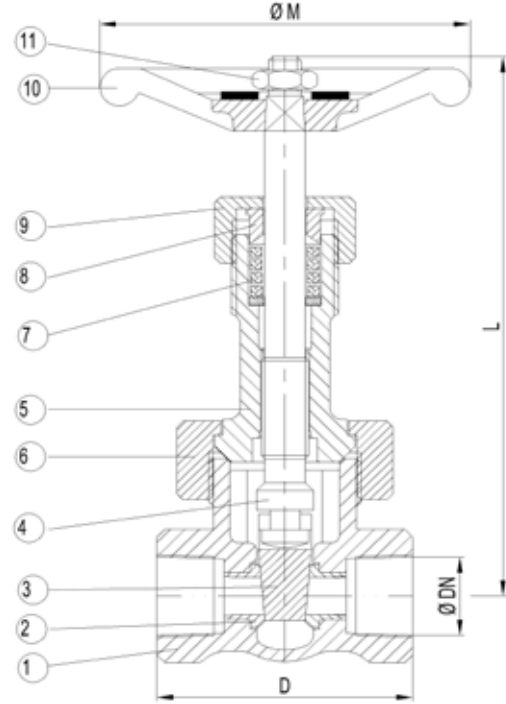
ASA 300 DÖKÜM BRONZ GATE VALFLER

Cast Bronze Gate Valves Figure V 2300



MALZEME SPESİFİKASYONLARI / Material Specifications

PARÇA ADI / PART NAME	
1 GÖVDE Body	Cast Bronze
2 GÖVDE RİNGİ Body Ring	Bronze or Stainless Steel
3 SÜLÜS Wedge	Bronze or Stainless Steel
4 MİL Stem	Bronze or Stainless Steel
5 KAPAK Bonnet	Cast Bronze
6 KAPAK SOMUNU Bonnet	Bronze
7 SALMASTRA Packing	Graphite
8 SALM. BASKISI Packing Gland	Bronze or Stainless Steel
9 BASKI SOMUNU Gland Nut	Bronze
10 HENDİL Handwheel	Ductile Iron
11 HENDİL SOMUNU Handwheel Nut	Carbon Steel(Galvanized)
12 İSİM PLAKASI Name Plate	Aluminium



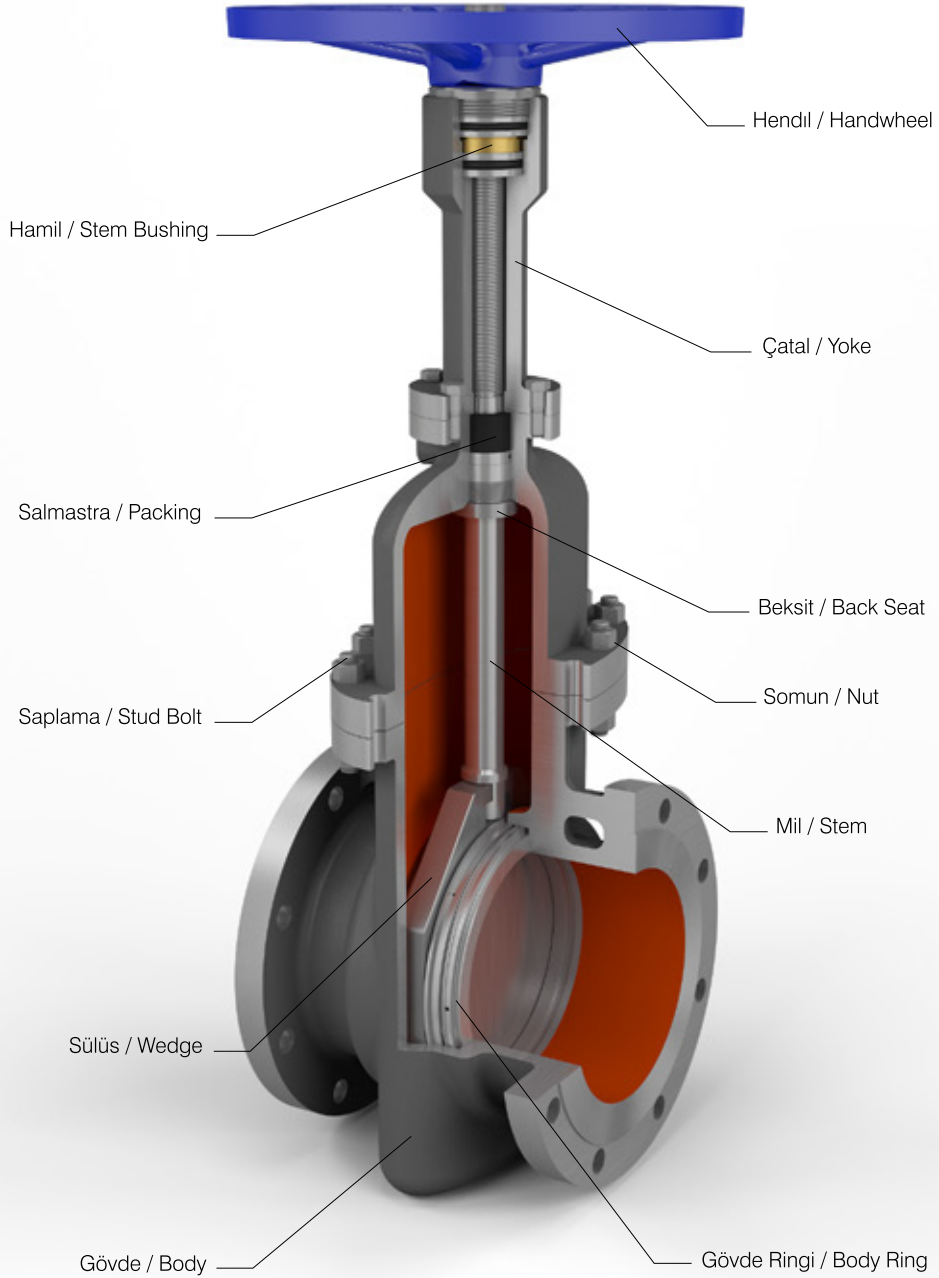
ASA 300 Figure V 2300	ÖLÇÜ / SIZE		D	L	ØM	App.W
	inch	mm	mm	mm	mm	kg
	1/2	15	63	135	90	0,90
	3/4	20	72	196	90	1,59
	1	25	84	206	90	2,30
	1 1/2	40	105	270	120	3,5
	2	50	111	260	150	5
	2 1/2	65	115	350	150	7
	3	80	135	422	250	12
	4	100	165	425	550	45





ASA 150 DÖKÜM ÇELİK DBB GATE VALFLER

Cast Steel DBB Gate Valves Figure V 2200



Design standard: API 6D&API 600&ASME B16.34
Face to face standard: ANSI B16.10
Flange dimensions are according to ANSI B16.5
Inspection and test standard: API 598, API 6D, API 600

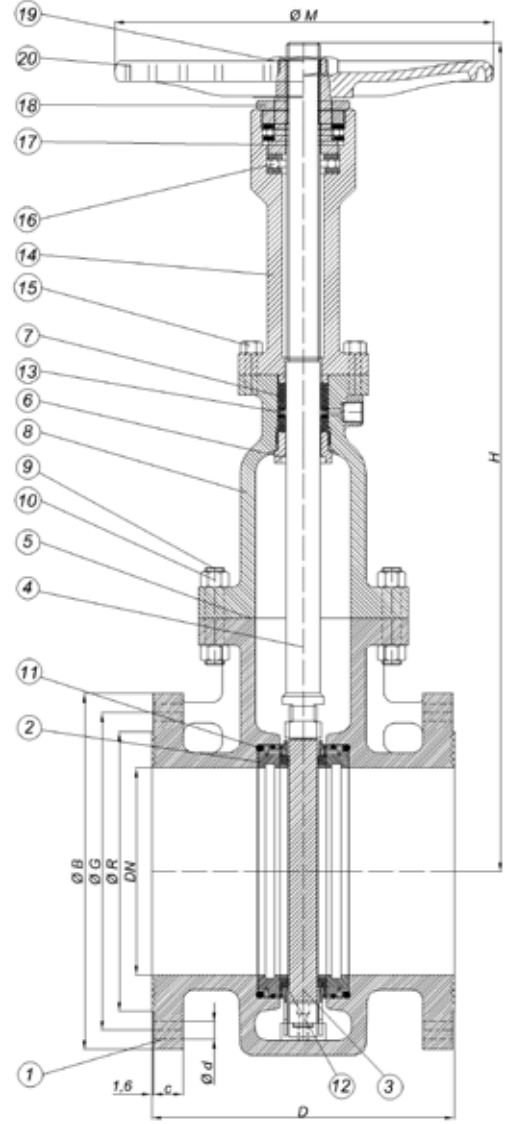
ASA 150 DÖKÜM ÇELİK DBB GATE VALFLER

Cast Steel DBB Gate Valves Figure V 2200



MALZEME SPESİFİKASYONLARI / Material Specifications

PARÇA ADI / PART NAME	
1 GÖVDE Body	Cast Steel
2 GÖVDE RİNGİ Body Ring	Cast Steel
3 SÜLÜS Wedge	Cast Steel
3a SÜLÜS YÜZEYİ Wedge Seat Ring	Stainless Steel
4 MİL Steam	Stainless Steel
5 CONTA Gasket	Graphite
6 BEKSİT RİNGİ Back Seat Ring	Stainless Steel
7 SALMASTRA Packing	Graphite
8 KAPAK Bonnet	Cast Steel
9 KAPAK SAPLAMALARI Bonnet Stud Bolt	Stainless Steel
10 KAPAK SAP. SOMUNLARI Bonnet Bolt Nut	Carbon Steel
11 ORİNG Seat Ring	Viton
12 TEFLON SİT Seat Insert	RTFE
13 SALMASTRA RİNGİ Packing Ring	Stainless Steel
14 KAPAK ÇATALI Yoke	Carbon Steel
15 ÇATAL CİVATASI Yoke Bolt Nut	Cast Steel
16 RULMAN Bearings	Steel
17 HAMİL (MİL BURCU) Stem Bushing	Bronze
18 HAMİL SOMONU Bushing Nut	Carbon Steel
19 HENDİL SOMONU Handwheel Nut	Carbon Steel
20 HENDİL Handwheel	Ductile Iron
21 İSİM PLAKASI Name Plate	Aluminium



ASA 300 Figure 2200	ÖLÇÜ/SIZE		Ø B	C	D	Ø G	Ø R	H	Ø M *	App.W
	inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
	4	100	229	23,9	228,6	190,5	157,2	510	275	52
	6	150	279	25,4	266,7	241,3	215,9	655	325	100
	8	200	343	28,6	292,1	298,4	269,9	810	400	135
	10	250	406	30,2	330,2	362	323,8	960	450	195
	12	300	483	31,8	355,6	431,8	381	1110	450	300
	14	350	533	35	381	476,2	412,8	1280	500	430
	16	400	597	36,6	406,4	539,8	469,9	1340	600	600

Not: Ölçü, basınç sınıfı, bağlantı, model, gövde ve trim malzemesi seçimleri müşteri tarafından sipariş kodlarına göre yapılır.

Note: Dimensions, pressure class, connection type, model, body and trim materials are specified by purchaser according to the order codes.



The image shows a large industrial valve assembly in the foreground. The valve has a grey body and two large orange cylindrical actuators. It is mounted on a base. In the background, there is a building with a light-colored corrugated metal facade. Above the building, the sky is blue with white clouds. The overall scene is industrial and professional.

VANASAN

VANASAN
DN 700 - PN80
28° - 600

DÖKÜM ÇELİK KÜRE VALFLER

Cast Steel Ball Valves

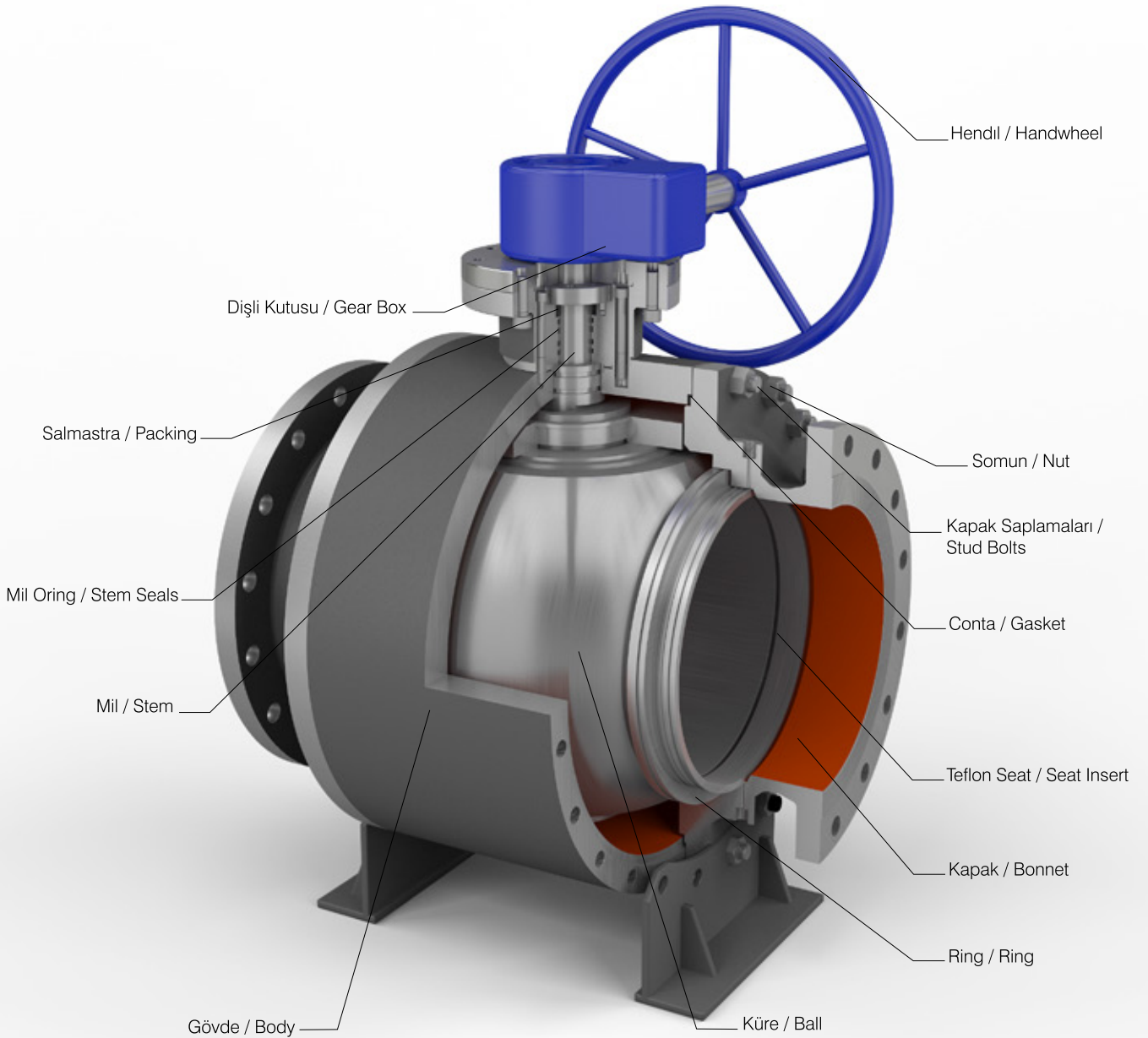
Çeyrek turla açılıp kapanan vana türleri içerisinde yer alır. Yüksek sızdırmazlık ve geçiş kapasitesi sağlayan vanalardır. Tam açık ya da tam kapalı olarak çalışmaları tavsiye edilir, hassas kontrol için uygun değildirler. Her iki yönde de çalışırlar. Akışkanın serbest, rahat geçişini sağlarlar. Vanayı hattan tamamen sökmeden bakımları yapılabilir, bakım kolaylığı en önemli avantajlarından biridir. Vananın uzun süre kapalı kalması sonucunda akışkan ile temas halinde olan kürenin dış yüzeyinde kalıcı tabakalar oluşabilir ve vananın açılması zorlaşır. Sık kullanımın olduğu hatlarda tavsiye edilir.

These types of valves opening and closing by quarter turn. They provide high seal and flow capacity. It is recommended to operate fully open or close, they are not suitable for precise control. They are operated in both directions. They provide to flow of fluid freely and easily. The maintenance of valve can be performed without disassembled from the pipeline, easy maintenance is the most important advantage of this type. In stead of remain closed for a long time, a permanent layer can be formed on the external surface of ball which is in touch with fluid and opening of valve can be difficult. They are advised for frequently used pipelines.



ASA 150-ASA 300 DÖKÜM ÇELİK TRUNNION KÜRE VALFLER

Cast Steel Trunnion Ball Valves Figure V 5010-V 5020



Design standard: API 6D&API 608&ASME B16.34
Face to face standard: ANSI B16.10
Flange dimensions are according to ANSI B16.5
Inspection and test standard: API 598, API 6D

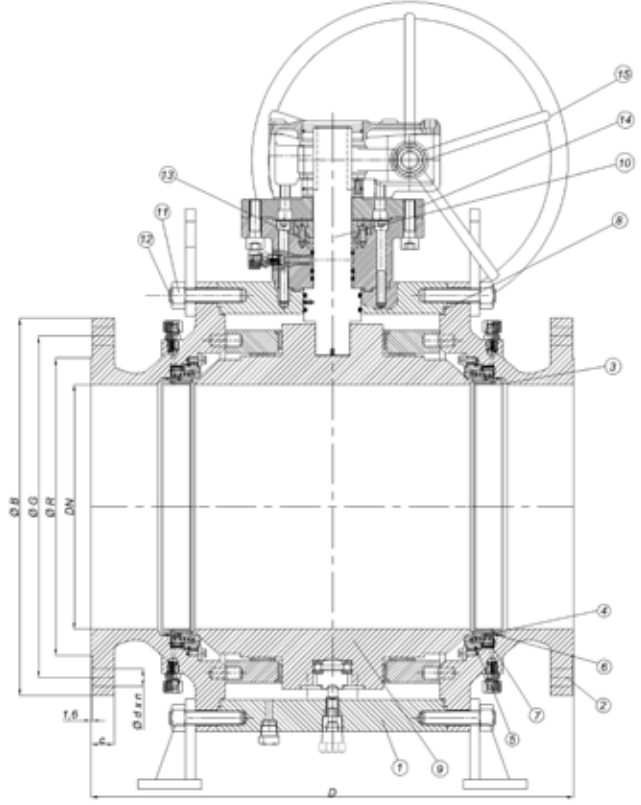
ASA 150-ASA 300 DÖKÜM ÇELİK TRUNNION KÜRE VALFLER

Cast Steel Trunnion Ball Valves Figure V 5010-V 5020



MALZEME SPESİFİKASYONLARI / Material Specifications

PARÇA ADI / PART NAME		
1	GÖVDE Body	Cast Steel
2	KAPAK Bonnet	Cast Steel
3	SEAT Ring	Carbon Steel+Cromplated
4	TEFLON SİT Seat Insert	RTFE
5	SİT CONTASI Seat Gasket	Graphite
6	SİT O RING Seat O Ring	NBR or Viton
7	YAY Spring	Stainless Steel
8	CONTA Gasket	Spiral Wound Gasket
9	KÜRE Ball	Stainless Steel
10	MİL Stem	Stainless Steel
10a	MİL O RING Stem Seals	NBR or Viton
11	KAPAK SAPLAMALARI Stud - Bolts	CrMo Steel
12	SAPLAMA SOMUNLARI Nuts	Carbon Steel
13	SALMASTRA Packing	PTFE
14	DİŞLİ KUTUSU FLANŞI Gear Box Flange	Carbon Steel
15	DİŞLİ KUTUSU HENDİLİ Gear Box Handwheel	Carbon Steel
16	İSİM PLAKASI Name Plate	Aluminium



ASA 150 Figure V 5010	ÖLÇÜ / SIZE		Ø B	Ø G	Ø R	C	D	App.W
	inch	DN	mm	mm	mm	mm	mm	kg
	2	50	152,4	120,6	92	19,1	177,8	20
	2 1/2	65	177,8	139,7	104,8	22,3	190,5	28
	3	80	190,5	152,4	127	23,9	203,2	37
	4	100	228,6	190,5	157,2	23,9	228,6	65
	6	150	279,4	241,3	215,9	25,4	393,7	126
	8	200	342,9	298,4	269,9	28,6	457,2	208
	10	250	406,4	362	323,8	30,2	533,4	370
	12	300	520,7	450,8	381	50,8	609,6	681
	14	35	584,2	514,4	412,8	53,8	685,8	963
	16	400	647,7	571,5	469,9	57,2	762	1250
ASA 300 Figure V 5020	18	450	711,2	628,6	533,4	60,5	863,6	1535
	20	500	774,7	685,8	584,2	63,5	914,4	2205
	24	600	914,4	812,8	692,2	69,9	1066,8	3130
	ÖLÇÜ / SIZE		Ø B	Ø G	Ø R	C	D	App.W
	İnch	DN	mm	mm	mm	mm	mm	kg
	2	50	165,1	127	92	22,4	215,9	26
	2 1/2	65	190,5	149,3	104,8	25,4	241,3	35
	3	80	209,6	168,3	127	28,4	282,6	52
	4	100	254	200	157,2	31,8	304,8	75
	6	150	317,5	269,8	215,9	36,6	403,2	149
	8	200	381	330,2	269,9	41,1	501,7	225

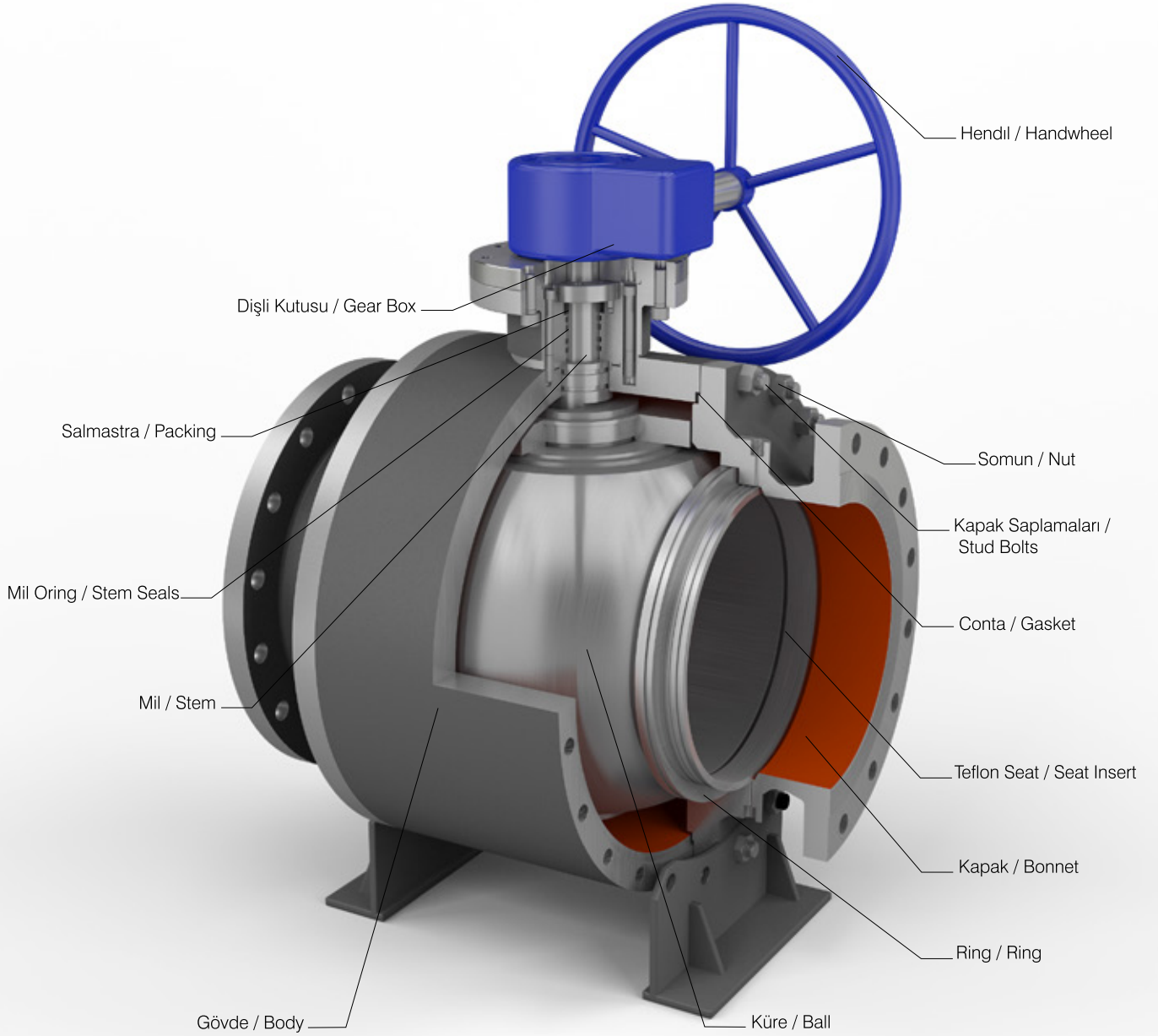
Not: Ölçü, basınç sınıfı, bağlantı, model, gövde ve trim malzemesi seçimleri müşteri tarafından sipariş kodlarına göre yapılır.

Note: Dimensions, pressure class, connection type, model, body and trim materials are specified by purchaser according to the order codes.



ASA 600-ASA 900 DÖKÜM ÇELİK TRUNNION KÜRE VALFLER

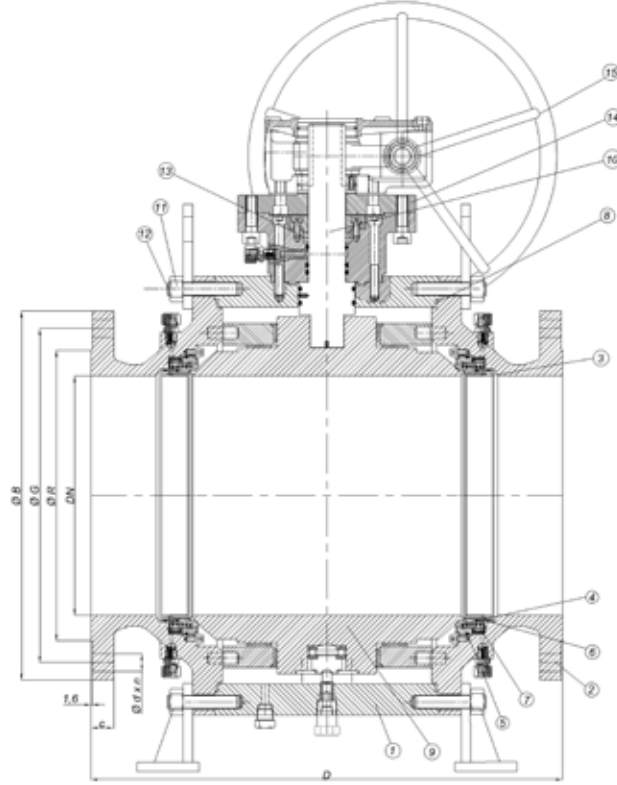
Cast Steel Trunnion Ball Valves Figure V 5030-V 5040



Design standard: API 6D&API 608&ASME B16.34
Face to face standard: ANSI B16.10
Flange dimensions are according to ANSI B16.5
Inspection and test standard: API 598, API 6D

ASA 600-ASA 900 DÖKÜM ÇELİK TRUNNION KÜRE VALFLER

Cast Steel Trunnion Ball Valves Figure V 5030-V 5040



ASA 600 Figure V 5030	ÖLÇÜ / SIZE		Ø B	Ø G	Ø R	C	Ø d x n	D	App.W
	inch	DN	mm	mm	mm	mm	mm	mm	kg
	2	50	165,1	127	92	25,4	19 x 8	292,1	32
	2 1/2	65	190,5	149,3	104,8	28,4	22,2 x 8	330,2	46
	3	80	209,6	168,3	127	31,8	22,2 x 8	355,6	54
	4	100	273	215,9	157,2	38,1	25,4 x 8	431,8	93
	6	150	355,6	292,1	215,9	47,8	28,5 x 12	558,8	250
	8	200	419,1	349,2	269,9	55,6	31,8 x 12	660,4	475
	10	250	508	431,8	323,8	63,5	35 x 16	787,4	720
	16	400	685,8	603,2	469,9	76,2	41,1 x 20	990,6	2425
	20	500	812,8	723,9	584,2	88,9	44,5 x 24	1193,8	4490
	28	700	1073	965,2	860	112,5	54 x 28	1549,4	10300

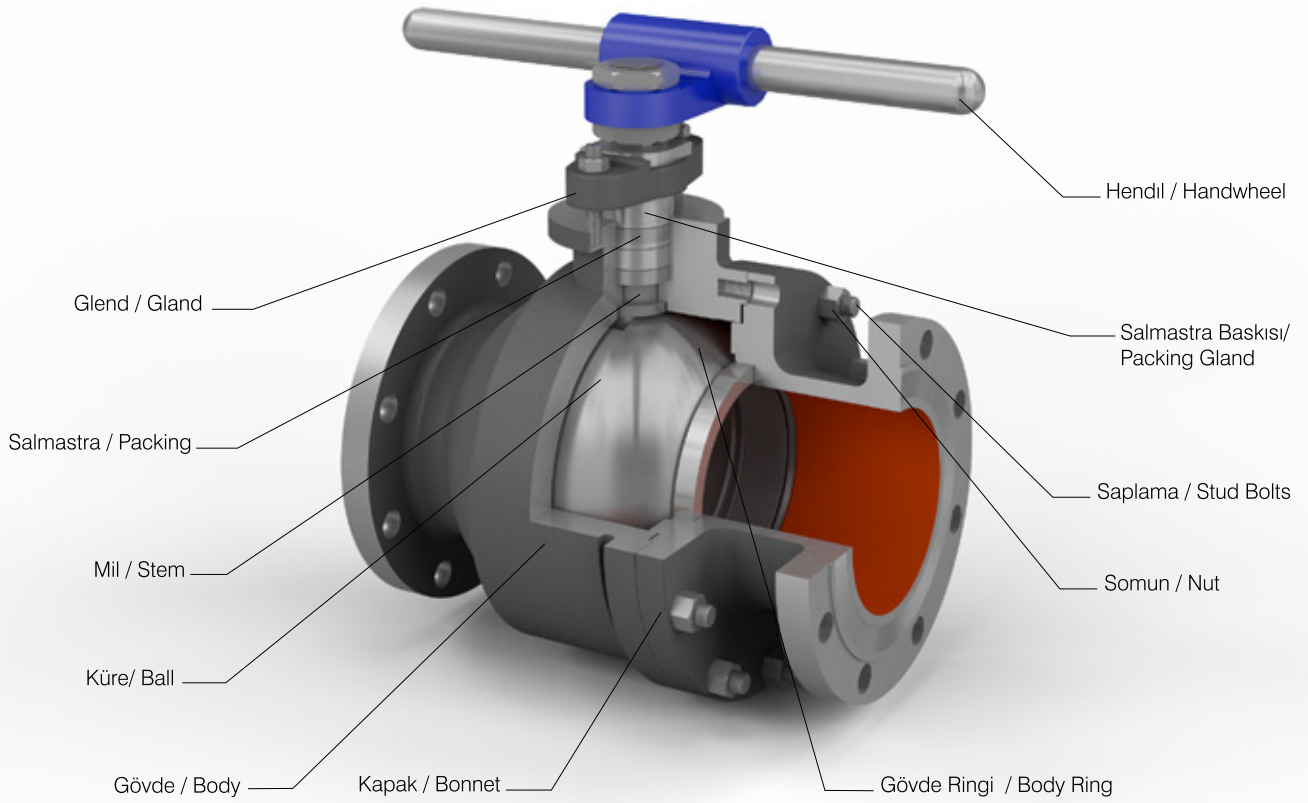
ASA 900 Figure V 5040	ÖLÇÜ / SIZE		Ø B	Ø G	Ø R	C	Ø d x n	D	App.W
	inch	DN	mm	mm	mm	mm	mm	mm	kg
	2	50	215,9	165,1	92	38,1	25,4 x 8	368,3	57
	2 1/2	65	244,4	190,5	104,8	41,1	28,5 x 8	419,1	63
	3	80	241,3	190,5	127	38,1	25,4 x 8	381	75
	4	100	292,1	235	157,2	44,5	31,8 x 8	457,2	140
	6	150	381	317,5	215,9	55,6	31,8 x 12	609,6	315
	8	200	470	393,7	269,9	63,5	38,1 x 12	736,6	670
	10	250	546,1	469,9	323,8	69,9	38,1 x 16	838,2	1030
	12	300	609,6	533,4	381	79,2	38,1 x 20	965,2	1560
	16	400	705	616	524	90	45 x 20	1130,3	2470

Not: Ölçü, basınç sınıfı, bağlantı, model, gövde ve trim malzemesi seçimleri müşteri tarafından sipariş kodlarına göre yapılır.

Note: Dimensions, pressure class, connection type, model, body and trim materials are specified by purchaser according to the order codes.



ASA 150-ASA 300-ASA 600 DÖKÜM ÇELİK FLOATING KÜRE VALFLER Cast Steel Floating Ball Valves Figure V 5110-V 5120-V 5130



Design standard: API 6D&API 608&ASME B16.34

Face to face standard: ANSI B16.10

Flange dimensions are according to ANSI B16.5

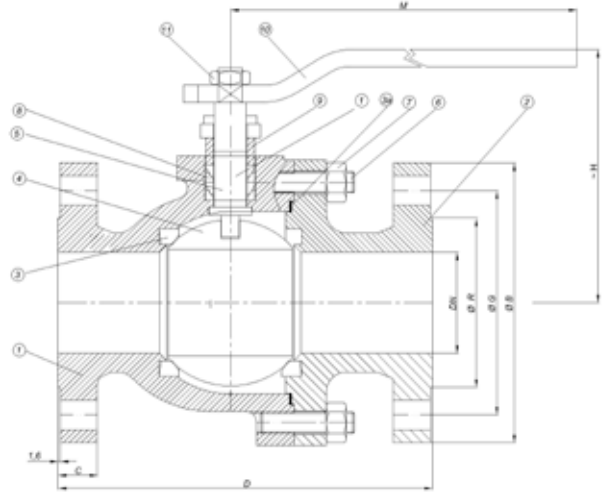
Inspection and test standard: API 598, API 6D

ASA 150-ASA 300-ASA 600 DÖKÜM ÇELİK FLOATING KÜRE VALFLER Cast Steel Floating Ball Valves Figure V 5110-V 5120-V 5130



MALZEME SPESİFİKASYONLARI / Material Specifications

PARÇA ADI / PART NAME	
1 GÖVDE Body	Cast Steel
2 KAPAK BONNET	Cast Steel
3 RİNG Ring	Teflon PTFE
3a CONTA Gasket	Spiral Wound Gasket
4 KÜRE Ball	Stainless Steel
5 MİL Stem	Stainless Steel
6 SAPLAMA Stud Bolt	CrMo steel
7 SOMUN Nut	Carbon Steel
8 SALMASTRA Packing	Teflon PTFE
9 SALM. BASKISI Packing Gland	Stainless Steel
10 HENDİL Handwheel	Steel
11 SOMUN Nut	Carbon Steel (Galvanized)
12 İSİM PLAKASI Name Plate	Aluminium



ASA 150 Figure V 5110	ÖLÇÜ / SIZE		Ø B	Ø G	Ø R	C	D	H	App.W
	inch	DN	mm	mm	mm	mm	mm	mm	kg
	2	50	152,4	120,6	92	19,1	177,8	140	13
	2 1/2	65	177,8	139,7	104,8	22,3	190,5	165	19
	3	80	190,5	152,4	127	23,9	203,2	170	31
	4	100	228,6	190,5	157,2	23,9	228,6	200	37
	6	150	279,4	241,3	215,9	25,4	393,7	280	110
	8	200	342,9	298,4	269,9	28,6	457,2	315	200
	10	250	406,4	362	323,8	30,2	533,4	385	390
	12	300	482,6	431,8	381	31,8	609,6	600	585
ASA 300 Figure V 5120	ÖLÇÜ / SIZE		Ø B	Ø G	Ø R	C	D	H	App.W
	inch	DN	mm	mm	mm	mm	mm	mm	kg
	2	50	165,1	127	92	22,4	215,9	140	22
	2 1/2	65	190,5	149,3	104,8	25,4	241,3	165	30
	3	80	209,6	168,3	127	28,4	282,6	200	48
	4	100	254	200	157,2	31,8	304,8	210	54
	6	150	317,5	269,8	215,9	36,6	403,2	270	126
	8	200	381	330,2	269,9	41,1	501,7	325	220
ASA 600 Figure V 5130	ÖLÇÜ / SIZE		Ø B	Ø G	Ø R	C	D	H	App.W
	inch	DN	mm	mm	mm	mm	mm	mm	kg
	2	50	165,1	127	92	25,4	292,1	160	24
	2 1/2	65	190,5	149,3	104,8	28,4	330,2	200	35
	3	80	209,6	168,3	127	31,8	355,6	200	54
	4	100	273	215,9	157,2	38,1	431,8	225	94
	6	150	355,6	292,1	215,9	47,8	558,8	355	209

Not: Ölçü, basınç sınıfı, bağlantı, model, gövde ve trim malzemesi seçimleri müşteri tarafından sipariş kodlarına göre yapılır.

