



ÜRÜN KATALOĞU

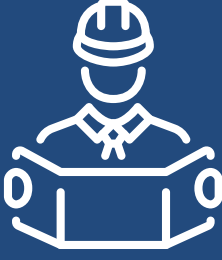
PRODUCT
CATALOG



proses çözümleri
process solutions

METROEND

Teknik Hizmetlerimiz



- Projelendirme & Danışmanlık
 - Devreye Alma & Montaj
 - Bakım & Servis
 - Eğitim
 - Uzaktan Destek

Sadece Tedarikçi Değil, Çözüm Ortağınız

Yüksek standartlar gerektiren projelerde, doğru ürünü seçmek kadar, bu ürünün doğru uygulanması ve desteklenmesi de kritiktir. Biz, size sadece yüksek kaliteli ürünler sunmakla kalmıyor, projenizin her aşamasında mühendislik gücümüzle yanınızda oluyoruz.

Projelendirme & Danışmanlık hizmetimizle, sisteminizin ihtiyaçlarını en verimli ve ekonomik şekilde analiz ediyor, doğru çözümü birlikte tasarlıyoruz. Uzman ekiplerimiz, **Devreye Alma & Montaj** sürecini uluslararası standartlarda ve takviminize uygun olarak tamamlar.

Tesisiniz çalışmaya başladıktan sonra ise **Bakım & Servis** anlaşmalarımızla sistemlerinizin kesintisiz, güvenli ve maksimum performansla çalışmasını güvence altına alıyoruz. Amacımız, yatırımınızın tüm yaşam döngüsü boyunca size değer katmaktır.

Kritik operasyonlarda ve yüksek performans beklenen tesisat sistemlerinde, başarı sadece doğru ürün seçimiyle değil, aynı zamanda bu ürünlerin doğru uygulanması ve uzun ömürlü desteklenmesiyle elde edilir. Biz, bu süreçlerin her adımında yanınızda olmayı bir taahhüt olarak görüyoruz.

İhtiyaçlarınızın analiz edildiği ilk danışmanlık aşamasından, sisteminize özel çözümlerin titizlikle projelendirildiği döneme kadar mühendislik uzmanlığımızla size yol gösteriyoruz.

Seçilen çözümler, saha uzmanlarımız tarafından uluslararası standartlara tam uyumla devreye alınıyor ve monte ediliyor. Montaj sonrası yapılan detaylı test ve kalibrasyonlarla, sisteminizin belirlenen tüm performans kriterlerini eksiksiz sağladığından emin oluyoruz.

Sisteminiz faaliyete geçtikten sonra dahi desteğimiz devam eder. Sunduğumuz önleyici bakım ve hızlı servis çözümleriyle sistemlerinizin operasyonel sürekliliğini, güvenliğini ve verimliliğini güvence altına alıyoruz.

Amacımız: Tesisat sisteminizin ömrü boyunca minimum duruş süresi, maksimum güvenlik ve sürekli yüksek performans sağlamaktır. Çünkü biliyoruz ki, sizin başarınız bizim uzmanlığımızın bir yansımasıdır.



Our Technical Services

Not Just a Supplier, Your Solution Partner

In projects requiring high standards, selecting the right product is as critical as ensuring its proper implementation and support.

We not only provide you with high-quality products, but also support you with our engineering expertise at every stage of your project.

With our **Project Planning & Consulting** services, we analyze your system's needs in the most efficient and cost-effective way and jointly design the right solution. Our expert teams complete the **Commissioning & Installation** process in accordance with international standards and your schedule.

Once your facility is operational, we ensure uninterrupted, safe, and maximum performance operation of your systems through our **Maintenance & Service** agreements. Our goal is to add value to your investment throughout its entire lifecycle.

In critical operations and high-performance installation systems, success is achieved not only by selecting the right products but also by their proper application and long-term support. We are committed to supporting you every step of the way.

From the initial consultation phase, where your needs are analyzed, to the meticulous design of customized solutions for your system, we guide you with our engineering expertise.

The selected solutions are commissioned and installed by our field experts in full compliance with international standards. Through detailed post-installation testing and calibration, we ensure that your system fully meets all specified performance criteria.

Our support continues even after your system is operational. We ensure the operational continuity, safety, and efficiency of your systems through preventive maintenance and rapid service solutions.

Our goal: To ensure minimal downtime, maximum safety, and consistently high performance throughout the life of your installation system. Because we know that your success is a reflection of our expertise.



- Project Planning & Consulting
- Commissioning & Installation
 - Maintenance & Service
 - Education
 - Remote Support

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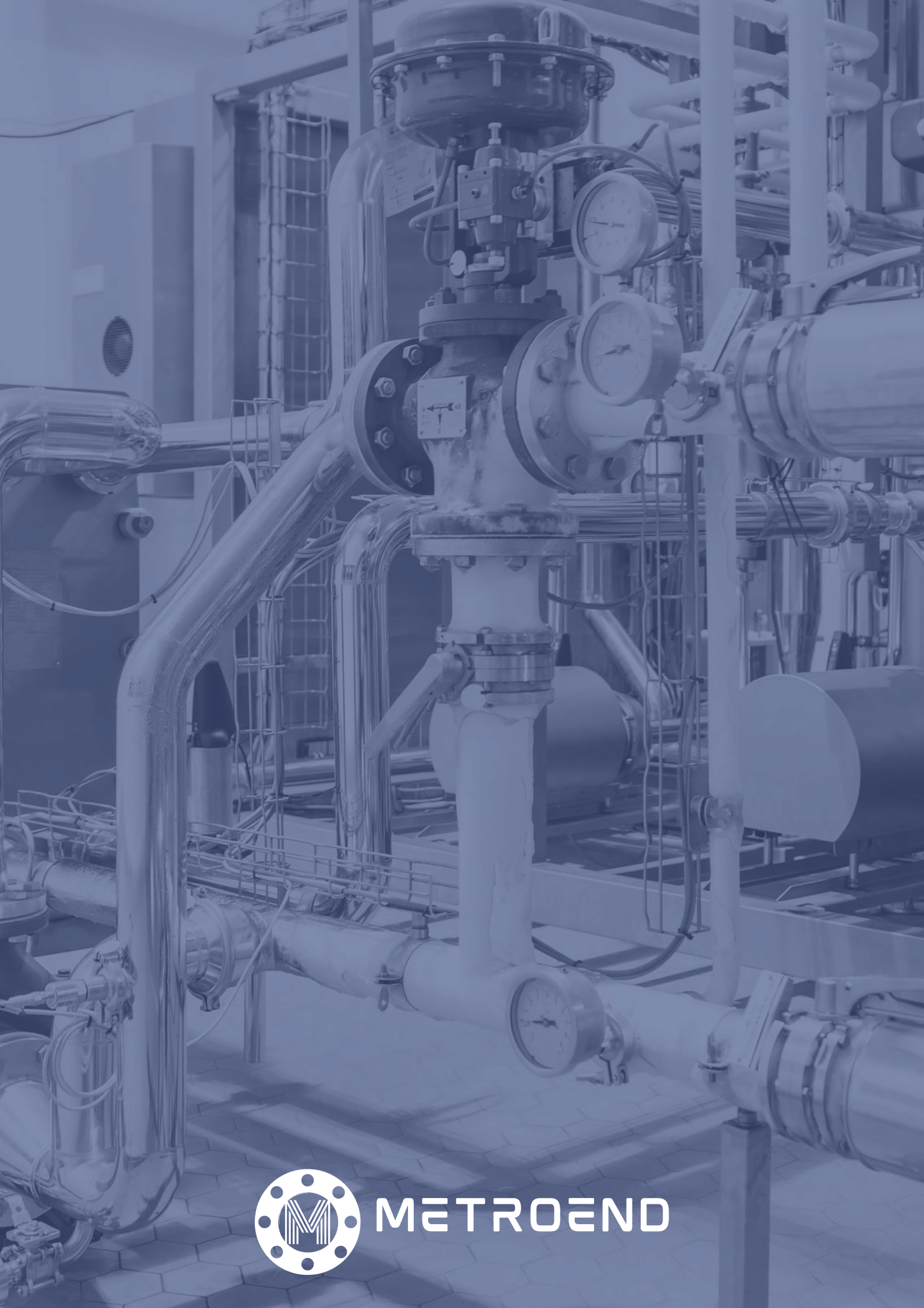
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İÇİNDEKİLER



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Glob Vana Düz Tip Globe Valve Straight Type

Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations

Bağlantılar
Connections
DIN1092-2

Çalışma Sıcaklığı
Working Temperature
-10°C / +220°C

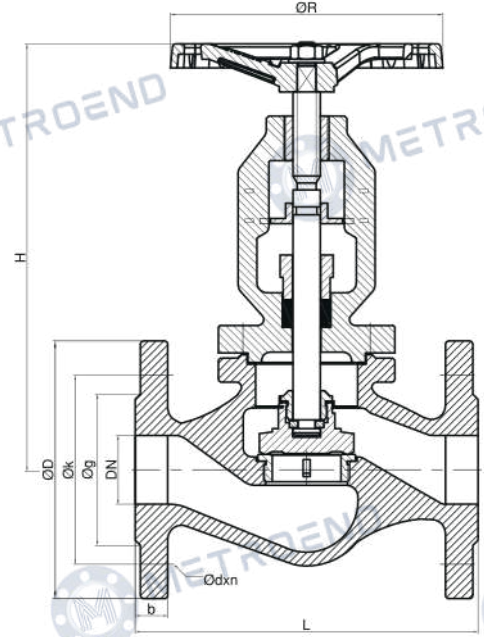
Çalışma Basıncı
Working Pressure
PN16/PN25/PN40

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25 / GGG40 / GS-C25 / RG5 / RG10 / AISI304 / AISI316
SİT	SEAT	RG5 / AISI420
MİL	STEM	AISI420 / MS58
İNDİKATÖR	INDICATOR	ST37
KAPAK	BONNET	GG25 / GGG40 / GS-C25 / RG5 / RG10 / AISI304 / AISI316
KLAPE	DISC	RG5 / AISI420
RİNG	RİNG	RG5 / AISI420
CONTA	GASKET	KLINGERİT / GRAPHITE
SALMASTRA	PACKING	GRAPHITE
GLEN	GLAND	GG25 / GGG40 / GS-C25 / RG5 / RG10 / AISI304 / AISI316
SOMUN & PUL	NUT & WASHER	STEEL
HENDİL	HANDWHEEL	GG25

ÖLÇÜLER - DIMENSIONS

DN	ØD	Øk	Øg	L	b	ØR	H	Ødxn	KG
15	95	65	45	130	14	110	202	14x4	4
20	105	75	58	150	16	110	202	14x4	4
25	115	85	68	160	16	110	211	14x4	5
32	140	100	78	180	18	140	216	18x4	7
40	150	110	88	200	18	140	249	18x4	11
50	165	125	102	230	20	160	254	18x4	13
65	185	145	122	290	20	160	271	18x4	18
80	200	160	138	310	20	200	311	18x8	25
100	220	180	158	350	24	220	344	18x8	35
125	250	210	188	400	26	250	420	18x8	55
150	285	240	212	480	26	300	498	22x8	78
200	340	295	268	600	30	400	550	22x12	140
250	405	355	320	730	32	500	585	26x12	215
300	460	410	370	850	32	500	640	26x12	250
350	520	470	430	980	36	500	875	26x16	385
400	580	525	482	1100	38	500	955	30x16	410



Glob Vana Gönye Tip

Globe Valve Angle Type



METROEND

www.metroend.com

Uygulama Alanları



Kimya - Petrokimya



Su - Atık Su



Isıtma - Soğutma Sistemleri



Denizcilik Uygulamaları



Madencilik Uygulamaları



Enerji Santralleri

Application Areas



Chemical - Petrochemical



Water - Wastewater



Heating - Cooling Systems



Maritime Applications



Mining Applications



Power Stations



Bağlantılar
Connections

DIN1092-2



Çalışma Sıcaklığı
Working Temperature

-10°C / +220°C



Çalışma Basıncı
Working Pressure

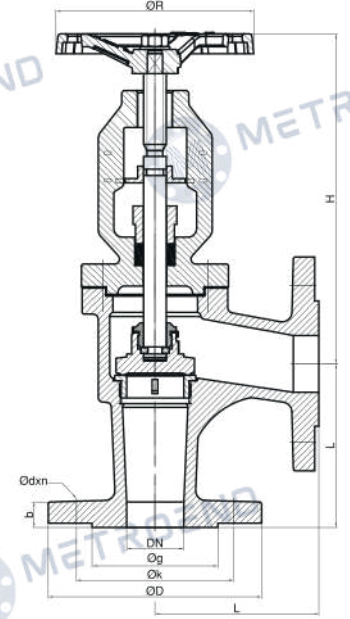
PN16/PN25/PN40

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25 / GGG40 / GS-C25 / RG5 / RG10 / AISI304 / AISI316
KAPAK	BONNET	GG25 / GGG40 / GS-C25 / RG5 / RG10 / AISI304 / AISI316
SİT	SEAT	RG5 / AISI420
KLAPE	DISC	RG5 / AISI420
MİL	STEM	AISI420 / MS58
SALMASTRA	PACKING	GRAPHITE
CONTA	GASKET	GRAPHITE
SAPLAMA	STUD BOLT	STEEL
SOMUN	NUT	STEEL
HENDİL	HANDWHEEL	GG25

ÖLÇÜLER - DIMENSIONS

DN	ØD	Øk	Øg	L	b	ØR	H	Ødxn	KG
15	95	65	45	90	14	110	184	14x4	4
20	105	75	58	95	16	110	184	14x4	4
25	115	85	68	100	16	110	197	14x4	5
32	140	100	78	105	18	140	200	18x4	7
40	150	110	88	115	18	140	232	18x4	11
50	165	125	102	125	20	160	235	18x4	13
65	185	145	122	145	20	160	248	18x4	18
80	200	160	138	155	20	200	287	18x8	25
100	220	180	158	175	24	220	320	18x8	35
125	250	210	188	200	26	250	340	18x8	55
150	285	240	212	225	26	300	405	22x8	75
200	340	295	268	275	30	400	440	22x12	116
250	405	355	320	325	32	500	510	26x12	170
300	460	410	370	375	32	500	575	26x12	240
350	520	470	430	425	36	500	775	26x16	325
400	580	525	482	475	38	500	840	30x16	400





METROEND

Metal Körüklü Glob Vana Düz Tip Metal Bellow Sealed Globe Valve Straight Type

www.metroend.com

Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations



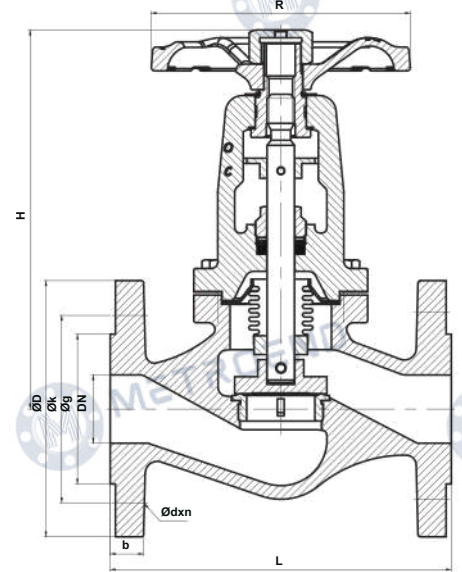
Bağlantılar
Connections
DIN1092-2

Çalışma Sıcaklığı
Working Temperature
PN16 : -10°C / +300°C
PN25 : -10°C / +350°C
PN40 : -10°C / +400°C

Çalışma Basıncı
Working Pressure
PN16/PN25/PN40

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25 / GGG40 / GS-C25
SİT	SEAT	AISI420
MİL	STEM	AISI420
İNDİKATÖR	INDICATOR	STEEL
KAPAK	BONNET	GG25 / GGG40 / GS-C25
KLAPE	DISC	AISI420
RİNG	RİNG	AISI420
CONTA	GASKET	GRAPHITE
SALMASTRA	PACKING	GRAPHITE
KÖRÜK	BELLOW	AISI316Ti
SOMUN & PUL	NUT & WASHER	STEEL
HENDİL	HANDWHEEL	GG25



ÖLÇÜLER - DIMENSIONS

DN	L	ØR	H	PN16					PN25					PN40					KG
				ØD	Øk	Øg	b	Ødxn	ØD	Øk	Øg	b	Ødxn	ØD	Øk	Øg	b	Ødxn	
15	130	110	190	95	65	45	14	14x4	95	65	45	16	14x4	95	65	45	16	14x4	4
20	150	110	190	105	75	58	16	14x4	105	75	58	18	14x4	105	75	58	18	14x4	4
25	160	110	195	115	85	68	16	14x4	115	85	68	18	14x4	115	85	68	18	14x4	5
32	180	140	195	140	100	78	18	18x4	140	100	78	20	18x4	140	100	78	20	18x4	7
40	200	140	220	150	110	88	18	18x4	150	110	88	20	18x4	150	110	88	20	18x4	11
50	230	160	225	165	125	102	20	18x4	165	125	102	22	18x4	165	125	102	22	18x4	13
65	290	160	240	185	145	122	20	18x4	185	145	122	24	18x4	185	145	122	24	18x8	18
80	310	200	260	200	160	138	20	18x8	200	160	138	26	18x8	200	160	138	26	18x8	25
100	350	220	315	220	180	158	24	18x8	235	190	162	28	22x8	235	190	162	28	22x8	35
125	400	250	420	250	210	188	26	18x8	270	220	188	30	28x8	270	220	188	30	25x8	55
150	480	300	500	285	240	212	26	22x8	300	250	218	34	28x8	300	250	218	34	25x8	78
200	600	400	550	340	295	268	30	22x12	360	310	278	34	28x12	375	320	285	40	30x12	140

Metal Körüklü Glob Vana Gönye Tip

Metal Bellow Sealed Globe Valve Angle Type



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www.metroend.com

Uygulama Alanları

- Kimya - Petrokimya
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- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations



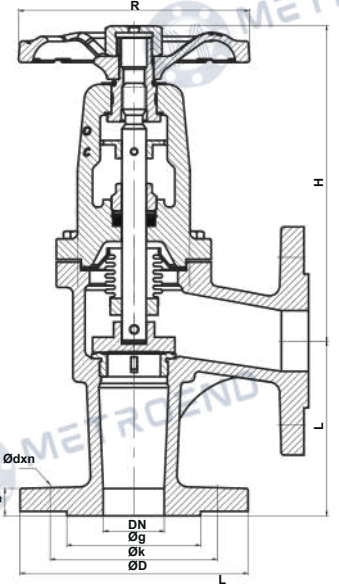
Bağlantılar
Connections
DIN1092-2

Çalışma Sıcaklığı
Working Temperature
PN16 : -10°C / +300°C
PN25 : -10°C / +350°C
PN40 : -10°C / +400°C

Çalışma Basıncı
Working Pressure
PN16/PN25/PN40

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25 / GGG40 / GS-C25
SİT	SEAT	AISI420
MİL	STEM	AISI420
İNDİKATÖR	INDICATOR	STEEL
KAPAK	BONNET	GG25 / GGG40 / GS-C25
KLAPE	DISC	AISI420
RING	RING	AISI420
CONTA	GASKET	GRAPHITE
SALMASTRA	PACKING	GRAPHITE
KÖRÜK	BELLOW	AISI316Ti
SOMUN & PUL	NUT & WASHER	STEEL
HENDİL	HANDWHEEL	GG25



ÖLÇÜLER - DIMENSIONS

				PN16					PN25					PN40					KG
DN	L	ØR	H	ØD	Øk	Øg	b	Ødxn	ØD	Øk	Øg	b	Ødxn	ØD	Øk	Øg	b	Ødxn	
15	90	125	165	95	65	45	14	14x4	95	65	45	16	14x4	95	65	45	16	14x4	4
20	95	125	165	105	75	58	16	14x4	105	75	58	18	14x4	105	75	58	18	14x4	4
25	100	125	177	115	85	68	16	14x4	115	85	68	18	14x4	115	85	68	18	14x4	5
32	105	125	175	140	100	78	18	18x4	140	100	78	20	18x4	140	100	78	20	18x4	7
40	115	150	205	150	110	88	18	18x4	150	110	88	20	18x4	150	110	88	20	18x4	11
50	125	150	208	165	125	102	20	18x4	165	125	102	22	18x4	165	125	102	22	18x4	13
65	145	175	220	185	145	122	20	18x4	185	145	122	24	18x4	185	145	122	24	18x8	18
80	155	175	230	200	160	138	20	18x8	200	160	138	26	18x8	200	160	138	26	18x8	25
100	175	225	275	220	180	158	24	18x8	235	190	162	28	22x8	235	190	162	28	22x8	35
125	200	225	340	250	210	188	26	18x8	270	220	188	30	28x8	270	220	188	30	25x8	55
150	225	300	407	285	240	212	26	22x8	300	250	218	34	28x8	300	250	218	34	25x8	75
200	275	500	440	340	295	268	30	22x12	360	310	278	34	28x12	375	320	285	40	30x12	116



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JIS Düz Tip Glob Vana JIS Straight Type Globe Valve

Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations

Bağlantılar
Connections
JIS B220

Çalışma Sıcaklığı
Working Temperature
-10° / +230°C

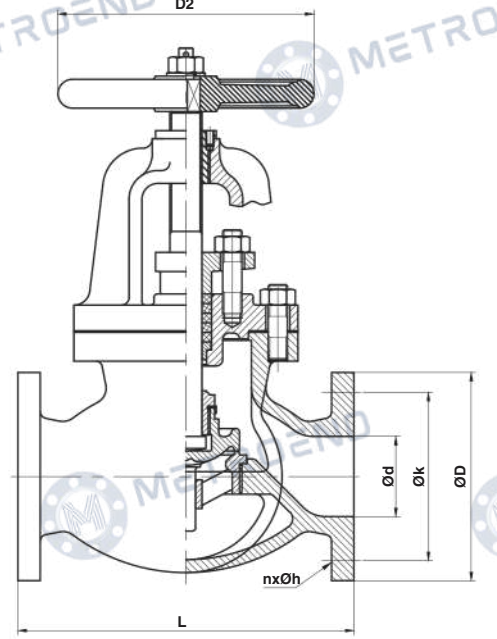
Çalışma Basıncı
Working Pressure
5 Kg/cm²
10 Kg/cm²

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25 / GGG40 / GS-C25
KLAPE	DISC	AISI420 / RG5
MİL	STEM	AISI420
KAPAK	BONNET	GG25 / GGG40 / GS-C25
SALMASTRA	PACKING	GRAPHITE
HENDİL	HANDWHEEL	GG25

ÖLÇÜLER - DIMENSIONS

DN	5K							10K							Ød
	ØD	Øk	L	b	ØD2	nxØh	KG	ØD	Øk	L	b	ØD2	nxØh	KG	
50	130	105	210	16	160	4x15	15	155	120	220	20	160	4x19	20	50
65	155	130	250	18	180	4x15	21	175	140	270	22	200	4x19	29	65
80	180	145	280	18	180	4x19	28	185	150	300	22	200	8x19	32	80
100	200	165	340	20	224	8x19	41	210	175	350	24	250	8x19	49	100
125	235	200	410	20	250	8x19	58	250	210	420	24	280	8x23	73	125
150	265	230	480	22	280	8x19	80	280	240	490	26	315	8x23	104	150
200	320	280	570	24	315	8x23	138	330	290	570	26	355	12x23	162	200
250	385	345	740	26	355	12x23	246	400	355	740	30	450	12x25	304	250
300	430	390	840	28	400	12x23	377	445	400	840	32	500	16x25	370	300
350	480	435	940	30	500	12x25	462	-	-	-	-	-	-	-	350
400	540	495	1050	30	630	16x25	647	-	-	-	-	-	-	-	400



JIS G6520 Tip 10K Vana

JIS Angle Type Globe Valve



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Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations

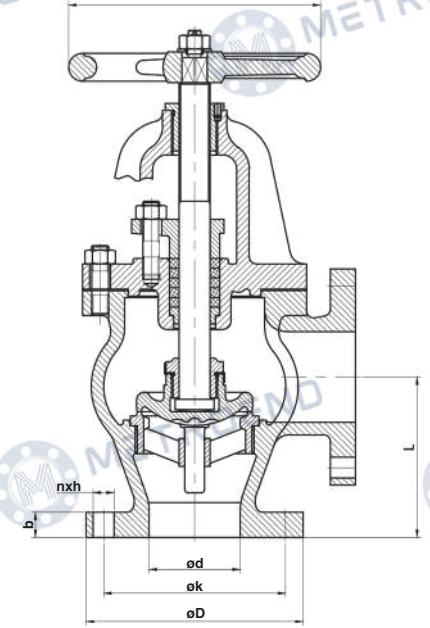


MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25 / GGG40 / GS-C25
KLAPE	DISC	AISI420 / RG5
MİL	STEM	AISI420
KAPAK	BONNET	GG25 / GGG40 / GS-C25
SALMASTRA	PACKING	GRAPHITE
HENDİL	HANDWHEEL	GG25

ÖLÇÜLER - DIMENSIONS

DN	5K							10K							Ød
	ØD	Øk	L	b	ØD2	nxØh	KG	ØD	Øk	L	b	ØD2	nxØh	KG	
50	130	105	100	16	160	4x15	13	155	120	120	20	160	4x19	20	50
65	155	130	115	18	180	4x15	18	175	140	130	22	200	4x19	29	65
80	180	145	130	18	180	4x19	24	185	150	140	22	200	8x19	32	80
100	200	165	150	20	224	8x19	34	210	175	160	24	250	8x19	49	100
125	235	200	170	20	250	8x19	46	250	210	180	24	280	8x23	73	125
150	265	230	190	22	280	8x19	64	280	240	205	26	315	8x23	104	150
200	320	280	220	24	315	8x23	105	330	290	213	26	355	12x23	162	200
250	385	345	275	26	355	12x23	178	400	355	290	30	450	12x25	304	250
300	430	390	310	28	400	12x23	245	445	400	320	32	500	16x25	370	300
350	480	435	360	30	500	12x25	330	490	445	360	34	560	16x25	390	350
400	540	495	395	30	560	16x25	460	560	510	420	36	630	16x27	470	400





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JIS Bronz Düz Tip Glob Vana

JIS Bronze Straight Type Globe Valve

Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations



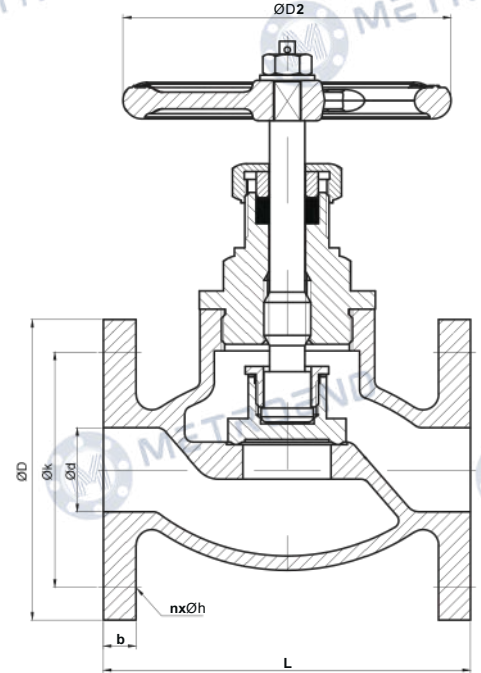
Bağlantılar
Connections
5K - JIS F7301
16K - JIS F7303

Çalışma Sıcaklığı
Working Temperature
-10° / +120°C

Çalışma Basıncı
Working Pressure
5 Kg/cm²
16 Kg/cm²

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	RG5
KLAPE	DISC	RG5
MİL	STEM	BRASS
KAPAK	BONNET	RG5
SALMASTRA	PACKING	GRAPHITE
HENDİL	HANDWHEEL	GG25



ÖLÇÜLER - DIMENSIONS

DN	5K						16K						Ød		ØD2
	ØD	Øk	L	b	nxØh	KG	ØD	Øk	L	b	nxØh	KG			
15	80	60	100	9	4x12	2	95	70	110	12	4x15	2,8	15		80
20	85	65	110	10	4x12	3	100	75	120	14	4x15	4	20		100
25	95	75	120	10	4x12	3,8	125	90	130	14	4x19	5	25		125
32	115	90	140	12	4x15	5,5	135	100	160	16	4x19	7	32		125
40	120	95	160	12	4x15	6,8	140	105	180	16	4x19	9	40		140
50	130	105	210	14	4x15	12	155	120	220	16	8x19	13	50		160



JIS Bronz Gönye Tip Glob Vana

JIS Bronze Angle Type Globe Valve



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Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations



Bağlantılar
Connections

5K - JIS F7301
16K - JIS F7303



Çalışma Sıcaklığı
Working Temperature

-10° / +120°C



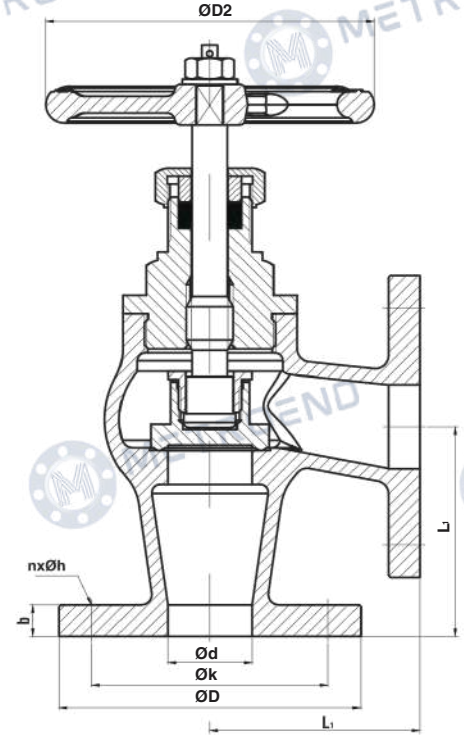
Çalışma Basıncı
Working Pressure

5 Kg/cm²
16 Kg/cm²



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	RG5
KLAPE	DISC	RG5
MİL	STEM	BRASS
KAPAK	BONNET	RG5
SALMASTRA	PACKING	GRAPHITE
HENDİL	HANDWHEEL	GG25



ÖLÇÜLER - DIMENSIONS

DN	5K						16K						Ød		ØD2
	ØD	Øk	L1	b	nxØh	KG	ØD	Øk	L1	b	nxØh	KG			
15	80	60	55	9	4x12	1,9	95	70	70	12	4x15	2,7	15		80
20	85	65	60	10	4x12	2,7	100	75	75	14	4x15	3,6	20		100
25	95	75	65	10	4x12	3,5	125	90	85	14	4x19	5,2	25		125
32	115	90	80	12	4x15	4,7	135	100	95	16	4x19	6,5	32		125
40	120	95	85	12	4x15	5,5	140	105	100	16	4x19	7,6	40		140
50	130	105	100	14	4x15	9	155	120	120	16	8x19	11,5	50		160



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Bronz Dişli Glob Vana

Bronze Threaded Globe Valve

Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations

Bağlantılar
Connections
ISO228

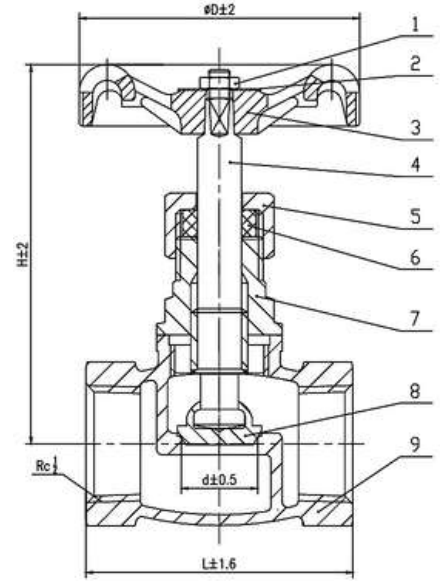
Çalışma Sıcaklığı
Working Temperature
-20°C / +170°C

Çalışma Basıncı
Working Pressure
PN20



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	HENDİL SOMUNU	HANDWHEEL NUT	ST.STEEL
2	ETİKET	I.D PLATE	ALUMINIUM
3	HENDİL	HANDWHEEL	ALUMINIUM
4	MİL	STEM	CW602N
5	SALMASTRA SOMUNU	PACKING NUT	CW614N
6	SALMASTRA	PACKING	PTFE
7	KAPAK	BONNET	CC491K
8	DİSK	DISC	CC491K
9	GÖVDE	BODY	CC491K



ÖLÇÜLER - DIMENSIONS

DN	NPS	L	D	H	d	KG
15	1/2"	49	52	71	14	0,25
20	3/4"	56	60	73	14	0,35
25	1"	66	65	87	19	0,50
32	1 1/4"	74	70	90	24	0,70
40	1 1/2"	85	78	110	32	1
50	2"	100	92	124	38	1,60

Paslanmaz Dişli Glob Vana

Stainless Steel Threaded Globe Valve



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Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

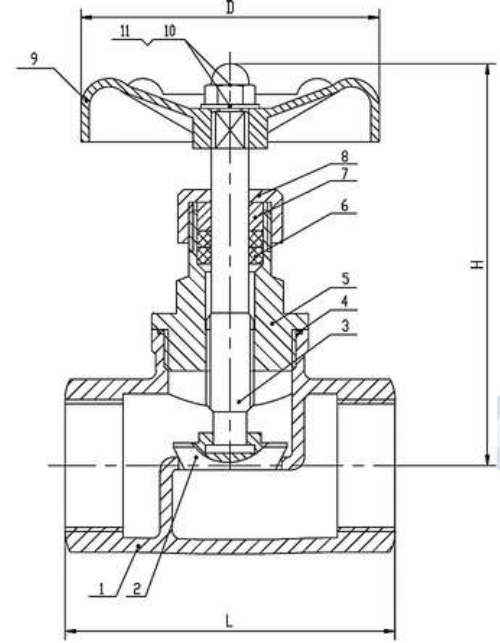
Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	CÖVDE	BODY	AISI304 / AISI316
2	KLAPE	DISC	AISI304 / AISI316
3	MİL	STEM	AISI304 / AISI316
4	CONTA	GASKET	PTFE
5	KAPAK	BONNET	AISI304 / AISI316
6	SALMASTRA	PACKING	PTFE
7	GLEN	GLAND	AISI304 / AISI316
8	GLEN SOMUNU	GLAND NUT	AISI304 / AISI316
9	HENDİL	HANDWHEEL	GG25
10	ETİKET	I.D PLATE	AISI304
11	SOMUN	NUT	AISI304 / AISI316



ÖLÇÜLER - DIMENSIONS

DN	NPS	L	D	H	KG
15	1/2"	59	64	90	0,26
20	3/4"	69	64	95	0,45
25	1"	79	73	105	0,60
32	1 1/4"	98	76	125	0,95
40	1 1/2"	104	98	135	1,22
50	2"	119	98	145	1,75



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Kısa Tip Bronz Glob Vana Short Type Bronze Globe Valve

Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations



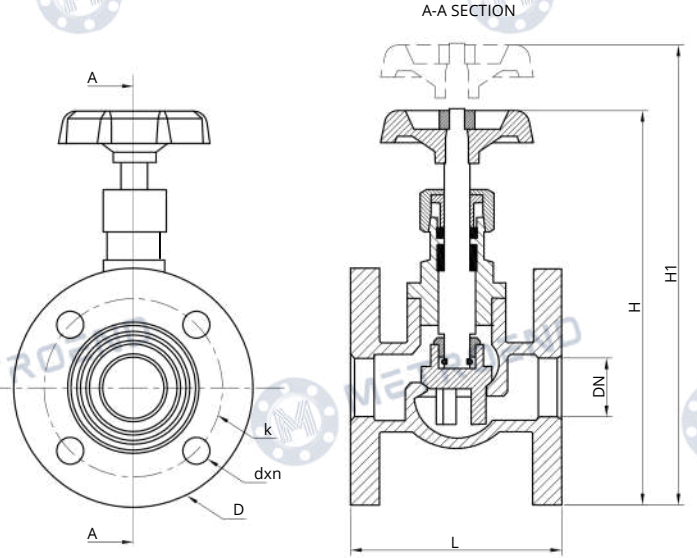
Bağlantılar
Connections
EN1092-3

Çalışma Sıcaklığı
Working Temperature
-10°C / +120°C

Çalışma Basıncı
Working Pressure
PN16

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	RG5
KAPAK	BONNET	RG5
MİL	STEM	MS58
KAPAK SOMUNU	BONNET NUT	MS58
HENDİL	HANDWHEEL	GG25
KLAPE	DISC	RG5
CONTA	GASKET	KLINGRIT
SALMASTRA	PACKING	PTFE



ÖLÇÜLER - DIMENSIONS

DN	ØD	Øk	A	L	H	H1	Ødxn	KG
15	95	65	14	70	151	157	14x4	2,25
20	105	75	14	80	156	167	14x4	2,90
25	115	85	14	90	172	187	14x4	3,75
32	140	100	14	105	205	225	18x4	5,60
40	150	110	14	120	230	250	18x4	7,00
50	165	125	15	140	242	262	18x4	9,00
65	185	145	16	180	302	327	18x4	16,00
80	200	160	16	200	430	460	18x8	21,00



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Flanşlı 2 Parçalı Küresel Vana Flanged 2 Piece Ball Valve

Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations



Bağlantılar
Connections
DIN1092-2



Çalışma Basıncı
Working Pressure
PN16

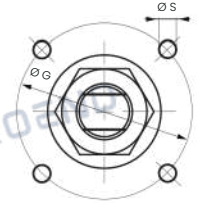
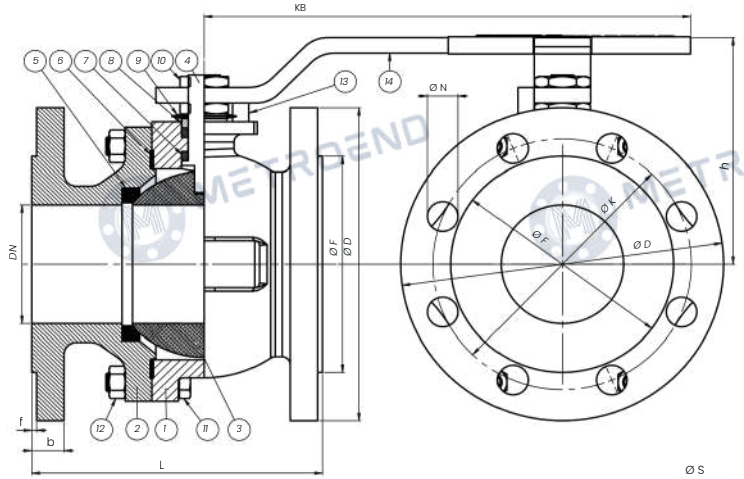


Çalışma Sıcaklığı
Working Temperature

- GG25 Cast Iron: -29°C / +150°C
- GGG40.3 Ductile Iron: -29°C / +180°C
- RG5 - RG10 Bronze Casting: -29°C / +110°C

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	GÖVDE	BODY	GG25 / GGG40 / RG5 / RG10
2	KAPAK	BONNET	GG25 / GGG40 / RG5 / RG10
3	KÜRE	BALL	AISI420 / AISI304 / AISI316 / RG5
4	MİL	STEM	AISI420
5	KÜRE CONTA	BALL SEAL	PTFE
6	GÖVDE CONTA	BODY SEAL	PTFE
7	BOĞAZ CONTA	NECK SEAL	PTFE
8	BASKI RİNGİ	PRES.RING	ST42
9	ÇANAK PUL	WASHER	CK70
10	KONTRA SOMUN	COUNTER NUT	5.6.
11	CIVATA	BOLT	ST42
12	SOMUN	NUT	5.6.
13	STOPLAMA PİMİ	STOP. PIM	ST42
14	KOL	HANDLE	ST37



AKTÜATÖR BAĞLANTI ÖLÇÜLERİ
ACTUATOR CONNECTION SIZES

ÖLÇÜLER - DIMENSIONS

DN	L	KB	h	f	D	b	ØK	dxn	F	G	S	KG
15	115	150	80	2	95	14	65	14x4	46	36	M5	2,10
20	120	150	85	2	105	16	75	14x4	56	36	M5	2,60
25	125	185	90	2	115	16	85	14x4	65	42	M5	3,50
32	130	240	100	2	140	18	100	19x4	76	42	M5	5,60
40	140	280	120	3	150	18	110	19x4	84	50	M6	6,60
50	150	280	125	3	165	20	125	19x4	99	50	M6	8,80
65	170	330	150	3	185	20	145	19x4	118	70	M8	12,00
80	180	400	160	3	200	22	160	19x8	132	70	M8	15,50
100	190	460	175	3	220	24	180	19x8	156	102	M10	20,80
125	325	460	200	3	250	26	210	19x8	184	125	M12	29,00
150	350	670	265	3	285	26	240	23x8	211	125	M12	51,00
200	400	750	325	3	340	26	295	23x12	266	125	M12	78,00
250	450	850	400	3	395	28	350	23x12	319	140	M16	100,00

Flanşlı 3 Parçalı Küresel Vana

Flanged 3 Piece Ball Valve



METROEND

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Uygulama Alanları



Kimya - Petrokimya



Su - Atık Su



Isıtma - Soğutma Sistemleri



Denizcilik Uygulamaları



Madencilik Uygulamaları



Enerji Santralleri

Application Areas



Chemical - Petrochemical



Water - Wastewater



Heating - Cooling Systems



Maritime Applications



Mining Applications



Power Stations



Bağlantılar

Connections

DIN1092-2



Çalışma Basıncı

Working Pressure

PN16 / PN40



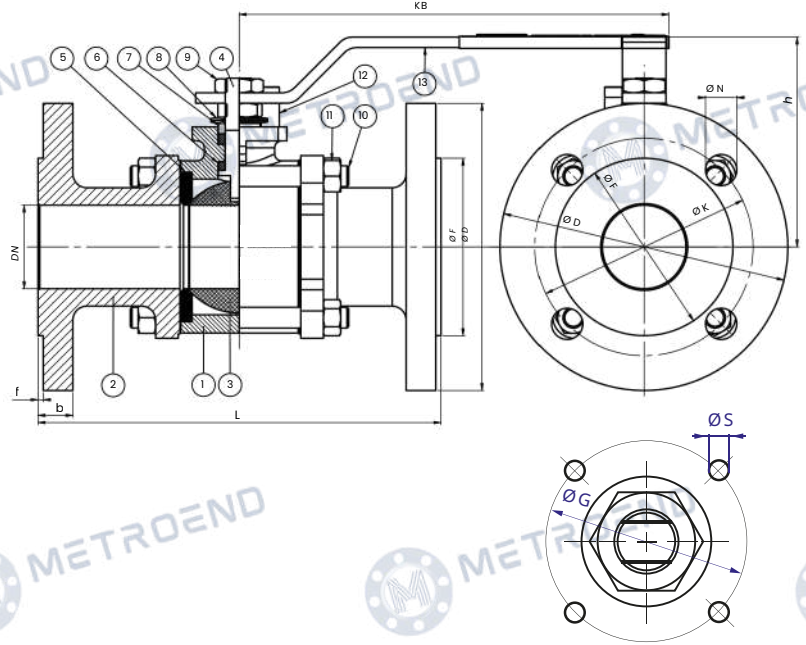
Çalışma Sıcaklığı

Working Temperature

- GG25 Cast Iron: -29°C / +150°C
- GGG40.3 Ductile Iron: -29°C / +180°C
- RG5 - RG10 Bronze Casting: -29°C / +110°C
- Carbon Steel: -29°C / +180°C

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	GÖVDE	BODY	GG25 / GGG40 / RG5 / RG10 / CARBON STEEL
2	KAPAK	BONNET	GG25 / GGG40 / RG5 / RG10 / CARBON STEEL
3	KÜRE	BALL	AISI420 / AISI304 / AISI316 / RG5
4	MİL	STEM	AISI420
5	KÜRE CONTA	BALL SEAL	PTFE
6	BOĞAZ CONTA	NECK SEAL	PTFE
7	BASKI RİNGİ	PRES.RING	ST42
8	ÇANAK PUL	WASHER	CK70
9	KONTRA SOMUN	COUNTER NUT	5.6.
10	CIVATA	BOLT	ST42
11	SOMUN	NUT	5.6.
12	STOPLAMA PİMİ	STOP. PIM	ST42
13	KOL	HANDLE	ST37



AKTÜATÖR BAĞLANTI ÖLÇÜLERİ
ACTUATOR CONNECTION SIZES

ÖLÇÜLER - DIMENSIONS

DN	L	KB	h	f	PN16				PN40				F	G	S	KG
					D	b	ØK	dxn	D	b	ØK	dxn				
15	130	150	80	2	95	14	65	14x4	95	14	65	14x4	46	36	M5	2,50
20	150	150	85	2	105	16	75	14x4	105	16	75	14x4	56	36	M5	3,70
25	160	185	90	2	115	16	85	14x4	115	16	85	14x4	65	42	M5	4,50
32	180	240	100	2	140	18	100	19x4	140	18	100	19x4	76	42	M5	6,80
40	200	280	120	3	150	18	110	19x4	150	18	110	19x4	84	50	M6	9,40
50	230	280	125	3	165	20	125	19x4	165	20	125	19x4	99	50	M6	12,20
65	290	330	150	3	185	20	145	19x4	185	22	145	19x8	118	70	M8	18,80
80	310	400	160	3	200	22	160	19x8	200	24	160	19x8	132	70	M8	26,00
100	350	460	175	3	220	24	180	19x8	235	26	190	22x8	156	102	M10	43,00
125	400	460	200	3	250	26	210	19x8	270	28	220	26x8	184	125	M12	62,00
150	450	670	265	3	285	26	240	23x8	300	30	250	26x8	211	125	M12	95,00
200	550	750	325	3	340	30	295	23x12	375	36	320	30x12	266	125	M12	172,00



METROEND

Paslanmaz Flanşlı 2 Parçalı Küresel Vana

Stainless Steel Flanged 2 Piece Ball Valve

www.metroend.com

Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations



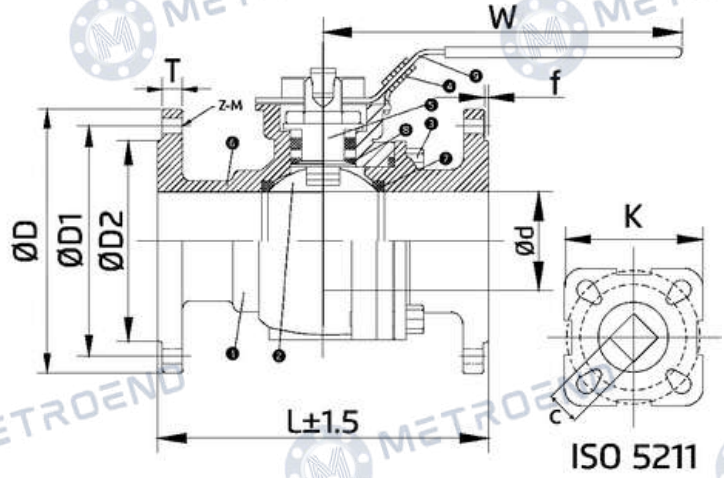
Bağlantılar
Connections
DIN2533

Çalışma Sıcaklığı
Working Temperature
-20°C / +180°C

Çalışma Basıncı
Working Pressure
PN16

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	GÖVDE	BODY	AISI 304 / AISI316
2	KÜRE	BALL	AISI 304 / AISI316
3	CIVATA	BOLT	AISI 201 / AISI 304
4	KİLİT	LOCK	AISI 201 / AISI 304
5	MİL	STEM	AISI 304 / AISI316
6	KEP	CAP	AISI 304 / AISI316
7	SİT	SEAT	PTFE
8	SIKIŞTIRMA PULU	THRUST WASHER	PTFE
9	KOL	HANDLE	AISI 201 / AISI 304



ÖLÇÜLER - DIMENSIONS

DN	Ød	ØD	ØD1	ØD2	T	f	W	Z-M	L	C	ISO5211	KG
15	15	95	65	45	16	2	131	14x4	115	9	F03/F04	2,4
20	20	105	75	58	18	2	131	14x4	120	9	F03/F04	3
25	25	115	85	68	18	3	167	14x4	125	11	F04/F05	3,85
32	32	140	100	78	18	3	167	18x4	130	11	F04/F05	5,35
40	40	150	110	88	18	3	193	18x4	140	14	F05/F07	6,35
50	50	165	125	102	20	3	193	18x4	150	14	F05/F07	8,35
65	65	185	145	122	18	3	242	18x4	170	17	F07/F10	11,65
80	80	200	160	138	20	3	272	18x8	180	17	F07/F10	14,35
100	100	220	180	158	20	3	295	18x8	190	17	F07/F10	17
125	125	250	210	188	22	3	530	18x8	325	22	F07/F10	32,5
150	150	285	240	212	22	3	530	18x8	350	22	F07/F10	42,5

Paslanmaz Flanşlı 3 Parçalı Küresel Vana

Stainless Steel Flanged 3 Piece Ball Valve



METROEND

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Uygulama Alanları



Kimya - Petrokimya



Su - Atık Su



Isıtma - Soğutma Sistemleri



Denizcilik Uygulamaları



Madencilik Uygulamaları



Enerji Santralleri

Application Areas



Chemical - Petrochemical



Water - Wastewater



Heating - Cooling Systems



Maritime Applications



Mining Applications



Power Stations



Bağlantılar

Connections

DIN2545-2000



Çalışma Sıcaklığı

Working Temperature

-20°C / +180°C



Çalışma Basıncı

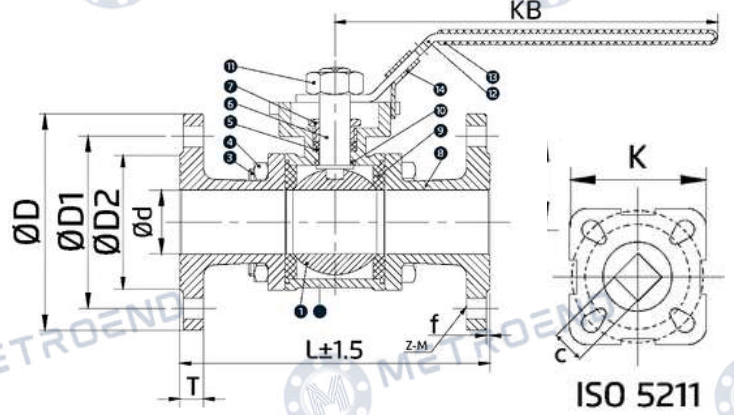
Working Pressure

PN16



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	GÖVDE	BODY	AISI 304 / AISI316
2	KÜRE	BALL	AISI 304 / AISI316
3	CIVATA	BOLT	AISI 201 / AISI 304
4	SOMUN	NUT	AISI 201 / AISI 304
5	SALMASTRA	PACKING	PTFE
6	MİL	STEM	AISI 304 / AISI316
7	GLEN	GLAND	AISI 201 / AISI 304
8	KEP	CAP	AISI 304 / AISI316
9	ŞİT	SEAT	PTFE
10	SIKIŞTIRMA PULU	THRUST WASHER	PTFE
11	SOMUN	NUT	AISI 201 / AISI 304
12	KOL	HANDLE	AISI 201 / AISI 304
13	KOL KAPLAMASI	HANDLE COVER	PVC
14	KİLİT	LOCK	AISI 201 / AISI 304



ÖLÇÜLER - DIMENSIONS

DN	Ød	ØD	ØD1	ØD2	f	T	KB	Z-M	L	C	ISO5211	KG
15	15	95	65	45	2	16	131	14x4	130	9	F03/F04	2
20	20	105	75	58	2	18	131	14x4	150	9	F03/F04	3
25	25	115	85	68	3	18	167	14x4	160	11	F04/F05	4
32	32	140	100	78	3	18	167	18x4	180	11	F04/F05	6
40	40	150	110	88	3	18	193	18x4	200	14	F05/F07	7,5
50	50	165	125	102	3	20	193	18x4	230	14	F05/F07	10,5
65	65	185	145	122	3	18	242	18x4	290	17	F07/F10	16,5
80	80	200	160	138	3	20	272	18x8	310	17	F07/F10	20
100	100	220	180	158	3	20	295	22x8	350	17	F07/F10	30



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Flanşlı 3 Yollu Küresel Vana Flanged 3 Way Ball Valve

Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations

Bağlantılar
Connections
EN 1092-1

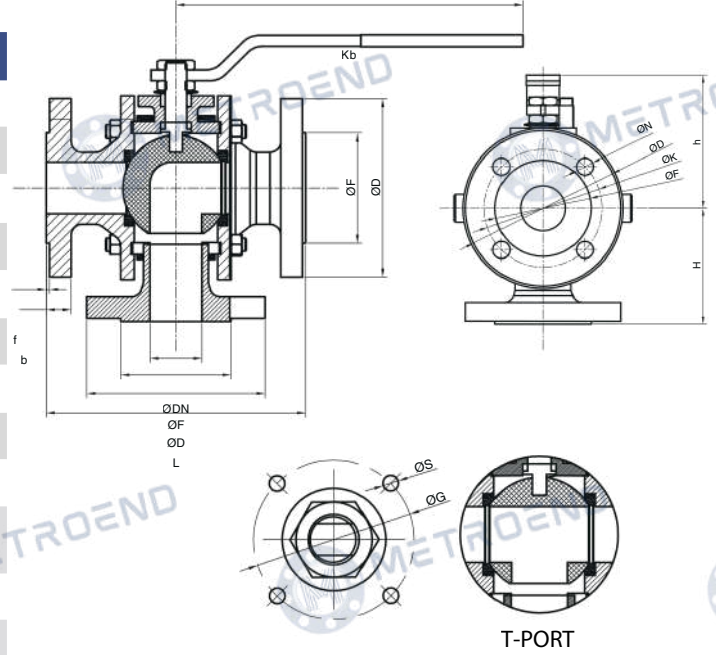
Çalışma Sıcaklığı
Working Temperature
-30°C / +200°C

Çalışma Basıncı
Working Pressure
PN16



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	GÖVDE	BODY	CARBON STEEL / AISI304 / AISI316
2	KAPAK	BONNET	CARBON STEEL / AISI304 / AISI316
3	KÜRE	BALL	AISI420 / AISI304 / AISI316
4	MİL	STEM	AISI420
5	KÜRE CONTA	BALL SEAL	PTFE
6	GÖVDE CONTA	BODY SEAL	PTFE
7	BOĞAZ CONTA	NECK SEAL	PTFE
8	BASKI RİNGİ	PRES.RING	ST42
9	ÇANAK PUL	WASHER	CK70
10	KONTRA SOMUN	COUNTER NUT	5.6.
11	CIVATA	BOLT	ST42
12	SOMUN	NUT	5.6.
13	STOPLAMA PİMİ	STOP. PIM	ST42
14	KOL	HANDLE	ST37



ÖLÇÜLER - DIMENSIONS

DN	L	KB	h	f	PN16				PN40				F	H	G	S	KG
					D	b	ØK	dxn	D	b	ØK	dxn					
15	130	150	80	2	95	14	65	14x4	95	14	65	14x4	46	70	36	M5	3,00
20	150	150	85	2	105	16	75	14x4	105	16	75	14x4	56	80	36	M5	4,00
25	160	185	90	2	115	16	85	14x4	115	16	85	14x4	65	85	42	M5	5,00
32	180	240	100	2	140	18	100	19x4	140	18	100	19x4	76	90	42	M5	7,00
40	200	280	120	3	150	18	110	19x4	150	18	110	19x4	84	100	50	M6	10,00
50	230	280	125	3	165	18	125	19x4	165	20	125	19x4	99	115	50	M6	13,00
65	290	330	150	3	185	18	145	19x4	185	22	145	19x8	118	145	70	M8	20,00
80	310	400	160	3	200	20	160	19x8	200	24	160	19x8	132	160	70	M8	26,50
100	350	460	175	3	220	20	180	19x8	235	24	190	22x8	156	180	102	M10	43,00
125	400	460	200	3	250	22	210	19x8	270	26	220	26x8	184	220	125	M12	62,00
150	450	670	265	3	285	22	240	23x8	300	28	250	26x8	211	300	125	M12	95,00

Paslanmaz Dişli 3 Yollu Küresel Vana

Stainless Steel Threaded 3 Way Ball Valve



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Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations



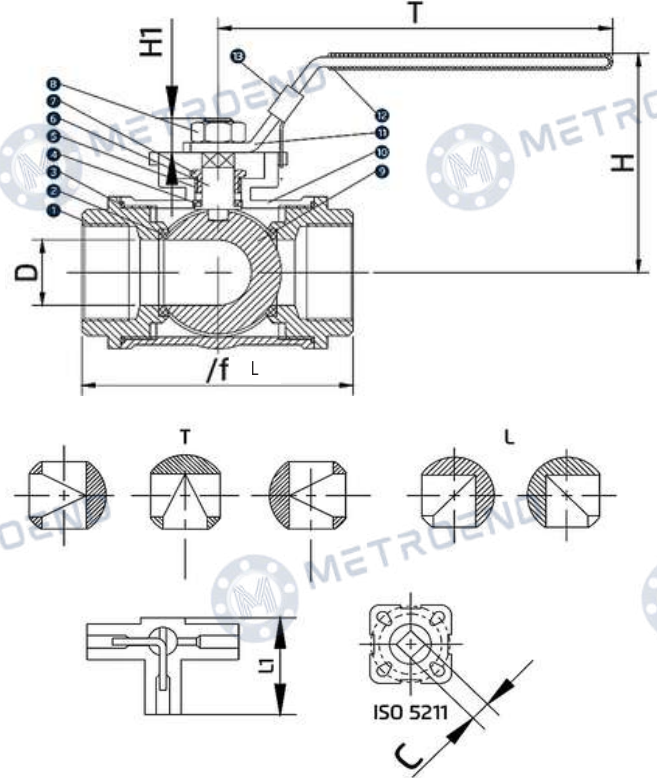
Bağlantılar
Connections
DIN2999

Çalışma Sıcaklığı
Working Temperature
-20°C / +210°C

Çalışma Basıncı
Working Pressure
PN63

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	KEP	CAP	AISI 304 / AISI316
2	SİT	SEAT	PTFE
3	CONTA	JOINT GASKET	PTFE
4	SIKIŞTIRMA PULU	THRUST WASHER	PTFE
5	SALMASTRA	PACKING	PTFE
6	MİL	STEM	AISI 304 / AISI316
7	GLEN	GLAND	AISI 201 / AISI 304
8	SOMUN	NUT	AISI 201 / AISI 304
9	KÜRE	BALL	AISI 304 / AISI316
10	GÖVDE	BODY	AISI 304 / AISI316
11	KOL	HANDLE	AISI 201 / AISI 304
12	KOL KAPLAMASI	HANDLE COVER	PVC
13	KİLİT	LOCK	AISI 201 / AISI 304



ÖLÇÜLER - DIMENSIONS

DN	G	D	L	L1	H	T	C	ISO5211	KG
8	1/4"	8	73	55	65	131	9	F03/F04	0,65
10	3/8"	10	73	55	65	131	9	F03/F04	0,65
15	1/2"	12	75	55	65	131	9	F03/F04	0,65
20	3/4"	15	85	63	70	131	9	F03/F04	0,65
25	1"	18	100	72	83	167	11	F04/F05	1,25
32	1/4"	25	120	92	90	167	11	F04/F05	2,25
40	1/2"	32	125	100	115	193	14	F05/F07	3,5
50	2"	38	150	119	121	193	14	F05/F07	4,5
65	2 1/2"	50	175	142	138	242	17	F07/F10	7
80	3"	64	201	163	150	272	17	F07/F10	10
100	4"	78	235	192	154	295	17	F07/F10	15



METROEND

Paslanmaz 2 Parçalı Dişli Küresel Vana Stainless Steel 2 Piece Threaded Ball Valve

www.metroend.com

Uygulama Alanları



Kimya - Petrokimya



Su - Atık Su



Isıtma - Soğutma Sistemleri



Denizcilik Uygulamaları



Madencilik Uygulamaları



Enerji Santralleri

Application Areas



Chemical - Petrochemical



Water - Wastewater



Heating - Cooling Systems



Maritime Applications



Mining Applications



Power Stations



Bağlantılar
Connections

DIN2999
BSPP



Çalışma Sıcaklığı
Working Temperature

-20°C / +210°C

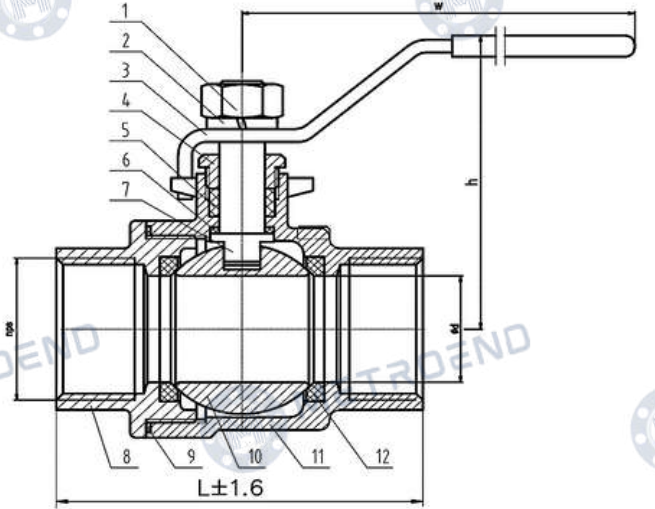


Çalışma Basıncı
Working Pressure

PN63

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	SOMUN	HEXAGON NUT	AISI 304 / AISI316
2	YAYLI PUL	SPRING WASHER	AISI 304 / AISI316
3	KOL	HANDLE	AISI 304 / AISI316
4	GLEN	PACKING GLAND	AISI 304 / AISI316
5	SALMASTRA	PACKING	PTFE
6	SIKIŞTIRMA PULU	THRUST WASHER	PTFE
7	MİL	STEM	AISI 304 / AISI316
8	KEP	CAP	AISI 304 / AISI316
9	KEP CONTASI	SEAL GASKET	PTFE
10	KÜRE	BALL	AISI 304 / AISI316
11	GÖVDE	BODY	AISI 304 / AISI316
12	SİT	SEAT	PTFE



ÖLÇÜLER - DIMENSIONS

DN	NPS	d	L	h	w	KG
8	1/4"	10	50	45	95	0,21
10	3/8"	11,5	60	45	95	0,21
15	1/2"	15	75	53	95	0,29
20	3/4"	20	80	60	115	0,41
25	1"	25	90	67	135	0,6
32	1 1/4"	32	110	77	150	0,87
40	1 1/2"	38	120	90	160	1,36
50	2"	49	140	98	180	1,82
65	2 1/2"	65	185	120	230	4,16
80	3"	76	205	134	260	5,88
100	4"	98	240	159	300	9

Paslanmaz 3 Parçalı Dişli Küresel Vana

Stainless Steel 3 Piece Threaded Ball Valve



METROEND

www.metroend.com

Uygulama Alanları



Kimya - Petrokimya



Su - Atık Su



Isıtma - Soğutma Sistemleri



Denizcilik Uygulamaları



Madencilik Uygulamaları



Enerji Santralleri

Application Areas



Chemical - Petrochemical



Water - Wastewater



Heating - Cooling Systems



Maritime Applications



Mining Applications



Power Stations



Bağlantılar
Connections

DIN2999
BSPP



Çalışma Sıcaklığı
Working Temperature

-20°C / +210°C

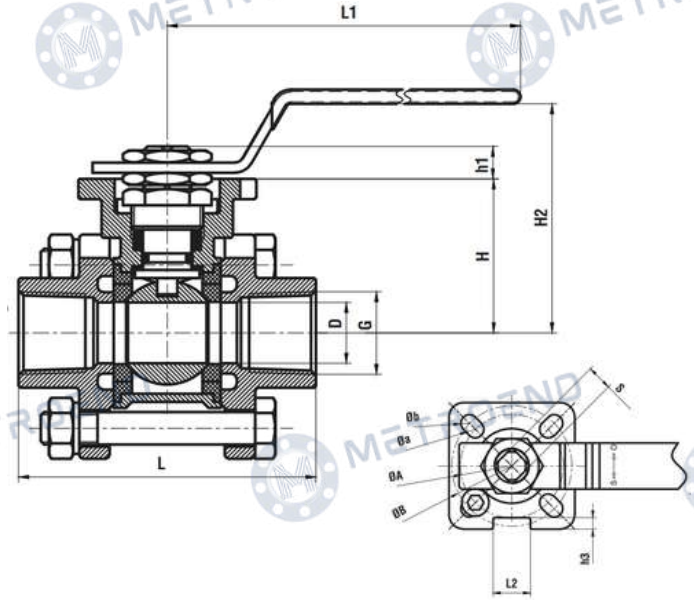


Çalışma Basıncı
Working Pressure

PN63

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	GÖVDE	BODY	AISI 316
2	KEP	CAP	AISI 316
3	PUL	BOLT WASHER	AISI 304
4	SOMUN	HEX NUT	AISI 304
5	CİVATA	BOLT	AISI 304
6	SİT	SEAT	PTFE
7	KÜRE	BALL	AISI 316
8	MİL	STEM	AISI 316
9	SIKIŞTIRMA PULU	THRUST WASHER	PTFE
10	O-RING	O-RING	VITON
11	SALMASTRA	PACKING	PTFE
12	GLEN	GLAND	AISI 304
13	SOMUN	NUT	AISI 304
14	KOL	HANDLE	AISI 304



ÖLÇÜLER - DIMENSIONS

DN	G	D	L	S	h1	H	h2	L1	Øa	Øb	ØA	ØB	L2	h3	KG
8	1/4"	10,5	73	9	8	38	60	130	6	6	36	42	13	4	0,4
10	3/8"	12	73	9	8	38	60	130	6	6	36	42	13	4	0,4
15	1/2"	15	75	9	8	38	60	130	6	6	36	42	13	4	0,5
20	3/4"	20	80	9	10	46	70	160	6	6	36	42	13	4	0,8
25	1"	25	90	11	12	55	85	175	6	7	42	50	14	5	1
32	1 1/4"	32	110	11	12	59	90	175	6	7	42	50	14	5	2
40	1 1/2"	38	120	14	16	71	105	180	7	9	50	70	16	6	2,5
50	2"	49	140	14	16	79	115	180	7	9	50	70	16	6	4
65	2 1/2"	65	185	17	19	95	145	210	9	11	70	102	22	8	8
80	3"	80	205	17	19	107	155	240	9	11	70	102	22	8	12
100	4"	98	240	17	19	126	175	314	9	11	70	102	22	8	18



METROEND

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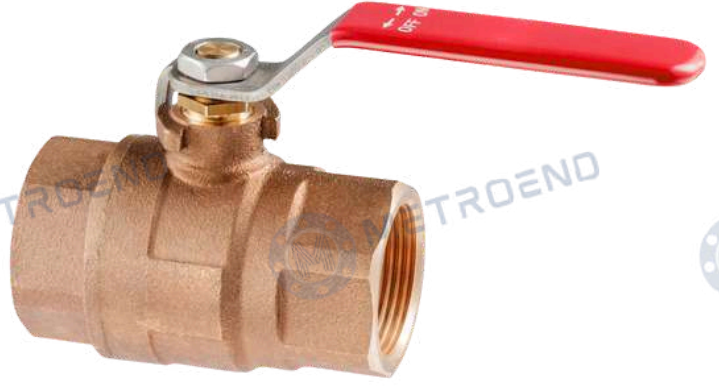
Bronz Dişli Küresel Vana Bronze Threaded Ball Valve

Uygulama Alanları

- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları

Application Areas

- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications



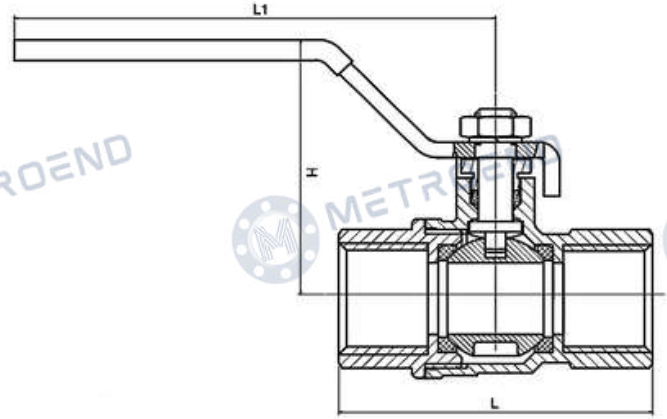
Bağlantılar
Connections
DIN2999
BSPT

Çalışma Sıcaklığı
Working Temperature
-20°C / +170°C

Çalışma Basıncı
Working Pressure
PN25

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	RG5
KAPAK	CAP	RG5
KÜRE	BALL	PİRİNÇ / BRASS
KÜRE CONTASI	BALL SEAT	PTFE
MİL	STEM	PİRİNÇ / BRASS
MİL CONTASI	WASHER	PTFE
SALMASTRA SOMUNU	GLAND NUT	PİRİNÇ / BRASS
KOL	HANDLE	AISI 304
KOL SAPI	HANDLE SLEEVE	PVC
KOL SOMUNU	HANDLE NUT	STEEL



ÖLÇÜLER - DIMENSIONS

DN	NPS	L	L1	H	KG
15	1/2"	53	95	44	0,230
20	3/4"	61	110	51	0,37
25	1"	71	110	55	0,54
32	1 1/4"	85	140	65	0,84
40	1 1/2"	92	140	70	1,13
50	2"	114	160	83	1,88

Pirinç Dişli Küresel Vana

Brass Threaded Ball Valve



METROEND

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Uygulama Alanları

- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları

Application Areas

- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications



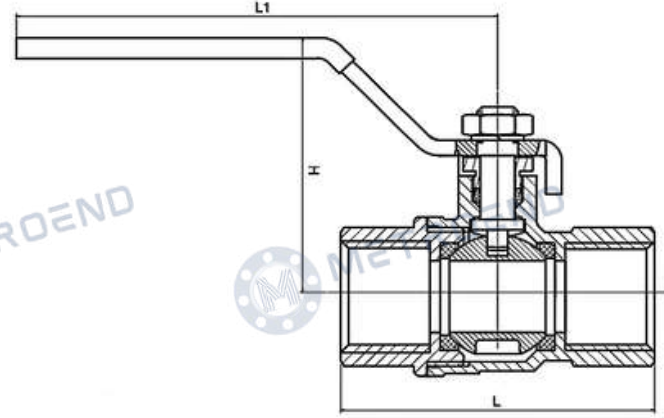
Bağlantılar
Connections
DIN2999
BSPP

Çalışma Sıcaklığı
Working Temperature
-10°C / +120°C

Çalışma Basıncı
Working Pressure
PN16 / PN25 / PN40

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	MS58
KAPAK	CAP	MS58
KÜRE	BALL	MS58
CONTA	GASKET	PTFE
MİL	STEM	MS58
O-RING	O-RING	EPDM / VITON
SOMUN	NUT	STEEL
KOL	HANDLE	STEEL