Note: Dimensions, pressure class, connection type, model, body and trim materials are specified by purchaser according to the order codes.



DÖKÜM ÇELİK CHECK VALFLER

Cast Steel Check Valves

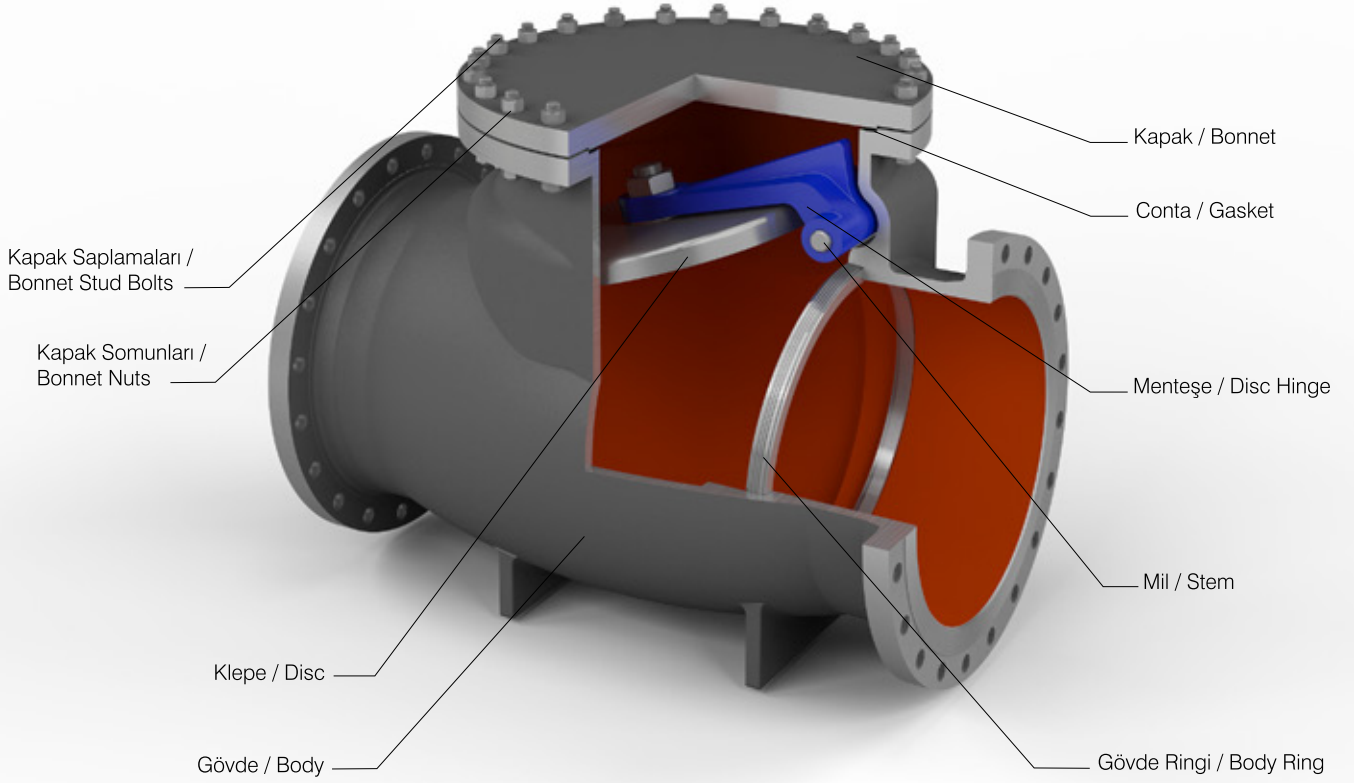
Bu tip vanalar, boru hattındaki akışın aksi yöne dönmesini önleyen vanalardır. Akış basıncı vana diskini açık tutar ve akış aksi yöne döndüğü zaman vana diskini kapanır. Check vanalar yatay boru hatlarında ve akış yönü yukarı doğru olan dikey boru hatlarında kullanılırlar. Akışa karşı gösterdiği direnç çok azdır. Akış hızı düşük olan boru hatları için en uygun vana tipidir.

These types of valves prevent flow and fully close in case the direction changes to reserve direction for any reason. The pressure difference in the desired direction opens and disc (or flap) which lets the fluid to flow with very little friction loss. They can be used in both horizontal or vertical lines. They are especially suitable for low flow rates.



ASA 150-ASA 300-ASA 600 ASA 900 DÖKÜM ÇELİK SWING CHECK VALFLER

Cast Steel Swing Check Valves Figure V 4010-V 4020-V 4030-V 4040



Design standard: API 6D&BS 1868&ASME B16.34
Face to face standard: ANSI B16.10
Flange dimensions are according to ANSI B16.5
Inspection and test standard: API 598, API 6D
Operating pressure-temperatures are according to ASME B16.34

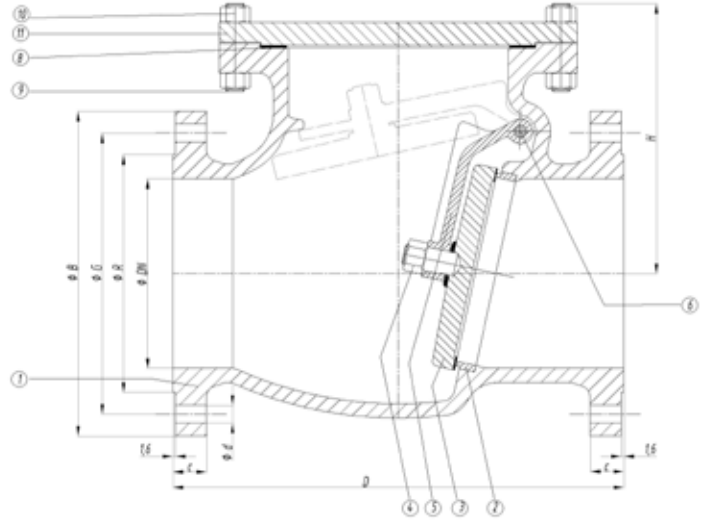
ASA 150-ASA 300-ASA 600 ASA 900 DÖKÜM ÇELİK SWING CHECK VALFLER

Cast Steel Swing Check Valves Figure V 4010- V 4020-V 4030-V 4040



MALZEME SPESİFİKASYONLARI / Material Specifications

PARÇA ADI / PART NAME	
1 GÖVDE Body	Cast Steel
2 GÖVDE RİNGİ Body Ring	Cast Steel
2a GÖVDE RİNG YÜZEYİ Body Ring Face	Stainless Steel
3 DİSK / KLAPE Disc	Cast Steel
4 DİSK YÜZEYİ Disc Face	Stainless Steel
5 MENTEŞE / Disk Kolu Disc Hinge	Cast Steel
6 MİL Hinge Pin	Stainless Steel
7 KÖRTAPA Plug	Carbon Steel
8 CONTA Gasket	Spiral Wound Gasket SWG SS.
9 KAP.SAPLAMALARI Bonnet-Stud Bolt	CrMo Steel
10 KAP.SAPL. SOMUNLARI Bonnet Stud Bolt Nut	Carbon Steel
11 KAPAK Bonnet	Cast Steel
12 İSİM PLAKASI Name Plate	Aluminium



ASA 150 Figure V 4010	ÖLÇÜ / SIZE		Ø B	C	D	Ø G	Ø R	H*	App.W
	inch	mm/DN	mm	mm	mm	mm	mm	mm	kg
	2	50	152	19,1	203,2	120,6	92	160	18
	2 ½	65	178	22,3	216	139,7	104,8	160	21
	3	80	190	23,9	241,3	152,4	127	170	30
	4	100	229	23,9	292,1	190,5	157,2	190	44
	5	125	254	23,9	330,2	215,9	185,7	240	63
	6	150	279	25,4	355,6	241,3	215,9	245	72
	8	200	343	28,6	495,3	298,4	269,9	300	131
	10	250	406	30,2	622,3	362	323,8	380	220
	12	300	483	31,8	698,5	431,8	381	430	280
	14	350	533	35,0	787,4	476,2	412,8	430	435
	16	400	597	36,6	863,6	539,8	469,9	465	565
	18	450	635	39,7	977,9	577,8	533,4	555	720
	20	500	699	42,9	977,9	635	584,2	595	850
	24	600	813	47,7	1295,4	749,3	692,2	660	1500
32	800	1060,4	55,5	1574,8	977,9	908	880	2285	

ASA 300 Figure V 4020	ÖLÇÜ / SIZE		Ø B	C	D	Ø G	Ø R	H	App.W
	inch	mm/DN	mm	mm	mm	mm	mm	mm	kg
	2	50	165	22,4	266,7	127	92	150	22
	2 ½	65	190	25,4	292,1	149,3	104,8	170	25
	3	80	210	28,4	317,5	168,2	127	195	45
	4	100	254	31,8	355,6	200	157,2	195	63
	6	150	318	36,6	444,5	269,8	215,9	280	127
	8	200	381	41,1	533,4	330,2	269,9	355	230
	10	250	444	47,8	622,3	387,4	323,8	420	295
	12	300	521	50,8	711,2	450,8	381	440	472

ASA 600 Figure V 4030	ÖLÇÜ / SIZE		Ø B	C	D	Ø G	Ø R	H	App.W
	inch	mm/DN	mm	mm	mm	mm	mm	mm	kg
	2	50	165	25,4	292,1	127	92	160	33
	2 ½	65	190	28,4	330,2	149,3	104,8	200	35
	3	80	210	31,8	355,6	168,2	127	200	42
	4	100	273	38,1	431,8	215,9	157,2	255	85
	6	150	356	47,8	558,8	292,1	215,9	340	210
	8	200	419	55,6	660,4	349,2	269,9	440	490
	10	250	508	63,5	787,4	431,8	323,8	495	520
	12	300	559	66,5	838,2	489	381	540	875
14	350	603	69,9	889	527	412,8	590	950	
16	400	686	76,2	990,6	603,2	469,9	700	1250	

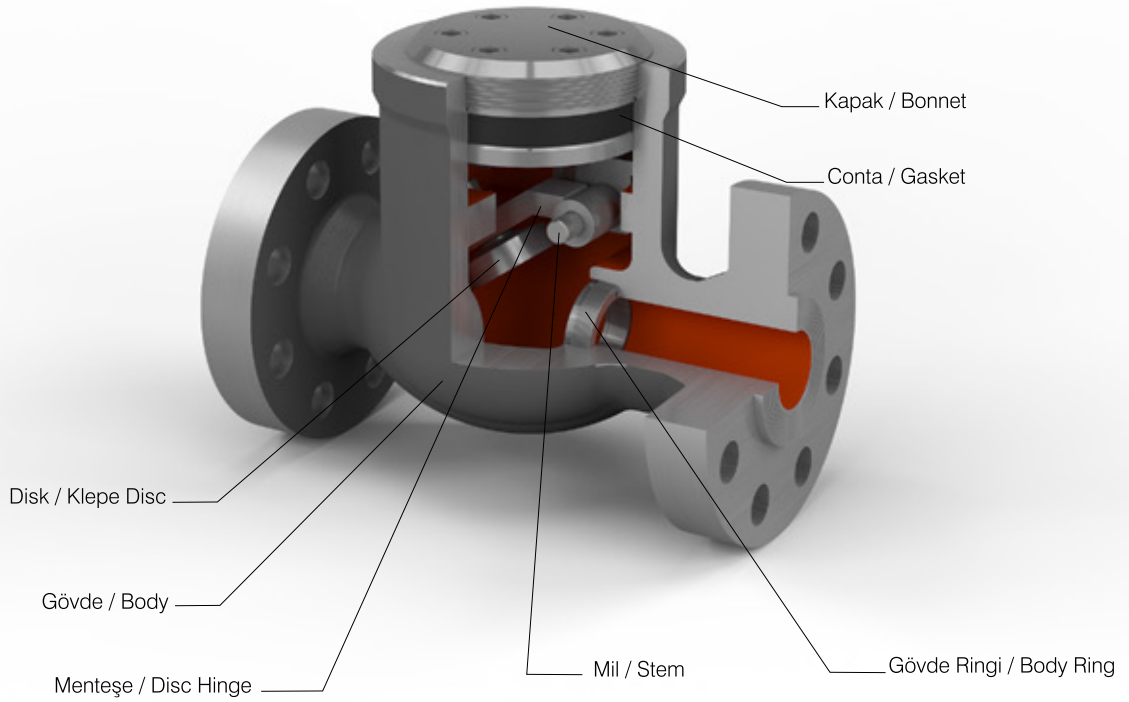
ASA 900 Figure V 4040	ÖLÇÜ / SIZE		Ø B	C	D	Ø G	Ø R	H	App.W
	inch	mm/DN	mm	mm	mm	mm	mm	mm	kg
	2	50	216	38,1	368,3	165,1	92	190	55
	2 ½	65	244	41,1	419,1	190,5	104,8	230	70
	3	80	241	38,1	381	190,5	127	250	90
	4	100	292	44,5	457,2	235	157,2	305	152

Not: Ölçü, basınç sınıfı, bağlantı, model, gövde ve trim malzemesi seçimleri müşteri tarafından sipariş kodlarına göre yapılır.
Note: Dimensions, pressure class, connection type, model, body and trim materials are specified by purchaser according to the order codes.



ASA 1500 DÖKÜM ÇELİK SWING CHECK VALFLER

Cast Steel Swing Check Valves Figure V 4050



Design standard: API 6D&BS 1868&ASME B16.34
Face to face standard: ANSI B16.10
Flange dimensions are according to ANSI B16.5
Inspection and test standard: API 598, API 6D
Operating pressure-temperatures are according to ASME B16.34

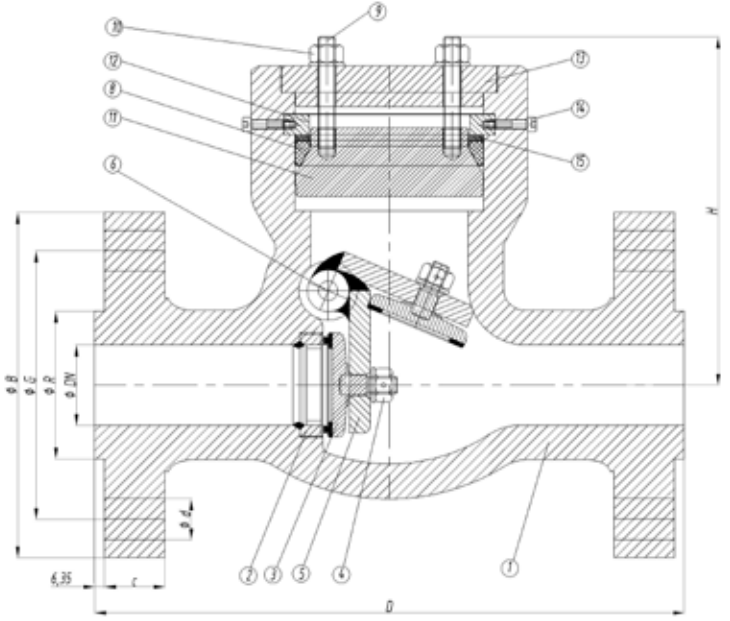
ASA 1500 DÖKÜM ÇELİK SWING CHECK VALFLER

Cast Steel Swing Check Valves Figure V 4050



MALZEME SPESİFİKASYONLARI / Material Specifications

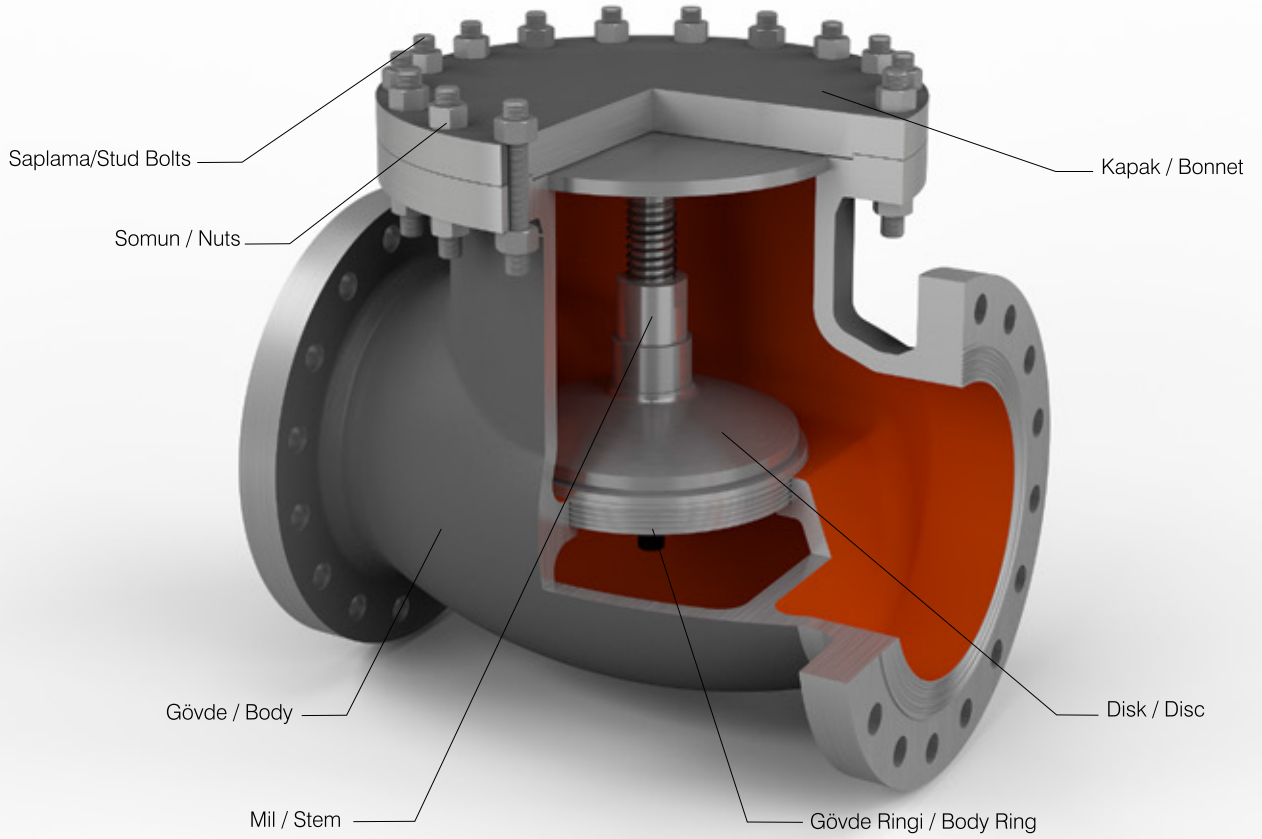
PARÇA ADI / PART NAME	
1 GÖVDE Body	Cast Steel
2 GÖVDE RİNGİ Body Ring	Cast Steel
2a GÖVDE RİNG YÜZEYİ Body Ring Face	Stainless Steel
3 DİSK / KLAPE Disc	Cast Steel
3a DİSK YÜZEYİ Disc Face	Stainless Steel
4 SOMUN Nut	Carbon Steel
5 MENTEŞE / Disk Kolu Disc Hinge	Cast Steel
6 MİL Hinge Pin	Stainless Steel
7 KÖRTAPA Plug	Carbon Steel
8 CONTA Gasket	Graphite
9 KAP. SAPLAMALARI Bonnet Stud - Bolt	CrMo Steel
10 KAP. SAPL. SOMUNLARI Bonnet Stud Bolt Nut	Carbon Steel
11 KAPAK Bonnet	Cast Steel
12 PARÇALI RİNG Segment Ring	Stainless Steel
13 ÇEKTİRME KAPAĞI Retaining Ring	Cast Steel
14 RİNG SABİTLEME CİVATASI Ring Fixing Bolt	CrMo Steel
15 ARA PUL Retainer	Stainless Steel
16 İŞİM PLAKASI Name Plate	Aluminium



ASA 1500 Figure V 4050	ÖLÇÜ / SIZE		Ø B	C	D	Ø G	Ø R	H	App.W
	inch	mm/DN	mm	mm	mm	mm	mm	mm	kg
	2	50	216	38,1	368,3	165,1	92	185	57
	2 ½	65	244	41,1	419,1	190,5	104,8	227	74
	3	80	267	47,8	469,9	203,2	127	205	115
	4	100	311	53,8	546,1	241,3	157,2	220	170



ASA 150-ASA 300-ASA 600 DÖKÜM ÇELİK LIFT CHECK VALFLER Cast Steel Lift Check Valves Figure V 4110-V 4120-V 4130



Design standard: API 6D&BS 1873&ASME B16.34
Face to face standard: ANSI B16.10
Flange dimensions are according to ANSI B16.5
Inspection and test standard: API 598, API 6D

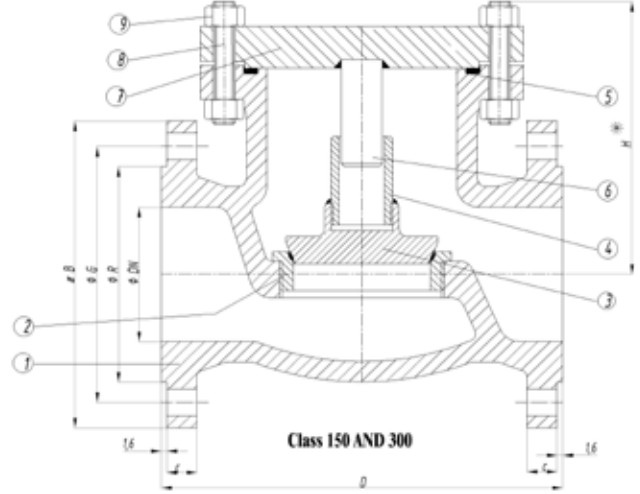
ASA 150-ASA 300-ASA 600 DÖKÜM ÇELİK LIFT CHECK VALFLER

Cast Steel Lift-Check Valves Figure V 4110-V 4120-V 4130



MALZEME SPESİFİKASYONLARI / Material Specifications

PARÇA ADI / PART NAME		
1	GÖVDE Body	Cast Steel
2a	GÖVDE RİNGİ Seat Ring	Cast Steel
2	GÖVDE RİNG YÜZEYİ Body Ring Face	Stainless Steel
3	DİSK Disc	Cast Steel
3a	DİSK YÜZEYİ Disc Face	Stainless Steel
4	DİSK SOMUNU Disc Nut	Stainless Steel
5	CONTA Gasket	Spiral Wound Gasket SWG SS
6	MİL Stem	Stainless Steel
7	KAPAK Bonnet	Steel
8	KAPAK SAPLAMASI Bonnet Stud Bolt	CR Mo Steel
9	KAPSAPL.SOMUNLARI Bonnet Bolt Nut	Carbon Steel
10	İSİM PLAKASI Name Plate	Aluminium

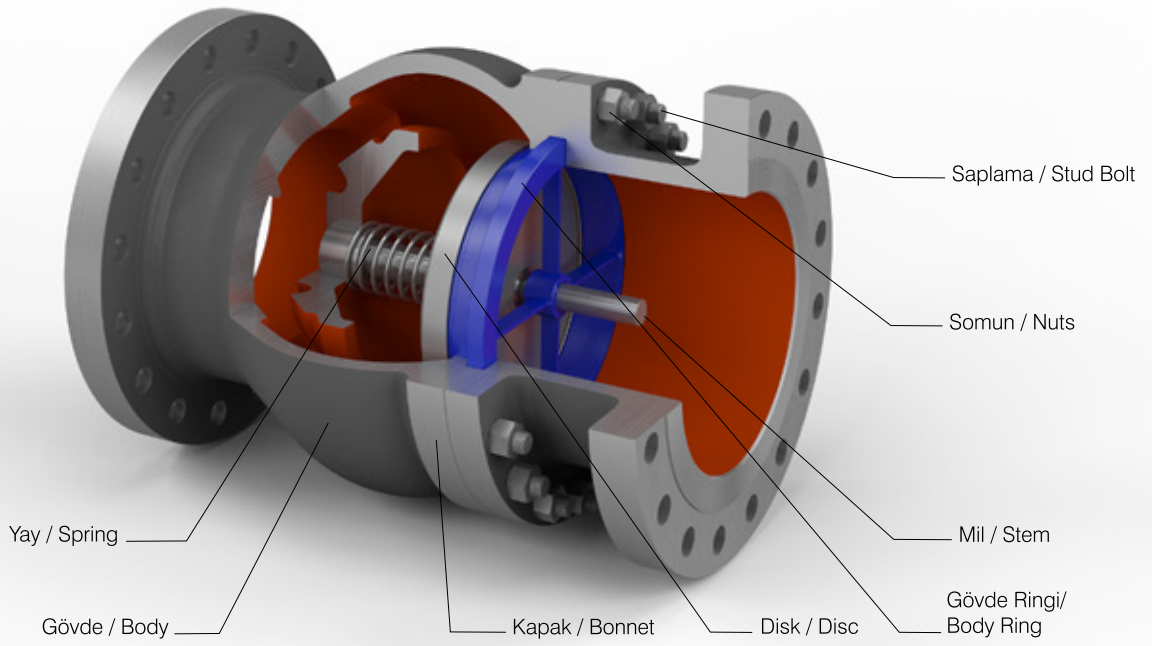


ASA 150 Figure V4110	ÖLÇÜ / SIZE		Ø B	C	D	Ø G	Ø R	H*	App.W
	inch	mm	mm	mm	mm	mm	mm	mm	kg
	2	50	152	19,1	203,2	120,6	92	135	15
	2 1/2	65	178	22,3	216	139,7	104,8	150	25
	3	80	190	23,9	241,3	152,4	127	185	36
	4	100	229	23,9	292,1	190,5	157,2	220	48
	6	150	279	25,4	406,4	241,3	215,9	230	85
	8	200	343	28,6	495,3	298,4	269,9	295	135
	10	250	406	30,2	622,3	362	323,8	330	235
	12	300	483	31,8	698,5	431,8	381	370	325
ASA 300 Figure V4120	ÖLÇÜ / SIZE		Ø B	C	D	Ø G	Ø R	H*	App.W
	inch	mm	mm	mm	mm	mm	mm	mm	kg
	2	50	165	22,4	266,7	127	92	130	22
	2 1/2	65	190	25,4	292,1	149,3	104,8	155	35
	3	80	210	28,4	317,5	168,2	127	195	50
	4	100	254	31,8	355,6	200	157,2	220	75
	6	150	318	36,6	444,5	269,8	215,9	290	145
	8	200	381	41,1	558,8	330,2	269,9	325	225
	10	250	445	47,8	622,3	387,4	323,8	602	361
	12	300	521	50,8	711,2	450,8	381	708	475
ASA 600 Figure V 4130	ÖLÇÜ / SIZE		Ø B	C	D	Ø G	Ø R	H*	App.W
	inch	mm	mm	mm	mm	mm	mm	mm	kg
	2	50	165	25,4	292,1	127	92	165	28
	2 1/2	65	190	28,4	330,2	149,3	104,8	200	50
	3	80	210	31,8	355,6	168,2	127	215	60
	4	100	273	38,1	431,8	215,9	157,2	260	130
	6	150	356	47,8	558,8	292,1	215,9	325	240



ASA 300 DÖKÜM ÇELİK SILENT CHECK VALFLER

Cast Steel Silent-Check Valves Figure V 4310



Design standard: API 6D&BS 1868&ASME B16.34
Face to face standard: ANSI B16.10
Flange dimensions are according to ANSI B16.5
Inspection and test standard: API 598, API 6D

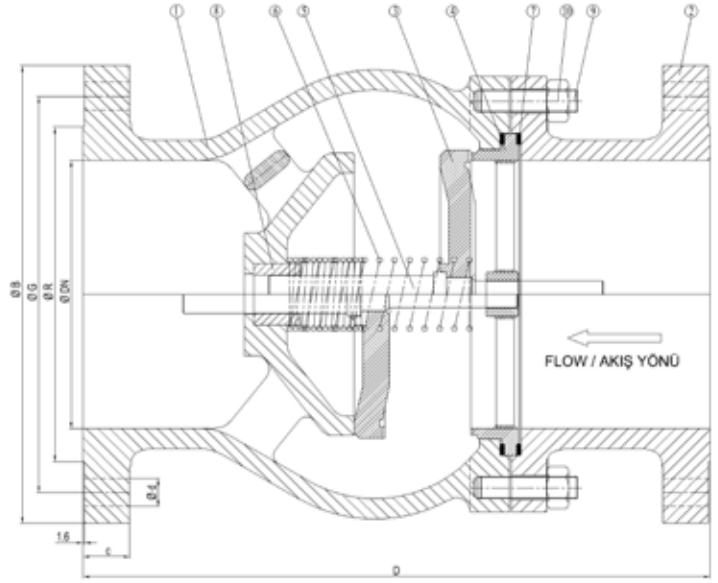
ASA 300 DÖKÜM ÇELİK SILENT CHECK VALFLER

Cast Steel Silent-Check Valves Figure V 4310



MALZEME SPESİFİKASYONLARI / Material Specifications

PARÇA ADI / PART NAME		
1	GÖVDE Body	Cast Steel
2	KAPAK Bonnet	Cast Steel
3	DİSK Disc	Cast Steel
3a	DİSK YÜZEYİ Disc Face	Stainless Steel
4	GÖVDE RİNGİ Seat Ring	Cast Steel
4a	GÖVDE RİNG YÜZEYİ Body Ring Face	Stainless Steel
5	MİL Stem	Stainless Steel
6	YAY Spring	Stainless Steel
7	CONTA Gasket	Spiral Wound Gasket SWG SS
8	BURÇ Bonnet Stud Bolt	Stainless Steel
9	KAPAK SAPLAMASI Bonnet Stud Bolt	CR Mo Steel
10	KAPSAPL.SOMUNLARI Bonnet Bolt Nut	Carbon Steel
11	İSİM PLAKASI Name Plate	Aluminium



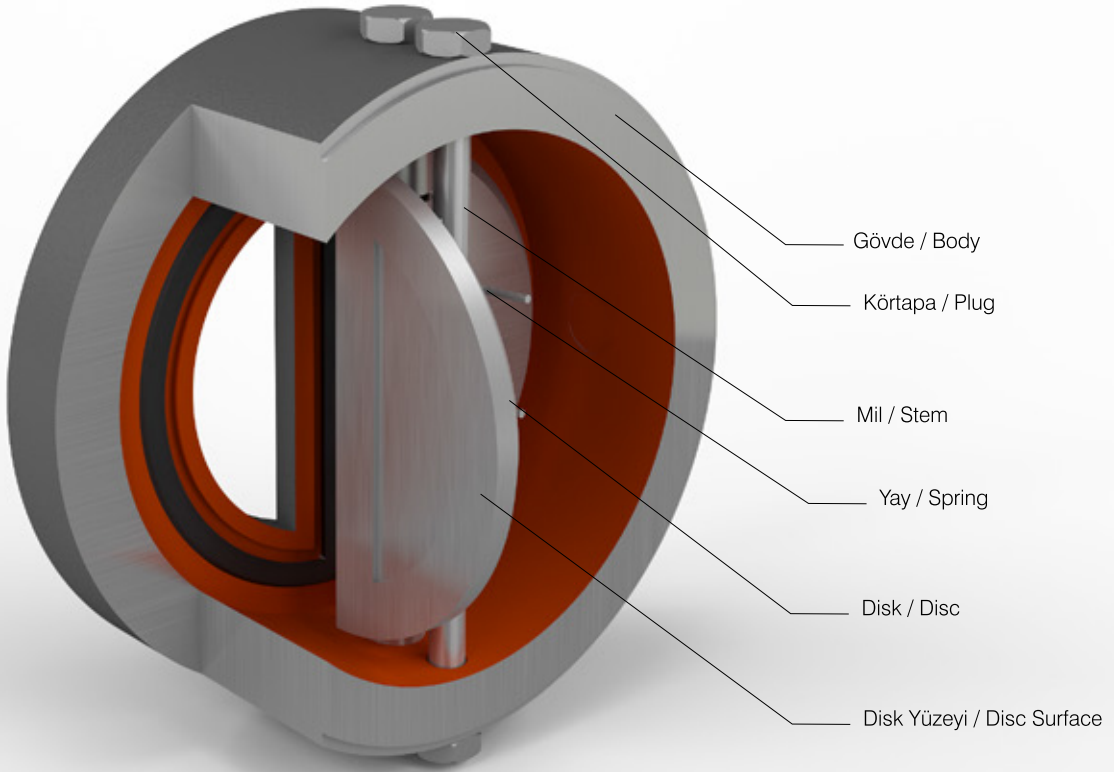
Class 300 lb. Figure V4310	ÖLÇÜ / SIZE		Ø B	C	D	Ø G	Ø R	App.W
	inch	mm	mm	mm	mm	mm	mm	kg
	2	50	165	22,4	266,7	127	92	28
	2 1/2	65	190	25,4	292,1	149,3	104,8	33
	3	80	210	28,4	317,5	168,2	127	35
	4	100	254	31,8	355,6	200	157,2	70
	6	150	318	36,6	444,5	269,8	215,9	150
	8	200	381	41,1	533,4	330,2	269,9	162
	10	250	444	47,8	622,2	387,4	323,8	320
	12	300	521	50,8	711,2	450,8	381	359
	14	350	584	53,8	838,2	514,4	412,8	548

Not: Ölçü, basınç sınıfı, bağlantı, model, gövde ve trim malzemesi seçimleri müşteri tarafından sipariş kodlarına göre yapılır.

Note: Dimensions, pressure class, connection type, model, body and trim materials are specified by purchaser according to the order codes.



ASA 150 DÖKÜM ÇELİK ÇİFT PLAKALI WAFER CHECK VALFLER Cast Steel Dual Plate Wafer Check Valves Figure V 4210



Design standard: API 6D&BS 1868&ASME B16.34

Face to face standard: ANSI B16.10

Flange dimensions are according to ANSI B16.5

Inspection and test standard: API 598, API 6D

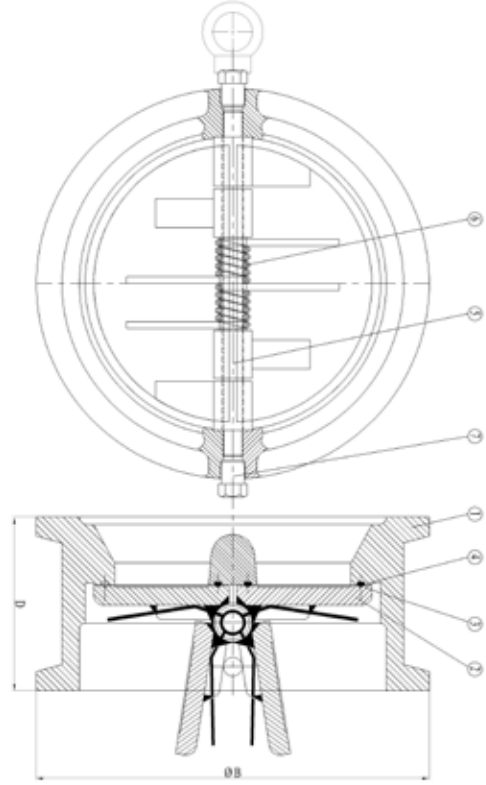
ASA 150 DÖKÜM ÇELİK ÇİFT PLAKALI WAFLER CHECK VALFLER

Cast Steel Dual Plate Wafer Check Valves Figure V 4210



MALZEME SPESİFİKASYONLARI / Material Specifications

PARÇA ADI / PART NAME		
1 GÖVDE Body	Cast Steel	
2 DİSK Disc	Steel	
3 DİSK YÜZEYİ Disc Surfaces	Stainless Steel	
4 SEAT YÜZEYİ Seat Surfaces	Stainless Steel or Resilient Seat (Viton,NBR...)	
5 MİL Stem	Stainless Steel	
6 YAY Spring	Stainless Steel	
7 KÖRTAPA Plug	Carbon Steel	
8 İSİM PLAKASI Name Plate	Aluminium	



ASA 150 Figure V2300	ÖLÇÜ / SIZE		Ø B	D	App.W
	inch	mm	mm	mm	kg
	2	50	102	60	2
	2 1/2	65	120	67	3
	3	80	134	73	4
	4	100	171,5	73	7
	6	150	219	98	16
	8	200	276	127	27
	10	250	336	146	42
	12	300	407	181	69
	14	350	447	184	89
	16	400	511	191	127
	18	450	546	203	138
	20	500	603	219	163
	24	600	714	222	250
	28	700	831	282	430
	30	750	882	305	490
	36	900	1045	368	788





DÖKÜM ÇELİK GLOBE VALFLER

Cast Steel Globe Valves

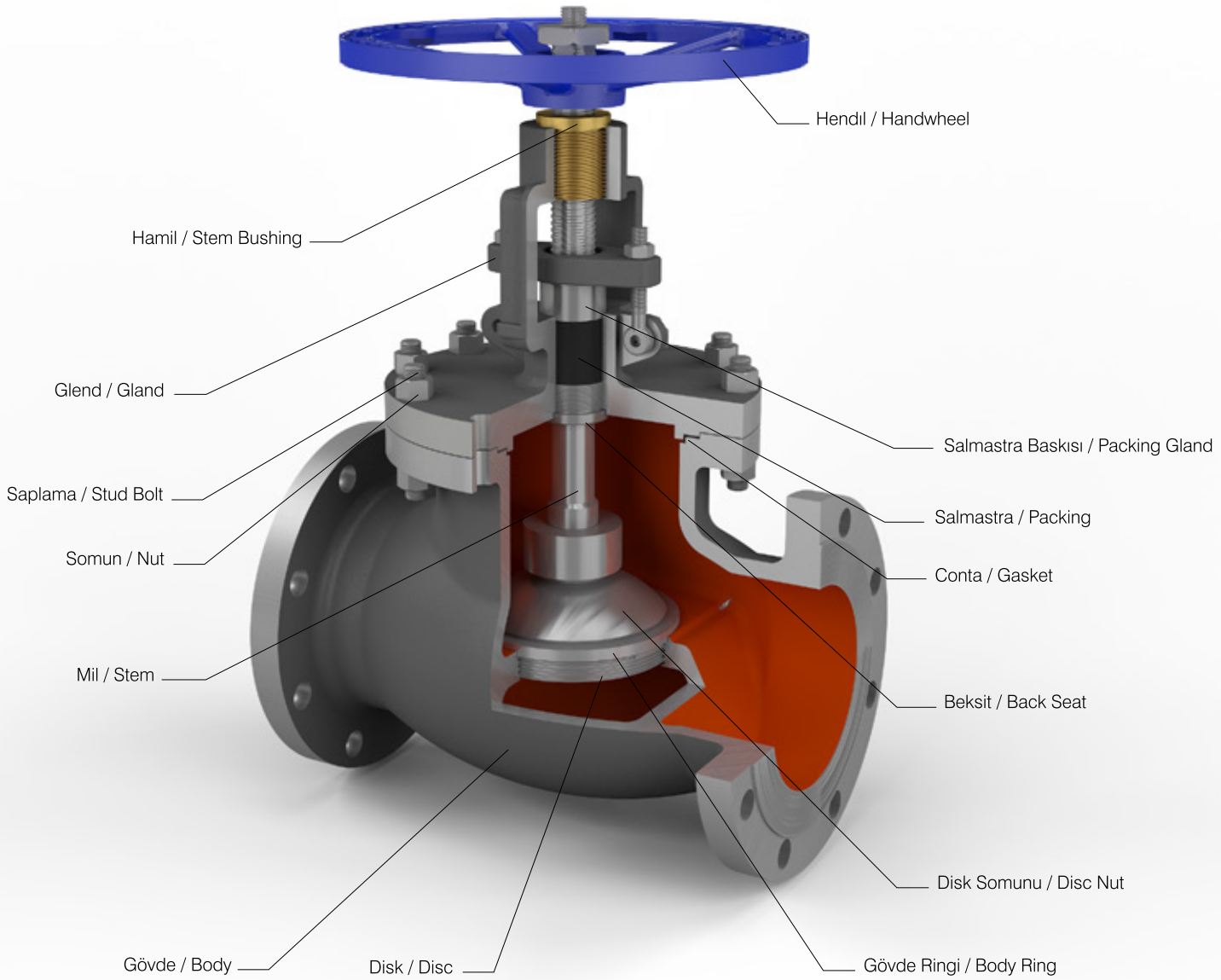
Bu tip vanalar, akış miktarını ayarlamak veya başka bir deyimle akışı boğma işlemi için kullanılırlar. Bu vanalarda akış kontrolü kısa aralıklar ile yapılabilir. Globe vanalarda boğma işlemi ile basıncını %20 den fazla düşürmekten kaçınmak gerekir. Basıncın fazla düşürülmesi sesli bir titreşime ve bunun sonucunda vana ve boru donanımının hasarına neden olabilir.

These types of valves are used to regulate or to throttle the flow. Flow control in these valves can be made by small increments. Pressure drop obtained by throttling should not go over %20 because it can lead to noisy vibrations consequently to mechanical failures in the valve and piping system.



DÖKÜM ÇELİK GLOBE VALFLER

Cast Steel Globe Valves



Design standard: BS 1873&ASME B16.34
Face to face standard: ANSI B16.10
Flange dimensions are according to ANSI B16.5
Inspection and test standard: API 598

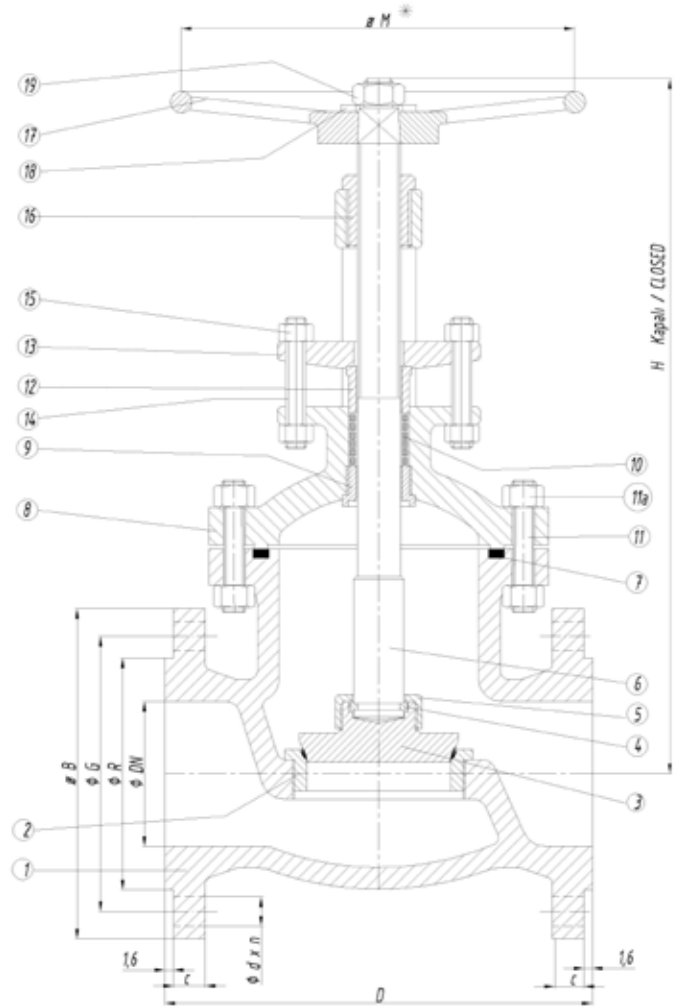
DÖKÜM ÇELİK GLOBE VALFLER

Cast Steel Globe Valves



MALZEME SPESİFİKASYONLARI / Material Specifications

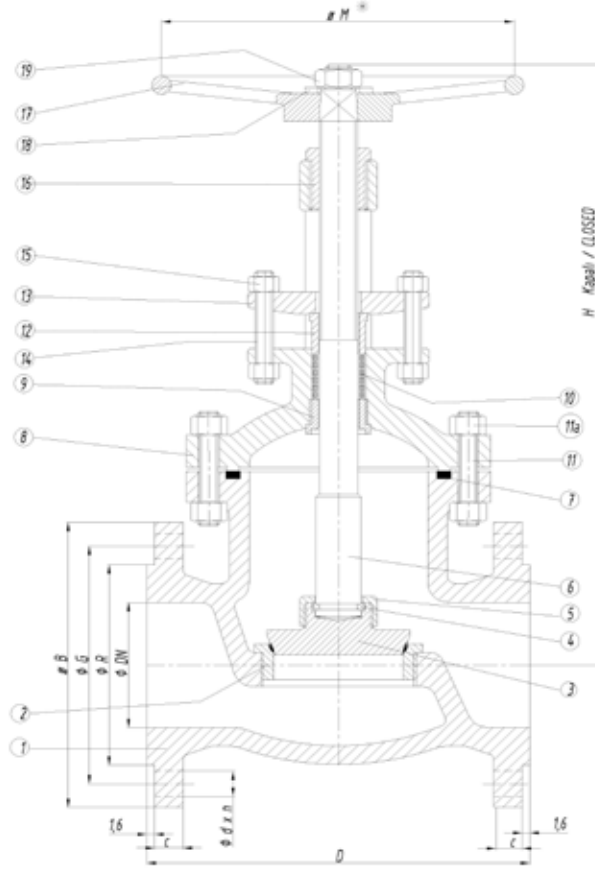
PARÇA ADI / PART NAME		
1	GÖVDE Body	Cast Steel
2	GÖVDE RİNGİ Body Ring	Carbon Steel
2a	GÖVDE RİNGİ YÜZEYİ Body Ring Face	Stainless Steel
3	DİSK Disc	Cast Steel
3a	DİSK YÜZEYİ Disc Face	Stainless Steel
4	YARIMAY PUL Washer	Stainless Steel
5	DİSK SOMUNU Disc Nut	Stainless Steel
6	MİL Stem	Stainless Steel
7	CONTA Gasket	SS Spiral Wound Gasket (SWG)
8	KAPAK Bonnet	Cast Steel
9	BEKSİT RİNGİ Back Seat Ring	Stainless Steel
10	SALMASTRA Packing	Graphite
11	KAP. SAPLAMALARI Bonnet Stud - Bolt	CrMo Steel
11a	KAP. SAPL. SOMUNLARI Bonnet Stud Nut	Carbon Steel
12	SALMASTRA BASKISI Packing Gland	Stainless Steel
13	GLEND Gland	Cast Steel
14	GLEND SAPLAMASI Gland Bolt	Stainless Steel
15	HAMİL (MİL BURCU) Stem Bushing	Carbon Steel
16	HENDİL Handwheel	Ductile Iron
17	HENDİL PULU Handwheel Washer	Steel
18	HENDİL SOMUNU Handwheel Nut	Steel
19	GRESÖRLÜK Grease Fitting	Steel
20	İSİM PLAKASI Name Plate	Aluminium





ASA150-ASA 300 DÖKÜM ÇELİK GLOBE VALFLER

Cast Steel Globe Valves Figure V 3010-V 3020

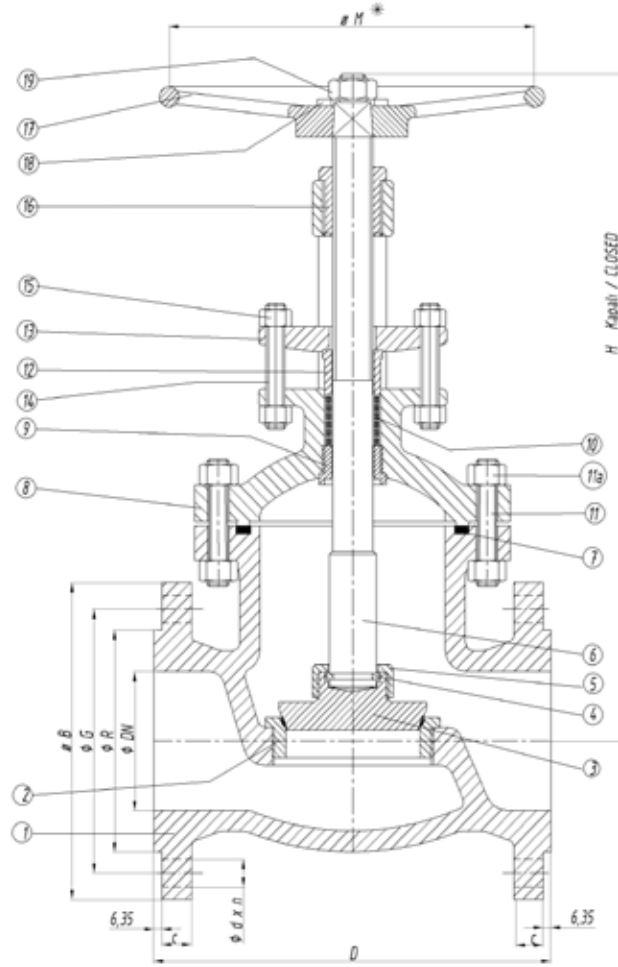


ASA 150 Figure V 3010	ÖLÇÜ/SIZE		Ø B	Ø G	Ø R	C	Ø dxn	D	H	Ø M*	App. W
	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
	2	50	152,4	120,6	92	19,1	19 x 4	203,2	350	200	22
	2 ½	65	177,8	139,7	104,8	22,3	19 x 4	216	385	230	27
	3	80	190,5	152,4	127	23,9	19 x 4	241,3	400	230	38
	4	100	228,6	190,5	157,2	23,9	19 x 8	292,1	525	250	60
	5	125	254	215,9	185,7	23,9	22,2 x 8	355,6	530	300	80
	6	150	279,4	241,3	215,9	25,4	22,2 x 8	406,4	600	350	94
	8	200	342,9	298,4	269,9	28,6	22,2 x 8	495,3	690	400	180
	10	250	406,4	362	323,8	30,2	25,4 x 12	622,3	745	500	270
	12	300	482,6	431,8	381	31,8	25,4 x 12	698,5	810	500	430
	14	35	533,4	476,2	412,8	35	28,5 x 12	787,4	960	550	500

ASA 300 Figure V 3020	ÖLÇÜ/SIZE		Ø B	Ø G	Ø R	C	Ø dxn	D	H	Ø M*	App. W
	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
	2	50	165	127	92	22,4	19 x 8	266,7	350	230	27
	2 ½	65	190	149,3	104,8	25,4	22,2 x 8	292,1	380	250	38
	3	80	210	168,3	127	28,4	22,2 x 8	317,5	460	250	60
	4	100	254	200	157,2	31,8	22,2 x 8	355,6	580	350	90
	6	150	318	269,8	215,9	36,6	22,2 x 12	444,5	675	400	122
	8	200	381	330,2	269,9	41,1	25,4 x 12	558,8	780	500	275
	10	250	445	387,4	323,8	47,8	28,5 x 16	622,3	1150	500	450
	12	300	521	450,8	381	50,8	31,8 x 16	711,2	940	500	600
	16	400	648	571,5	469,9	57,2	35 x 20	863,6	1212	500	1150

ASA 600-ASA 900 DÖKÜM ÇELİK GLOBE VALFLER

Cast Steel Globe Valves Figure V 3030-V 3040



ASA 600 Figure V 3030	ÖLÇÜ/SIZE		Ø B	Ø G	Ø R	C	Ø d x n	D	H	Ø M*	App. W
	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
	2	50	165,1	127	92	25,4	19 x 8	292,1	400	230	38
	2 ½	65	190,5	149,3	104,8	28,4	22,2 x 8	330,2	450	250	60
	3	80	209,6	168,3	127	31,8	22,2 x 8	355,6	520	300	65
	4	100	273	215,9	157,2	38,1	25,4 x 8	431,8	620	500	125
	6	150	355,6	292,1	215,9	47,8	28,5 x 12	558,8	900	500	298
	8	200	419,1	349,2	269,9	55,6	31,8 x 12	660,4	990	700	550
	10	250	508	431,8	323,8	63,5	35 x 16	787,4	1290	1400	730

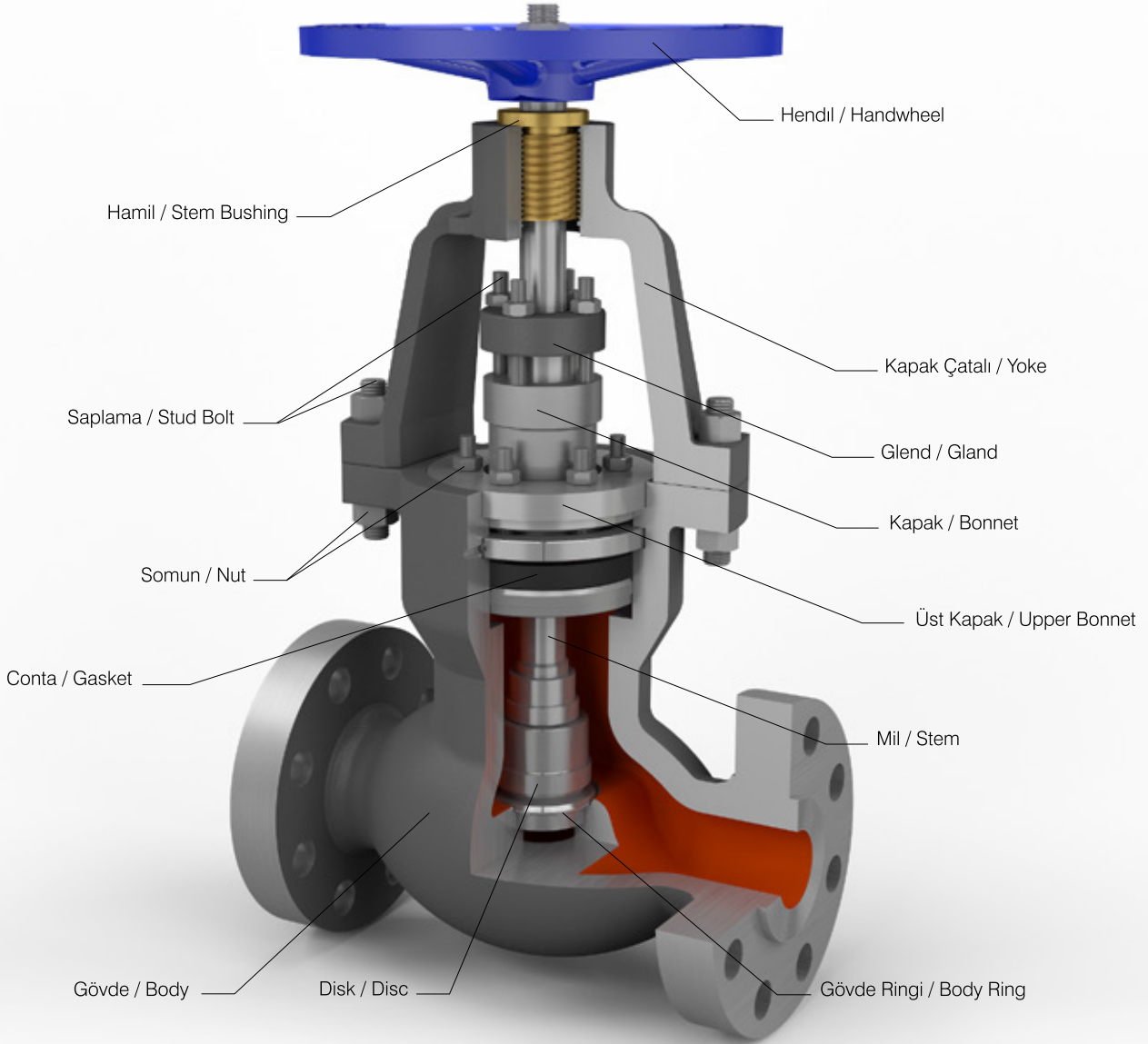
ASA 900 Figure V 3040	ÖLÇÜ/SIZE						D	D1	App. W			
	inch	mm	Ø B	Ø G	Ø R	C	Ø d _{xn}	Raised Face	Ring Joint	H*	Ø M*	kg
	2	50	215,9	165,1	92	38,1	25,4 x 8	368,3	371,5	560	300	90
	2 ½	65	244,4	190,5	104,8	41,1	28,5 x 8	419,1	422,3	600	350	118
	3	80	241,3	190,5	127	38,1	25,4 x 8	381	384,2	620	350	130
	4	100	292,1	235	157,2	44,5	31,8 x 8	457,2	460,4	720	450	185
	6	150	381	317,5	215,9	55,6	31,8 x 12	609,6	612,8	940	500	372

Not: Ölçü, basınç sınıfı, bağlantı, model, gövde ve trim malzemesi seçimleri müşteri tarafından sipariş kodlarına göre yapılır.

Note: Dimensions, pressure class, connection type, model, body and trim materials are specified by purchaser according to the order codes.



ASA 1500 DÖKÜM ÇELİK GLOBE VALFLER Cast Steel Globe Valves Figure V 3050



Design standard: BS 1873&ASME B16.34
Face to face standard: ANSI B16.10
Flange dimensions are according to ANSI B16.5
Inspection and test standard: API 598

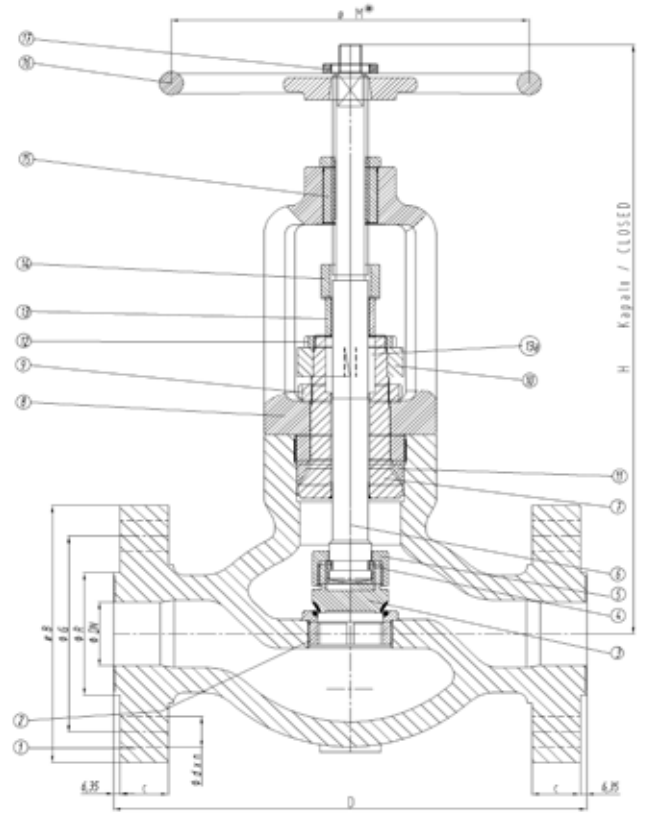
ASA 1500 DÖKÜM ÇELİK GLOBE VALFLER

Cast Steel Globe Valves Figure V 3050



MALZEME SPESİFİKASYONLARI / Material Specifications

PARÇA ADI / PART NAME	
1 GÖVDE Body	Cast Steel
2 GÖVDE RİNGİ Body Ring	Carbon Steel
2a GÖVDE RİNG YÜZEYİ Body Ring Face	Stainless Steel
3 DİSK Disc	Cast Steel
3a DİSK YÜZEYİ Disc Seat Face	Stainless Steel
4 YARIMAY PUL Washer	Stainless Steel
5 DİSK SOMUNU Disc Nut	Stainless Steel
6 MİL Stem	Stainless Steel
7 KAPAK Bonnet	Steel
8 KAPAK ÇATALI Yoke	Cast Steel
9 KAPAK SOMUNU Bonnet Bolt	Steel
10 GLEND Gland	Cast Steel
11 CONTA Gasket	Stainless Steel
12 GLEND SOMUNU Gland Bolt	Steel
13 SALMASTRA BASKISI Packing Gland	Stainless Steel
13a SALMASTRA Packing	Non-Asb.Braided With Graphite
14 ÜST GLEND Top Gland	Cast Steel
15 HAMİL (MİL Burcu) Stem Bushing	Bronze
16 HENDİL Handwheel	Ductile Iron
17 HENDİL SOMUNU Handwheel Nut	Steel
18 GRESÖRLÜK Grease Fitting	Steel
19 İŞİM PLAKASI Name Plate	Aluminium

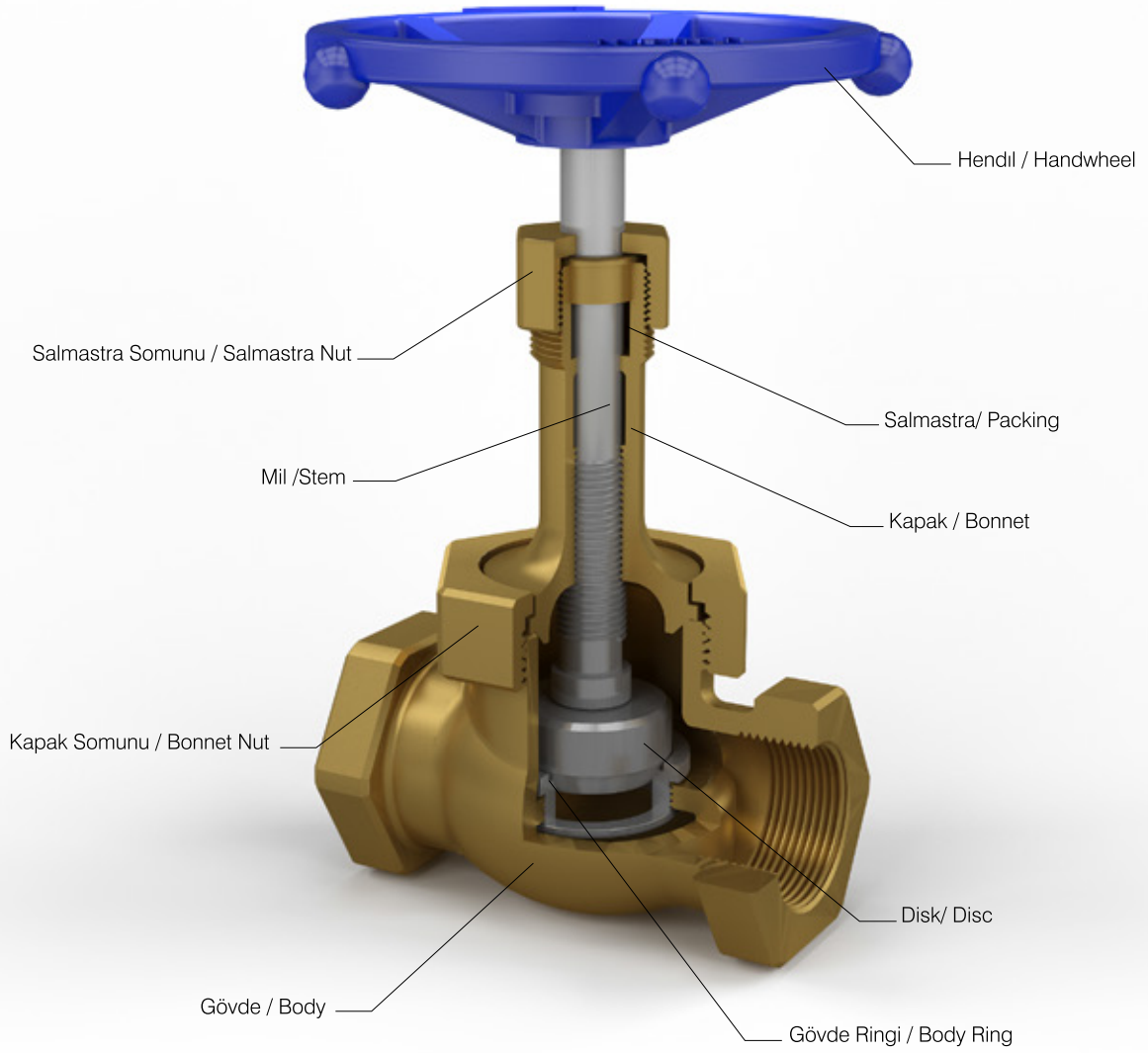


ASA 1500 Figure V 3050	ÖLÇÜ/SIZE							D	D1	App. W		
	İnch	mm	Ø B	Ø G	Ø R	C	Ø d x n	Raised Face	Ring Joint	H*	Ø M*	kg
	2	50	215,9	165,1	92	38,1	25,4 x 8	368,3	371,5	560	300	50
	2 ½	65	244,4	190,5	104,8	41,1	28,5 x 8	419,1	422,3	600	350	110
	3	80	266,7	203,2	127	47,8	31,8 x 8	469,9	473,1	615	350	130



ASA 300 DÖKÜM BRONZ GLOBE VALFLER

Cast Bronze Globe Valves Figure V 3200



Design standard: MSS SP 80&ASME B16.34
Face to face standard: ANSI B16.10
Flanş standardı: ANSI B16.5
Inspection and test standard: API 598

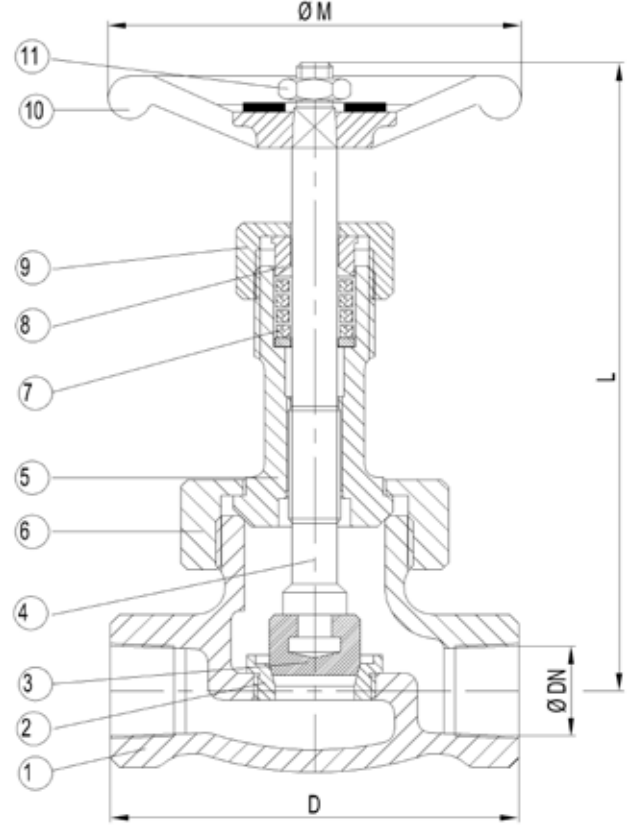
ASA 300 DÖKÜM BRONZ GLOBE VALFLER

Cast Bronze Globe Valves Figure V 3200



MALZEME SPESİFİKASYONLARI / Material Specifications

PARÇA ADI / PART NAME	
1 GÖVDE Body	Cast Bronze
2 GÖVDE RİNGİ Body Ring	Bronze or Stainless Steel
3 DISC Disc	Bronze or Stainless Steel
4 MİL Stem	Bronze or Stainless Steel
5 KAPAK Bonnet	Cast Bronze
6 KAPAK SOMUNU Bonnet	Bronze
7 SALMASTRA Packing	Graphite
8 SALM. BASKISI Packing Gland	Bronze or Stainless Steel
9 BASKI SOMUNU Gland Nut	Bronze
10 HENDİL Handwheel	Ductile Iron
11 HENDİL SOMUNU Handwheel Nut	Carbon Steel(Galvanized)
12 İSİM PLAKASI Name Plate	Aluminium



ASA 300 Figure V3200	ÖLÇÜ / SIZE		D	L	ØM	App.W
	inch	mm	mm	mm	mm	kg
	1/2	15	73	140	90	0,90
	3/4	20	90	190	90	1,59
	1	25	104	200	90	2,30
	1 1/4	32	120	210	130	3,5
	2	50	162	250	150	5





VANASAN

OKUMA

40H

DÖKÜM ÇELİK PLUG VALFLER

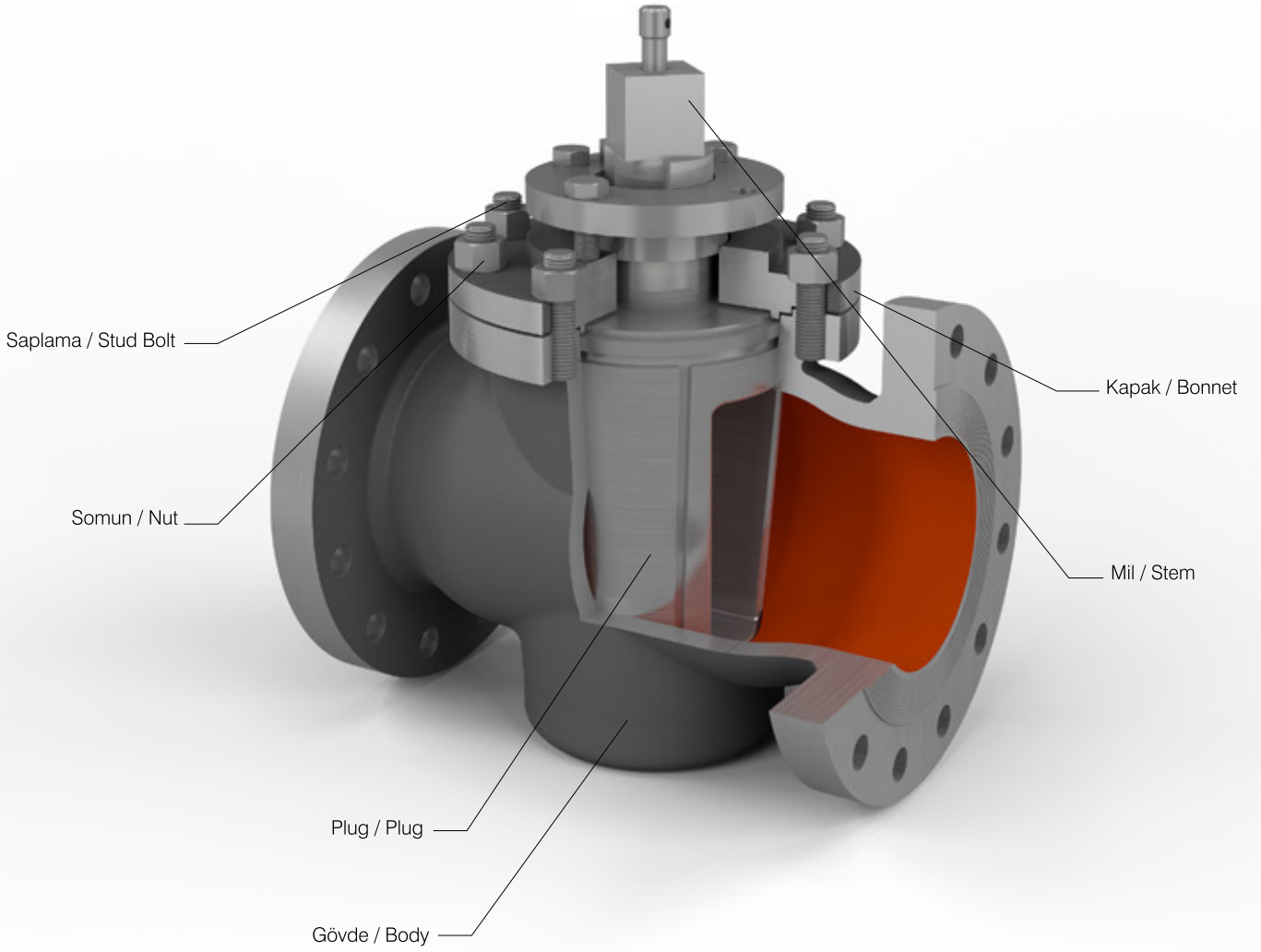
Cast Steel Plug Valves

Çeyrek turla açılıp kapanan vana türleri içerisinde yer alır. Akışkanın serbest ve rahat geçişini sağlar. Her iki yönde de çalışırlar. Yüksek sızdırmazlık sağlama amacından daha çok, by-pass vanası olarak kullanılmaları uygundur. Sızdırmazlık tapave yuvanın birbirine tam olarak oturması ile sağlanacağı için hattın temiz olması ve herhangi bir katı partikülün tapa ve yuva arasına girmemesi önemlidir.