ÖLÇÜLER - DIMENSIONS

DN	NPS	L	L1	H	KG
15	1/2"	54	80	37	0,15
20	3/4"	61	95	53	0,25
25	1"	73	115	55	0,45
32	1 1/4"	83	115	59	0,65
40	1 1/2"	95	125	77	0,95
50	2"	113	145	90	1,45
65	2 1/2"	132	230	107	3,65
80	3"	149	250	120	5,60
100	4"	174	250	135	9,10



METROEND

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Paslanmaz Mini Küresel Vana Stainless Steel Mini Ball Valve

Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations



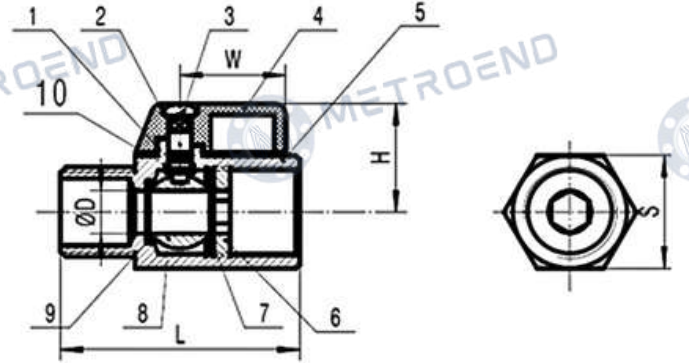
Bağlantılar
Connections
DIN2999
BSPP

Çalışma Sıcaklığı
Working Temperature
-20°C / +200°C

Çalışma Basıncı
Working Pressure
PN63

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	O-RING	O-RING	VITON
2	MİL	STEM	AISI316
3	KOL VİDASI	BOLT	AISI 304
4	KOL	LEVER	ALUMINIUM
5	GÖVDE	BODY	AISI 316
6	KAPAK	CAP	AISI 316
7	KÜRE SIZDIRMAZLIĞI	BALL SEAT	R-PTFE
8	KÜRE	BALL	AISI 316
9	KÜRE SIZDIRMAZLIĞI	BALL SEAT	PTFE
10	MİL SIZDIRMAZLIĞI	THRUST WASHER	PTFE



ÖLÇÜLER - DIMENSIONS

DN	NPS	D	L	H	W	S	KG
DN8	1/4"	8	39	26,5	22,8	21	0,08
DN10	3/8"	8	41	26,5	22,8	21	0,08
DN15	1/2"	9,2	46	28,3	22,8	24,5	0,11
DN20	3/4"	12,5	55	31,5	22,8	31	0,2
DN25	1"	15	65	34	22,8	38	0,35

Pirinç Mini Küresel Vana

Brass Mini Ball Valve



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Uygulama Alanları

- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları

Application Areas

- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications



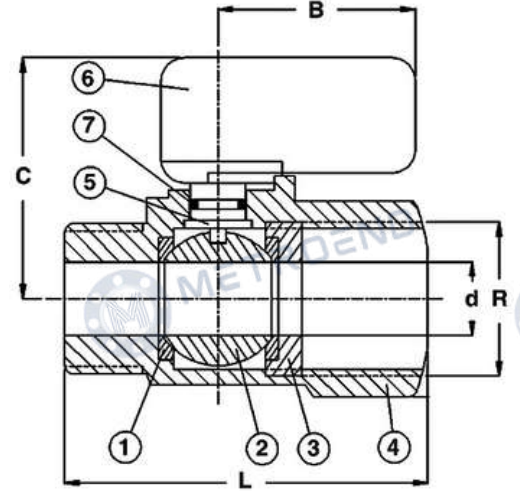
Bağlantılar
Connections
DIN2999
BSPP

Çalışma Sıcaklığı
Working Temperature
-10°C / +120°C

Çalışma Basıncı
Working Pressure
PN16

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	GÖVDE	BODY	MS58
2	KAPAK	BONNET	MS58
3	KÜRE	BALL	MS58
4	SIZDIRMAZLIK RİNGİ	BALL SEAT	PTFE
5	MİL	STEM	MS58
6	KOL	LEVER	ALUMINIUM
7	O-RING	O-RING	NBR



ÖLÇÜLER - DIMENSIONS

DN	NPS	d	L	B	C	KG
DN6	1/8"	5,5	38,5	22	30	0,05
DN8	1/4"	8	39	21	25	0,05
DN10	3/8"	7,5	40	21	25	0,08
DN15	1/2"	9,5	45	21	27	0,10
DN20	3/4"	12	51	21	31	0,15



METROEND

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Monoblok Küresel Vana Monoblock Ball Valve

Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations



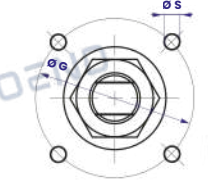
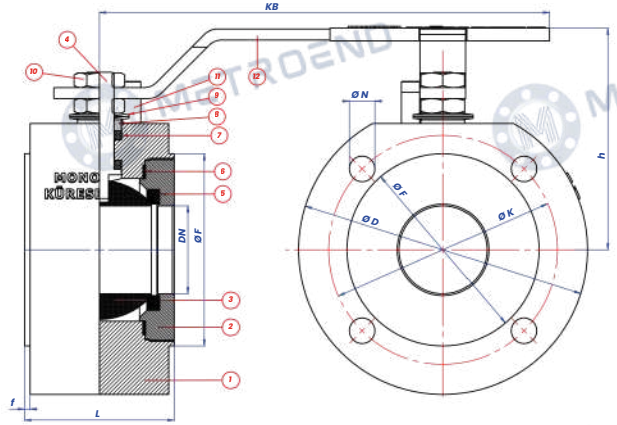
Bağlantılar
Connections
DIN EN1092-2

Çalışma Sıcaklığı
Working Temperature
-10°C / +110°C

Çalışma Basıncı
Working Pressure
PN16 / PN40

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	GÖVDE	BODY	CARBON ST. / AISI304 / AISI316
2	KAPAK	BONNET	CARBON ST. / AISI304 / AISI316
3	KÜRE	BALL	AISI420 / AISI304 / AISI316
4	MİL	STEM	AISI420
5	KÜRE CONTA	BALL SEAL	PTFE
6	GÖVDE CONTA	BODY SEAL	PTFE
7	BOĞAZ CONTA	NECK SEAL	PTFE
8	BASKI RİNGİ	PRES.RING	ST42
9	ÇANAK PUL	WASHER	CK70 / AISI304
10	KONTRA SOMUN	COUNTER NUT	5.6 / AISI304
11	STOPLAMA PİMİ	STOP. PİM	ST42 / AISI304
12	KOL	HANDLE	ST37 / AISI304



AKTÜATÖR BAĞLANTI
ÖLÇÜLERİ
ACTUATOR CONNECTION SIZES

ÖLÇÜLER - DIMENSIONS

DN	L	KB	h	f	PN16				PN40				F	G	S	KG
					D	Hole	ØK	M	D	Hole	ØK	M				
15	39	150	80	2	88	4	65	M12	88	4	65	M12	50	36	M5	1,45
20	42	150	85	2	98	4	75	M12	98	4	75	M12	60	36	M5	1,90
25	47	185	90	2	109	4	85	M12	109	4	85	M12	68	42	M5	2,80
32	58	240	100	2	135	4	100	M16	135	4	100	M16	78	42	M5	5,00
40	65	280	120	3	147	4	110	M16	147	4	110	M16	88	50	M6	6,50
50	84	280	125	3	167	4	125	M16	167	4	125	M16	105	50	M6	10,50
65	105	330	150	3	178	4	145	M16	178	8	145	M16	125	70	M8	14,50
80	120	400	160	3	198	8	160	M16	198	8	160	M16	132	70	M8	21,50
100	150	460	175	3	233	8	180	M16	233	8	190	M20	158	102	M10	36,00
125	200	460	200	3	270	8	210	M16	270	8	220	M20	188	125	M12	65,00
150	235	670	240	3	310	8	240	M20	310	8	250	M22	212	125	M12	85,00

Paslanmaz Wafer Tip Küresel Vana

Stainless Steel Wafer Type Ball Valve



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Uygulama Alanları



Kimya - Petrokimya



Su - Atık Su



Isıtma - Soğutma Sistemleri



Denizcilik Uygulamaları



Madencilik Uygulamaları



Enerji Santralleri

Application Areas



Chemical - Petrochemical



Water - Wastewater



Heating - Cooling Systems



Maritime Applications



Mining Applications



Power Stations



Bağlantılar
Connections

DIN2542
DIN2545



Çalışma Sıcaklığı
Working Temperature

-20°C / +200°C



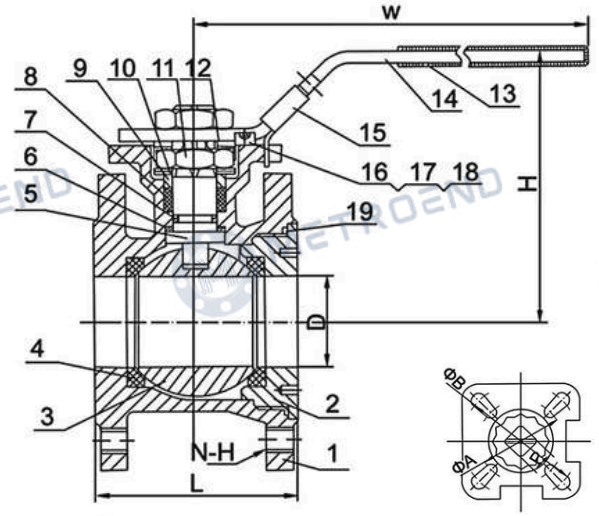
Çalışma Basıncı
Working Pressure

PN16



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	GÖVDE	BODY	AISI 304 / AISI316
2	KAPAK	BONNET	AISI 304 / AISI316
3	KÜRE	BALL	AISI 304 / AISI316
4	KÜRE SIZDIRMAZLIK	BALL SEAT	R-PTFE
5	MİL	STEM	AISI 304 / AISI316
6	MİL BURCU	STEM PACKING	PTFE
7	O-RING	O-RING	NBR
8	MİL SIZDIRMAZLIK	STEM SEAT	PTFE
9	SALMASTRA SOMUNU	GLAND NUT	AISI 304
10	YAYLI RONDELA	SPRING WASHER	AISI 304
11	SOMUN	NUT	AISI 304
12	TOZLUK	WASHER	AISI 304
13	KOL KAPLAMASI	HANDLE SLEEVE	PVC
14	KOL	HANDLE	AISI 304
15	KİLİT	LOCK	AISI 304
16	CIVATA	BOLT	AISI 304
17	CIVATA PULU	BOLT NUT	AISI 304
18	CIVATA RONDELASI	BOLT WASHER	AISI 304
19	GÖVDE SIZDIRMAZLIK	BODY PACKING	PTFE



ÖLÇÜLER - DIMENSIONS

DN	D	P	A	B	N-H	W	H	L	ISO5211	KG
15	15	9	36	42	12x4	120	78	35	F03/F04	1
20	20	9	36	42	12x4	120	84	38	F03/F04	1,5
25	25	11	42	50	12x4	140	93	42	F03/F04	2
32	32	11	42	50	16x4	170	105	52	F03/F04	3,1
40	38	14	50	70	16x4	200	112	62	F04/F05	4,2
50	50	14	50	70	16x4	240	120	72	F04/F05	5,5
65	65	17	70	102	16x4	280	145	96	F05/F07	8,2
80	76	17	70	102	16x8	320	155	118	F05/F07	12
100	94	22	102	102	16x8	400	189	138	F07/F10	17



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Hijyenik Kelebek Vana Hygienic Butterfly Valve

Uygulama Alanları

- Gıda
- Kimya - Petrokimya
- Enerji Santralleri
- Madencilik Uygulamaları
- Su - Atık Su

Application Areas

- Food
- Chemical - Petrochemical
- Power Plants
- Mining Applications
- Water - Wastewater

Bağlantılar
Connections
DIN

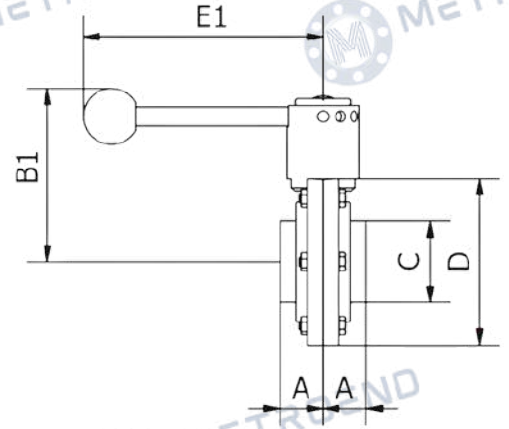
Çalışma Sıcaklığı
Working Temperature
-10°C / +120°C

Çalışma Basıncı
Working Pressure
PN10



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	AISI304 / AISI316
KLAPE	DISC	AISI304 / AISI316
MİL	STEM	AISI304 / AISI316
CONTA	GASKET	EPDM
HENDİL	HANDWHEEL	AISI304 / AISI316



ÖLÇÜLER - DIMENSIONS

DN	A	B1	C	D	E1	KG
25	26	97	25.4x1.5	80	150	1,15
32	25	103	38.1x1.5	92	150	1,25
50	27	109	50.8x1.5	104	150	1,80
65	28	119	63.5x1.5	120	150	2,35
80	30	128	76.1x1.5	130	150	2,70
100	36	138	101.6x2	162	150	3,00
150	56	161	127x2	200	150	6,50

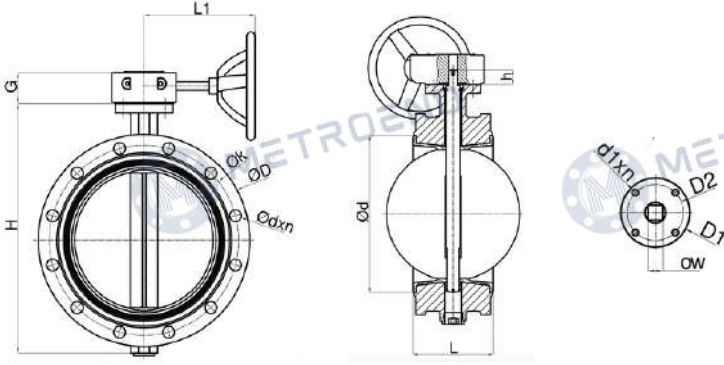
Çift Flanşlı Kelebek Vana

Double Flanged Butterfly Valve



METROEND

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MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GGG40 / RG5 / RG10
UZUN BURÇ	LONG BUSHING	PTFE
MİL	STEM	AISI420 / BRASS
CONTA	GASKET	NBR / EPDM
KLAPE	DISC	AISI304 / AISI316 / ALU.BRONZE
KISA BURÇ	SHORT BUSHING	PTFE
O-RİNG	O-RING	NBR / EPDM
DİŞLİ KUTUSU	GEAR BOX	GGG40
CIVATA	BOLT	STEEL



Bağlantılar
Connections
DIN1092-2



Çalışma Sıcaklığı
Working Temperature
• NBR: -10°C / +82°C
• EPDM: -10°C / +110°C



Çalışma Basıncı
Working Pressure
PN16

Uygulama Alanları



Kimya - Petrokimya



Su - Atık Su



Isıtma - Soğutma Sistemleri



Denizcilik Uygulamaları



Madencilik Uygulamaları



Enerji Santralleri

Application Areas



Chemical - Petrochemical



Water - Wastewater



Heating - Cooling Systems



Maritime Applications



Mining Applications



Power Plants

ÖLÇÜLER - DIMENSIONS

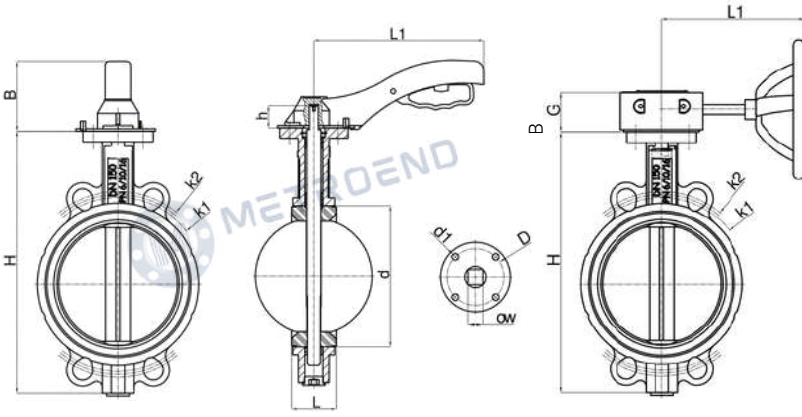
DN	ØD	Øk	H	d	L	L1	Ødxn	D1	D2	W	Ød1xn	h	G	KG
40	150	110	201	80	110	160	18x4	65	50	9	7x4	23	70	10
50	165	125	203	99	112	160	18x4	65	50	9	7x4	23	70	11
65	185	145	223	118	116	160	18x8	65	50	9	7x4	23	70	13
80	200	160	245	132	118	160	18x8	65	50	9	7x4	23	70	14
100	220	180	269	156	127	160	18x8	90	70	11	10x4	23	70	18
125	250	210	295	184	140	160	18x8	90	70	14	10x4	25	70	23
150	285	240	333	211	140	160	22x8	90	70	14	10x4	25	70	26
200	340	295	375	266	152	160	22x12	125	102	17	12x4	30	70	40
250	405	355	433	319	165	255	26x12	125	102	22	12x4	38	75	54
300	460	410	503	370	178	260	26x12	125	102	22	12x4	38	75	68
350	520	470	589	429	190	260	26x16	150	125	22	12x4	44	75	90
400	580	525	640	480	216	310	30x16	175	140	27	18x4	50	90	140
450	640	585	720	530	222	310	30x20	175	140	27	18x4	52	90	183
500	715	650	785	585	229	310	33x20	175	140	36	18x4	57	90	200
600	780	725	940	720	267	256	31x20	210	165	36	22x4	70	125	350
700	895	840	1070	794	292	337	31x24	300	254	46	18x8	66	149	375
800	1015	950	1150	871	318	359	33x24	300	254	46	18x8	66	155	400
900	1115	1050	1323	1001	330	359	34x28	300	254	60	18x8	90	155	700
1000	1230	1160	1425	1080	410	359	36x28	300	254	60	18x8	90	155	850