These types of valves opening and closing by quarter turn. They provide high seal and flow capacity. They are operated in both directions. It is suitable to use as by-pass valve rather than providing high seal. Due to the seal is provided by seating of plug and housing together exactly, being clean of the pipeline and not to enter any kind of solid particle between plug and housing are important.



ASA 150-ASA 300 DÖKÜM ÇELİK YAĞLAMALI TİP PLUG VALFLER Cast Steel Lubricated Type Plug Valves Figure V 6010- V 6020



Design standard: API 6D&API 599&ASME B16.34

Face to face standard: ANSI B16.10

Flange dimensions are according to ANSI B16.5

Inspection and test standard: API 598&API 6D

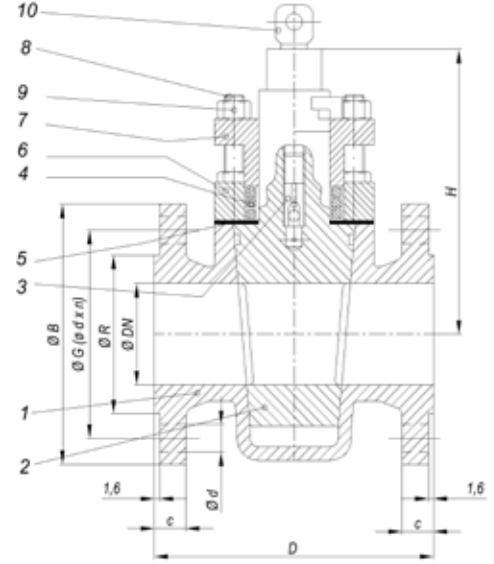
ASA 150-ASA 300 DÖKÜM ÇELİK YAĞLAMALI TİP PLUG VALFLER

Cast Steel Lubricated Type Plug Valves Figure V 6010- V 6020



MALZEME SPESİFİKASYONLARI / Material Specifications

PARÇA ADI / PART NAME	
1 GÖVDE Body	Cast Steel
2 PLUG Plug	Cast Steel
3 CHECK VALF Check Valve	Stainless Steel
4 SALMASTRA Packing	Graphite
5 CONTA Gasket	Spiral Wound Gasket
6 KAPAK Bonnet	Cast Steel
7 GLEND Gland	Cast Steel
8 KAPVE GLEND SAPLAMALARI Gland And Bonnet Stud Bolt	CrMo Steel
9 SOMUN Nut	Carbon Steel
10 YAĞLAMA FİTINGİ Lubricant Screw	Stainless Steel
11 İSİM PLAKASI Name Plate	Aluminum



Class 125 lb / Clas 150 lb Flat Face / Raised Face	ÖLÇÜ/SIZE		Ø B	ØG	ØR	Ød	C	D	H	App. W
	inch	mm	mm	mm	mm	mm	mm	mm	Short Pattern	kg
	1	25	108	79,4	50,8	15,8	14,3	140	110	6,5
	1 ½	40	127	98,4	73	15,8	17,5	165	135	15
	2	50	152	120,6	92,1	19	19,1	178	200	19
	3	80	191	152,4	127	19	23,9	203	260	36
	4	100	229	190,5	157,2	19	23,9	(228,6)(305)	295	82
	6	150	279	241,3	215,9	22,2	25,4	267	345	100
	8	200	343	298,4	269,9	22,2	28,6	292	385	215
	10	250	406	362	323,8	25,4	30,2	330,2	450	240
	12	300	483	431,8	381	25,4	31,8	356	550	350

ASA 150 Figure V 6010	ÖLÇÜ/SIZE		Ø B	ØG	ØR	Ød	C	D	H	App. W
	inch	mm	mm	mm	mm	mm	mm	mm	Regular Pattern	kg
	1	25	108	79,4	50,8	15,8	14,3	140	110	9
	1 ½	40	127	98,4	73	15,8	17,5	165	135	15
	2	50	152	120,6	92,1	19	19,1	203	200	23
	3	80	191	152,4	127	19	23,9	241	260	40
	4	100	229	190,5	157,2	19	23,9	305	295	125
	6	150	279	241,3	215,9	22,2	25,4	394	345	172
	8	200	343	298,4	269,9	22,2	28,6	457,2	385	227
	10	250	406	362	323,8	25,4	30,2	533,4	450	508
	12	300	483	431,8	381	25,4	31,8	609,6	550	653

ASA 300 Figure V 6020	ÖLÇÜ/SIZE		Ø B	ØG	ØR	Ød	C	D	H	App. W
	inch	mm	mm	mm	mm	mm	mm	mm	Short & Regular Pattern	kg
	1	25	124	88,9	50,8	19	17,5	159	110	11
	1 ½	40	156	114,3	73	22,2	20,6	191	135	18
	2	50	165	127	92,1	19	22,4	216	200	23
	3	80	210	168,3	127	22,2	28,4	283	260	45
	4	100	254	200	157,2	22,2	31,8	305	295	83
	6	150	318	269,9	215,9	22,2	36,6	403	-	145
	Short / Venturi Patt.									
	8	200	381	330,2	269,9	25,4	41,1	419	-	227
	10	250	444	387,4	323,8	28,5	47,8	457	-	415
	12	300	521	450,8	381	31,8	50,8	502	-	508

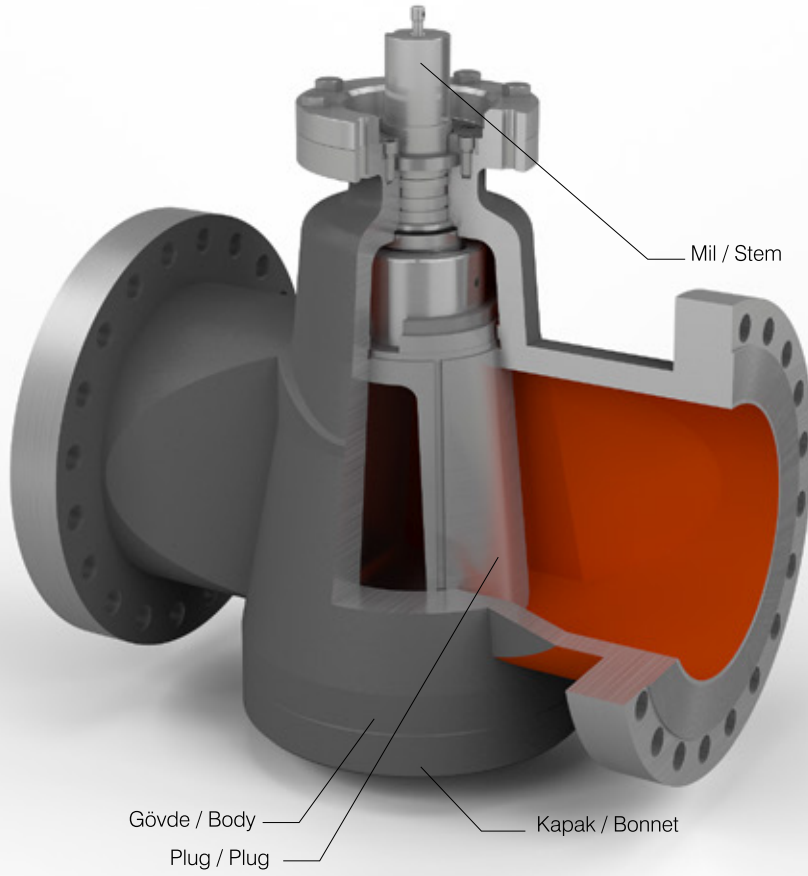
Not: Ölçü, basınç sınıfı, bağlantı, model, gövde ve trim malzemesi seçimleri müşteri tarafından sipariş kodlarına göre yapılır.

Note: Dimensions, pressure class, connection type, model, body and trim materials are specified by purchaser according to the order codes.



ASA 600 DÖKÜM ÇELİK YAĞLAMALI TİP PLUG VALFLER

Cast Steel Lubricated Type Plug Valves Figure V 6030



Design standard: API 6D&API 599&ASME B16.34
Face to face standard: ANSI B16.10
Flange dimensions are according to ANSI B16.5
Inspection and test standard: API 598&API 6D

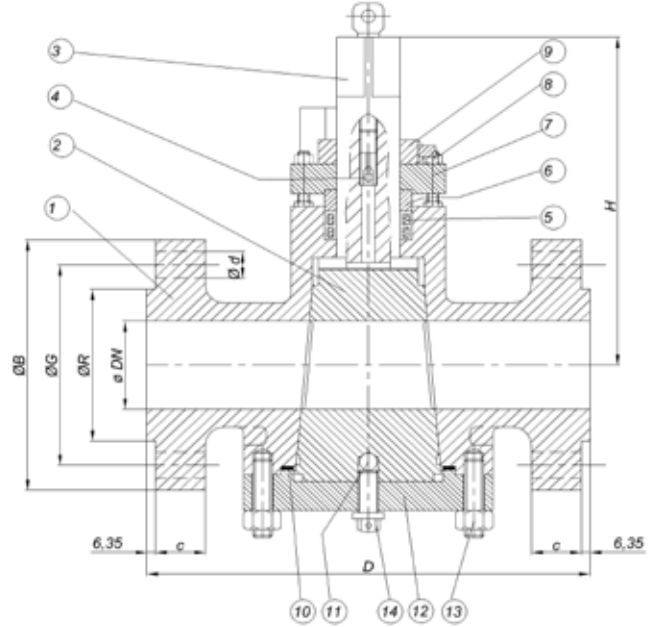
ASA 600 DÖKÜM ÇELİK YAĞLAMALI TİP PLUG VALFLER

Cast Steel Lubricated Type Plug Valves Figure V 6030



MALZEME SPESİFİKASYONLARI / Material Specifications

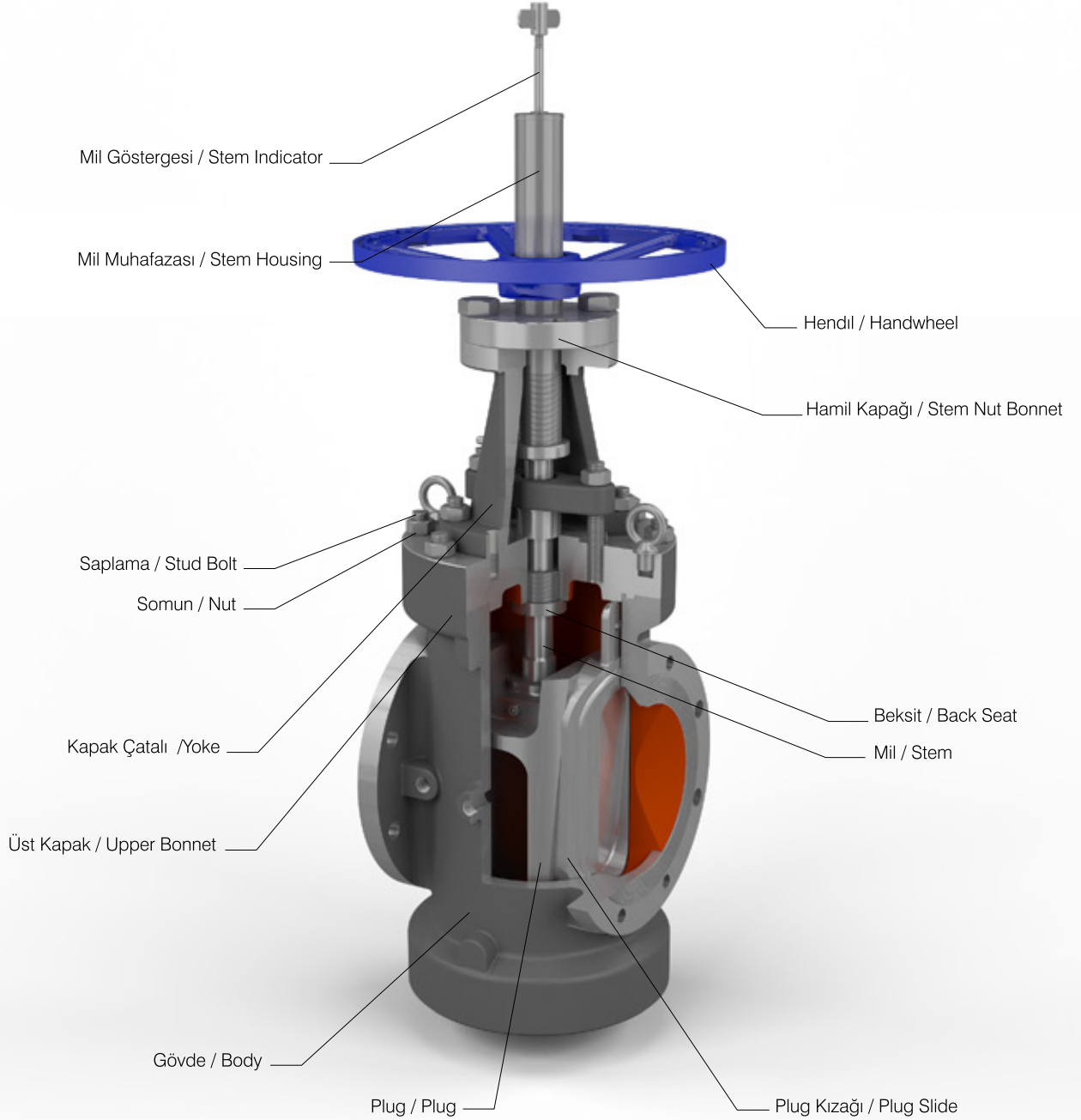
PARÇA ADI / PART NAME		
1 GÖVDE Body	Cast Steel	
2 PLUG Plug	Cast Steel	
3 MİL Stem	Stainless Steel	
4 CHECK VALF Check Valve	Stainless Steel	
5 SALMASTRA Packing	Graphite	
6 SALMASTRA BASKISI Packing Glend	Stainless Steel	
7 KAPAK Bonnet	Cast Steel	
8 KAP. SAPLAMALARI Bonnet Stud Bolt	CrMo Steel	
9 SIVIÇ Stop Washer	Carbon Steel	
10 CONTA Gasket	Spiral Wound Gasket	
11 KÜRE Ball	Stainless Steel	
12 ALT KAPAK Lower Bonnet	Carbon Steel	
13 KAP. SAPLAMALARI Bonnet Stud Bolt	CrMo Steel	
14 BASINÇ VİDASI Pressure Screw	Carbon Steel	



ASA 600 Figure V 6030	ÖLÇÜ/SIZE		Ø B	Ø G	Ø R	Ø d	C	D	H	App. W
	inch	mm	mm	mm	mm	mm	mm	mm	Regular&Venturi Pattern	kg
	2	50	165	127	92,1	19	25,4	292	128	28
	3	80	210	168,3	127	22,2	31,8	355,6	140	56
	4	100	273	215,9	157,2	25,4	38,1	431,8	196	95
	6	150	356	292,1	215,9	28,5	47,8	558,8	271	215
	8	200	419	349,2	269,9	38,1	55,6	660,4	324	290
	10	250	508	431,8	323,8	35	63,5	787,4	417	495
	12	300	559	489	381	35	66,5	838,2	493	628
	14	350	603	527	412,8	38,1	69,9	889	594	868
	16	400	686	603,2	469,9	41,1	76,2	990,6	2900	1300



ASA 150 DÖKÜM ÇELİK DBB YAĞLAMASIZ PLUG VALFLER Cast Steel DBB Non-Lubricated Plug Valves Figure V 6040



Design standard: API 6D&API 599&ASME B16.34
Face to face standard: ANSI B16.10
Flange dimensions are according to ANSI B16.5
Inspection and test standard: API 598&API 6D

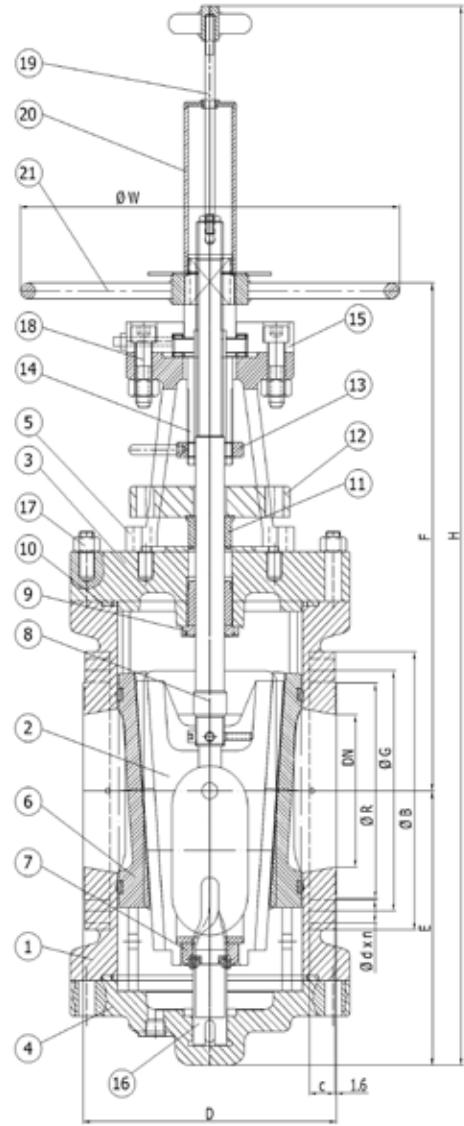
ASA 150 DÖKÜM ÇELİK DBB YAĞLAMASIZ PLUG VALFLER

Cast Steel DBB Non-Lubricated Plug Valves Figure V 6040



MALZEME SPESİFİKASYONLARI / Material Specifications

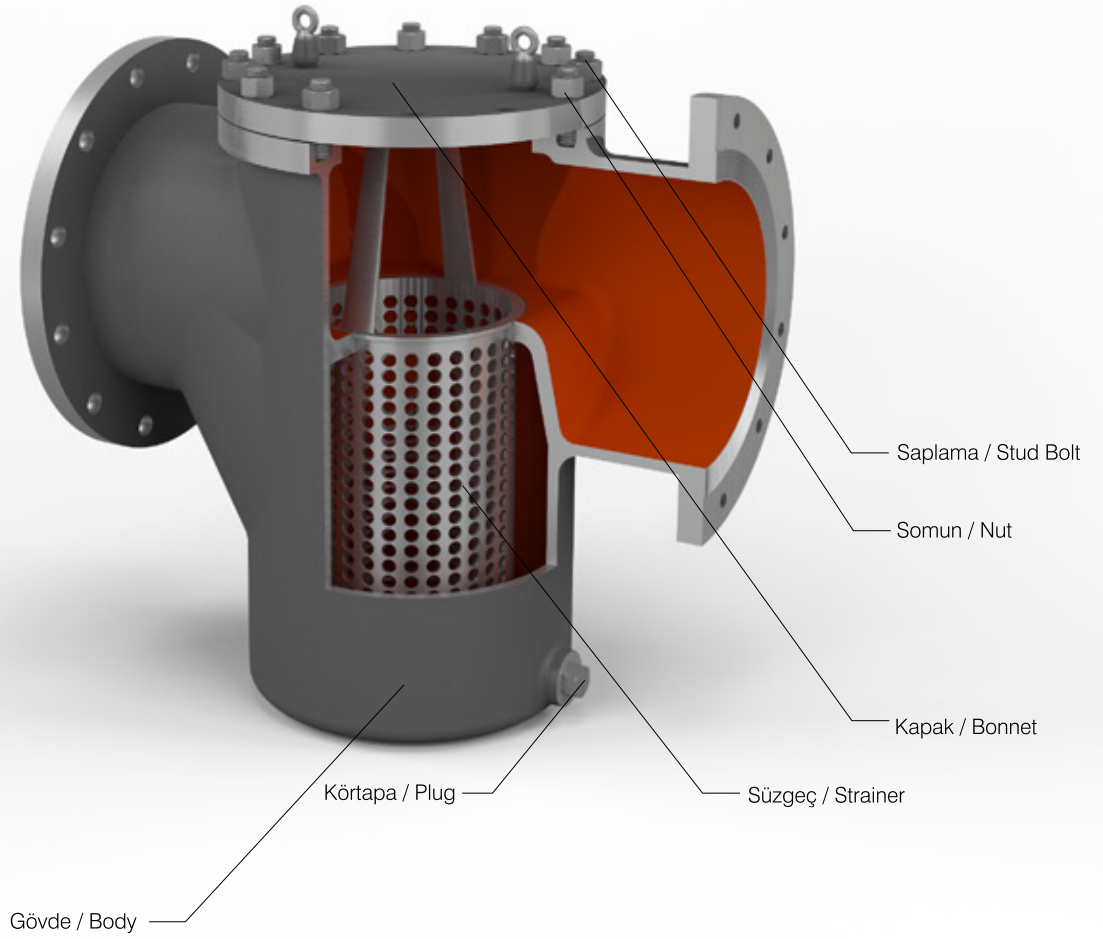
PARÇA ADI / PART NAME	
1 GÖVDE Body	Cast Steel
2 PLUG Plug	Cast Steel
3 ÜST KAPAK Upper Bonnet	Cast Steel
4 ALT KAPAK Lower Bonnet	Cast Steel
5 KAPAK ÇATALI Yoke	Carbon Steel
6 PLUG KIZAĞI Plug Slide	Carbon Steel + ENP + Viton GF
7 PLUG BURCU Plug Bushing	Stainlees Steel
8 MİL Stem	Stainlees Steel
9 BEKSİT RİNGİ Back Seat Ring	Stainlees Steel
10 CONTA Gasket	Graphite or Spiral Wound Gasket
11 SALMASTRA BASKISI Packing Gland	Stainlees Steel
12 GLEND Gland	Carbon Steel
13 POZİSYON GÖSTERGESİ Position Indicator	Stainlees Steel
14 HAMİL (MİL Burcu) Stem Bushing	Bronze
15 HAMİL KAPAĞI Stem Nut Bonnet	Carbon Steel
16 HELİS MİL Helix Trunnion	Stainless Steel
17 KAP. SAP. - SOMUN Bonnet Stud Bolt Nut	Carbon Steel
18 ALYANBAŞLI CİVATA Allen-Head Bolt	Carbon Steel
19 MİL GÖSTERGESİ Stem Indicator	Stainless Steel
20 MİL MUHAFAZASI Stem Housing	Carbon Steel
21 HENDİL Handwheel	Ductile Iron
22 İSİM PLAKASI Name Plate	Aluminium



ASA 150 Figure V 6040	ÖLÇÜ/SIZE		Ø B	Ø G	Ø R	C	Ø d	D	H	E	F	App.W
	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
	4	100	228,6	190,5	157,2	23,9	19	228,6	755	217	356	105
	6	150	279,4	241,3	215,9	25,4	22,2	267	1061	275	509	183
	8	200	343	298,4	269,9	28,6	22,2	292	1277	326,4	588	245



ASA 150-ASA 300 ASA 600 DÖKÜM ÇELİK
SEPET TİPİ PİSLİK TUTUCULAR
Cast Steel Basket Type Strainers Figure ST 8010-ST 8020

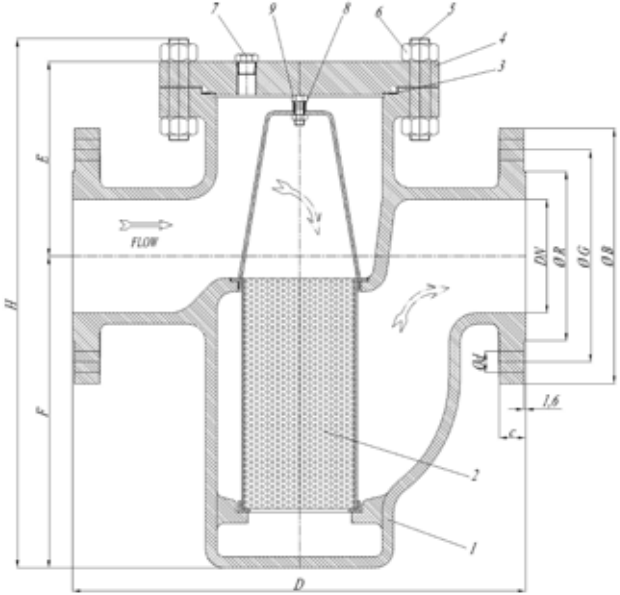


Wall thicknesses are according to ASME B16.34
Flange dimensions are according to ANSI B16.5
Inspection and test standard: API 598

ASA 150-ASA 300 ASA 600 DÖKÜM ÇELİK SEPET TİPİ PİSLİK TUTUCULAR Cast Steel Basket Type Strainers Figure ST 8010-ST 8020

MALZEME SPESİFİKASYONLARI / Material Specifications

PARÇA ADI / PART NAME	
1 GÖVDE Body	Cast Steel
2 SÜZGEÇ Strainer	Stainless Steel
3 CONTA Gasket	Graphite Or Spiral Wound Gasket
4 KAPAK Bonnet	Fabricated Steel
5 KAPAK SAPLAMALARI Bonnet Stud Bolt	Cr Mo Steel
6 KAP. SAP. SOMUNLARI Bonnet Stud Bolt Nut	Carbon Steel
7 KÖRTAPA Plug	Carbon Steel
8 YAY Spring	Stainless Steel
9 CİVATA Bolt	Chrome
10 İSİM PLAKA Name Plate	Aluminium



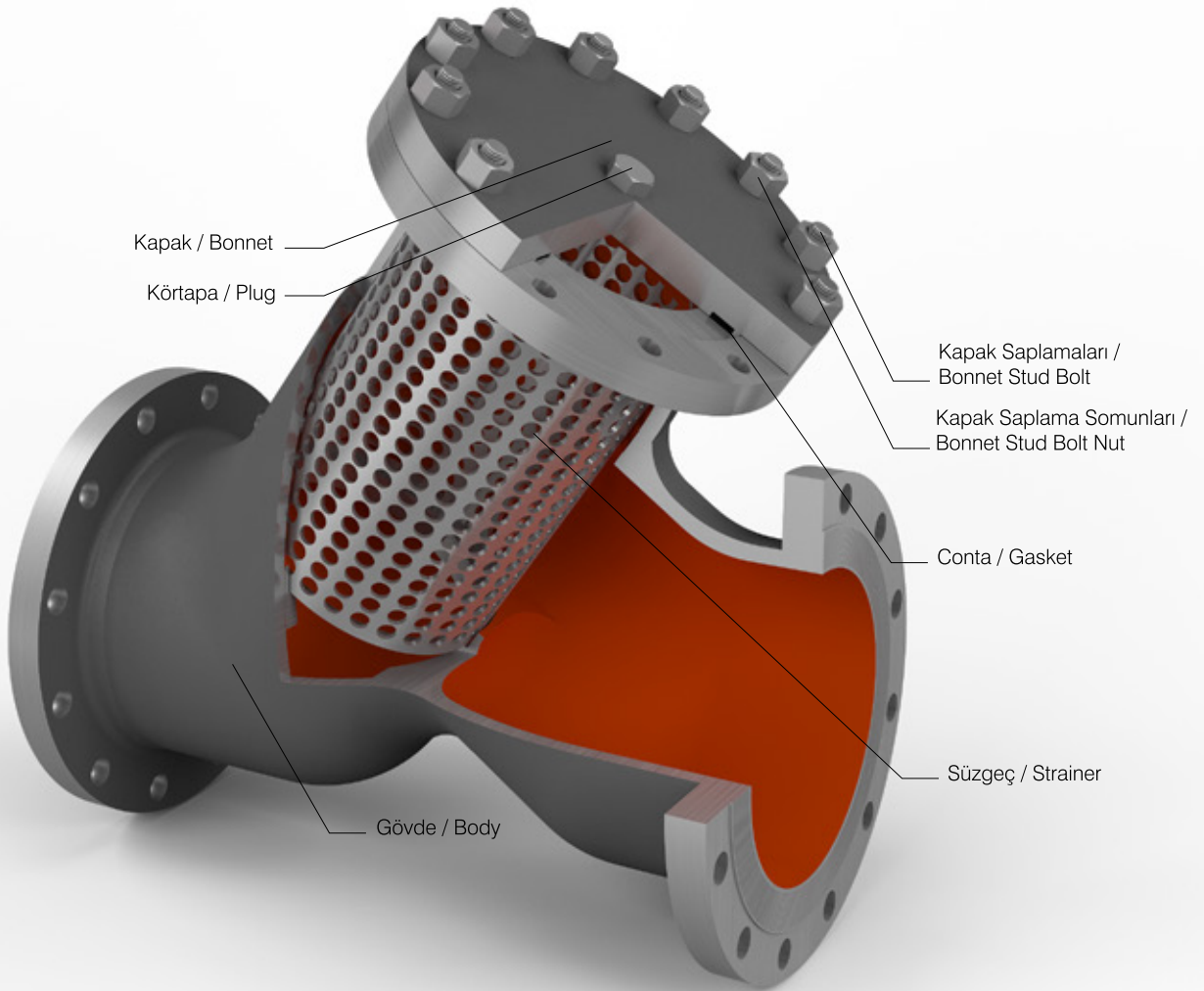
ASA 150 Figure ST 8010	ÖLÇÜ / SIZE		Ø B	Ø G	Ø R	C	Ø d	D	H	E	F	App.W
	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
	2	50	152	120,6	92,1	19,1	19	305,	-	-	-	40
	3	80	190	152,4	127	23,9	19	356	530	195	310	50
	4	100	229	190,5	157,2	23,9	19	406	475	175	280	60
	6	150	279,4	141,3	215,9	25,4	22,2	500	520	140	355	74
	8	200	343	298,4	269,9	28,6	22,2	560	-	-	-	260
	10	250	406	362	323,8	30,2	25,4	800	995	333	630	335
	12	300	483	431,8	381	31,8	25,4	850	1095	362	700	483
	14	350	533	476,2	412,8	35	28,5	787,5	795	250	523,5	360
	16	400	597	539,8	469,9	36,6	28,5	1100	1410	468	900	1130
	18	450	635	577,8	533,4	39,7	31,8	1181	1560	498	1020	-

ASA 300 Figure ST 8020	ÖLÇÜ / SIZE		Ø B	Ø G	Ø R	C	Ø d	D	H	E	F	App.W
	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
	4	100	254	200	157,2	31,8	22,2	470	-	-	-	-
	6	150	318	269,9	215,9	36,6	22,2	620	-	-	-	-
	8	200	381	330,2	269,9	41,1	25,4	630	825	297	500	255
	10	250	444	387,4	323,8	47,8	28,5	900	1032	370	630	460
	12	300	521	450,8	381	80,8	31,8	1000	-	-	-	-
	14	350	584	514,4	412,8	53,8	31,8	1050	-	-	-	-
	16	400	648	571,5	469,9	57,2	35	1200	-	-	-	-
	18	450	711	628,6	530,4	60,5	35	-	-	-	-	-
	20	500	775	685,8	584,2	63,5	35	-	-	-	-	-
	24	600	914	812,8	962,2	69,9	41,1	1345	1474	440	6000	2100



ASA 150-ASA 300 ASA 600 DÖKÜM ÇELİK Y TİPİ PİSLİK TUTUCULAR

Cast Steel Y Type Strainers Figure ST 8110-ST 8120-ST 8130



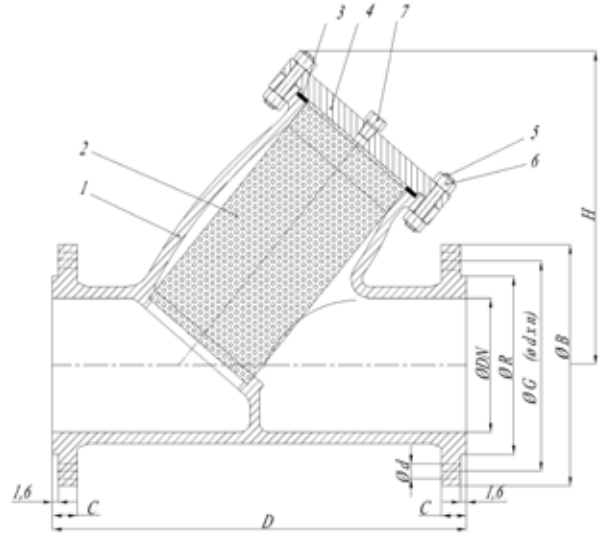
Wall thicknesses are according to ASME B16.34
Flange dimensions are according to ANSI B16.5
Inspection and test standard: API 598

ASA 150-ASA 300 ASA 600 DÖKÜM ÇELİK Y TİPİ PİSLİK TUTUCULAR Figure ST 8110-ST 8120-ST 8130



MALZEME SPESİFİKASYONLARI / Material Specifications

PARÇA ADI / PART NAME	
1 GÖVDE Body	Cast Steel
2 SÜZGEÇ Strainer	Stainless Steel
3 CONTA Gasket	Graphite or Spiral Wound Gasket
4 KAPAK Bonnet	Fabricated Steel
5 KAPAK SAPLAMALARI Bonnet Stud Bolt	Cr Mo Steel
6 KAPAK SAP SOMUNLARI Bonnet Stud Bolt Nut	Carbon Steel
7 KÖRTAPA Plug	Carbon Steel
8 İSİM PLAKASI Name Plate	Aluminium



ASA 150 Figure ST 8110	ÖLÇÜ/SIZE		Ø B	Ø G	Ø R	C	Ø d	D	H	App.W
	inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
	2	50	152	120,6	92	19	19	273	230	15
	2 ½	65	178	139,7	104,8	22,3	19	220	170	17
	3	80	190	152,4	127	23,9	19	337	260	33
	4	100	229	190,5	157,2	23,9	19	413	330	50
	6	150	279,4	241,3	215,9	25,4	22,2	521	420	84
	8	200	343	298,4	269,9	28,6	22,2	635	490	130
	10	250	406	362	323,8	30,2	25,4	673	550	155
	12	300	483	431,8	381	31,8	25,4	775	675	290
ASA 300 Figure ST 8120	14	350	533	476,2	412,8	35	28,5	787	695	330
	16	400	597	539,8	469,9	36,6	28,5	940	825	470
	18	450	635	577,8	533,4	39,7	31,8	990,6	830	500
	2	50	165	127	92,1	22,4	19	267	-	18
	3	80	210	168,3	127	28,4	22,2	317,5	230	32
ASA 600 Figure ST 8130	4	100	254	200	157,2	31,8	22,2	356	270	43
	6	150	318	269,9	215,9	36,6	22,2	444,5	340	92
	2	50	165	127	92,1	22,4	19	292	-	21
	3	80	210	168,3	127	28,4	22,2	457,2	300	42
	4	100	273	215,9	157,2	31,8	25,4	-	-	55

DÖKÜM ÇELİK DİYAFRAMLİ VALFLER

Cast Steel Diaphragm Valves

Membranın akış yönüne dik olarak hareketi sonucu sızdırmazlık yüzeyine oturtulması ile sızdırmazlık sağlar. Hattaki akışkanın temiz ya da kirli olması önemli değildir. Yüksek sayıda açma-kapamaya uygundur. Düşük sıcaklık ve basınçta kullanılabilirler, yüksek sıcaklık ve basınçta kullanımı tavsiye edilmez. Her iki yönde de kullanıma uygundur.

As a result of vertical travel of the membrane to the direction of flow, the membrane seats the housing and provides seal. It is not important the fluid in the pipeline is clear or contaminated. They are suitable for many times opening and closing. They can be used at low pressure and low temperature, it is not recommended to use at high temperatures and pressures. They are operated in both directions.

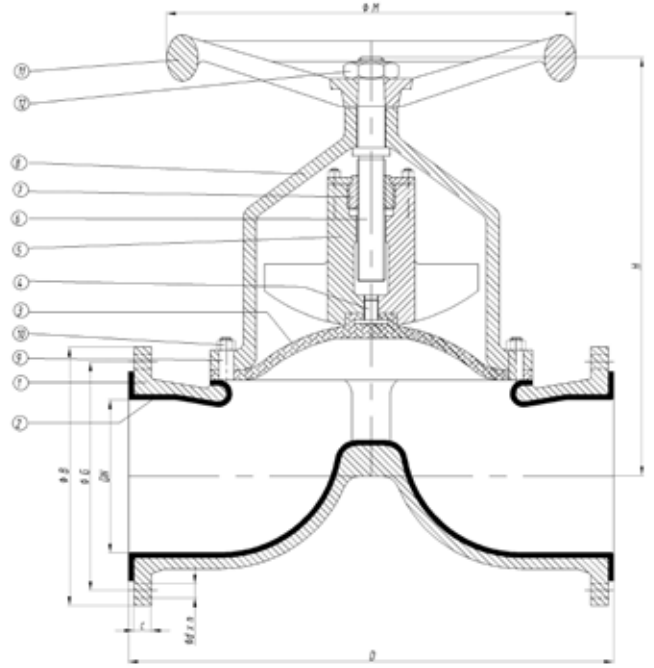
ASA 150-PN 10-PN 16 DÖKÜM ÇELİK DİYAFRAMLI VALFLER

Cast Steel Diaphragm Valves Figure V 7010-V 7020



MALZEME SPESİFİKASYONLARI / Material Specifications

PARÇA ADI / PART NAME		
1 GÖVDE Body	Cast Steel	
2 KAPLAMA Lined	Rubber	
3 DİYAFRAM Diaphragm	EPDM	
4 CİVATA Bolt	Carbon Steel	
5 BASKI Stamp	Cast Steel	
6 MİL Stem	Stainless Steel	
7 MİL SOMUNU Stem Nut	Cast Steel	
8 KAPAK Bonnet	Cast Steel	
9 KAPAK SAPLAMASI Bonnet Stud-Bolt	CrMo Steel	
10 KAPAK SOMUNU Bonnet Nut	CrMo Steel	
11 HENDİL Handwheel	Ductile Iron	
12 HENDİL SOMUNU Handwheel Nut	Carbon Steel	
13 İSİM PLAKASI Name Plate	Aluminium	



ASA 150 Figure V 7010	ÖLÇÜ / SIZE		Ø B	Ø G	C	Ø d x n	D	H	Ø M	App.W
	inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
	1/2	15	89	60,3	11,2	15,8 x 4	115	105	90	3
	3/4	20	99	69,8	12,7	15,8 x 4	123	110	90	4,7
	1	25	108	79,4	14,3	15,8 x 4	133	110	130	6
	1 1/2	40	127	98,4	17,5	15,8 x 4	165	158	130	7,4
	2	50	152	120,6	19,1	19 x 4	196	177	200	12
	2 1/2	65	178	139,7	22,3	19 x 4	222	213	200	23
	3	80	190	152,4	23,9	19 x 4	260	228	200	36
	4	100	229	190,5	23,9	19 x 8	311	295	250	42
PN 10 - PN16 Figure V 7020	6	150	279,4	241,3	25,4	22,2 x 8	412	428	300	72
	8	200	343	298,4	28,6	22,2 x 8	527	502	400	-
	10	250	406	362	30,2	25,4 x 12	641	588	500	-

PN 10 - PN16 Figure V 7020	ÖLÇÜ / SIZE		Ø B	Ø G	C	Ø d x n	D	H	Ø M	App.W
	inch	mm	mm	mm	mm	mm	mm	mm	mm	kg
	1/2	15	95	65	16	14 x 4	136	105	90	3,3
	3/4	20	105	75	18	14 x 4	150	110	90	4,8
	1	25	115	85	18	14 x 4	160	110	130	6
	1 1/2	40	150	110	18	18 x 4	200	158	130	8,5
	2	50	165	125	18	18 x 4	230	177	200	12
	2 1/2	65	185	145	18	18 x 8	290	213	200	24
	3	80	200	160	20	18 x 8	310	228	200	41

Not: Ölçü, basınç sınıfı, bağlantı, model, gövde ve trim malzemesi seçimleri müşteri tarafından sipariş kodlarına göre yapılır.

Note: Dimensions, pressure class, connection type, model, body and trim materials are specified by purchaser according to the order codes.



DÖVME ÇELİK VALFLER / Forged Steel Valves

Dövme işlemi ile çeliğin tane yapısı sıkıştırılarak daha yoğun bir duruma getirildiğinden korozyona ve erozyona karşı dayanıklılığı büyük ölçüde artırılmış olur. Bunun haricinde; çeliğin iç yapısında gizli kalmış bulunan özürlerin de yok edilmesi sağlanmış olur. Bu sebeplerle Çelik Dövme Valfler, petrol rafinerileri, petrol ve gaz üretim alanları, elektrik enerjisi üretim santralleri, yüksek basınç ve sıcaklıkta buhar ve petrol boru hatları gibi geniş ve çeşitli alanlarda kullanmak için ideal valflerdir. Dövme çelik valflerin imalatında kullanılan materyallerin seçiminde özellikle sağlamlık, dayanıklılık, sıcaklığa ve vuruntuya karşı mukavemeti göz önünde bulundurulmaktadır.

Dövme çelik valfler için ASTM A105 karbon çeliği kullanılmaktadır. İsteğe göre alaşımlı ferritik çelik olarak ASTM A 182 Gr F11 veya ASTM A182 Gr F5, alaşımlı östenitik çelik olarakda ASTM A 182 Gr F 304 veya ASTM A 182 Gr F 316 standartlarına uygun çeliklerde kullanılabilir.

Trim malzemesi olarak müşteri ihtiyaçlarına göre %13 Kromlu F6, 410, 420 ve %18 Kromlu F 304 ve F 316 kullanılır.

Dövme çelikten başlıca; Gate valfler Globe Valfler ve Check Valfler imal edilir. Vida uçlu valflerde uç bağlantıları içten (female) vidalı olup, NPT vida dişleri ANSI B 2.1'e göre veya R boru dişleri DIN 2999'a göre açılır. Soket valflerde soket ölçüleri ANSI B 16.11'e göre açılmıştır.

Flaşlı tip dövme valflerin flaşları gövdeye kaynak bağlantılıdır. Kaynak Prosedürü ANSI B 31.3 standardının belirlediği esaslara göre uygulanır. ANSI standardındaki valflerin flaş boyutları ANSI B 16.5'e, DIN standardında olanlar ise DIN 2501'e göre uygundur.

Forging process brings the particles of the steel closer which makes it denser and consequently a robust material compared to cast steels. Forging also gets rid of the imperfections and the possible voids in the original steel.

There for forged steel valves are ideal for petroleum refineries, oil and gas lines and power plants. Most widely used steel is ASTM A105 besides ASTM A 182 Gr F11, ASTM A182 Gr F5, ASTM A 182 Gr F 304 and ASTM A 182 Gr F 316 for the production of forged steel valves.

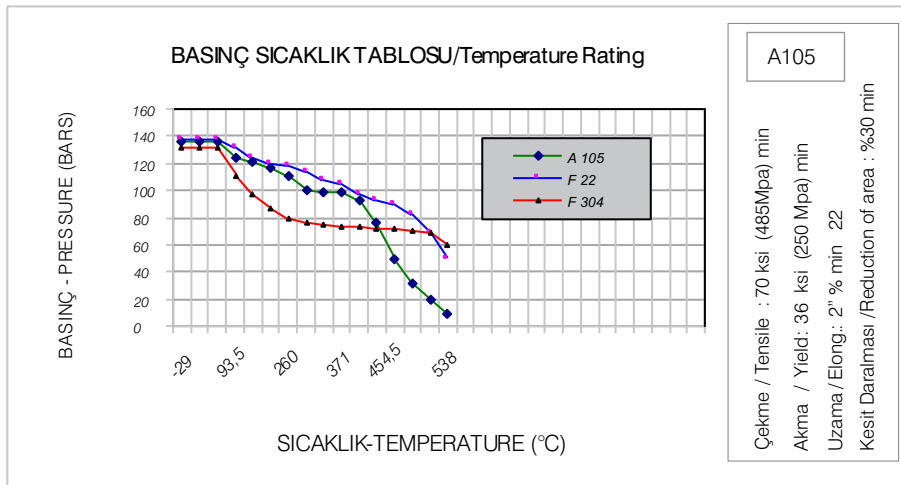
Various trim materials can be used like 13%Cr, F304, F 316 or stellite deposit over one of these materials depending on the client's order.

The threads of female screwed end valves conform to ANSI B2.1 (NPT) or to DIN 2999 (R).

Dimensions of the socketweld end valves, on the other hand, conform to ANSI B 16.11 standard.

Flanges of the forged valves with flanged end connections, are welded to the forged body. The welding procedure applied is in accordance with the ANSI B31.3 standard.

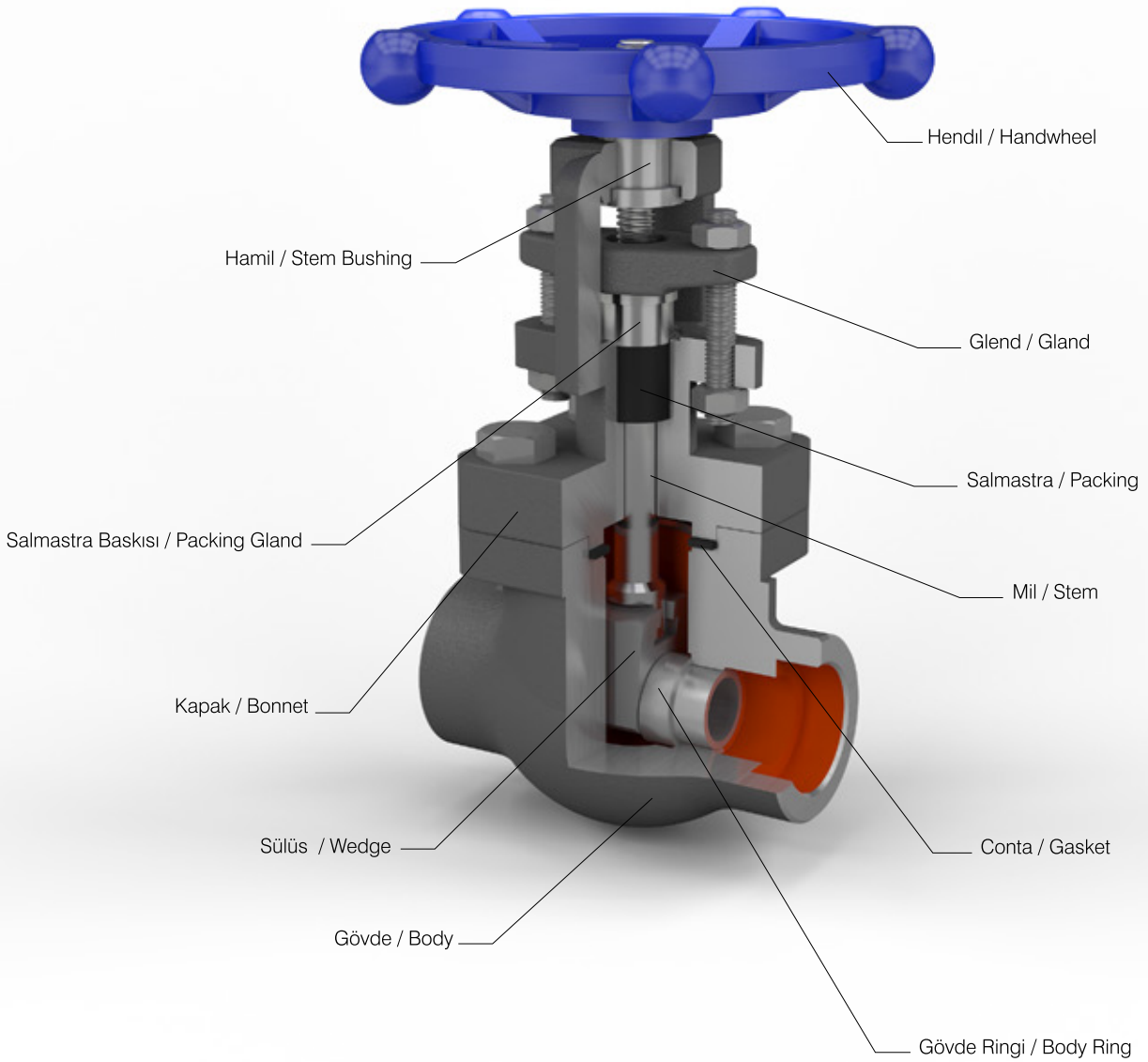
Flange dimensions and drillings are in conformity with ANSI B16.5 or DIN 2501 depending on the required conformity of the valve standard defined by buyers.





ASA 800-ASA 1500-ASA 2500 DÖVME ÇELİK GATE VALFLER

Forged Steel Gate Valves Figure V 2103-V 2104-V 2105



Design standard: API 602
Screwed ends are according to ANSI B 2.1
Socket weld ends are according to ANSI B 16.11
Inspection and test standard: API 598&API 602

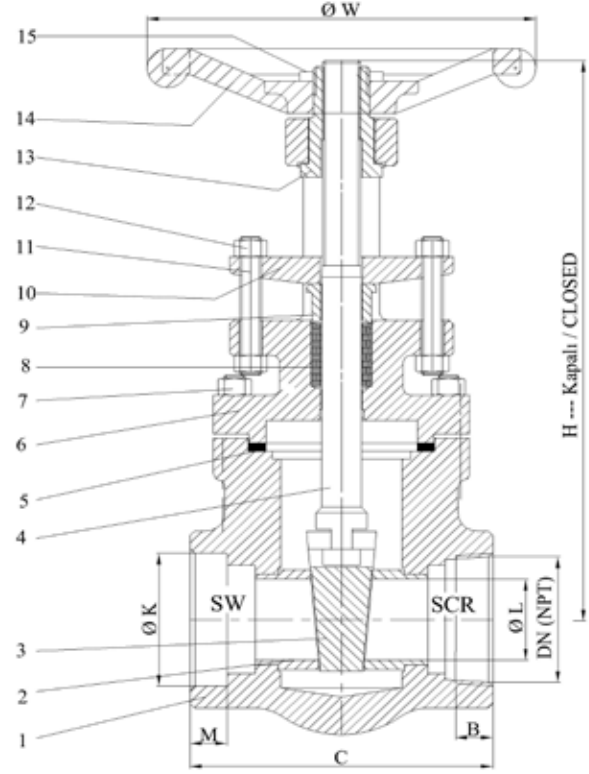
ASA 800-ASA 1500-ASA 2500 DÖVME ÇELİK GATE VALFLER

Forged Steel Gate Valves Figure V 2103-V 2104-V 2105



MALZEME SPESİFİKASYONLARI / Material Specifications

PARÇA ADI / PART NAME	
1 GÖVDE Body	Forged Steel
2 GÖVDE RİNGİ Body Ring	Stainless Steel
3 SÜLÜS Wedge	Stainless Steel
4 MİL Stem	Stainless Steel
5 CONTA Gasket	Spiral Wound Gasket
6 KAPAK Bonnet	Forged Steel
7 KAPAK CİVATASI Bonnet Bolt	Cr Mo Steel
8 SALMASTRA Packing	Graphite
9 S.ALM. BASKISI Packing Gland	Stainless Steel
10 GLEND Gland	Forged Steel
11 GLEND SAPLAMASI Gland Bolt	Stainless Steel
12 SOMUN Nut	Carbon Steel (Galvanized)
13 HAMİL (MİL BURCU) Stem Bushing	Stainless Steel
14 HENDİL Handwheel	Ductile Iron
15 HENDİL SOMUNU Handwheel Nut	Carbon Steel (Galvanized)
16 İSİM PLAKASI Name Plate	Aluminium



ASA 800 Figure V 2103	ÖLÇÜ/SIZE		DN	Ø K	C	Ø L	H	B	M	W	App.W
	inch	mm	NPT	mm	mm	mm	mm	Min	min	mm	kg
	1/2	15	1/2	22	84	9,5	134	13,5	10	96	2,2
	3/4	20	3/4	27,5	90,5	12,8	143	14	13	96	2,3
	1	25	1	34	114	17,5	182	17,5	13	96	3,7
	1 1/2	40	1 1/2	49	120,5	28,5	228	18,5	15	130	6,2
	2	50	2	61,3	130	36,5	260	19	16	150	11

ASA 1500 Figure V 2104	ÖLÇÜ/SIZE		DN	Ø K	C	Ø L	H	B	M	W	App.W
	inch	mm	NPT	mm	mm	mm	mm	Min	min	mm	kg
	1/2	15	1/2	22	111	12	190	13,5	10	96	2,5
	3/4	20	3/4	27,5	111	12,8	169	14	13	96	3,9
	1	25	1	34	120	17,5	215	17,5	15	130	6,2
	1 1/4	32	1 1/4	43	130	26	270	18,5	15	130	6,5
	1 1/2	40	1 1/2	49	130	26	270	18,5	15	150	9

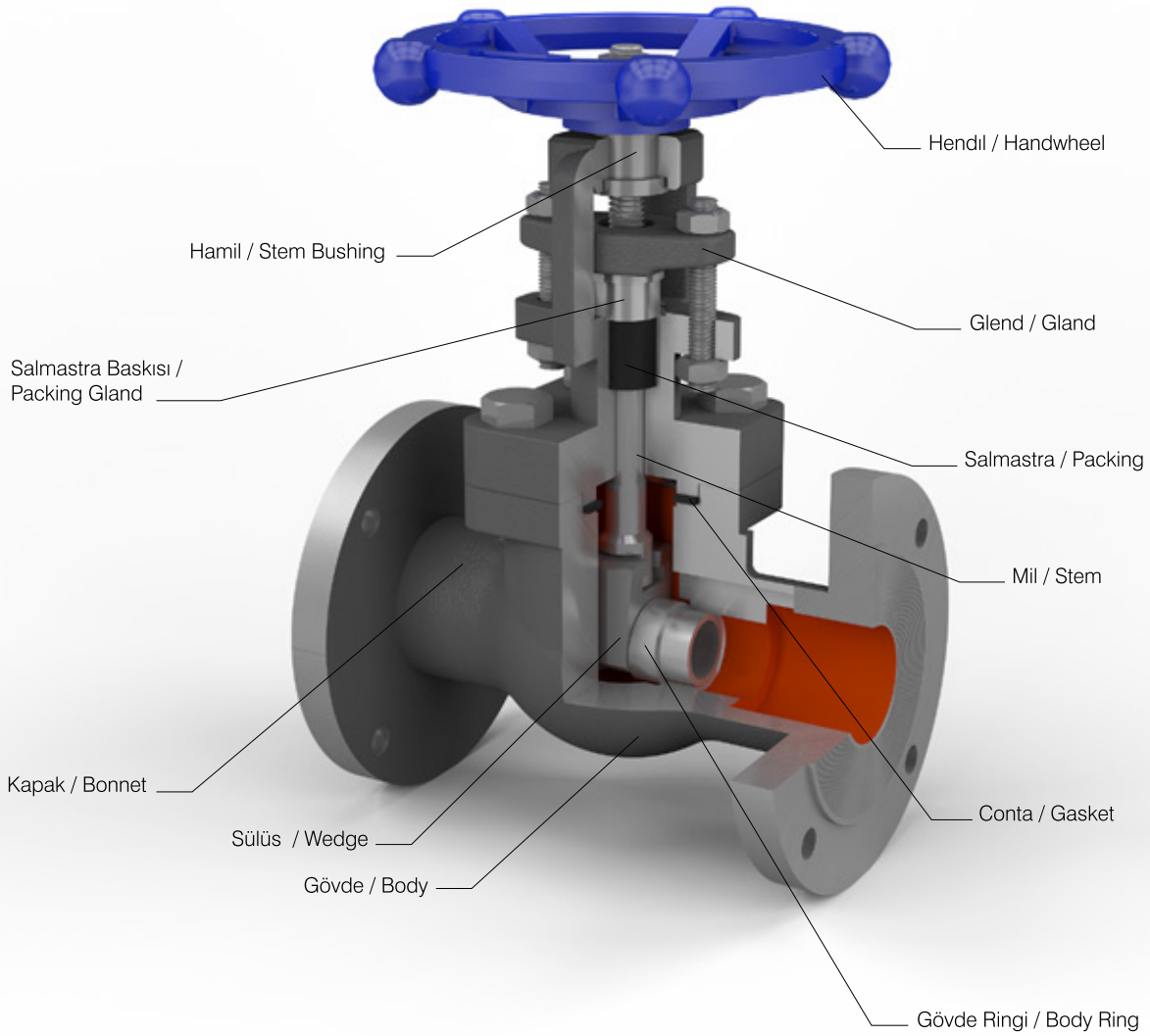
ASA 2500 Figure V 2105	ÖLÇÜ/SIZE		DN	Ø K	C	Ø L	H	B	M	W	App.W
	inch	mm	NPT	mm	mm	mm	mm	Min	min	mm	kg
	3/4	20	3/4	27,5	120	12,8	215	14	13	130	6,2
	1	25	1	34	130	17,5	275	17,5	13	130	9,1

Not: Ölçü, basınç sınıfı, bağlantı, model, gövde ve trim malzemesi seçimleri müşteri tarafından sipariş kodlarına göre yapılır.

Note: Dimensions, pressure class, connection type, model, body and trim materials are specified by purchaser according to the order codes.



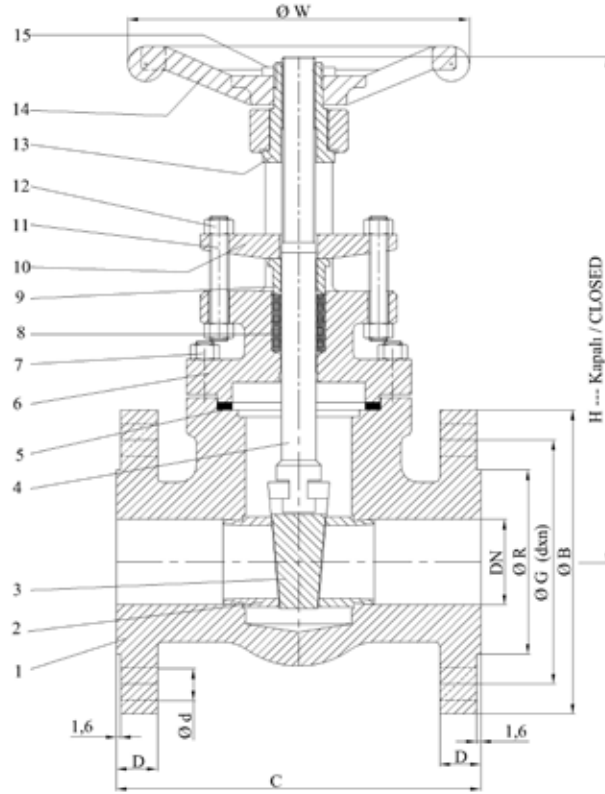
ASA 150-ASA 300-ASA 600 DÖVME ÇELİK GATE VALFLER Forged Steel Gate Valves Figure V 2100-V 2101-V 2102



Design standard: API 602
Face to face standard: ANSI B16.10
Flange dimensions are according to ANSI B16.5
Inspection and test standard: API 598&API 602

ASA 150- ASA 300-ASA 600 DÖVME ÇELİK GATE VALFLER

Forged Steel Gate Valves Figure V 2100-V 2101-V 2102



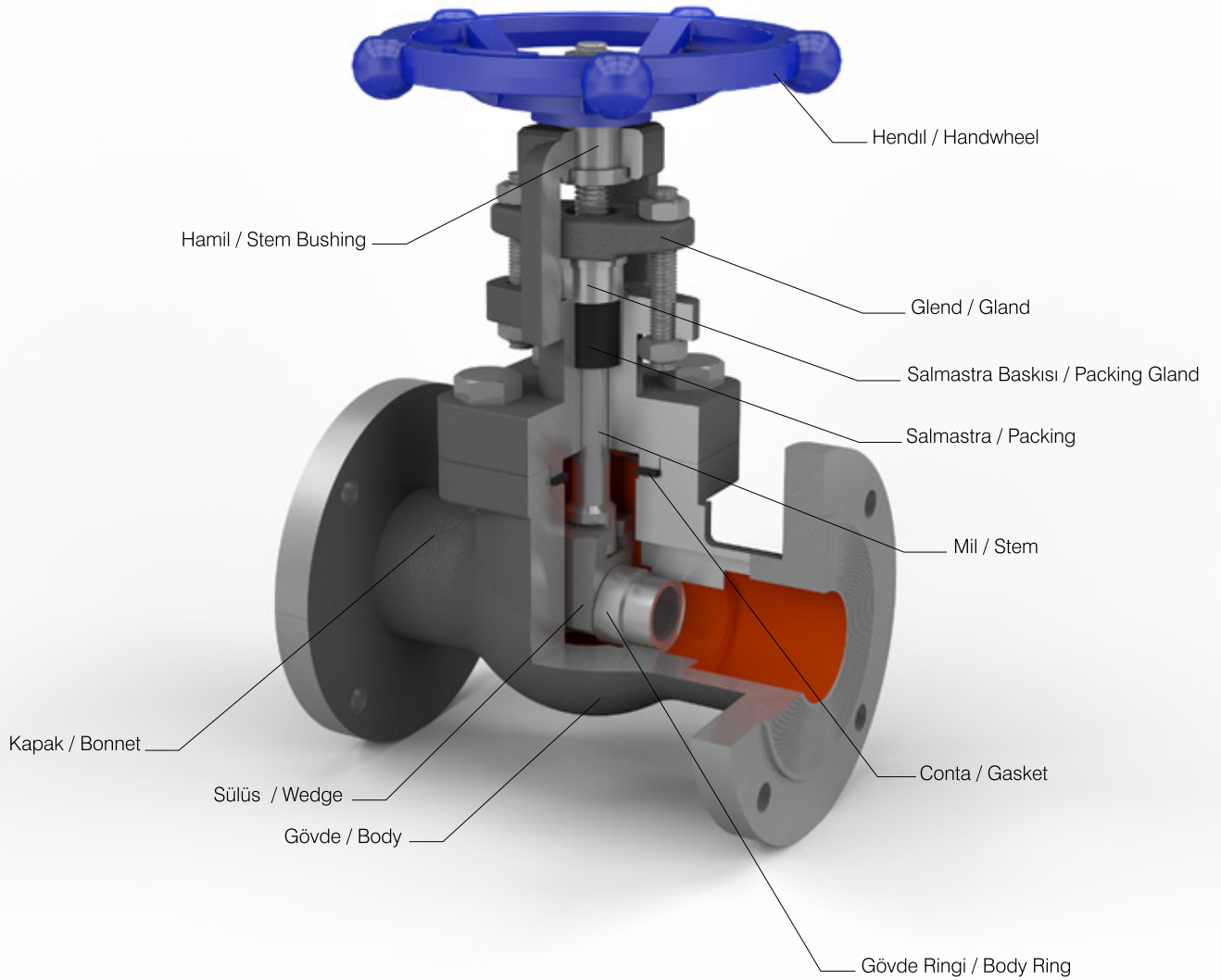
ASA 150 Figure V 2100	ÖLÇÜ/SIZE		C	H	D	Ø R	Ø G	Ø B	W	App.W
	inch	DN	mm	mm	mm	mm	mm	mm	mm	kg
	1/2	15	108	134	11,2	34,9	60,3	89	96	2,9
	3/4	20	117,5	143	12,7	42,9	69,8	99	96	3,5
	1	25	127	182	14,3	50,8	79,4	108	96	6
	1 1/4	32	139,5	228	15,9	63,5	88,9	117	130	8,5
	1 1/2	40	165	228	17,5	73	98,4	127	130	11
ASA 300 Figure V 2101	ÖLÇÜ/SIZE		C	H	D	Ø R	Ø G	Ø B	W	App.W
	inch	DN	mm	mm	mm	mm	mm	mm	mm	kg
	1/2	15	139,5	134	14,2	34,9	66,7	95	96	4,5
	3/4	20	152,5	143	15,7	42,9	82,6	117	96	5
	1	25	165	182	17,5	50,8	88,9	124	96	7
	1 1/4	32	177,8	228	19	63,5	98,4	133	130	11
	1 1/2	40	190,5	228	20,6	73	114,3	156	130	12
ASA 600 Figure V 2102	ÖLÇÜ/SIZE		C	H	D	Ø R	Ø G	Ø B	W	App.W
	inch	DN	mm	mm	mm	mm	mm	mm	mm	kg
	1/2	15	165	134	14,2	34,9	66,7	95	96	4,5
	3/4	20	190,5	143	15,7	42,9	82,6	117	96	5,5
	1	25	216	182	17,5	50,8	88,9	124	96	8
	1 1/4	32	228,5	228	20,6	63,5	98,4	133	130	12
	1 1/2	40	241	228	22,4	73	114,3	156	130	14
ASA 600 Figure V 2102	ÖLÇÜ/SIZE		C	H	D	Ø R	Ø G	Ø B	W	App.W
	inch	DN	mm	mm	mm	mm	mm	mm	mm	kg
	1/2	15	165	134	14,2	34,9	66,7	95	96	4,5
	3/4	20	190,5	143	15,7	42,9	82,6	117	96	5,5
	1	25	216	182	17,5	50,8	88,9	124	96	8
	1 1/4	32	228,5	228	20,6	63,5	98,4	133	130	12
	1 1/2	40	241	228	22,4	73	114,3	156	130	14
ASA 600 Figure V 2102	ÖLÇÜ/SIZE		C	H	D	Ø R	Ø G	Ø B	W	App.W
	inch	DN	mm	mm	mm	mm	mm	mm	mm	kg
	1/2	15	165	134	14,2	34,9	66,7	95	96	4,5
	3/4	20	190,5	143	15,7	42,9	82,6	117	96	5,5
	1	25	216	182	17,5	50,8	88,9	124	96	8
	1 1/4	32	228,5	228	20,6	63,5	98,4	133	130	12
	1 1/2	40	241	228	22,4	73	114,3	156	130	14



PN 10-PN 16-PN 25-PN 40-PN 100

DÖVME ÇELİK GATE VALFLER

Forged Steel Gate Valves Figure V 2106-V 2107-V 2108



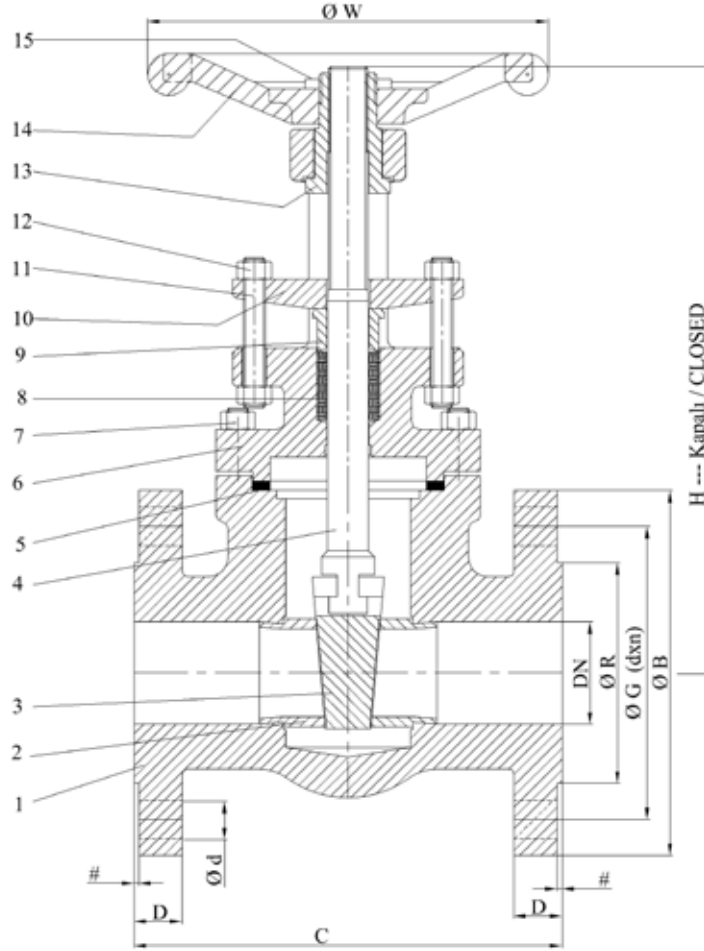
Design standard: API 602

Face to face standard: DIN 3202-F1&DIN 3202-F2

Flange dimensions are according to DIN 2501

Inspection and test standard: API 598&API 602

PN 10-PN 16-PN 25- PN 40-PN 100
DÖVME ÇELİK GATE VALFLER
Forged Steel Gate Valves Figure V 2106-V 2107-V 2108