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Wafer Tip Kelebek Vana Wafer Type Butterfly Valve



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25 / GGG40 / RG5 / RG10 / AISI304 / AISI316
UZUN BURÇ	LONG BUSHING	PTFE
MİL	STEM	AISI420 / BRASS
CONTA	GASKET	NBR / EPDM / VITON / PTFE / NR / SBR /
KLAPE	DISC	AISI304 / AISI316 / ALU.BRONZE
KISA BURÇ	SHORT BUSHING	PTFE
O-RİNG	O-RING	NBR / VITON
KOL	LEVER	ST42 / ALUMINIUM
CIVATA	BOLT	STEEL



Bağlantılar
Connections
DIN1092-2



Çalışma Sıcaklığı
Working Temperature
• NBR: -10°C / +82°C
• EPDM: -10°C / +110°C
• PTFE: -20°C / +150°C
• VITON: -20°C / +150°C
• NR: -20°C / +82°C



Çalışma Basıncı
Working Pressure
PN16

Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Plants

ÖLÇÜLER - DIMENSIONS

DN	H	L1	D	d1	W	L	d	h	B	PN6	PN10	PN16	KG
										Øk1	Øk2	Øk3	
25	198	172	50	7	9	35	62	23	68	85	100	100	1,60
32	198	172	50	7	9	35	62	23	68	90	100	100	1,80
40	198	172	50	7	9	35	72	23	68	100	110	110	2,10
50	198	172	50	7	9	46	76	23	68	110	125	125	2,40
65	218	172	50	7	9	49	89	23	68	130	145	145	2,90
80	233	172	50	7	9	49	104	23	68	150	160	160	3,30
100	270	218	70	10	11	55	135	23	82	170	180	180	4,90
125	303	218	70	10	14	59	159	25	82	200	210	210	6,20
150	340	218	70	10	14	59	188	25	82	225	240	240	7,50
200	400	322	102	12	17	64	238	36	84	280	295	295	13,80
250	470	260	102	12	22	72	292	38	75	335	350	355	21,50
300	540	260	125	12	22	81	344	38	75	395	400	410	36,00
350	610	260	125	14	22	79	375	44	75	445	460	470	46,50
400	680	310	140	18	27	107	440	52	90	495	515	525	75,50
450	740	310	140	18	27	120	491	52	90	550	565	585	94,00
500	820	310	140	18	36	133	535	57	90	600	620	650	120,00
600	1037	337	165	22	36	160	654	70	125	705	725	770	214,00

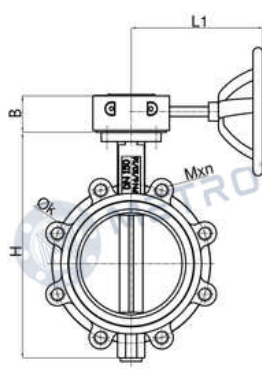
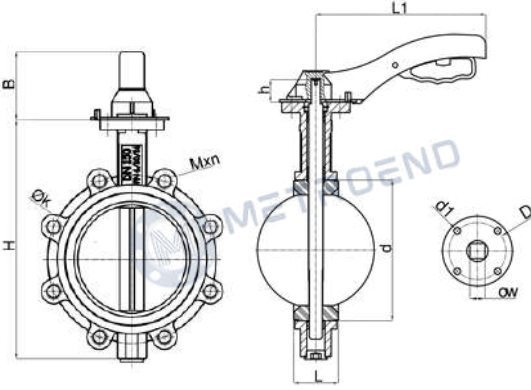
Lug Tip Kelebek Vana

Lug Type Butterfly Valve



METROEND

www.metroend.com



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25 / GGG40 / RG5 / RG10 / AISI304 / AISI316
UZUN BURÇ	LONG BUSHING	PTFE
MİL	STEM	AISI420 / BRASS
CONTA	GASKET	NBR / EPDM / VITON / PTFE / NR / SBR /
KLAPE	DISC	AISI304 / AISI316 / ALU.BRONZE
KISA BURÇ	SHORT BUSHING	PTFE
O-RİNG	O-RING	NBR / VITON
KOL	LEVER	ST42 / ALUMINIUM
CIVATA	BOLT	STEEL



Bağlantılar
Connections

DIN1092-2



Çalışma Sıcaklığı
Working Temperature

- NBR: -10°C / +82°C
- EPDM: -10°C / +110°C
- PTFE: -20°C / +150°C
- VITON: -20°C / +150°C
- NR: -20°C / +82°C



Çalışma Basıncı
Working Pressure

PN16

Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Plants

ÖLÇÜLER - DIMENSIONS

DN	H	L1	D	d1	W	L	d	h	B	PN10		PN16		5K		10K		KG
										Øk	nxM	Øk	nxM	Øk	nxM	Øk	nxM	
40	198	172	50	7	9	35	72	23	68	110	4xM16	110	4xM16	95	4xM12	105	4xM16	2,50
50	198	172	50	7	9	46	76	23	68	125	4xM16	125	4xM16	105	4xM12	120	4xM16	2,80
65	218	172	50	7	9	49	89	23	68	145	4xM16	145	4xM16	130	4xM12	140	4xM16	3,50
80	233	172	50	7	9	49	104	23	68	160	8xM16	160	8xM16	145	4xM16	150	8xM16	4,50
100	270	218	70	10	11	55	135	23	82	180	8xM16	180	8xM16	165	8xM16	175	8xM16	6,50
125	303	218	70	10	14	59	159	25	82	210	8xM16	210	8xM16	200	8xM16	210	8xM20	8,50
150	340	218	70	10	14	59	188	25	82	240	8xM20	240	8xM20	230	8xM16	240	8xM20	10,00
200	400	322	102	12	17	64	238	36	84	295	8xM20	295	12xM20	280	8xM20	290	12xM20	18,00
250	470	260	102	12	22	72	292	38	75	350	12xM20	355	12xM24	345	12xM20	355	12xM22	26,50
300	540	260	125	12	22	81	344	38	75	400	12xM20	410	12xM24	390	12xM20	400	16xM22	43,00
350	610	260	125	14	22	79	375	44	75	460	16xM20	470	16xM24	435	12xM22	445	16xM22	74,00
400	680	310	140	18	27	107	440	52	90	515	16xM24	525	16xM27	495	16xM22	510	16xM24	118,00
450	740	310	140	18	27	120	491	52	90	565	20xM24	585	20xM27	555	16xM22	565	20xM24	140,00
500	820	310	140	18	36	133	535	57	90	620	20xM24	650	20xM30	605	20xM22	620	20xM24	180,00
550	880	256	165	22	36	157	604	70	125	675	20xM24	680	20xM30	665	20xM24	680	20xM30	172,00
600	1037	337	165	22	36	160	654	70	125	725	20xM27	770	20xM33	715	20xM24	730	24xM30	275,00
700	1142	359	254	18	46	170	744	66	149	840	24xM27	840	24xM33	820	24xM24	840	24xM30	300,00

Uygulama Alanları



Kimya – Petrokimya



Su - Atık Su



Isıtma - Soğutma Sistemleri



Denizcilik Uygulamaları



Madencilik Uygulamaları



Enerji Santralleri

Application Areas



Chemical - Petrochemical



Water – Wastewater



Heating - Cooling Systems



Maritime Applications



Mining Applications



Power Stations



Bağlantılar
Connections

DIN 1092-2



Çalışma Sıcaklığı
Working Temperature
-10°C / +120°C

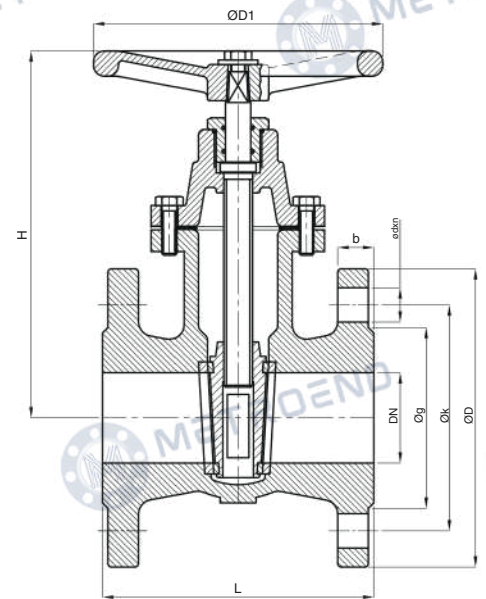


Çalışma Basıncı
Working Pressure
PN16



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25 / GGG40 / RG5 / RG10
SİT	SEAT	BRASS / BRONZE
SÜRGÜ	WEDGE	GG25 / GGG40 / RG5 / RG10
MİL	STEM	AISI420
CONTA	GASKET	NBR / VITON
KAPAK	BONNET	GG25 / GGG40 / RG5 / RG10
HENDİL	HANDWHEEL	GG25



ÖLÇÜLER - DIMENSIONS

	PN10					PN16								
DN	ØD	Øk	Øg	b	Ødxn	ØD	Øk	Øg	b	Ødxn	ØD1	H	L	KG
40	150	110	84	18	19x4	150	110	84	18	19x4	160	185	140	7
50	165	125	99	20	19x4	165	125	99	20	19x4	160	190	150	8
65	185	145	118	20	19x4	185	145	118	20	19x4	160	210	170	12
80	200	160	132	22	19x8	200	160	132	22	19x8	160	235	180	15
100	220	180	156	24	19x8	220	180	156	24	19x8	200	265	190	20
125	250	210	184	26	19x8	250	210	184	26	19x8	250	350	200	34
150	285	240	211	26	23x8	285	240	211	26	23x8	250	380	210	43
200	340	295	266	26	23x8	340	295	266	26	23x12	315	490	230	80
250	395	350	319	28	23x12	405	355	320	32	28x12	315	615	250	125
300	445	400	370	28	23x12	460	410	370	32	28x12	315	700	270	170

Seviye Göstergeli Sürgülü Vana PN16 DIN3216

Gate Valve With Indicator PN16 DIN3216



METROEND

www.metroend.com

Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

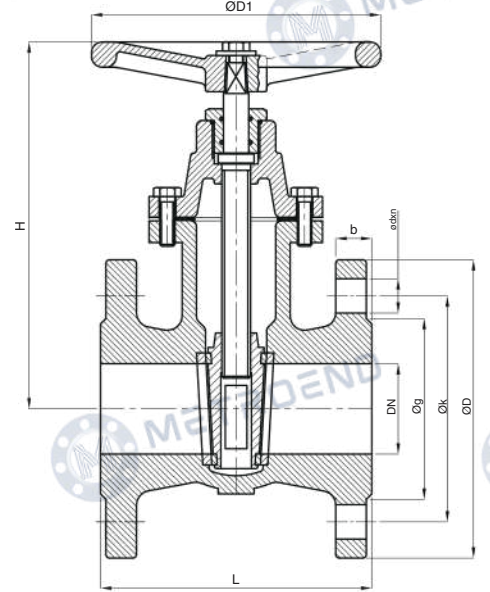
Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25 / GGG40 / RG5 / RG10
SİT	SEAT	BRASS / BRONZE
SÜRGÜ	WEDGE	GG25 / GGG40 / RG5 / RG10
MİL	STEM	AISI420
CONTA	GASKET	NBR / VITON
KAPAK	BONNET	GG25 / GGG40 / RG5 / RG10
HENDİL	HANDWHEEL	GG25
GÖSTERGE	INDICATOR	BRASS



ÖLÇÜLER - DIMENSIONS

DN	PN10					PN16					ØD1	H	L	KG
	ØD	Øk	Øg	b	Ødxn	ØD	Øk	Øg	b	Ødxn				
40	150	110	84	18	19x4	150	110	84	18	19x4	160	185	140	7
50	165	125	99	20	19x4	165	125	99	20	19x4	160	190	150	8
65	185	145	118	20	19x4	185	145	118	20	19x4	160	210	170	12
80	200	160	132	22	19x8	200	160	132	22	19x8	160	235	180	15
100	220	180	156	24	19x8	220	180	156	24	19x8	200	265	190	20
125	250	210	184	26	19x8	250	210	184	26	19x8	250	350	200	34
150	285	240	211	26	23x8	285	240	211	26	23x8	250	380	210	43
200	340	295	266	26	23x8	340	295	266	26	23x12	315	490	230	80
250	395	350	319	28	23x12	405	355	320	32	28x12	315	615	250	125
300	445	400	370	28	23x12	460	410	370	32	28x12	315	700	270	170



METROEND

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Sürgülü Vana PN16 DIN3225 Gate Valve PN16 DIN3225

Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations

Bağlantılar
Connections
DIN1092-2

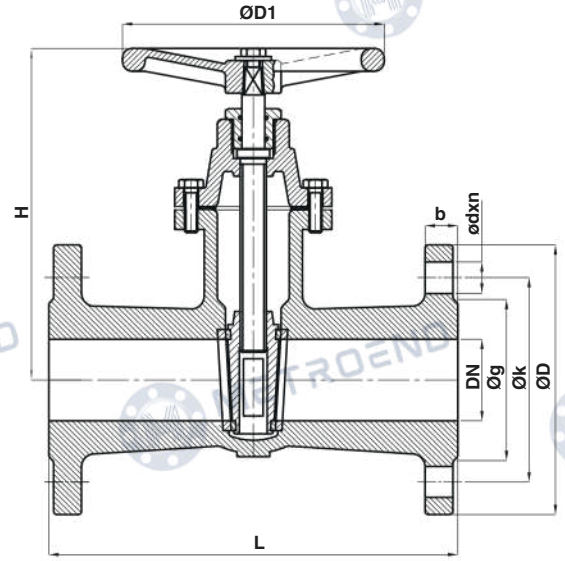
Çalışma Sıcaklığı
Working Temperature
-10°C / +120°C

Çalışma Basıncı
Working Pressure
PN16



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25 / GGG40
SİT	SEAT	BRASS / BRONZE
SÜRGÜ	WEDGE	GG25 / GGG40
MİL	STEM	AISI420
CONTA	GASKET	NBR / VITON
KAPAK	BONNET	GG25 / GGG40
HENDİL	HANDWHEEL	GG25



ÖLÇÜLER - DIMENSIONS

DN	PN10					PN16					ØD1	H	L	KG
	ØD	Øk	Øg	b	Ødxn	ØD	Øk	Øg	b	Ødxn				
40	150	110	84	18	19x4	150	110	84	18	19x4	160	185	240	11
50	165	125	99	20	19x4	165	125	99	20	19x4	160	190	250	12
65	185	145	118	20	19x4	185	145	118	20	19x4	160	210	270	18
80	200	160	132	22	19x8	200	160	132	22	19x8	160	235	280	20
100	220	180	156	24	19x8	220	180	156	24	19x8	200	265	300	26
125	250	210	184	26	19x8	250	210	184	26	19x8	250	350	325	44
150	285	240	211	26	23x8	285	240	211	26	23x8	250	385	350	58
200	340	295	266	26	23x8	340	295	266	26	23x12	315	495	400	91
250	395	350	319	28	23x12	405	355	320	32	28x12	315	640	450	175
300	445	400	370	28	23x12	460	410	370	32	28x12	315	720	500	240

Seviye Göstergeli Sürgülü Vana PN16 DIN3225

Gate Valve With Indicator PN16 DIN3225



METROEND

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Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

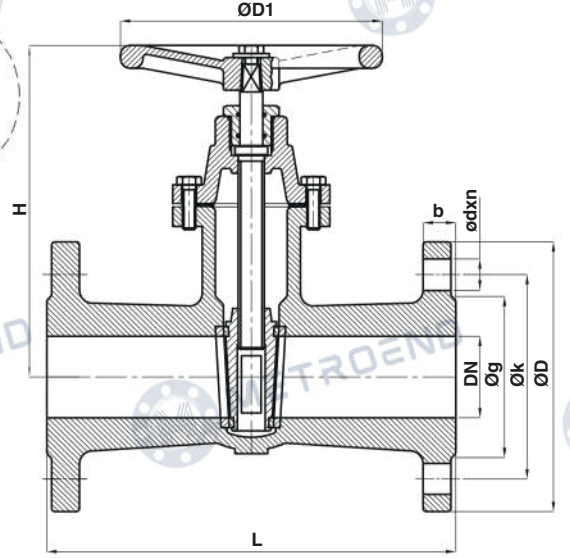
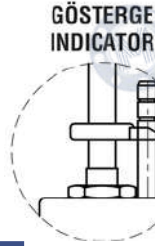
Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25 / GGG40 / RG5 / RG10
SİT	SEAT	BRASS / BRONZE
SÜRGÜ	WEDGE	GG25 / GGG40 / RG5 / RG10
MİL	STEM	AISI420
CONTA	GASKET	NBR / VITON
KAPAK	BONNET	GG25 / GGG40 / RG5 / RG10
HENDİL	HANDWHEEL	GG25
GÖSTERGE	INDICATOR	BRASS