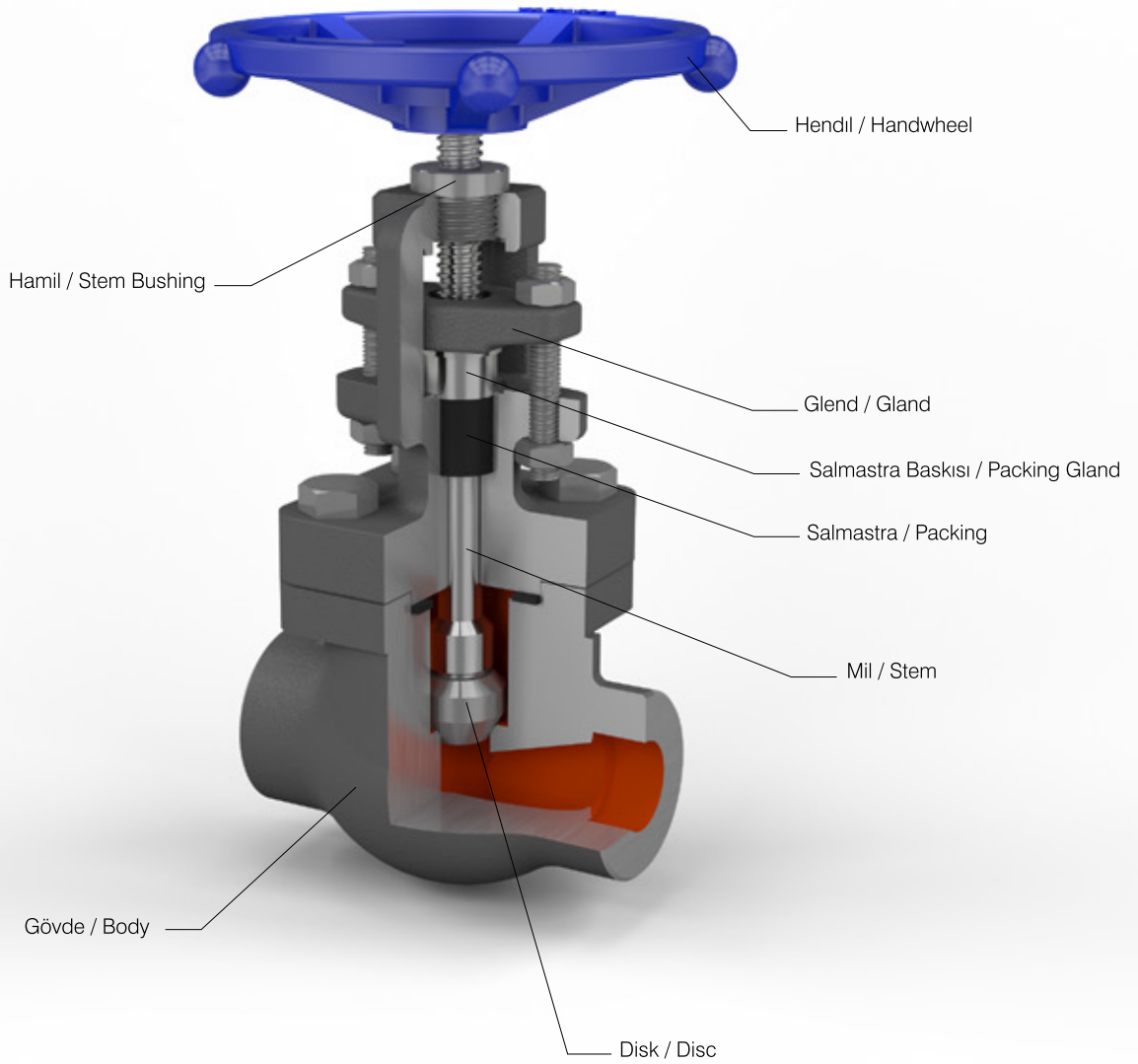


PN 10 - PN 16 Figure V 2106 PN 25 - PN 40 Figure V 2107	Ölçü/Size		C	H	D	Ø R	Ø G	Ø B	W	App.W
	inch	DN	mm	mm	mm	mm	mm	mm	mm	kg
	1/2	15	130	134	16	45	65	95	96	4
	3/4	20	150	143	18	58	75	105	96	5
	1	25	160	182	18	68	85	115	96	7
	1 1/4	32	180	228	18	78	100	140	130	11
	1 1/2	40	200	228	18	88	110	150	130	12
	2	50	230	260	20	102	125	165	150	15

PN 100 Figure V 2108	Ölçü/Size		C	H	D	Ø R	Ø G	Ø B	W	App.W
	inch	DN	mm	mm	mm	mm	mm	mm	mm	kg
	1/2	15	210	134	20	45	75	105	96	4
	1	25	230	182	24	65	100	140	96	9
	1 1/2	40	260	228	26	85	125	170	130	15
	2	50	300	260	28	95	145	195	150	20



ASA 800-ASA 1500-ASA 2500
DÖVME ÇELİK GLOBE VALFLER
Forged Steel Globe Valves Figure V 3103-V 3104-V 3105



Design standard: API 602
Screwed ends are according to ANSI B 2.1
Socket weld ends are according to ANSI B 16.11
Inspection and test standard: API 598&API 602

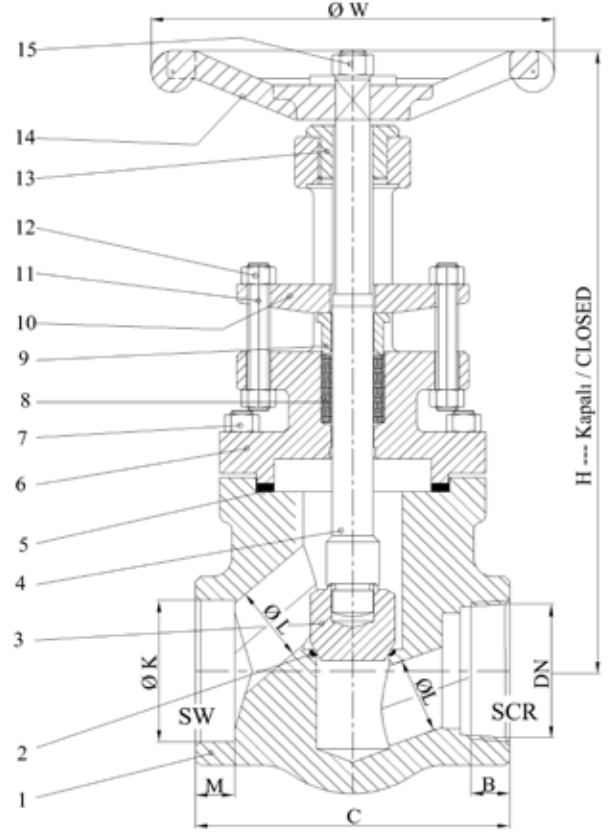
ASA 800-ASA 1500-ASA 2500 DÖVME ÇELİK GLOBE VALFLER

Forged Steel Globe Valves Figure V 3103-V 3104-V 3105



MALZEME SPESİFİKASYONLARI / Material Specifications

PARÇA ADI / PART NAME	
1 GÖVDE Body	Forged Steel
2 GÖVDE SİT YÜZEYİ Body Seat Face	Stainless Steel
3 DİSK Disc	Stainless Steel
4 MİL Stem	Stainless Steel
5 CONTA Gasket	Spiral Wound Gasket
6 KAPAK Bonnet	Forged Steel
7 KAPAK ÇİVATASI Bonnet Bolt	Cr Mo Steel
8 SALMASTRA Packing	Graphite
9 SALM. BASKISI Packing Gland	Stainless Steel
10 GLEND Gland	Forged Steel
11 GLEND SAPLAMASI Gland Bolt	Stainless Steel
12 SOMUN Nut	Carbon Steel (Galvanized)
13 HAMİL (Mil Burcu) Stem Bushing	Stainless Steel
14 HENDİL Handwheel	Ductile Iron
15 HENDİL SOMUNU Handwheel Nut	Carbon Steel (Galvanized)
16 İSİM PLAKASI Name Plate	Aluminium



ASA 800 Figure V 3103	ÖLÇÜ / SIZE		DN	Ø K	C	Ø L	H	B	M	W	App. W
	inch	mm	NPT	mm	mm	mm	mm	mim	mim	mm	kg
	1/2	15	1/2	22	84	8	150	13,5	10	96	2
	3/4	20	3/4	27,5	90,5	12,7	162	14	13	96	2,4
	1	25	1	34	114	17,5	197	17,5	13	96	3,5
	1 1/4	32	1 1/4	43	120,5	22,5	249	18	15	130	9,3
	1 1/2	40	1 1/2	49	120,5	28,5	249	18,5	15	130	9,3
	2	50	2	61,3	130	35	281	19	16	150	11,4

ASA 1500 Figure V 3104	ÖLÇÜ / SIZE		DN	Ø K	C	Ø L	H	B	M	W	App. W
	inch	mm	NPT	mm	mm	mm	mm	mim	mim	mm	kg
	1/2	15	1/2	22	90	9	150	13,5	10	96	2,4
	3/4	20	3/4	27,5	111	12,5	195	14	13	96	3,5
	1	25	1	34	120	17,5	250	17,5	15	96	9,3
	1 1/2	40	1 1/2	49	130	25	316	18,5	15	150	11,4

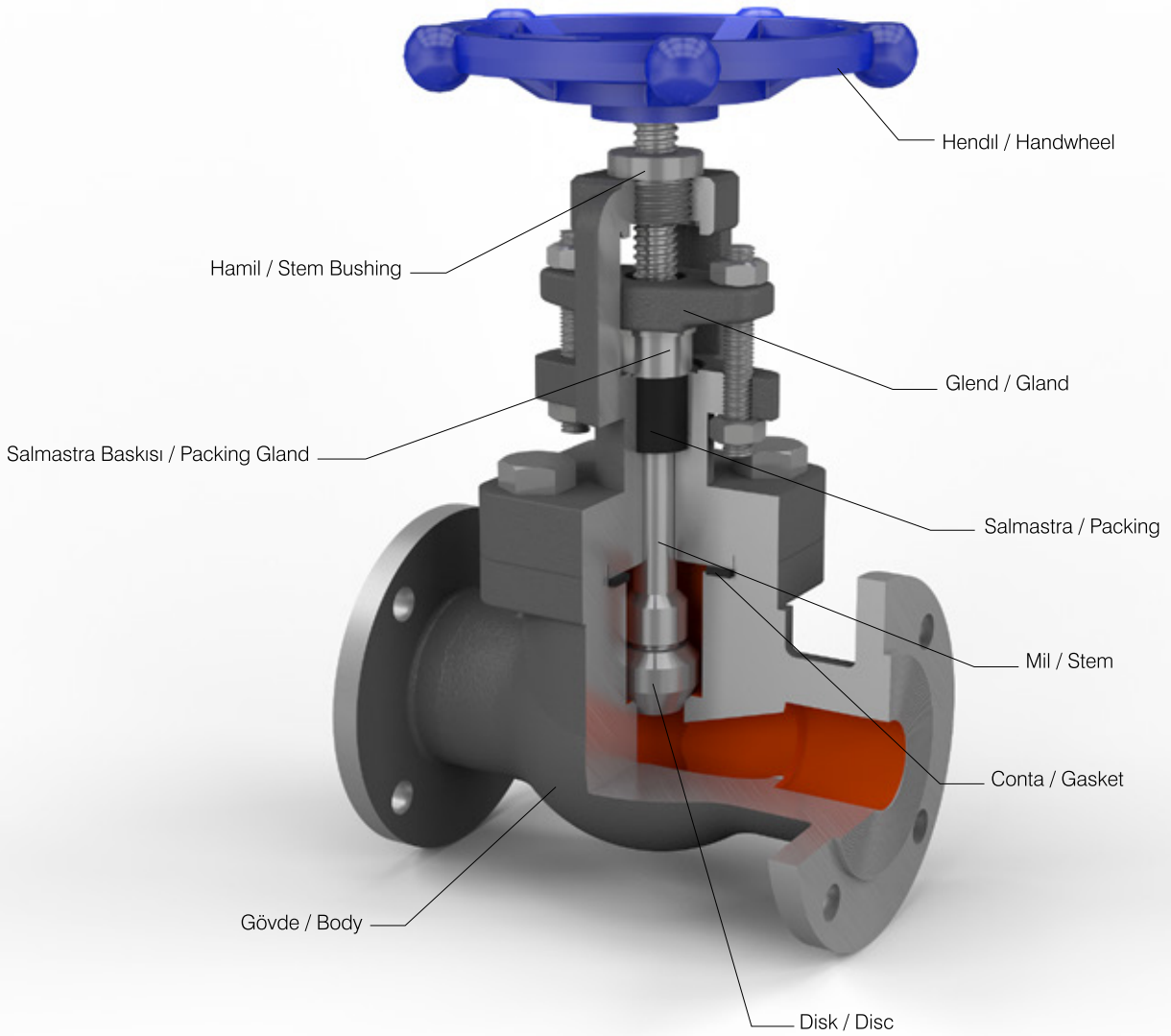
ASA 2500 Figure V 3105	ÖLÇÜ / SIZE		DN	Ø K	C	Ø L	H	B	M	W	App. W
	inch	mm	NPT	mm	mm	mm	mm	mim	mim	mm	kg
	3/4	20	3/4	27,5	120	12,5	235	14	13	130	9,3
	1	25	1	34	130	17,5	250	17,5	15	150	11,4

Not: Ölçü, basınç sınıfı, bağlantı, model, gövde ve trim malzemesi seçimleri müşteri tarafından sipariş kodlarına göre yapılır.

Note: Dimensions, pressure class, connection type, model, body and trim materials are specified by purchaser according to the order codes.

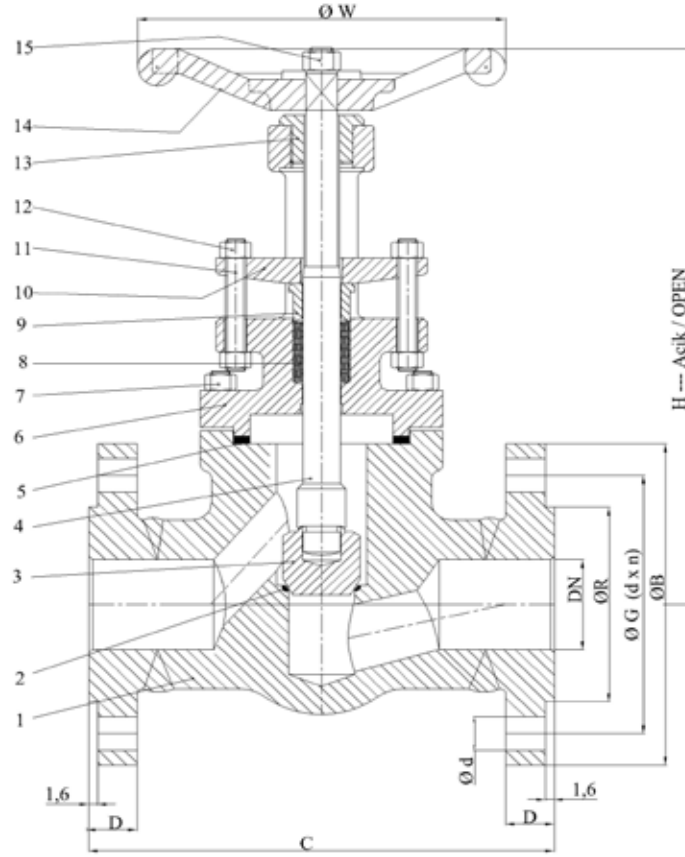


ASA 150-ASA 300-ASA 600
DÖVME ÇELİK GLOBE VALFLER
Forged Steel Globe Valves Figure V 3100-V 3101-V 3102



Design standard: API 602
Face to face standard: ANSI B16.10
Flange dimensions are according to ANSI B16.5
Inspection and test standard: API 598&API 602

ASA 150-ASA 300-ASA 600
DÖVME ÇELİK GLOBE VALFLER
Forged Steel Globe Valves Figure V 3100-V 3101-V 3102



ASA 150 Figure V 3100	ÖLÇÜ / SIZE		C	H	D	Ø R	Ø G	Ø B	W	App. W
	inch	DN	mm	mm	mm	mm	mm	mm	mm	kg
	1/2	15	108	150	11,2	34,9	60,3	89	96	3,2
	3/4	20	117,5	162	12,7	42,9	69,8	99	96	3,6
	1	25	127	197	14,3	50,8	79,4	108	96	5,6
	1 1/4	32	140	249	15,9	63,5	88,9	117	130	12
	1 1/2	40	165	249	17,5	73	98,4	127	130	12,8
	2	50	203	281	19,1	92,1	120,6	152	150	16,4

ASA 300 Figure V 3100	ÖLÇÜ / SIZE		C	H	D	Ø R	Ø G	Ø B	W	App. W
	inch	DN	mm	mm	mm	mm	mm	mm	mm	kg
	1/2	15	152,5	150	14,2	34,9	66,7	95	96	4,8
	3/4	20	178	162	15,7	42,9	82,6	117	96	5,2
	1	25	203	197	17,5	50,8	88,9	124	96	8
	1 1/4	32	216	249	19	63,5	98,4	133	130	15,5
	1 1/2	40	228,5	249	20,6	73	114,3	156	130	16,6
	2	50	266,5	281	22,4	92,1	127	165	150	18,4

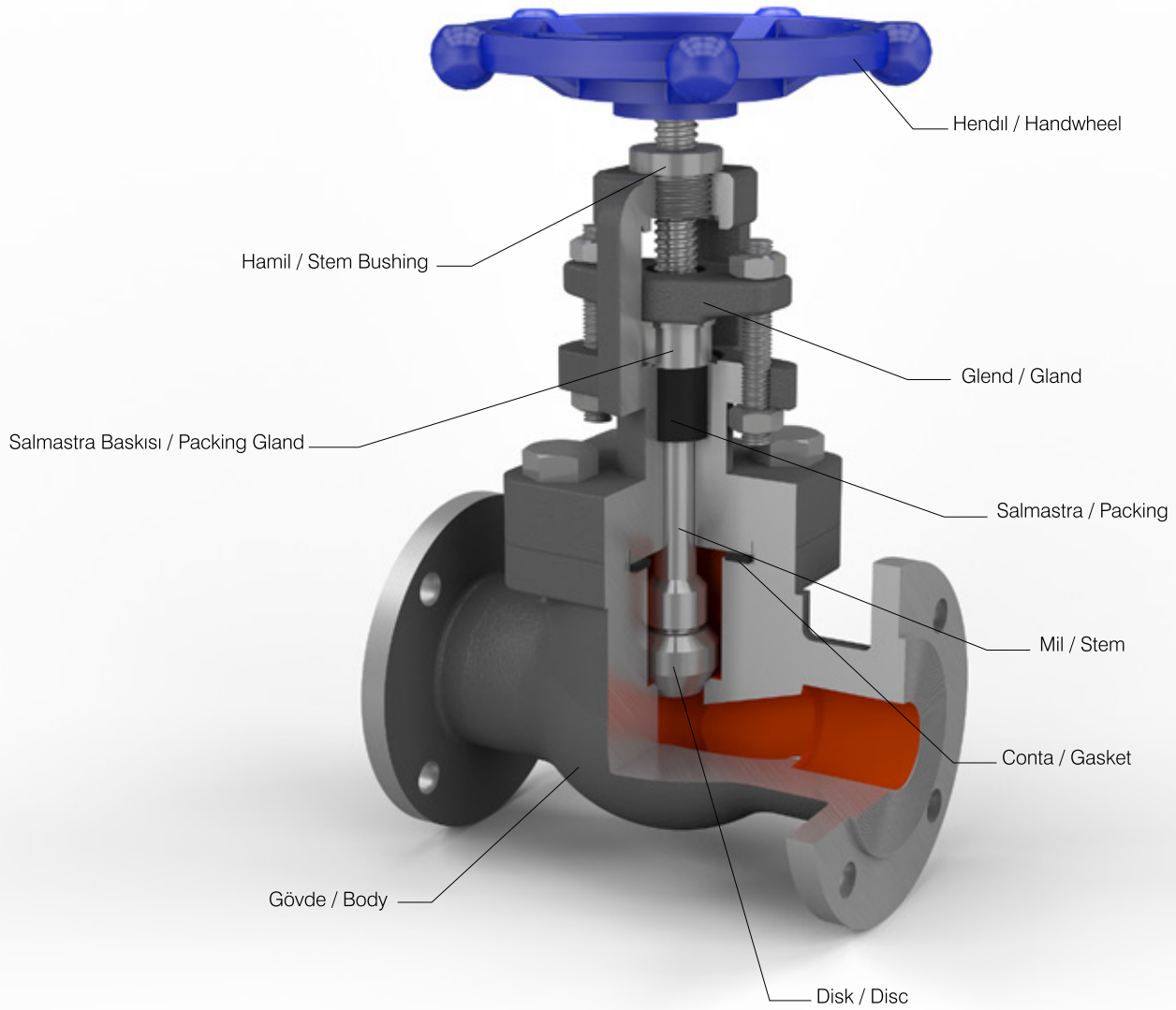
ASA 600 Figure V 3102	ÖLÇÜ / SIZE		C	H	D	Ø R	Ø G	Ø B	W	App. W
	inch	DN	mm	mm	mm	mm	mm	mm	mm	kg
	1/2	15	165	150	14,2	34,9	66,7	95	96	5
	3/4	20	190,5	162	15,7	42,9	82,6	117	96	6
	1	25	216	197	17,5	50,8	88,9	124	96	8,5
	1 1/4	32	228,5	249	20,6	63,5	98,4	133	130	15,5
	1 1/2	40	241,5	249	22,4	73	114,3	156	130	17,3
	2	50	292	281	25,4	92,1	127	165	150	20



PN 10-PN 16-PN 25-PN 40-PN 100

DÖVME ÇELİK GLOBE VALFLER

Forged Steel Globe Valves Figure V 3106-V 3107-V 3108



Design standard: API 602

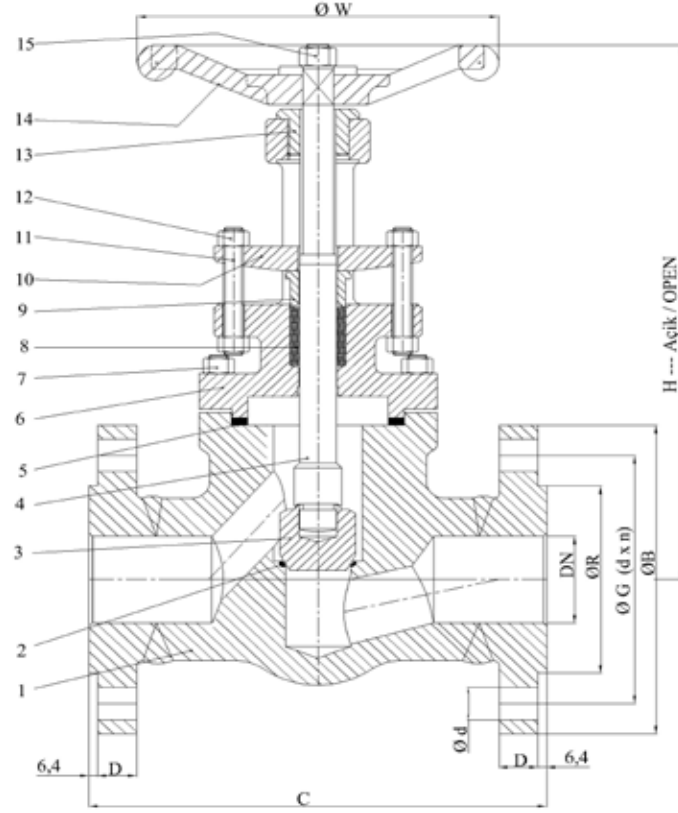
Face to face standard: DIN 3202-F1&DIN 3202-F2

Flange dimensions are according to DIN 2501

Inspection and test standard: API 598&API 602



PN 10- PN 16-PN 25- PN 40-PN 100
DÖVME ÇELİK GLOBE VALFLER
Forged Steel Globe Valves Figure V 3106-V 3107-V 3108



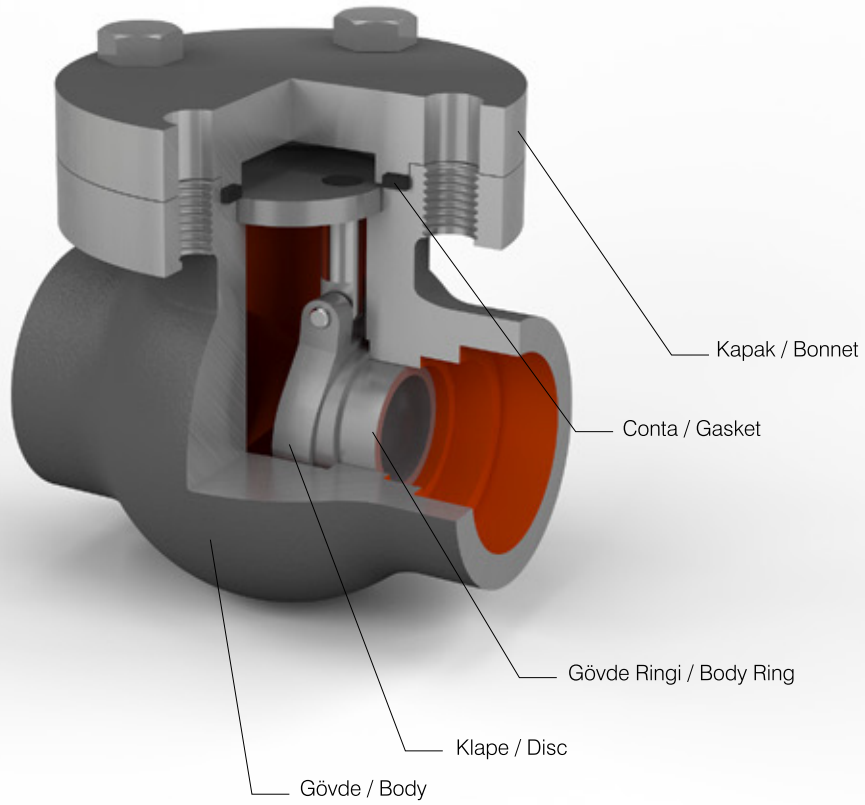
PN 10-PN 16 Figure V 3106 PN 25-PN 40 Figure V 3107	ÖLÇÜ / SIZE		C	H	D	Ø R	Ø G	Ø B	W	App. W
	inch	DN	mm	mm	mm	mm	mm	mm	mm	kg
	1/2	15	130	150	16	45	65	95	96	3,4
	3/4	20	150	162	18	58	75	105	96	4,2
	1	25	160	197	18	68	85	115	96	6
	1 1/2	40	200	249	18	88	110	150	150	12,8

PN 100 Figure V 3108	ÖLÇÜ / SIZE		C	H	D	Ø R	Ø G	Ø B	W	App. W
	inch	DN	mm	mm	mm	mm	mm	mm	mm	kg
	1/2	15	210	150	20	45	75	105	96	4,8
	1	25	230	197	24	65	100	140	130	8
	1 1/2	40	260	249	26	85	125	170	150	16,5



ASA 800 DÖVME ÇELİK SWING CHECK VALFLER

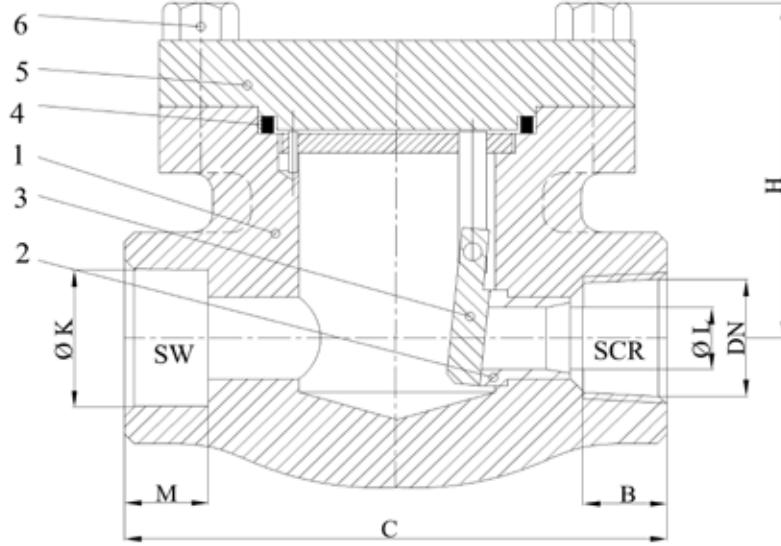
Forged Steel Swing Check Valves Figure V 4103



Design standard: API 602
Screwed ends are according to ANSI B 2.1
Socket weld ends are according to ANSI B 16.11
Inspection and test standard: API 598&API 602

ASA 800 DÖVME ÇELİK SWING CHECK VALFLER

Forged Steel Swing Check Valves Figure V 4103



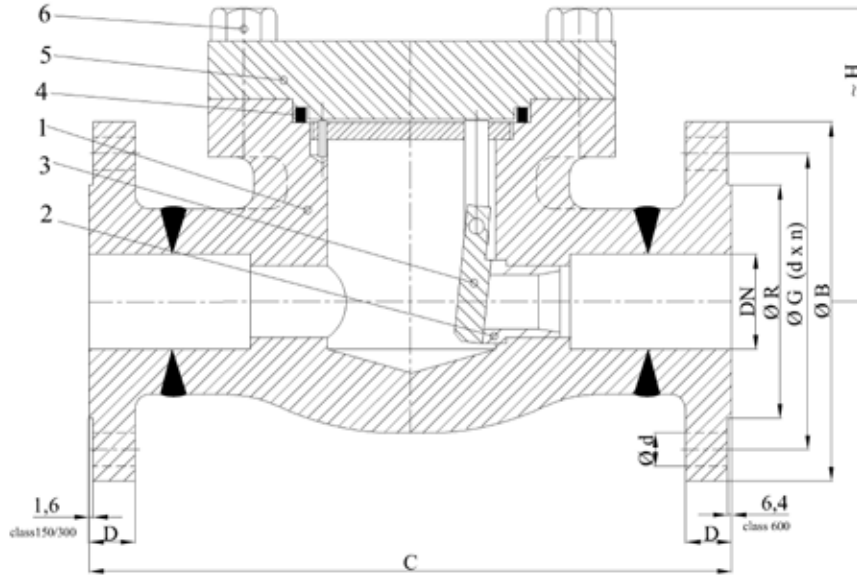
MALZEME SPESİFİKASYONLARI / Material Specifications

PARÇA ADI / PART NAME		
1	GÖVDE Body	Forged Steel
1a	GÖVDE SİT YÜZEYİ Body Seat Face	Stainless Steel
2	GÖVDE RİNGİ Body Ring	Stainless Steel
3	KLAPE Disc	Stainless Steel
4	CONTA Gasket	Spiral Wound Gasket
5	KAPAK Bonnet	Forged Steel
6	KAPAK CIVATASI Bonnet Bolt	Cr Mo Steel
7	İSİM PLAKASI Name Plate	Aluminium

ASA 800 Figure V 2300	ÖLÇÜ / SIZE		Ø K	C	Ø L	H	B	M	App. W
	inch	mm	mm	mm	mm	mm	min	min	kg
	1/2	15	22	84	8	47	13,5	10	1,2
	3/4	20	27,5	90,5	12,7	53	14	13	1,5
	1	25	34	114	17,5	69	17,5	13	2,5
	1 1/4	32	43	120,5	22,5	105	18	15	6,3
	1 1/2	40	49	120,5	28,5	105	18,5	15	6,3
	2	50	61,3	130	35	131	19	16	9,1



ASA 150-ASA 300-ASA 600
DÖVME ÇELİK SWING CHECK VALFLER
Forged Steel Swing Check Valves Figure V 4100-V 4101-V 4102

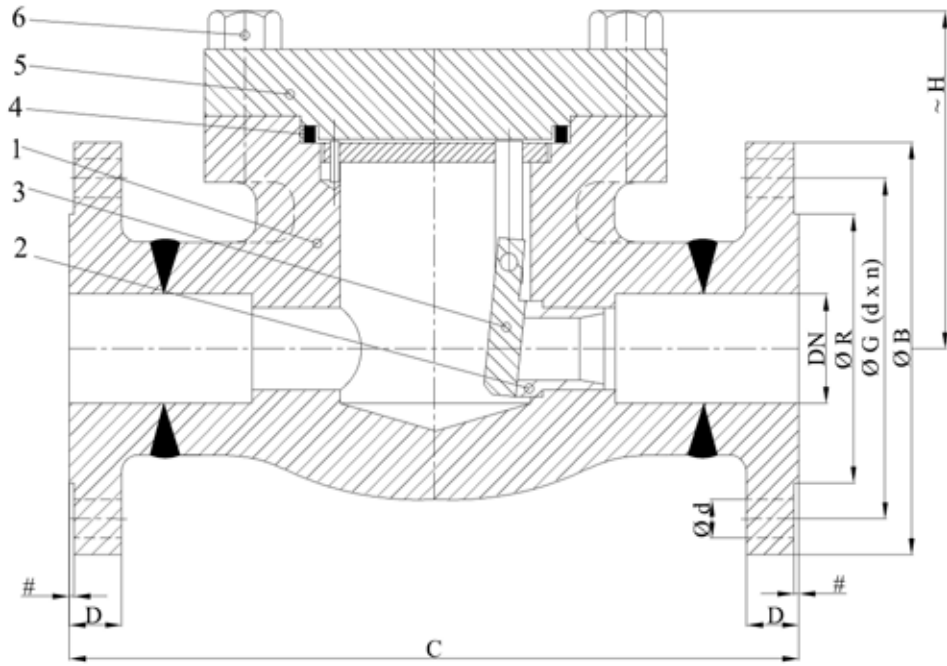


ASA 150 Figure V 4100	ÖLÇÜ / SIZE		C	H	D	Ø R	Ø G	Ø B	App.W
	inch	DN	mm	mm	mm	mm	mm	mm	kg
	1/2	15	108	47	11,2	34,9	60,3	89	2,2
	3/4	20	117,5	53	12,7	42,9	69,8	99	2,9
	1	25	127	69	14,3	50,8	79,4	108	4,6
	1 1/4	32	140	105	15,9	63,5	88,9	117	9,1
	1 1/2	40	165	105	17,5	73	98,4	127	9,8
	2	50	203	131	19,1	92,1	120,6	152	14,5

ASA 300 Figure V 4101	ÖLÇÜ / SIZE		C	H	D	Ø R	Ø G	Ø B	App.W
	inch	DN	mm	mm	mm	mm	mm	mm	kg
	1/2	15	152,5	47	14,2	34,9	66,7	95	4,2
	3/4	20	178	53	15,7	42,9	82,6	117	5
	1	25	203	69	17,5	50,8	88,9	124	6,5
	1 1/4	32	216	105	19	63,5	98,4	133	11,1
	1 1/2	40	228,5	105	20,6	73	114,3	156	13
	2	50	266,5	131	22,4	92,1	127	165	17

ASA 600 Figure V 4202	ÖLÇÜ / SIZE		C	H	D	Ø R	Ø G	Ø B	App.W
	inch	DN	mm	mm	mm	mm	mm	mm	kg
	1/2	15	165	47	14,2	34,9	66,7	95	4,2
	3/4	20	190,5	53	15,7	42,9	82,6	117	5,4
	1	25	216	69	17,5	50,8	88,9	124	7,5
	1 1/4	32	228,5	105	20,6	63,5	98,4	133	12,7
	1 1/2	40	241,5	105	22,4	73	114,3	156	15
	2	50	292	131	25,4	92,1	127	165	20

PN 10- PN 16-PN 25- PN 40-PN 100
DÖVME ÇELİK SWING CHECK VALFLER
Forged Steel Swing Check Valves Figure V 4104-V 4105-V 4106



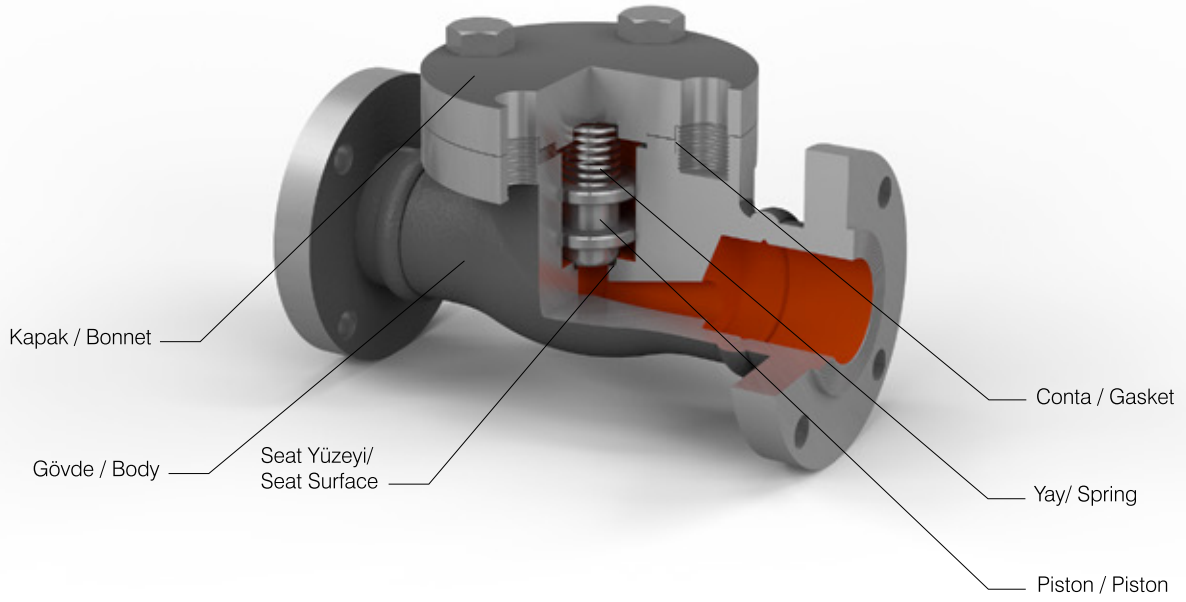
PN 10-PN 16 Figure V 4104 PN 25-PN 40 Figure V 4105	ÖLÇÜ / SIZE		C	H	D	Ø R	Ø G	Ø B	App.W
	inch	DN	mm	mm	mm	mm	mm	mm	kg
	1/2	15	130	47	16	45	65	95	2,5
	3/4	20	150	53	18	58	75	105	3,4
	1	25	160	69	18	68	85	115	5
	1 1/4	32	180	105	18	78	100	140	10
	1 1/2	40	200	105	18	88	110	150	11
	2	50	230	131	20	102	125	165	15

PN 100 Figure V4106	ÖLÇÜ / SIZE		C	H	D	Ø R	Ø G	Ø B	App.W
	inch	DN	mm	mm	mm	mm	mm	mm	kg
	1/2	15	210	47	20	45	75	105	3,5
	1	25	230	69	24	65	100	140	7,5
	1 1/2	40	260	105	26	85	125	170	14,3
	2	50	300	131	28	95	145	195	21



ASA 800 DÖVME ÇELİK PİSTON CHECK VALFLER

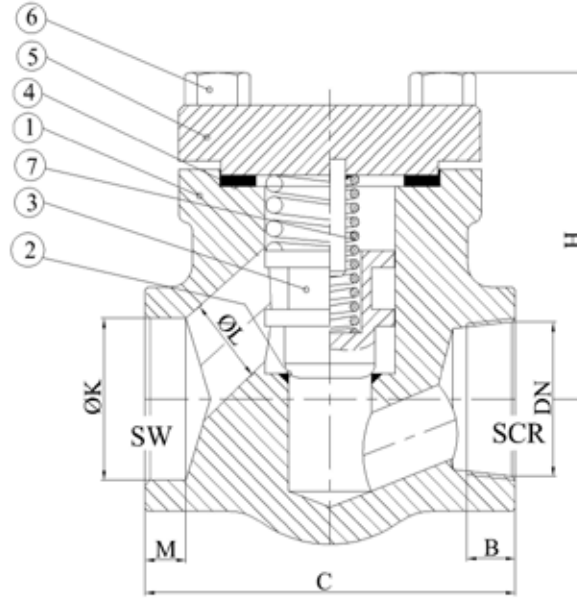
Forged Steel Piston Check Valves Figure V 4203



Design standard: API 602
Face to face standard: ANSI B16.10
Flange dimensions are according to ANSI B16.5
Inspection and test standard: API 598&API 602

ASA 800 DÖVME ÇELİK PİSTON CHECK VALFLER

Forged Steel Piston Check Valves Figure V 4203



MALZEME SPESİFİKASYONLARI / Material Specifications

PARÇA ADI / PART NAME	
1 GÖVDE Body	Forged Steel
2 GÖVDE SİT YÜZEYİ Body Seat Face	Stainless Steel
3 PİSTON Piston	Stainless Steel
4 CONTA Gasket	Spiral Wound Gasket
5 KAPAK Bonnet	Forged Steel
6 KAPAK CIVATASI Bonnet Bolt	Cr Mo Steel
7 YAY Spring	Stainless Steel
8 İSİM PLAKASI Name Plate	Aluminium

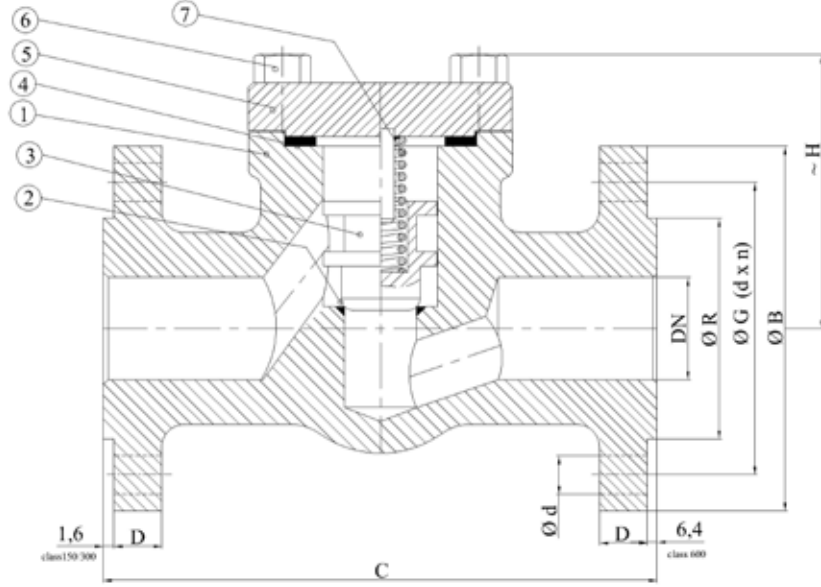
ASA 800 Figure V2300	ÖLÇÜ/SIZE		Ø K	C	Ø L	H	B	M	App. W
	inch	mm	mm	mm	mm	mm	min	min	kg
	½	15	22	84	8	47	13,5	10	1,2
	¾	20	27,5	90,5	12,7	53	14	13	1,4
	1	25	34	114	17,5	69	17,5	13	2,5
	1 ¼	32	43	120,5	22,5	105	18	15	6,3
	1 ½	40	49	120,5	28,5	105	18,5	15	4,9
	2	50	61,3	130	35	131	19	16	6,5



ASA 150-ASA 300-ASA 600

DÖVME ÇELİK PİSTON CHECK VALFLER

Forged Steel Piston Check Valves Figure V 4200-V 4201-V 4202

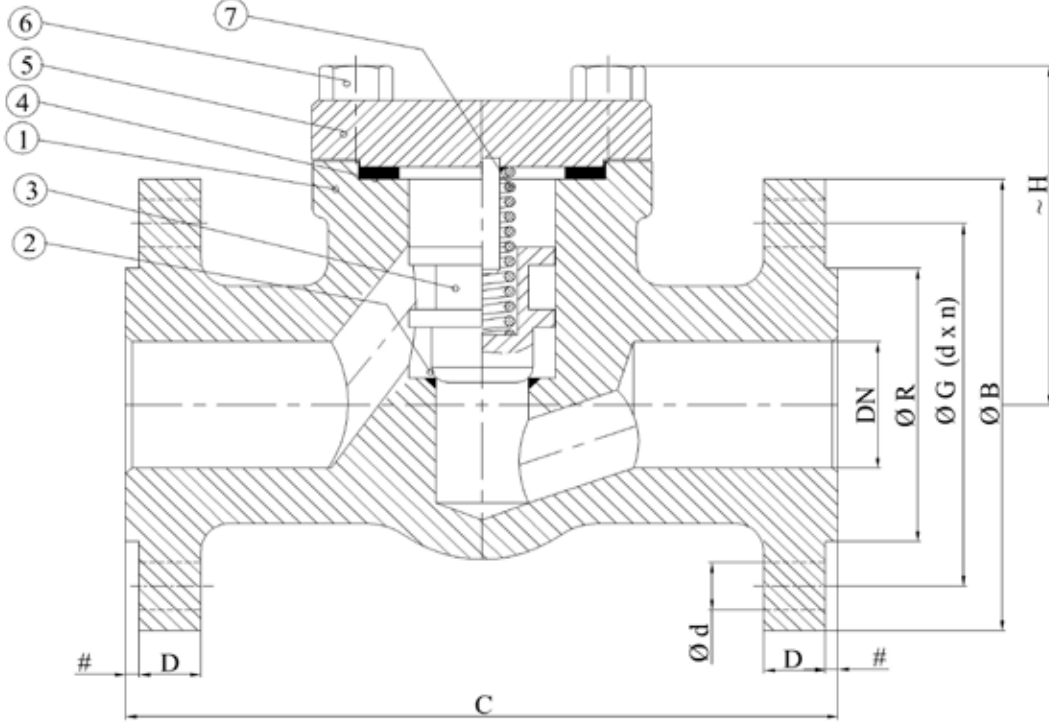


ASA 150 Figure V 4200	ÖLÇÜ/SIZE		C	H	D	Ø R	Ø G	Ø B	App. W
	inch	DN	mm	mm	mm	mm	mm	mm	kg
	1/2	15	108	47	11,2	34,9	60,3	89	2,2
	3/4	20	117,5	53	12,7	42,9	69,8	99	2,9
	1	25	127	69	14,3	50,8	79,4	108	4,6
	1 1/4	32	140	105	15,9	63,5	88,9	117	9,1
	1 1/2	40	165	105	17,5	73	98,4	127	9,8
	2	50	203	131	19,1	92,1	120,6	152	14,5

ASA 300 Figure V 4201	ÖLÇÜ/SIZE		C	H	D	Ø R	Ø G	Ø B	App. W
	inch	DN	mm	mm	mm	mm	mm	mm	kg
	1/2	15	152,5	47	14,2	34,9	66,7	95	4,2
	3/4	20	178	53	15,7	42,9	82,6	117	5
	1	25	203	69	17,5	50,8	88,9	124	6,5
	1 1/4	32	216	105	19	63,5	98,4	133	11,1
	1 1/2	40	228,5	105	20,6	73	114,3	156	13
	2	50	266,5	131	22,4	92,1	127	165	17

ASA 600 Figure V 4202	ÖLÇÜ/SIZE		C	H	D	Ø R	Ø G	Ø B	App. W
	inch	DN	mm	mm	mm	mm	mm	mm	kg
	1/2	15	165	47	14,2	34,9	66,7	95	4,2
	3/4	20	190,5	53	15,7	42,9	82,6	117	5,4
	1	25	216	69	17,5	50,8	88,9	124	7,5
	1 1/4	32	228,5	105	20,6	63,5	98,4	133	12,7
	1 1/2	40	241,5	105	22,4	73	114,3	156	15
	2	50	292	131	25,4	92,1	127	165	20

PN 25-PN 40-PN 100
DÖVME ÇELİK PİSTON CHECK VALFLER
Forged Steel Piston Check Valves Figure V 4204-V 4205



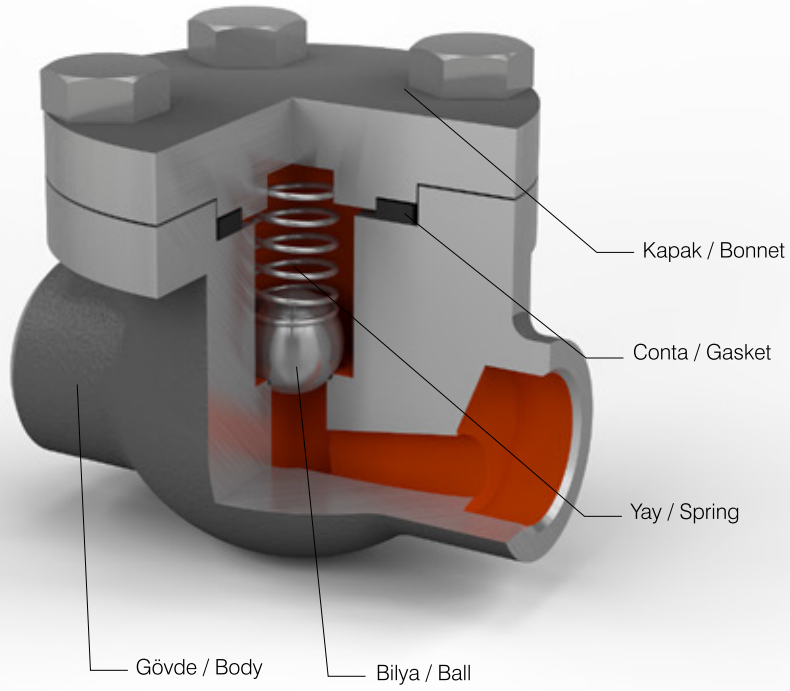
PN 25 -PN 40 Figure V 4204	ÖLÇÜ/SIZE		C	H	D	Ø R	Ø G	Ø B	App. W
	inch	DN	mm	mm	mm	mm	mm	mm	kg
	1/2	15	130	47	16	45	65	95	2,5
	3/4	20	150	53	18	58	75	105	3,4
	1	25	160	69	18	68	85	115	5
	1 1/4	32	180	105	18	78	100	140	10
	1 1/2	40	200	105	18	88	110	150	11
	2	50	230	131	20	102	125	165	15

PN 100 Figure V 4205	ÖLÇÜ/SIZE		C	H	D	Ø R	Ø G	Ø B	App. W
	inch	DN	mm	mm	mm	mm	mm	mm	kg
	1/2	15	210	47	20	45	75	105	3,5
	1	25	230	69	24	65	100	140	7,5
	1 1/2	40	260	105	26	85	125	170	14,3
	2	50	300	131	28	95	145	195	21



ASA 800 DÖVME ÇELİK KÜRE CHECK VALFLER

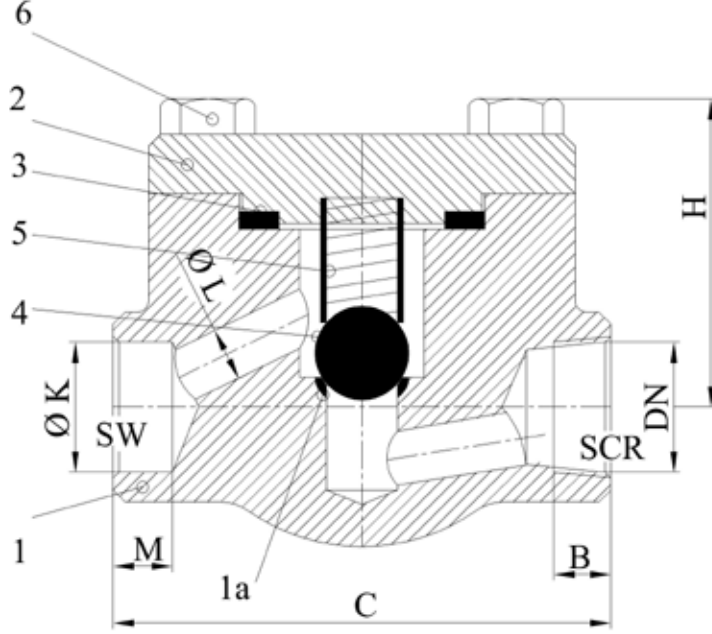
Forged Steel Ball Check Valves Figure V 4303



Design standard: API 602
Face to face standard: DIN 3202-F1&DIN 3202-F2
Flange dimensions are according to DIN 2501
Inspection and test standard: API 598&API 602

ASA 800 DÖVME ÇELİK KÜRE CHECK VALFLER

Forged Steel Ball Check Valves Figure V 4303



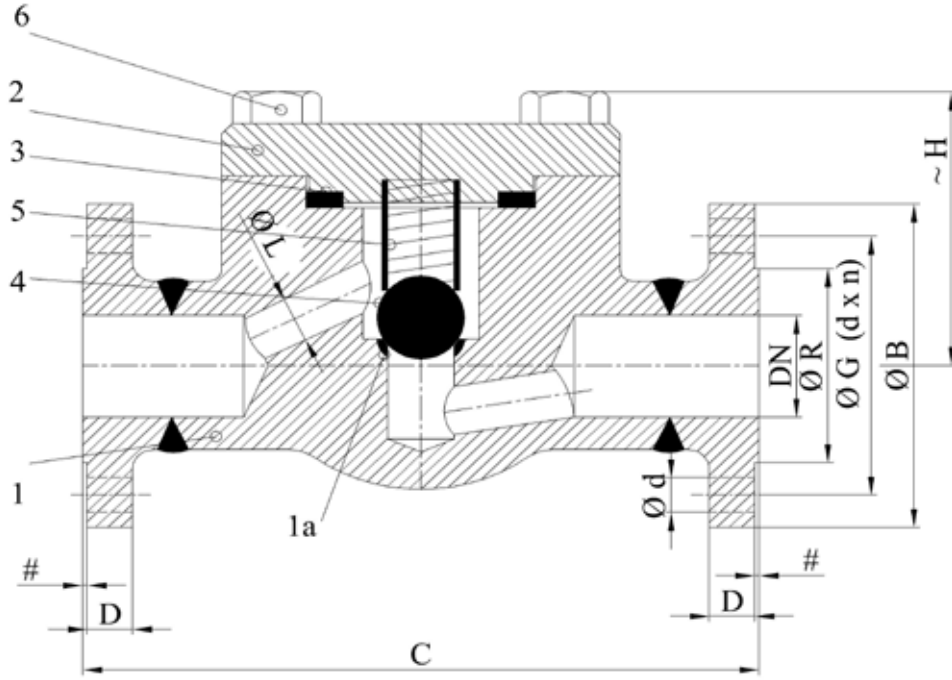
MALZEME SPESİFİKASYONLARI / Material Specifications

PARÇA ADI / PART NAME	
1 GÖVDE Body	Forged Steel
1a GÖVDE SİT YÜZEYİ Body Seat Face	Stainless Steel
2 KAPAK Bonnet	Forged Steel
3 CONTA Gasket	Spiral Wound Gasket
4 BİLYA Ball	Stainless Steel
5 YAY Spring	Stainless Steel
6 KAPAK CIVATASI Bonnet Bolt	Cr Mo Steel
7 İSİM PLAKASI Name Plate	Aluminium

ASA 800 Figure V 2300	ÖLÇÜ/SIZE		Ø K	C	Ø L	H	B	M	App. W
	inch	mm	mm	mm	mm	mm	min	min	kg
	1/2	15	22	84	8	47	13,5	10	1,2
	3/4	20	27,5	90,5	12,7	53	14	13	1,4
	1	25	34	114	17,5	69	17,5	13	2,5
	1 1/4	32	43	120,5	22,5	105	18	15	6,3
	1 1/2	40	49	120,5	28,5	105	18,5	15	6,3
	2	50	61,3	130	35	131	19	16	9,1



ASA 150-ASA 300-ASA 600
DÖVME ÇELİK KÜRE CHECK VALFLER
Forged Steel Ball Check Valves Figure V 4300-V 4301-V 4302



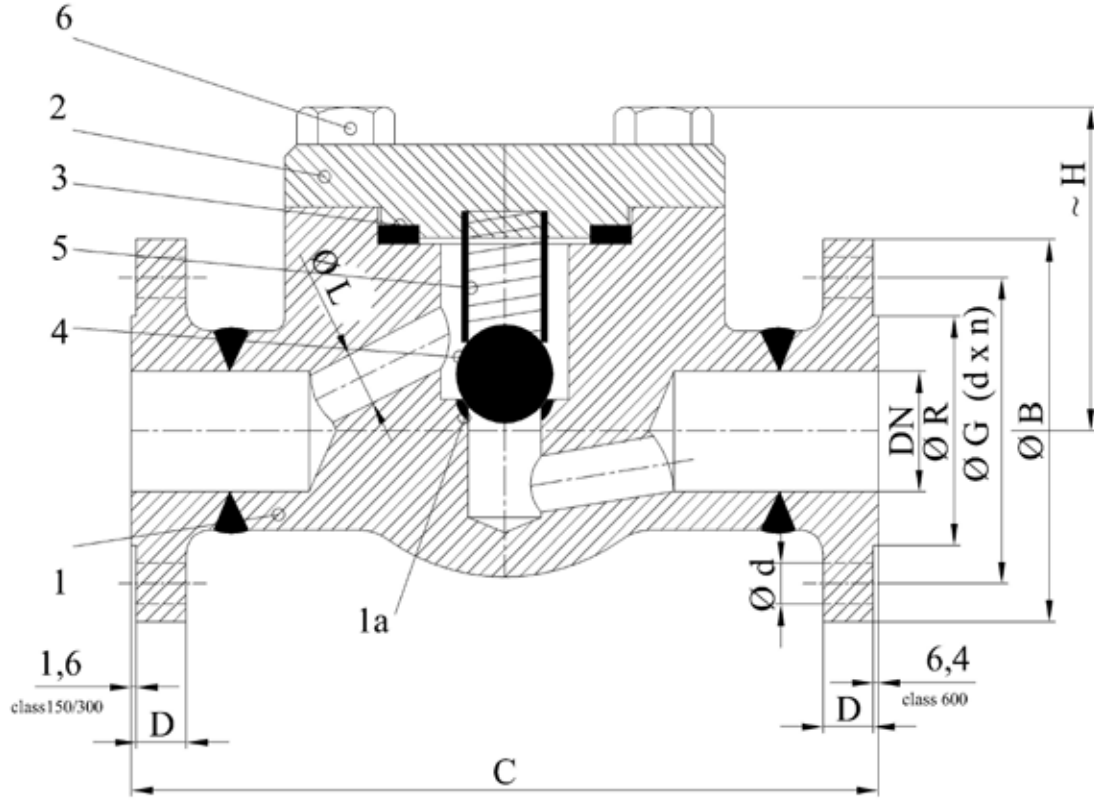
ASA 150 Figure V4300	ÖLÇÜ/SIZE		C	H	D	Ø R	Ø G	Ø B	App. W
	inch	DN	mm	mm	mm	mm	mm	mm	kg
	1/2	15	108	47	11,2	34,9	60,3	89	2,2
	3/4	20	117,5	53	12,7	42,9	69,8	99	2,9
	1	25	127	69	14,3	50,8	79,4	108	4,6
	1 1/4	32	140	105	15,9	63,5	88,9	117	9,1
	1 1/2	40	165	105	17,5	73	98,4	127	9,8
	2	50	203	131	19,1	92,1	120,6	152	14,5

ASA 300 Figure V4301	ÖLÇÜ/SIZE		C	H	D	Ø R	Ø G	Ø B	App. W
	inch	DN	mm	mm	mm	mm	mm	mm	kg
	1/2	15	152,5	47	14,2	34,9	66,7	95	4,2
	3/4	20	178	53	15,7	42,9	82,6	117	5
	1	25	203	69	17,5	50,8	88,9	124	6,5
	1 1/4	32	216	105	19	63,5	98,4	133	11,1
	1 1/2	40	228,5	105	20,6	73	114,3	156	13
	2	50	266,5	131	22,4	92,1	127	165	17

ASA 600 Figure V4302	ÖLÇÜ/SIZE		C	H	D	Ø R	Ø G	Ø B	App. W
	inch	DN	mm	mm	mm	mm	mm	mm	kg
	1/2	15	165	47	14,2	34,9	66,7	95	4,2
	3/4	20	190,5	53	15,7	42,9	82,6	117	5,4
	1	25	216	69	17,5	50,8	88,9	124	7,5
	1 1/4	32	228,5	105	20,6	63,5	98,4	133	12,7
	1 1/2	40	241,5	105	22,4	73	114,3	156	15
	2	50	292	131	25,4	92,1	127	165	20



PN 25-PN 40-PN 100
DÖVME ÇELİK KÜRE CHECK VALFLER
Forged Steel Ball Check Valves Figure V 4304-V 4305



PN 25 - PN 40 Figure V 4304	ÖLÇÜ/SIZE		C	H	D	Ø R	Ø G	Ø B	App. W
	inch	DN	mm	mm	mm	mm	mm	mm	kg
	1/2	15	130	47	16	45	65	95	2,5
	3/4	20	50	53	18	58	75	105	3,4
	1	25	160	69	18	68	85	115	5
	1 1/4	32	180	105	18	78	100	140	10
	1 1/2	40	200	105	18	88	110	150	11
	2	50	230	131	20	102	125	165	15

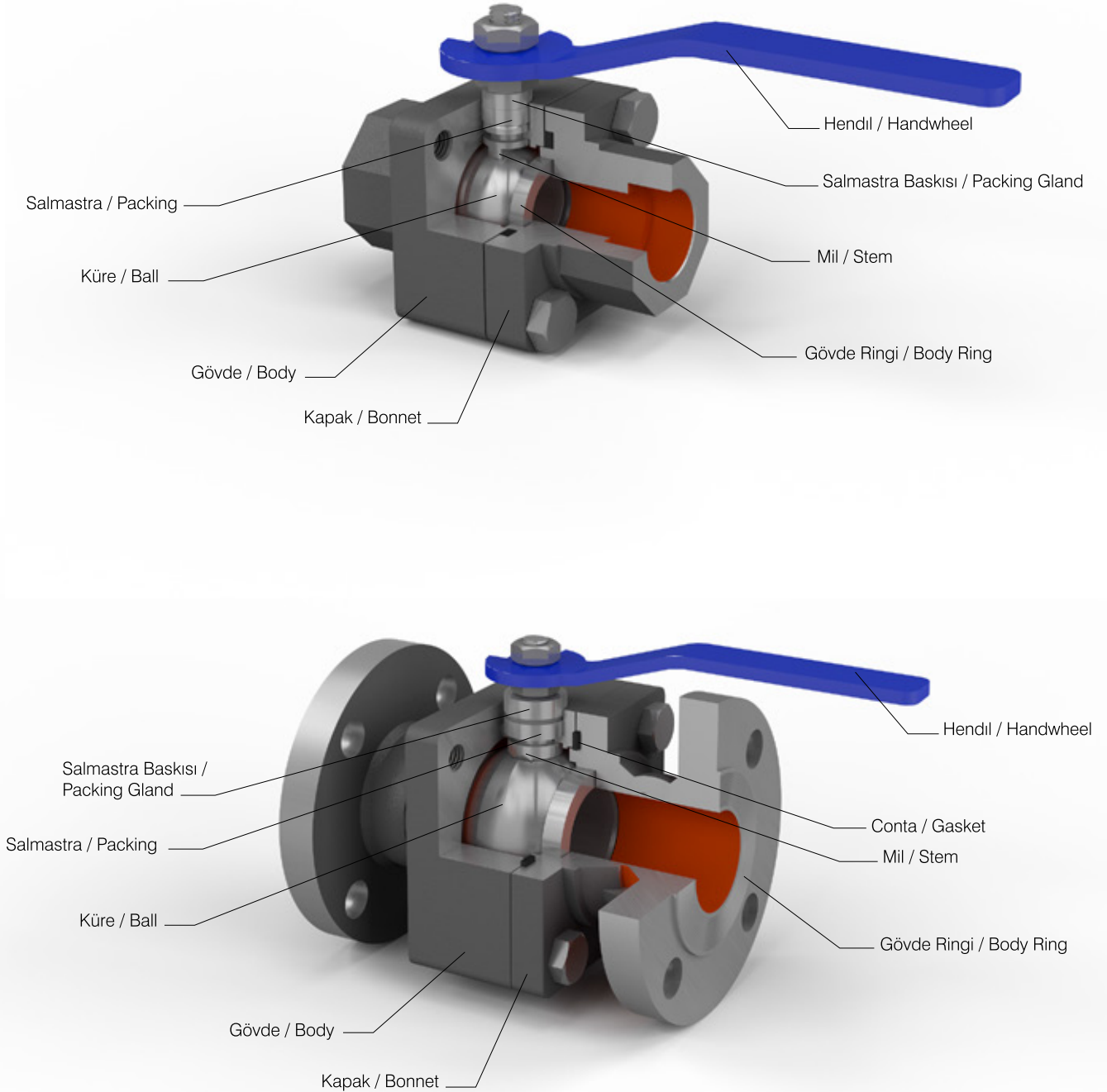
PN 100 Figure V 4305	ÖLÇÜ/SIZE		C	H	D	Ø R	Ø G	Ø B	App. W
	inch	DN	mm	mm	mm	mm	mm	mm	kg
	1/2	15	210	47	20	45	75	105	3,5
	1	25	230	69	24	65	100	140	7,5
	1 1/2	40	260	105	26	85	125	170	14,3
	2	50	300	131	28	95	145	195	21

Not: Ölçü, basınç sınıfı, bağlantı, model, gövde ve trim malzemesi seçimleri müşteri tarafından sipariş kodlarına göre yapılır.
Note: Dimensions, pressure class, connection type, model, body and trim materials are specified by purchaser according to the order codes.



ASA 800-ASA 1500 DÖVME ÇELİK KÜRE VALFLER

Forged Steel Ball Valves Figure V 5103-V 5104



Design standard: API 602
Screwed ends are according to ANSI B 2.1
Socket weld ends are according to ANSI B 16.11
Inspection and test standard: API 598&API 602

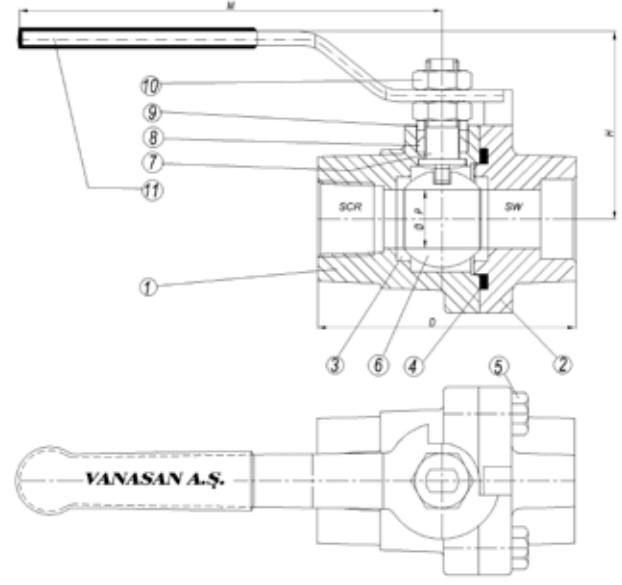
ASA 800-ASA 1500 DÖVME ÇELİK KÜRE VALFLER

Forged Steel Ball Valves Figure V 5103-V 5104



MALZEME SPESİFİKASYONLARI / Material Specifications

PARÇA ADI / PART NAME		
1 GÖVDE Body	Forged Steel	
2 KAPAK Bonnet	Forged Steel	
3 RİNG (BODY SEAT) Ring	PTFE / RTFE / PEEK / DELRIN	
4 CONTA Gasket	Spiral Wound Gasket	
5 CİVATA Stud - Bolt	CrMo Steel	
6 KÜRE Ball	Stainless Steel	
7 MİL Stem	Stainless Steel	
8 SALMASTRA Packing	Teflon PTFE	
9 SALM. BASKISI Packing Gland	Stainless Steel	
10 SOMUN Nut	Galvanized	
11 HENDİL Handwheel	Steel	
12 İSİM PLAKASI Name Plate	Aluminium	



ASA 800 Figure V 5103	ÖLÇÜ / SIZE		Ø P	M	D	H	App.W	REDUCED PORT
	inch	DN	mm	mm	mm	mm	kg	
	1/2	15	11	155	105	65	1,6	
	3/4	20	15	155	108	65	1,8	
	1	25	20	155	110	72	2	
	1 1/4	32	25	180	116	80	2,6	
	1 1/2	40	32	180	120	80	2,7	

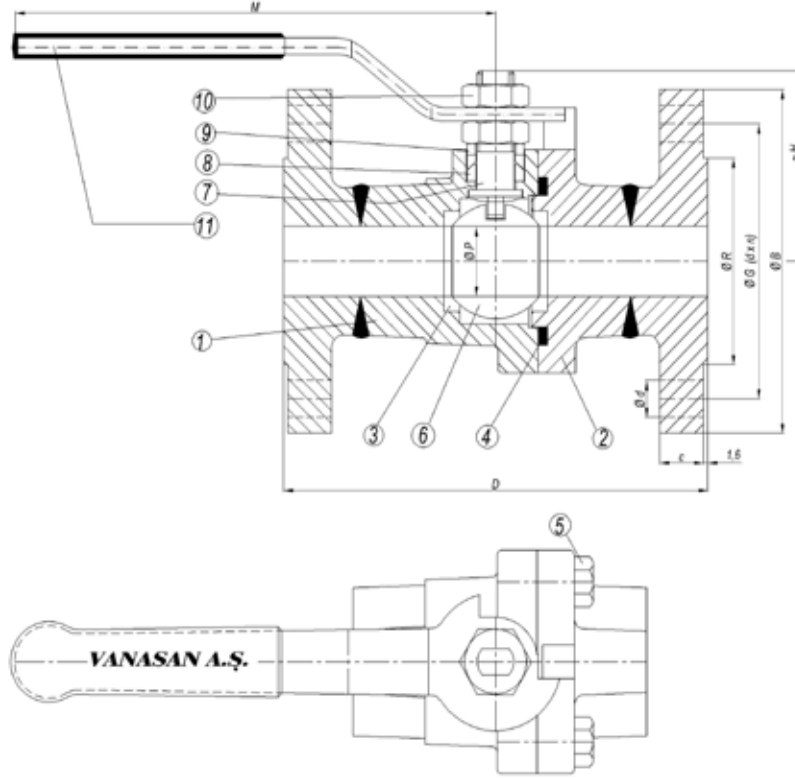
ASA 800 Figure V 5103	ÖLÇÜ / SIZE		Ø P	M	D	H	App.W	FULL PORT
	inch	DN	mm	mm	mm	mm	kg	
	1/2	15	15	155	108	72	1,8	
	3/4	20	20	155	110	72	2	
	1	25	25	180	116	80	2,2	
	1 1/4	32	32	180	120	80	2,7	
	1 1/2	40	40	200	130	100	3,5	

ASA 1500 Figure V 5103	ÖLÇÜ / SIZE		Ø P	M	D	H	App.W	FULL PORT
	inch	DN	mm	mm	mm	mm	kg	
	1/2	15	14	170	110	101	1,8	
	3/4	20	20	170	110	101	2	
	1	25	25	213	135	118	3	
	1 1/2	40	40	250	160	117	3,5	



ASA 150-ASA 300 DÖVME ÇELİK KÜRE VALFLER

Forged Steel Ball Valves Figure V 5100-V 5101



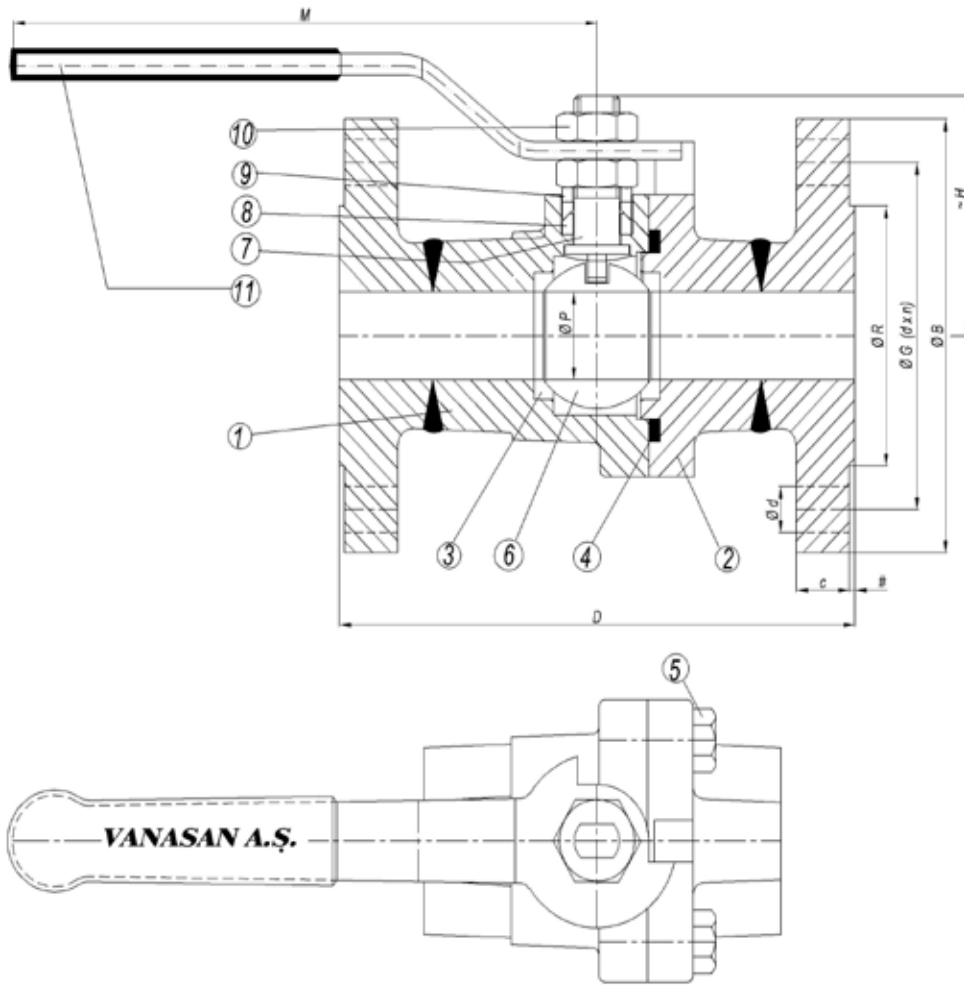
ASA 150 Figure V 5100	ÖLÇÜ / SIZE		Ø P	M	D	H	Ø R	Ø G	Ø B	C	Ø D	App.W	REDUCED PORT
	inch	DN	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
	¾	20	15	130	117,5	80	43	69,8	99	11,4	15,8	2,2	
	1	25	20	160	127	88,5	50,8	79,4	108	13	15,8	2,5	
	1 ½	40	32	180	165	105	73	98,4	127	16	16	5,8	
	2	50	40	213	178	103,5	92,1	120,6	152	19,5	19	-	

ASA 150 Figure V 5100	ÖLÇÜ / SIZE		Ø P	M	D	H	Ø R	Ø G	Ø B	C	Ø D	App.W	FULL PORT
	inch	DN	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
	½	15	15	160	108	77	35	60,3	89	10	15,8	2,4	
	¾	20	20	160	117,5	69	43	69,8	99	11,4	15,8	2,7	
	1	25	25	180	127	90	50,8	79,4	108	12,7	15,8	6	
	1 ½	40	40	200	165	100	73	98,4	127	16,4	15,8	7	

ASA 300 Figure V 5101	ÖLÇÜ / SIZE		Ø P	M	D	H	Ø R	Ø G	Ø B	C	Ø D	App.W	REDUCED PORT
	inch	DN	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
	¾	20	15	160	152	80	43	82,6	117	14,1	19	5,4	
	1	25	20	160	165	90	50,8	88,9	124	16	19	6	
	1 ½	40	32	180	190	105	73	114,3	156	19	22,2	6,2	
	2	50	40	220	216	120	92,1	127	165	21,4	19	-	

ASA 300 Figure V 5101	ÖLÇÜ / SIZE		Ø P	M	D	H	Ø R	Ø G	Ø B	C	Ø D	App.W	FULL PORT
	inch	DN	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
	1	25	25	180	165	107	50,8	89	124	17	19	6,6	
	1 ½	40	40	225	190	110	73	114,3	156	19,4	22,2	10,5	

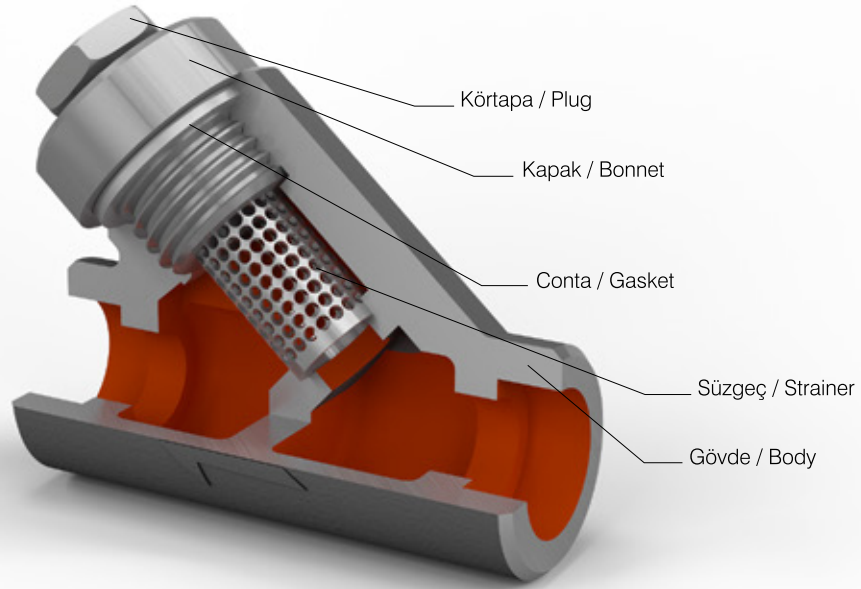
PN 10-PN 16-PN 25- PN 40 DÖVME ÇELİK KÜRE VALFLER
Forged Steel Ball Valves Figure V 5105-V 5106



PN10-PN16 Figure V 5105 PN25-PN40 Figure V 5106	ÖLÇÜ / SIZE		Ø P	M	D	H	Ø R	Ø G	Ø B	C	Ø D	App.W	FULL PORT
	inch	DN	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	
	1/2	15	15	160	130	66,5	45	65	95	16	14	3,2	
	3/4	20	20	160	150	84	58	75	105	16,4	14	3,8	
	1	25	25	180	160	90	68	85	115	16,4	14	5,7	
	1 1/4	32	32	180	180	84	78	100	140	16,4	18	10,5	



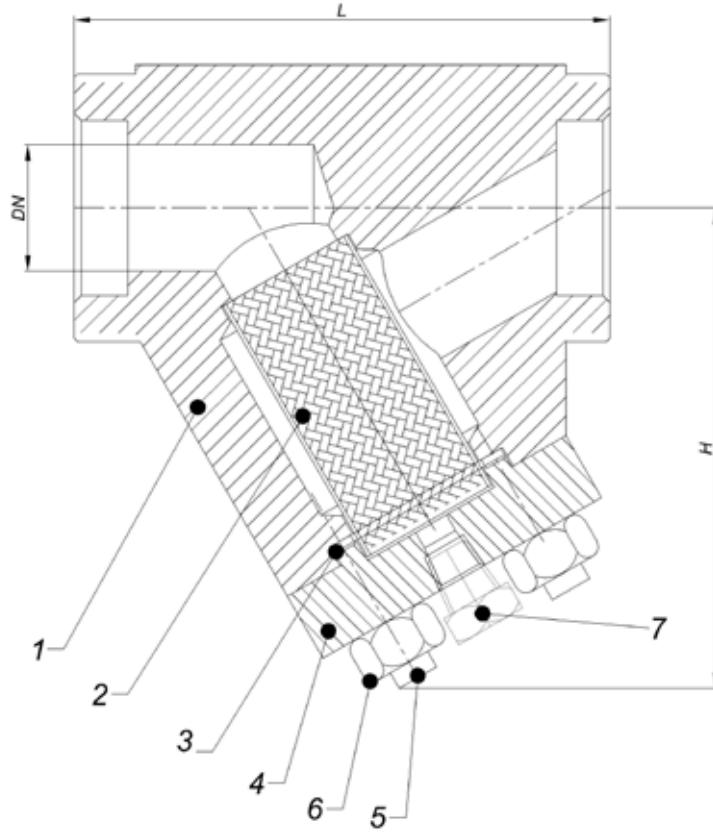
ASA 800 DÖVME ÇELİK Y TİPİ PİSLİK TUTUCULAR Forged Steel Y Type Strainers Figure V 5400



Design standard: API 602
Screwed ends are according to ANSI B 2.1
Socket weld ends are according to ANSI B 16.11
Inspection and test standard: API 598&API 602

ASA 800 DÖVME ÇELİK Y TİPİ PİSLİK TUTUCULAR

Forged Steel Y Type Strainers Figure V 5400



MALZEME SPESİFİKASYONLARI / Material Specifications

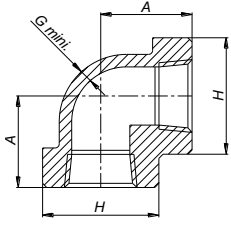
PARÇA ADI / PART NAME	
1 GÖVDE Body	Forged Steel
2 SÜZGEÇ Strainer	Stainless Steel
3 CONTA Gasket	Graphite or Spiral Wound Gasket
4 KAPAK Bonnet	Steel
5 KAPAK SAPLAMALARI Bonnet Stud Bolt	Cr Mo Steel
6 KAPAK SAP SOMUNLARI Bonnet Stud Bolt Nut	Carbon Steel
7 KÖRTAPA Plug	Carbon Steel
8 İSİM PLAKASI Name Plate	Aluminium

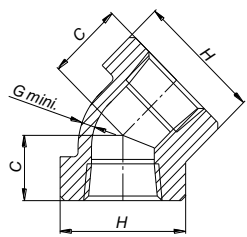
ASA 800 Figure V 5400	ÖLÇÜ / SIZE					
	inch	mm	mm	mm	mm	AppW
	1/4	6	6	81	70	2,3
	3/4	20	20	108	86,5	5,5
	1	25	25	135	121	10
	1½	40	40	150	122	14
	2	50	50	170	148	22

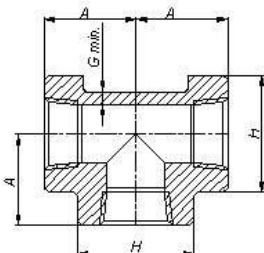
Not: Ölçü, basınç sınıfı, bağlantı, model, gövde ve trim malzemesi seçimleri müşteri tarafından sipariş kodlarına göre yapılır.
Note: Dimensions, pressure class, connection type, model, body and trim materials are specified by purchaser according to the order codes.

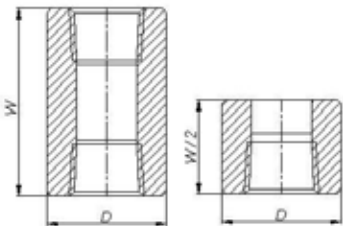


THREADED FITTINGS

90° Elbows / Dirsek 3000 lb - 6000lb		Forged Steel/Dövme çelik			Thread according to ANSI B1.20.1 Dimensions according to ANSI B 16.11		
	3000			6000			
	SIZE	A	H	G	A	H	G
		mm	mm	Mm/ min.	mm	mm	mm
	¼	25	25	3,5	29	33	6,5
	3/8	29	33	3,5	33	38	7,0
	½	33	38	4,0	38	46	8,0
	¾	38	46	4,5	44	56	8,5
	1	44	56	5,0	51	62	10,0
	1 ¼	51	62	5,5	60	75	10,5
	1 ½	60	75	5,5	64	84	11,0
2	64	84	7,0	8	102	12,0	

45° Elbows / Dirsek		Forged Steel/Dövme çelik			Thread according to ANSI B1.20.1		
3000 lb - 6000lb					Dimensions according to ANSI B 16.11		
	3000			6000			
	SIZE	C	H	G	C	H	G
		mm	mm	Mm/ min.	mm	mm	mm
	¼	19	25	3,5	22	33	6,5
	3/8	22	33	3,5	25	38	7,0
	½	25	38	4,0	29	46	8,0
	¾	29	46	4,5	33	56	8,5
	1	33	56	5,0	35	62	10,0
	1 ¼	35	62	5,5	43	75	10,5
	1 ½	43	75	5,5	44	84	11,0
2	45	84	7,0	52	102	12,0	

Tees		Forged Steel/Dövme çelik			Thread according to ANSI B1.20.1		
3000 lb - 6000lb					Dimensions according to ANSI B 16.11		
	3000			6000			
	SIZE	A	H	G	A	H	G
		mm	mm	Mm/ min.	mm	mm	mm
	¼	25	25	3,5	29	33	6,5
	3/8	29	33	3,5	33	38	7,0
	½	33	38	4,0	38	46	8,0
	¾	38	46	4,5	44	56	8,5
	1	44	56	5,0	51	62	10,0
	1 ¼	51	62	5,5	60	75	10,5
	1 ½	60	75	5,5	64	84	11,0
	2	64	84	7,0	83	102	12,0

Coupling and half coupling / Manşon/Yarım manşon 3000 lb - 6000lb		Carbon Steel/Karbon çeliği		Thread according to ANSI B1.20.1 Dimensions according to ANSI B 16.11		
	2000-3000		6000			
	SIZE	W	D	W	D	
		mm	mm	mm	mm	
	1/4	35	19	35	25	
	3/8	38	22	38	32	
	1/2	48	29	48	38	
	3/4	51	35	51	44	
	1	60	44	60	57	
	1 1/4	67	57	67	64	
	1 1/2	79	64	79	76	
	2	86	76	86	92	

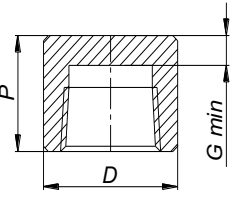


THREADED FITTINGS

Cap / Kep
3000 lb- 6000lb

Carbon Steel / Karbon Çeliği

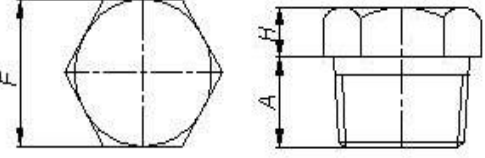
Thread according to ANSI B1.20.1
Dimensions according to ANSI B 16.11

	2000-3000			6000		
	SIZE	mm	mm	mm / min.	mm	mm
	1/4	25	19	5,0	27	25
	3/8	25	22	5,0	27	32
	1/2	32	29	6,5	33	38
	3/4	37	35	6,5	38	44
	1	41	44	9,5	43	57
	1 1/4	44	57	9,5	46	64
	1 1/2	44	64	11,0	48	76
	2	48	76	12,5	51	92

Hex. Head Plug / Altıköşe Körtapa
3000 lb- 6000lb

Carbon Steel / Karbon Çeliği

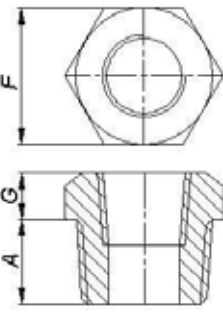
Thread according to ANSI B1.20.1
Dimensions according to ANSI B 16.11

	2000-3000-6000		
	SIZE	A min	H min
		mm	mm
	1/4	11,0	6
	3/8	12,5	8
	1/2	14,5	8
	3/4	16,0	10
	1	19,0	10
	1 1/4	20,5	14
	1 1/2	20,5	16
	2	22,0	17

Hex. Head Bushing / Altıköşe Buşing
3000 lb- 6000lb

Carbon Steel / Karbon Çeliği

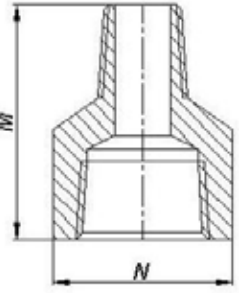
Thread according to ANSI B1.20.1
Dimensions according to ANSI B 16.11

	2000-3000-6000		
	SIZE	A min	G min
		mm	mm
	3/8 x 1/4	12,5	4
	1/2 x 3/8	14,5	5
	1/2 x 1/4	14,5	5
	3/4 x 1/2	16,0	6
	3/4 x 1/4	16,0	6
	1 x 3/4	19,0	6
	1 x 1/2	19,0	6
	1 x 1/4	19,0	6
	1 1/4 x 1	20,5	7
	1 1/2 x 1	20,5	8
	1 1/2 x 3/4	20,5	8
	1 1/2 x 1/2	20,5	8
	2 x 1 1/2	22,0	9

Female - male REDUCER / Erkek - dişi Redüksiyon
3000 lb

Carbon Steel / Karbon Çeliği

Thread according to ANSI B1.20.1
*Dimensions according to manufacturer

	3000	
	SIZE	N *
	M*	mm
	3/8 x 1/4	22
	1/2 x 3/8	28
	1/2 x 1/4	28
	3/4 x 1/2	35
	1 x 3/4	45
	1 x 1/2	45
	1 x 1/4	45
	1 1/4 x 1	60
	1 1/2 x 1	65
	1 1/2 x 3/4	65
	1 1/2 x 1/2	65
	2 x 1 1/2	76
	2 x 1	76

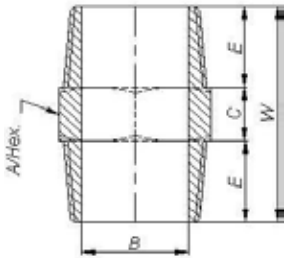


THREADED FITTINGS

Hex.Nipp le
3000 lb - 6000lb

Carbon Steel / Karbon Çeliği

Thread according to ANSI B1.20.1
Dimensions according to BS 3799

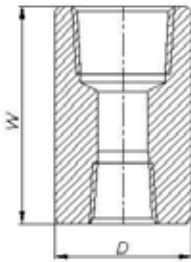


	A	E	C	W	B	
SIZE	(min)	(min)	(min)	(min)	3000	6000
	mm	mm	mm	mm	mm	mm
1/4	25	19	5,0	27	25	6,5
3/8	25	22	5,0	27	32	6,5
1/2	32	29	6,5	33	38	8,0
3/4	37	35	6,5	38	44	8,0
1	41	44	9,5	43	57	11,0
1 1/4	44	57	9,5	46	64	11,0
1 1/2	44	64	11,0	48	76	12,5

Red.Caupling / Red.Manşon
3000 lb - 6000lb

Carbon Steel/Karbon çeliği

Thread according to ANSI B1.20.1
Dimensions according to ANSI B16.11

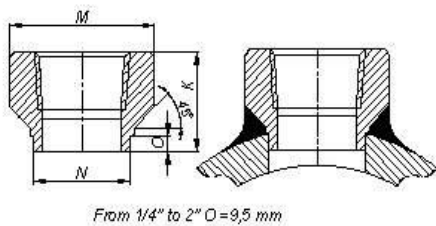


	2000-3000		6000	
SIZE	W	D	W	D
	mm	mm	mm	mm
3/8x1/4	38	22	38	32
1/2x3/8	48	28,5	48	38
3/4x1/2	51	35	51	44,5
1x1/2	60	44,5	60	57
1 1/2x1	79	63,5	79	76
1 1/2x1/2	79	63,5	79	76
2x1 1/2	86	76	86	92
2x1	86	76	86	92

Weld. Boss/Boss
3000 lb - 6000lb

Carbon Steel / Karbon Çeliği

Thread according to ANSI B1.20.1
* Dimensions according to Manufacturer.

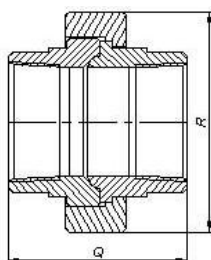


	3000 - 6000		
SIZE	K*	M*	N*
	mm	mm	mm
1/4	30,5	28,0	14,0
3/8	30,5	32,0	17,4
1/2	33,5	38,0	21,6
3/4	35,0	44,5	26,9
1	43,0	57,5	33,6
1 1/4	48,0	63,5	42,4
1 1/2	51,0	76,1	48,5
2	57,5	92,0	60,9

Female - female Union /Dişi - Dişi Rekor
3000 lb - 6000lb

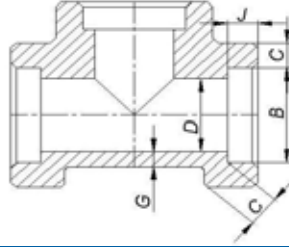
Carbon Steel/Karbon çeliği

Thread according to ANSI B1.20.1
Dimensions according to Manufacturer.



	2000 - 3000		6000	
SIZE	Q	R	Q	R
	mm	mm	mm	mm
1/4	42,5	36,0	54,0	46,0
3/8	47,5	41,0	57,0	51,0
1/2	52,0	46,0	69,0	60,0
3/4	57,0	56,0	72,0	72,0
1	63,0	65,0	80,0	80,0
1 1/4	68,0	80,0	89,0	94,0
1 1/2	78,0	88,0	108,0	100,0
2	91,0	105,0	114,0	122,0

SOCKET WELDING FITTINGS



DIMENSIONS OF SOCKET WELDING FITTINGS

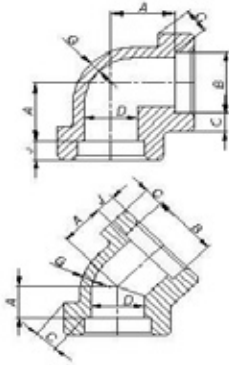
According to ASME B 16.11

Pipe SIZE		1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	
B		Min.	10,65	14,10	17,55	21,70	27,05	33,8	42,55	48,65	61,1	73,8	89,30	115,45
		Max.	11,15	14,60	18,05	22,2	27,55	34,3	43,05	49,15	61,6	74,45	90,4	116,05
D	3000	Min.	6,1	8,5	11,8	15,0	20,2	25,9	34,3	40,1	51,7	61,2	76,4	100,7
		Max.	7,6	10,0	13,3	16,6	21,7	27,4	35,8	41,7	53,5	64,2	79,5	103,8
	6000	Min.	3,2	5,6	8,4	11,0	14,8	19,9	28,7	33,2	42,1			
		Max.	4,8	7,1	9,9	12,5	16,3	21,5	30,2	34,7	43,6			
C	3000	Moy.	3,2	3,8	4,00	4,65	4,9	5,7	6,05	6,35	6,95	8,75	9,5	10,7
		Min.	3,2	3,3	3,50	4,1	4,25	5,0	5,30	5,55	6,05	7,65	8,3	9,35
	6000	Moy.	3,95	4,6	5,05	5,95	6,95	7,9	7,9	8,9	10,9			
		Min.	3,45	4,0	4,35	5,2	6,05	6,95	6,95	7,8	9,5			
G min.	3000 lb.		2,4	3,0	3,2	3,75	3,9	4,55	4,85	5,1	5,55	7,00	7,60	8,55
	6000 lb.		3,15	3,7	4,0	4,8	5,55	6,35	6,35	7,15	8,75			
J min.			10	10	10	10	13	13	13	13	16	16	16	19

Center to Bottom of socket A

90°

45°



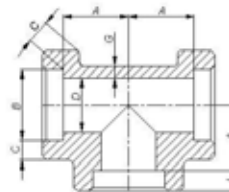
PIPE SIZE	3000 mm	6000 mm	3000 mm	3000 mm	Tolerances ± mm
1/4	11,0	13,5	8,0	8,0	1,0
3/8	13,5	15,5	7,5	11,5	1,5
1/2	15,5	19,5	11,5	12,5	1,5
3/4	19,5	22,5	12,5	14,5	1,5
1	22,0	27,0	14,0	17,0	2,0
1 1/4	27,0	32,0	17,0	21,0	2,0
1 1/2	32,0	38,0	21,0	25,0	2,0
2	38,0	41,0	25,0	29,0	2,0

45° - 90° Elbow / Dirsek
3000 lb - 6000 lb

Forged Steel /Dövme Çelik
Socket Welding end and dimensions acc.to ASME B16.11

For dimensions B-C - D - G - J, refer to dimensions of SW fittings shown in table - DFT1

Center to Bottom of socket A



PIPE SIZE	3000 mm	6000 mm	Tolerances ± mm
1/4	11,0	13,5	1,0
3/8	13,5	15,5	1,5
1/2	15,5	19,5	1,5
3/4	19,5	22,5	1,5
1	22,0	27,0	2,0
1 1/4	27,0	32,0	2,0
1 1/2	32,0	38,0	2,0
2	38,0	41,0	2,0

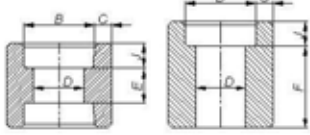
Tee / Tee
3000 lb - 6000 lb

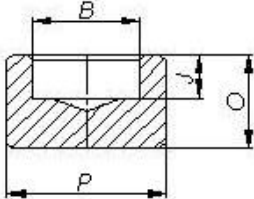
Forged Steel /Dövme Çelik
Socket Welding end and dimensions acc.to ASME B 16.11

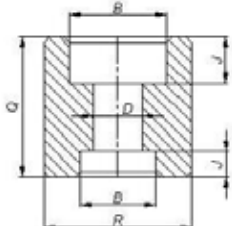
For dimensions B-C - D - G - J, refer to dimensions of SW fittings shown in table - DFT1



SOCKET WELDING FITTINGS

Coupling and half coupling / Manşon/ Yarım manşon 16.11 3000 lb- 6000lb			Socket Welding end and dimensions acc.to ASME B Carbon Steel/Karbon çeliği			
			Laying Lengths			
			Couplings- E			Half Couplings- F
			SIZE			
			3000	6000	Tolerances ±	3000 6000 Tolerances ±
			mm	mm		mm mm
1/4			6,5	6,5	1,5	16,0 16,0 1,0
3/8			6,0	6,0	3,0	17,5 17,5 1,5
1/2			9,5	9,5	3,5	22,5 22,5 1,5
3/4			9,5	9,5	3,5	23,5 23,5 1,5
1			13,0	13,0	4,0	29,0 29,0 2,0
1 1/4			13,0	13,0	4,0	30,0 30,0 2,0
1 1/2			13,0	13,0	4,0	32,0 32,0 2,0
2			19,0	19,0	4,0	41,0 41,0 2,0
For dimensions B -C -D -G -J, refer to dimensions of SW.fittings shown in table -DFT1						

Cap / Kep 3000 lb - 6000lb		Carbon Steel / Karbon Çeliği		Socket Welding end acc.to ASME B 16.11	
	2000-3000			6000	
	SIZE	K min.	P	K min.	P
		mm	mm	mm	mm
	¼	5,0	22	6,5	23,1
	3/8	5,0	26	6,5	26,7
	½	6,5	32	8,0	34
	¾	6,5	38	8,0	41
	1	9,5	45	11,0	50
	1 ¼	9,5	55	11,0	58
	1 ½	11,0	60	12,5	66,5
2	12,5	75	16,0	85	
For dimensions B -J, refer to dimensions of SW.fittings shown in table - DFT1					

Red.Coupling / Red.Manşon 3000 lb - 6000 lb		Carbon Steel/ Karbon çeliği		Socket Welding end acc.to ASME B 16.11	
	2000-3000			6000	
	SIZE	Q	R	Q	R
		mm	mm	mm	mm
	3/8x1/4	25,4	24,9	25,4	26,7
	1/2x3/8	28,7	31,0	28,7	33,0
	3/4x1/2	35,0	36,0	35,0	40,1
	1x1/2	38,1	45,2	38,1	50,0
	1 1/2x1	38,1	60,0	38,1	65,0
	1 1/2x1/2	38,1	60,0	38,1	65,0
	2x1 1/2	51,3	74,9	51,3	82,0
2x1	51,3	74,9	51,3	82,0	
For dimensions B -D -J, refer to dimensions of SW.fittings shown in table- DFT1					

Weld. Boss/ Boss 3000 lb - 6000 lb		Carbon Steel / Karbon Çeliği		Socket Welding end acc.to ASME B 16.11					
		3000-6000							
		SIZE		K		M		N	
				mm		mm		mm	
		1/4		30,5		28,0		14,0	
		3/8		30,5		32,0		17,4	
		1/2		33,5		38,0		21,6	
		3/4		35,0		44,5		26,9	
		1		43,0		57,5		33,6	
		1 1/4		48,0		63,5		42,4	
		1 1/2		51,0		76,1		48,5	
2		57,5		92		60,9			
For dimensions B - J, refer to dimensions of SW.fittings shown in table - DFT1									

A close-up, high-contrast photograph of several industrial flanges. The flanges are dark, possibly black-painted, and have a hexagonal shape. They are bolted together, with the bolts and nuts visible. The lighting is dramatic, highlighting the metallic surfaces and the texture of the paint. The background is dark and out of focus.

WN (Weld neck) Flanges

Size range: ½" - 48" (DN 15 – 1200)

Pressure class: 150 lb – 2500 lb

Carbon steel, stainless steel

According to ASME B16.5

SO (Slip-On) Flanges

Size range: ½" - 48" (DN 15 – 1200)

Pressure class: 150 lb – 2500 lb

Carbon steel, stainless steel

According to ASME B16.5

Flat Flanges

Size range: ½" - 48" (DN 15 – 1200)

Pressure class: 150 lb – 2500 lb

Carbon steel, stainless steel

According to ASME B16.5

16" 900 Trunnion Ball Valves



16" 150 Gate Valves



8" 1500 Globe Valve (Y-Type)



Valves





HİZMETLERİMİZ / SERVICES

Vana üretimi ve satış hizmetleri yanı sıra aşağıda belirtilen servis hizmetlerimizle müşterilerimize YERİNDE ve/veya İZMİT/KOCAELİ TESİSLERİMİZDE 30 yılı aşkın deneyimli personelimiz ve ekipmanlarımızla hizmet sunulmaktadır. *Besides the manufacturing and trading services, for over 30 years, services specified as follows have been given by our experienced personnel and equipments IN PLACE or İZMİT/KOCAELİ PLANT.*

Başlıca hizmetlerimiz;

Vanaların yerine montajı gibi satış sonrası hizmetler,
Periyodik vana bakım/onarım hizmetleri,
Hasarlı vana aksamlarının onarımı ve/veya yenilenmesi,
Yedek parça temini,
Test ve muayene hizmetleri,
Kontrol ve teknik destek,
Aktüatör ve redüktör yenilenmesi, montajı ve ayarlanması,
Sertifikalı P11, P22, P91 vb alaşımli boruların temini

Our main services;

*After sales services such as installation of valves,
Periodic maintenance/repair services for valves,
Repair and/or renewing services of damaged valve parts,
Supplying of spare parts,
Test and inspection services,
Control and technical support,
Renewal, installation and adjustment of actuators and reducers.
Supplying of P11, P22, P91 etc. certified alloy pipes.*

Bakım/onarımı söz konusu olan vanaların türü, basıncı, çapı ve menşei ya da türbin ya da kazan vanası olup olmadığına bakılmaksızın her tür hassas vana bakım onarım işleri, vana aksamlarının onarımları veya yenilenmeleri toleranslar içinde gerçekleştirilmektedir. *All type of critical maintenance/repair of valves, repair or renewal of valve parts are carried out within tolerances regardless of whether being turbine or boiler valve and type, pressure, diameter or origin of valve.*

Vananızın markası ya da tipi ne olursa olsun yerinde ya da tesisimizde uzman personelimiz tarafından tamiri/bakımı yapılır, değişmesi gereken parça ve aksamları yenilenir, testi yapılır, raporlanarak ilk günkü şekliyle teslim edilir. *Regardless of the brand or type of valve, in place or in our facility, maintenance/repair of your valve is carried out by our expert personnel, parts and components need to be changed are renewed, tested and delivered as its first day.*

Tamir/bakımı yapılan vanalar
dövme ve döküm vanalar
başlıca şöyle sıralanmaktadır;

*Casting and forged valves
repaired / maintained are
listed mainly as follows;*

- Sürgülü vanalar
- Globe vanalar
- Check vanalar
- Küresel vanalar
- Plug vanalar
- Diyafram vanalar
- Emniyet vanaları
- Bıçaklı sürgülü vanalar
- Proses vanaları
- İğne vanalar
- Tahliye vanaları
- Oksijen servisi vanalar
- Soğutma emniyet vanaları
- Kazan vanaları
- Türbin vanaları
- Pislik tutucular

- Gate valves
- Globe valves
- Check valves
- Ball valves
- Plug valves
- Diaphragm valves
- Safety valves
- Knife gate valves
- Process valves
- Needle valves
- Relief valves
- Oxygen service valves
- Cooling safety valves
- Boiler valves
- Turbine valves
- Strainers

REFERANS / REFERENCES

- BP
- Total
- Turkish Petroleum Co(T.P.A.O)
- TÜPRAŞ(chain of refineries in Turkey)
- Petkim Petrochemical Works (Owned by Socar-Azerbaijan)
- Shell
- Babcock&Wilcox Gama Boiler Technology (BWG)
- Foster Wheeler (of Italy)
- Technicas Reunidas (Spain)
- Tekfen Construction (Baku-Tiflis-Ceyhan Pipeline Project)(Beji Refinery Project in Iraq)
- Socar Refineries Azerbaijan (Azneft)
- Iran Alumina Company
- Botas (Bp and Turkish P.co Owned)
- Sondel S.P.A.(of Milan/Italy)
- Asea Brown Boveri (ABB of Sweden)
- Bridas of Argentina (for their Works in Turkmenistan)
- N.V. Turkse Perenco (of France)
- Alghanem Trading & Contracting Co. (of Jordan)
- Jordan Phosphate Mines (of Jordan)
- Arab Potash Company (of Jordan)
- Pireli
- Good Year
- Dupont Dusa Industrial
- Bridgestone Tyres Plant (BRISA)
- Ataş Refinery
- A-Tec
- Akenerji Power Plants
- Enerjisa Power Plants
- Eüaş Power Plants (all over Turkey)
- Teaş Yatağan Power Plant
- Opet Petroleum Company
- Prostream Group LTD (Bulgaria)
- Linde Gas
- POAŞ
- Sasa
- Alarko
- Isdemir
- Etimaden
- Park Termik
- Zorlu Group
- Kardemir
- Toros Tarım
- Erdemir
- Entek
- Aksa
- Gübretaş
- Gemlik Gübre
- YEAŞ
- ENKA
- ALPET
- TECO Petrolcülük
- GÜRMAT-GÜRIŞ Electric Generation Co.





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