ÖLÇÜLER - DIMENSIONS

DN	PN10					PN16					ØD1	H	L	KG
	ØD	Øk	Øg	b	Ødxn	ØD	Øk	Øg	b	Ødxn				
40	150	110	84	18	19x4	150	110	84	18	19x4	160	185	240	11
50	165	125	99	20	19x4	165	125	99	20	19x4	160	190	250	12
65	185	145	118	20	19x4	185	145	118	20	19x4	160	210	270	18
80	200	160	132	22	19x8	200	160	132	22	19x8	160	235	280	20
100	220	180	156	24	19x8	220	180	156	24	19x8	200	265	300	26
125	250	210	184	26	19x8	250	210	184	26	19x8	250	350	325	44
150	285	240	211	26	23x8	285	240	211	26	23x8	250	385	350	58
200	340	295	266	26	23x8	340	295	266	26	23x12	315	495	400	91
250	395	350	319	28	23x12	405	355	320	32	28x12	315	640	450	175
300	445	400	370	28	23x12	460	410	370	32	28x12	315	720	500	240



METROEND

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Sürgülü Vana PN6 DIN3204 Gate Valve PN6 DIN3204

Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations



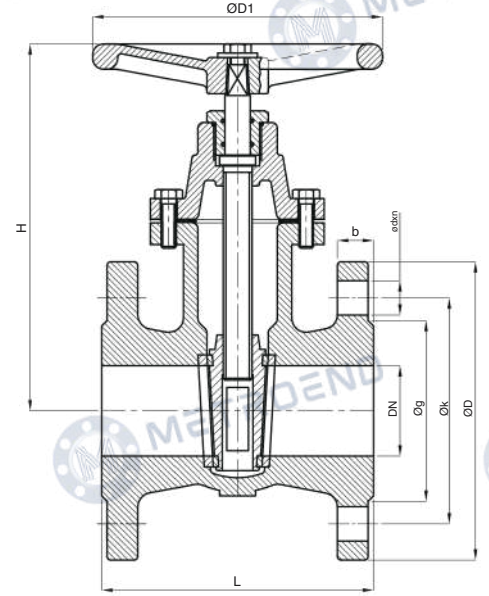
Bağlantılar
Connections
DIN1092-2

Çalışma Sıcaklığı
Working Temperature
-10°C / +120°C

Çalışma Basıncı
Working Pressure
PN16

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25 / GGG40 / RG5 / RG10
SİT	SEAT	BRASS / BRONZE
SÜRGÜ	WEDGE	GG25 / GGG40 / RG5 / RG10
MİL	STEM	AISI420
CONTA	GASKET	NBR / VITON
KAPAK	BONNET	GG25 / GGG40 / RG5 / RG10
HENDİL	HANDWHEEL	GG25



ÖLÇÜLER - DIMENSIONS

DN	ØD	Øk	Øg	b	Ødxn	ØD1	H	L	KG
40	130	100	78	16	14x4	160	185	140	7
50	140	110	88	16	14x4	160	190	150	8
65	160	130	108	16	14x4	160	210	170	12
80	190	150	124	18	19x4	160	235	180	15
100	210	170	144	18	19x4	200	265	190	20
125	240	200	174	20	19x8	250	350	200	34
150	265	225	199	20	19x8	250	380	210	43

Elastomer Sitli Sürgülü Vana

Resilient Seated Gate Valve



METROEND

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Uygulama Alanları



Kimya - Petrokimya



Su - Atık Su



Isıtma - Soğutma Sistemleri



Denizcilik Uygulamaları



Madencilik Uygulamaları



Enerji Santralleri

Application Areas



Chemical - Petrochemical



Water - Wastewater



Heating - Cooling Systems



Maritime Applications



Mining Applications



Power Stations



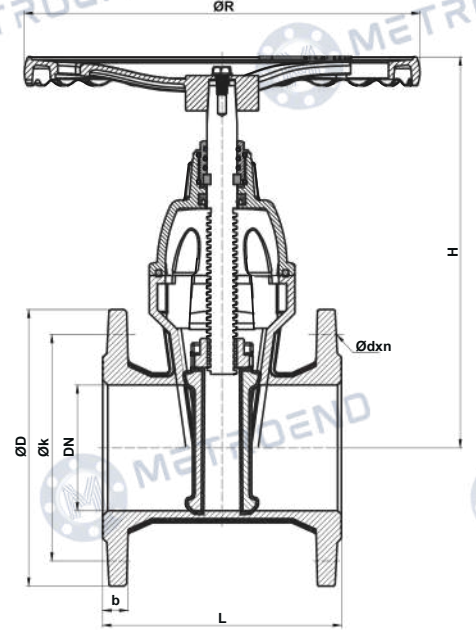
Bağlantılar
Connections
DIN1092-2

Çalışma Sıcaklığı
Working Temperature
-10°C / +120°C

Çalışma Basıncı
Working Pressure
PN16

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25 / GGG40
KLAP	DISC	EPDM + GGG40
SÜRGÜ	WEDGE	GG25 / GGG40
MİL	STEM	AISI420
CONTA	GASKET	EPDM / NBR
KAPAK	BONNET	GG25 / GGG40
HENDİL	HANDWHEEL	GG25



ÖLÇÜLER - DIMENSIONS

DN	PN10					PN16					H	L	ØR	KG
	ØD	Øk	Øg	b	Ødxn	ØD	Øk	Øg	b	Ødxn				
40	150	110	84	18	19x4	150	110	84	18	19x4	185	140	200	10
50	165	125	99	20	19x4	165	125	99	20	19x4	190	150	200	11
65	185	145	118	20	19x4	185	145	118	20	19x4	210	170	200	15
80	200	160	132	22	19x8	200	160	132	22	19x8	235	180	254	16
100	220	180	156	24	19x8	220	180	156	24	19x8	265	190	254	22
125	250	210	184	26	19x8	250	210	184	26	19x8	350	200	315	38
150	285	240	211	26	23x8	285	240	211	26	23x8	380	210	315	45
200	340	295	266	26	23x8	340	295	266	26	23x12	490	230	315	78
250	395	350	319	28	23x12	405	355	320	32	28x12	615	250	406	120
300	445	400	370	28	23x12	460	410	370	32	28x12	700	270	406	165



METROEND

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Bronz Kısa Tip Sürgülü Vana

Bronze Short Type Gate Valve

Uygulama Alanları

- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları

Application Areas

- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications

Bağlantılar
Connections
EN1092-3

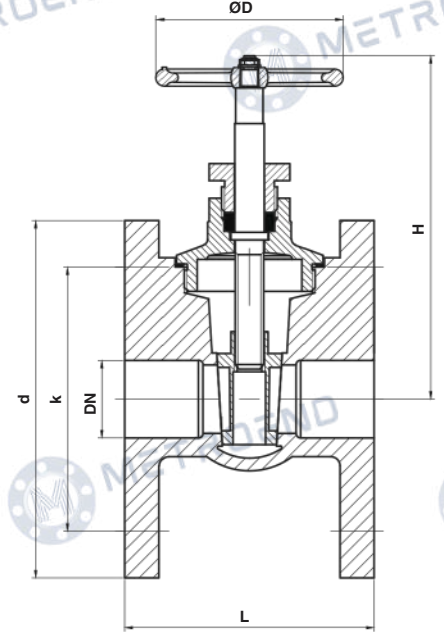
Çalışma Sıcaklığı
Working Temperature
-10°C / +120°C

Çalışma Basıncı
Working Pressure
PN16



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	RG5
KAPAK	BONNET	RG5
MİL	STEM	MS58
KAPAK SOMUNU	BONNET NUT	MS58
HENDİL	HANDWHEEL	GG25
SÜRGÜ	WEDGE	RG5
CONTA	GASKET	PTFE
SALMASTRA	PACKING	GRAPHITE



ÖLÇÜLER - DIMENSIONS

DN	d	Øk	L	H	KG
15	95	65	75	82	2,25
20	105	75	75	103	2,90
25	115	85	80	103	3,75
32	140	100	90	122	5,60
40	150	110	100	132	7,00
50	165	125	110	155	9,00
65	185	145	130	198	16,00
80	200	160	150	237	21,00
100	220	180	160	325	28,00

Pirinç Dişli Sürgülü Vana (Şiber Vana)

Brass Threaded Gate Valve



METROEND

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Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

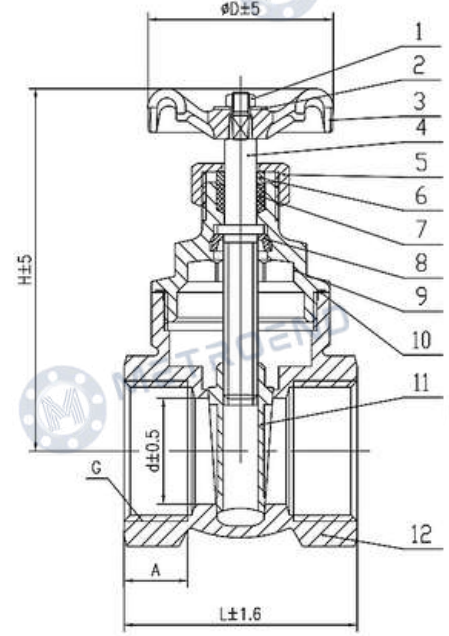
Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	BRASS
KAPAK	BONNET	BRASS
SÜRGÜ	WEDGE	BRASS
CONTA	GASKET	FIBER
MİL	STEM	BRASS
O-RING	O-RING	EPDM / VITON
HENDİL	HANDWHEEL	STEEL
VİDA	SCREW	STEEL



ÖLÇÜLER - DIMENSIONS

DN	NPS	L	D	H	d	A	KG
15	1/2"	48	60	70	13	15,5	0,20
20	3/4"	51	60	75	19	16,5	0,30
25	1"	58	70	88	25	19	0,45
32	1 1/4"	68	70	112	32	21,5	0,65
40	1 1/2"	70	70	120	38	21,5	0,90
50	2"	82	80	140	50	26	1,40
65	2 1/2"	75	100	172	63	20	2,80
80	3"	85	100	200	77	22,5	4,20
100	4"	102	132	240	100	26,5	8,00



METROEND

Bronz Dişli Sürgülü Vana (Şiber Vana) Bronze Threaded Gate Valve

www.metroend.com

Uygulama Alanları

- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları

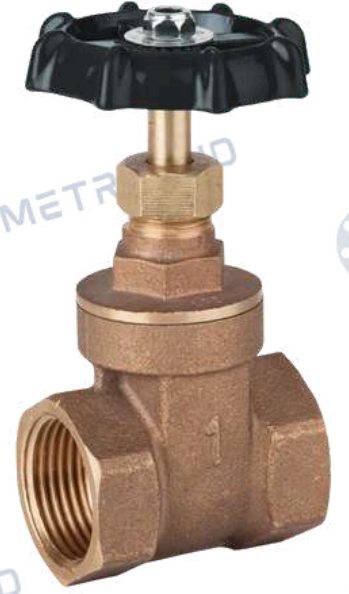
Application Areas

- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications

Bağlantılar
Connections
DIN2999

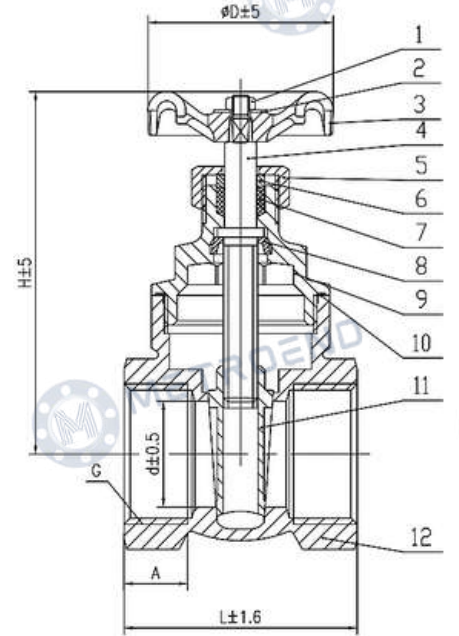
Çalışma Sıcaklığı
Working Temperature
-20°C / +170°C

Çalışma Basıncı
Working Pressure
PN20



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	SOMUN	NUT	CW617N
2	ETİKET	I.D PLATE	ALUMINIUM
3	HENDİL	HANDWHEEL	ALUMINIUM 1/2" - 2 1/2" CAST IRON 3" - 4"
4	MİL	STEM	CW602N
5	SALMASTRA SOMUNU	PACKING NUT	CW617N
6	RİNG	RING	CW617N
7	SALMASTRA	PACKING	PTFE
8	MİL BURCU	STEM BUSH	CW602N
9	KAPAK	BONNET	CC491K
10	CONTA	GASKET	PTFE
11	DİSK	DISC	CC491K
12	GÖVDE	BODY	CC491K



ÖLÇÜLER - DIMENSIONS

DN	NPS	L	D	H	d	A	KG
15	1/2"	43	52	78	13	11	0,25
20	3/4"	49	60	88	19	13	0,35
25	1"	54	65	103	25	14,5	0,55
32	1 1/4"	62	70	116	32	16	0,75
40	1 1/2"	65	78	133	38	17,5	1
50	2"	75	92	156	50	21	1,65
65	2 1/2"	87	100	190	63	23,5	3
80	3"	105	126	217	77	29	4,8
100	4"	124	130	258	100	32	8,65

Paslanmaz Dişli Sürgülü Vana (Şiber Vana)

Stainless Steel Threaded Gate Valve



METROEND

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Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations

Bağlantılar
Connections
DIN2999

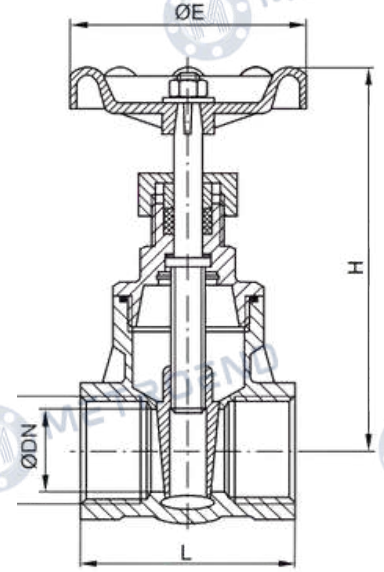
Çalışma Sıcaklığı
Working Temperature
-20°C / +150°C

Çalışma Basıncı
Working Pressure
PN16



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	AISI304 / AISI316
KAPAK	BONNET	AISI304 / AISI316
SÜRGÜ	WEDGE	AISI304 / AISI316
CONTA	GASKET	PTFE
MİL	STEM	AISI304 / AISI316
O-RING	O-RING	PTFE
HENDİL	HANDWHEEL	HT200
VİDA	SCREW	AISI304 / AISI316



ÖLÇÜLER - DIMENSIONS

DN	NPS	L	E	H	KG
15	1/2"	54	54	95	0,26
20	3/4"	60	64	105	0,36
25	1"	63	71	115	0,55
32	1 1/4"	71	77	130	0,78
40	1 1/2"	78	96	145	1,05
50	2"	88	96	160	1,65



METROEND

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JIS Sürgülü Vana JIS Gate Valve

Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

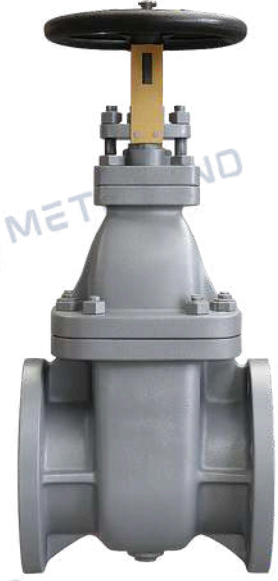
Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations

Bağlantılar
Connections
JIS B2220

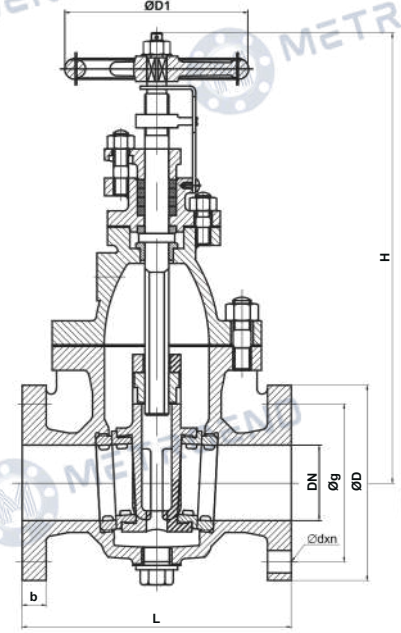
Çalışma Sıcaklığı
Working Temperature
-10°C / +205°C

Çalışma Basıncı
Working Pressure
5 Kg/cm²
10 Kg/cm²



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25 / GGG40 / GS-C25
SİT	SEAT	AISI420 / RG5
SÜRGÜ	WEDGE	GG25
MİL	STEM	AISI420
KAPAK	BONNET	GG25 / GGG40 / GS-C25
SALMASTRA	PACKING	GRAPHITE
HENDİL	HANDWHEEL	GG25



ÖLÇÜLER - DIMENSIONS

DN	5K								10K							
	ØD	Øg	L	b	ØD1	Ødxn	H	KG	ØD	Øg	L	b	ØD1	Ødxn	H	KG
50	130	105	180	16	125	4x15	285	14	155	120	200	20	140	4x19	300	20
65	155	130	190	18	140	4x15	330	19	175	140	220	22	160	4x19	350	28
80	180	145	200	18	160	4x19	380	25	185	150	230	22	180	8x19	400	35
100	200	165	230	20	180	8x19	430	36	210	175	250	24	200	8x19	450	45
125	235	200	250	20	200	8x19	495	48	250	210	270	24	224	8x23	520	65
150	265	230	270	22	224	8x19	560	66	280	240	290	26	250	8x23	580	85
200	320	280	290	24	280	8x23	680	105	330	290	320	26	315	12x23	700	135
250	385	345	330	26	355	12x23	800	165	400	355	380	30	400	12x25	840	230
300	430	390	370	28	400	12x23	920	237	445	400	440	32	450	16x25	960	332

Bıçaklı Sürgülü Vana

Knife Gate Valve



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Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations

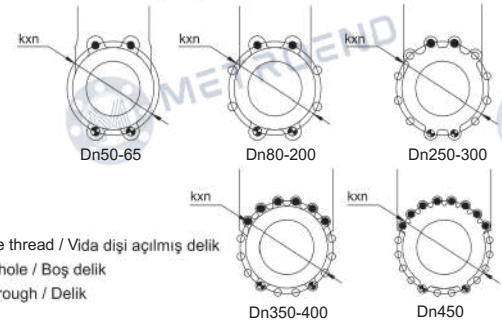
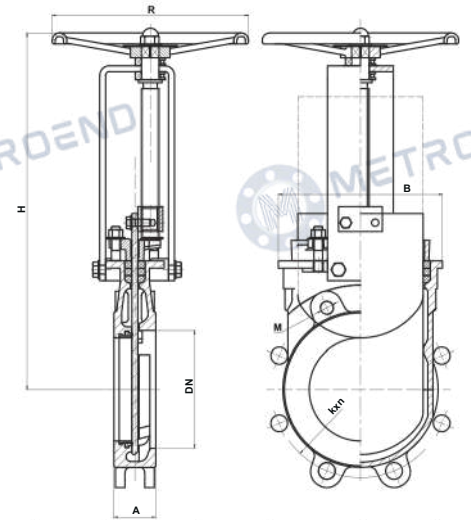


MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GGG40 / WCB / AISI304 / AISI316
SÜRGÜ	GATE	2Cr13 / AISI304 / AISI316
MİL SOMUNU	STEM NUT	BRASS
MİL	STEM	2Cr13 / AISI304 / AISI316
SALMASTRA	PACKING	PTFE
GLEN	GLAND	WCB / AISI304 / AISI316
RULMAN	BEARING	GCr9
HENDİL	HANDWHEEL	MALLEABLE

ÖLÇÜLER - DIMENSIONS

DN	A	H	R	B	kxn	M	Blind hole thread / Vida dişi açılmış delik	Through hole / Boş delik	Drilling through / Delik	KG
50	43	320	180	130	125x4	M16	2	0	2	7,5
65	46	340	180	150	145x4	M16	2	0	2	8,5
80	46	370	220	176	160x8	M16	2	4	2	11
100	52	410	240	192	180x8	M16	2	4	2	13
125	56	460	240	221	210x8	M16	2	4	2	17
150	56	510	280	225	240x8	M20	2	4	2	22
200	60	590	300	283	295x8	M20	2	4	2	33
250	68	700	340	350	350x12	M20	4	6	2	48
300	78	803	340	402	400x12	M20	4	6	2	60
350	92	899	400	454	460x16	M20	6	8	2	83
400	102	1020	450	500	515x16	M24	6	8	2	109
450	114	1100	530	564	615x20	M24	8	10	2	145





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Flanşlı Y Tip Pislik Tutucu Flanged Y Type Strainer

Uygulama Alanları

- Enerji Santralleri
- Kimya - Petrokimya
- Denizcilik Uygulamaları
- Isıtma - Soğutma Sistemleri
- Gıda
- Madencilik Uygulamaları
- Su - Atık Su

Application Areas

- Power Plants
- Chemical - Petrochemical
- Maritime Applications
- Heating - Cooling Systems
- Food
- Mining Applications
- Water - Wastewater



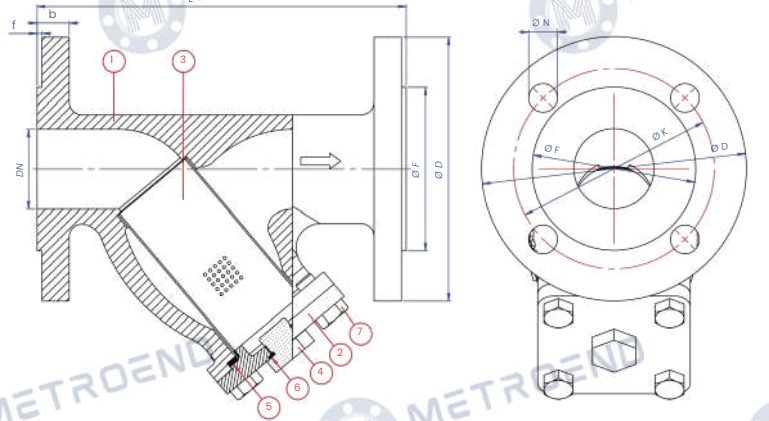
Bağlantılar
Connections
DIN1092-2

Çalışma Sıcaklığı
Working Temperature
-10°C / +120°C

Çalışma Basıncı
Working Pressure
PN16/PN25/PN40

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	GÖVDE	BODY	GG25 / GGG40 / RG5 / RG10 / GS-C25 / AISI304 / AISI316
2	KAPAK	BONNET	GG25 / GGG40 / RG5 / RG10 / GS-C25 / AISI304 / AISI316
3	FİLTRE	FILTER	AISI304 / AISI316
4	TAPA	TAP	ST37
5	GÖVDE CONTA	BODY SEAL	GRAFİT
6	TAPA CONTA	TAP SEAL	CU
7	CIVATA	BOLT	5.6.



ÖLÇÜLER - DIMENSIONS

DN	L	f	PN16					PN25					PN40					KG
			D	b	ØK	F	dxn	D	b	ØK	F	dxn	D	b	ØK	F	dxn	
15	130	2	95	14	65	46	14x4	95	14	65	46	14x4	95	14	65	46	14x4	2,3
20	150	2	105	16	75	56	14x4	105	16	75	56	14x4	105	16	75	56	14x4	3,8
25	160	2	115	16	85	65	14x4	115	16	85	65	14x4	115	16	85	65	14x4	5
32	180	2	140	18	100	76	19x4	140	18	100	76	19x4	140	18	100	76	19x4	7
40	200	3	150	18	110	84	19x4	150	18	110	84	19x4	150	18	110	84	19x4	8,2
50	230	3	165	20	125	99	19x4	165	20	125	99	19x4	165	20	125	99	19x4	12
65	290	3	185	20	145	118	19x4	185	22	145	118	19x8	185	22	145	118	19x8	19
80	310	3	200	22	160	132	19x8	200	24	160	132	19x8	200	24	160	132	19x8	27
100	350	3	220	24	180	156	19x8	235	24	190	156	23x8	235	24	190	156	23x8	44
125	400	3	250	26	210	184	19x8	270	26	220	184	28x8	270	26	220	184	28x8	65
150	480	3	285	26	240	211	23x8	300	28	250	211	28x8	300	28	250	211	28x8	78
200	600	3	340	30	295	266	23x12	360	30	310	274	28x12	375	34	320	284	30x12	90

Paslanmaz Dişli Y Tip Pislik Tutucu

Stainless Steel Threaded Y Type Strainer



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Uygulama Alanları

- Enerji Santralleri
- Kimya - Petrokimya
- Denizcilik Uygulamaları
- Isıtma - Soğutma Sistemleri
- Gıda
- Madencilik Uygulamaları
- Su - Atık Su

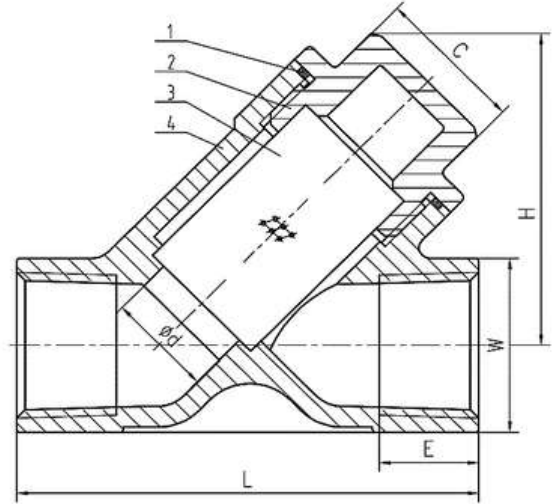
Application Areas

- Power Plants
- Chemical - Petrochemical
- Maritime Applications
- Heating - Cooling Systems
- Food
- Mining Applications
- Water - Wastewater



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	CONTA	GASKET	PTFE
2	TAPA	PLUG	AISI304 / AISI316
3	FİLTRE	MESH	AISI304 / AISI316
4	GÖVDE	BODY	AISI304 / AISI316



ÖLÇÜLER - DIMENSIONS

DN	NPS	d	L	H	W	E	C	KG
DN8	1/4"	13	55	38,5	26	12	17	0,25
DN10	3/8"	13	55	38,5	26	12	17	0,25
DN15	1/2"	13	60	38,5	26	12	17	0,25
DN20	3/4"	17	72	44,5	31,5	15	17	0,35
DN25	1"	22	85	53	38	15	21	0,8
DN32	1 1/4"	30	98	65	47,5	16	21	1
DN40	1 1/2"	36	107	72	55	18	27	1,25
DN50	2"	47	136	86	67	18	27	1,8



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Bronz Dişli Y Tip Pislik Tutucu Bronze Threaded Y Type Strainer

Uygulama Alanları

- Enerji Santralleri
- Kimya - Petrokimya
- Denizcilik Uygulamaları
- Isıtma - Soğutma Sistemleri
- Gıda
- Madencilik Uygulamaları
- Su - Atık Su

Application Areas

- Power Plants
- Chemical - Petrochemical
- Maritime Applications
- Heating - Cooling Systems
- Food
- Mining Applications
- Water - Wastewater



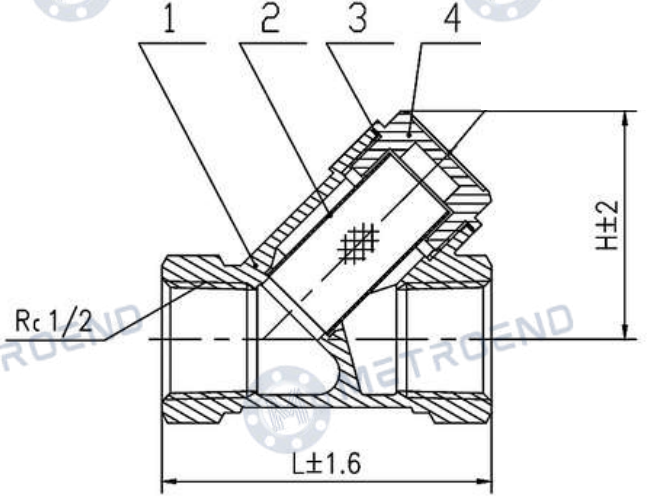
Bağlantılar
Connections
DIN2999

Çalışma Sıcaklığı
Working Temperature
-20°C / +170°C

Çalışma Basıncı
Working Pressure
PN20

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	GÖVDE	BODY	RG5
2	FİLTRE	MESH	AISI304
3	CONTA	GASKET	PTFE
4	TAPA	PLUG	RG5



ÖLÇÜLER - DIMENSIONS

DN	NPS	L	H	KG
15	1/2"	58	40	0,20
20	3/4"	70	41	0,35
25	1"	88	57,6	1
32	1 1/4"	96	68,5	0,75
40	1 1/2"	107	74	1,25
50	2"	126	95	1,8

Pirinç Dişli Y Tip Pislik Tutucu

Brass Threaded Y Type Strainer



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Uygulama Alanları

- Enerji Santralleri
- Kimya - Petrokimya
- Denizcilik Uygulamaları
- Isıtma - Soğutma Sistemleri
- Gıda
- Madencilik Uygulamaları
- Su - Atık Su

Application Areas

- Power Plants
- Chemical - Petrochemical
- Maritime Applications
- Heating - Cooling Systems
- Food
- Mining Applications
- Water - Wastewater



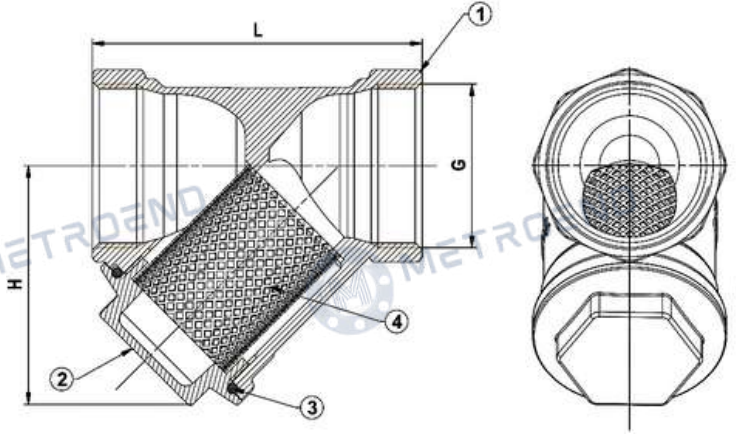
Bağlantılar
Connections
EN ISO 228-1

Çalışma Sıcaklığı
Working Temperature
-10°C / +120°C

Çalışma Basıncı
Working Pressure
PN16

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	GÖVDE	BODY	MS58
2	FİLTRE	MESH	AISI304
3	CONTA	GASKET	EPDM
4	TAPA	PLUG	MS58



ÖLÇÜLER - DIMENSIONS

DN	NPS	L	H	KG
15	1/2"	45	34	0,10
20	3/4"	54	39	0,15
25	1"	62	45	0,25
32	1 1/4"	80	63	0,46
40	1 1/2"	84	69	0,55
50	2"	95	75	0,80
65	2 1/2"	121	94	1,35
80	3"	137	102	1,85



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Düz Tip Çamur Sandığı Straight Type Mud Box

Uygulama Alanları

- Su - Atık Su
- Denizcilik Uygulamaları

Application Areas

- Water - Wastewater
- Maritime Applications



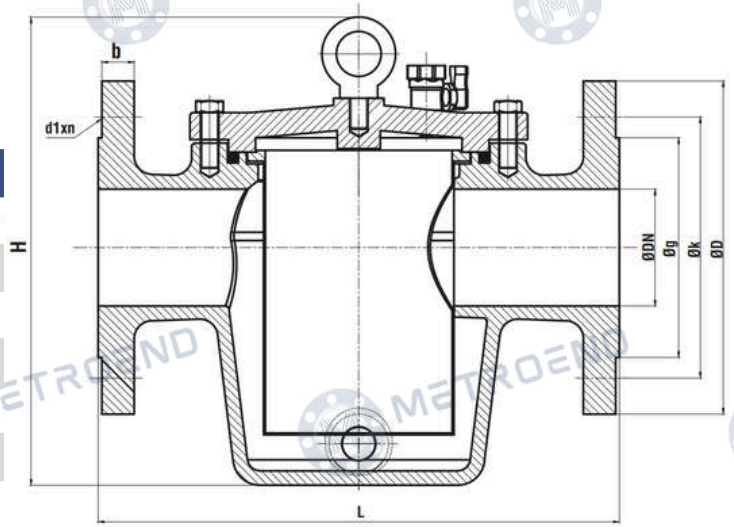
Bağlantılar
Connections
EN1092-2

Çalışma Sıcaklığı
Working Temperature
-30°C / +90°C

Çalışma Basıncı
Working Pressure
PN4

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GGG40 / RG5 / RG10
FİLTRE	FILTER	GALV.STEEL/ AISI304 / AISI316
O-RING	O-RING	NBR
KAPAK	BONNET	GGG40 / RG5 / RG10
CIVATA	BOLT	STEEL
KÖR TAPA	PLUG	MS58
AYBOLT CIVATA	RING BOLT	SAE 1040



ÖLÇÜLER - DIMENSIONS

DN	L	H	ØD	Øk	Øg	b	Ød1xn	KG
32	200	200	140	100	78	18	18x4	8
40	200	200	150	110	88	20	18x4	10
50	230	221	165	125	102	20	18x4	14
65	290	254	185	145	122	20	18x4	22
80	310	290	200	160	138	22	18x8	26
100	350	335	220	180	158	24	18x8	37
125	400	407	250	210	188	26	18x8	55
150	480	460	285	240	212	26	22x8	70
200	600	575	340	295	268	30	22x12	140
250	600	610	405	355	320	32	26x12	150
300	600	750	460	410	378	26	26x12	190
350	800	740	520	470	438	35	26x16	200
400	740	875	580	525	490	32	30x16	305

Gönye Tip Çamur Sandığı

Angle Type Mud Box



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Uygulama Alanları

- Su - Atık Su
- Denizcilik Uygulamaları

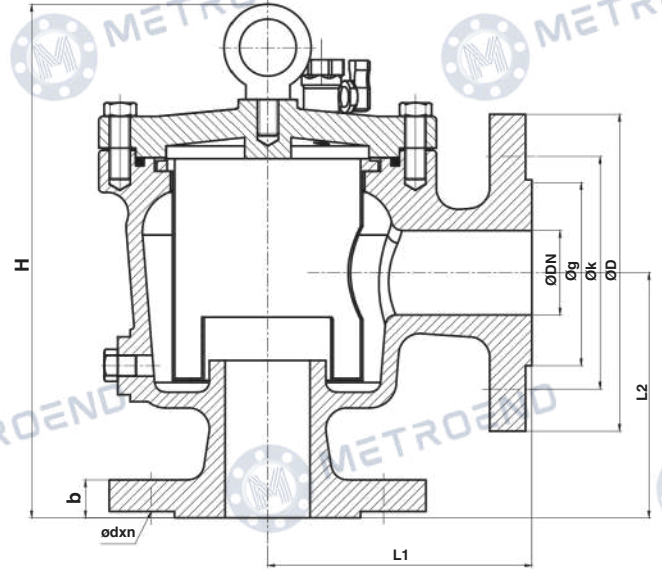
Application Areas

- Water - Wastewater
- Maritime Applications



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GGG40 / RG5 / RG10
FİLTRE	FILTER	GALV.STEEL/ AISI304 / AISI316
O-RING	O-RING	NBR
KAPAK	BONNET	GGG40 / RG5 / RG10
CIVATA	BOLT	STEEL
KÖR TAPA	PLUG	MS58
AYBOLT CIVATA	RING BOLT	SAE 1040



ÖLÇÜLER - DIMENSIONS

DN	L1	L2	H	ØD	Øk	Øg	b	Ød1xn	KG
32	125	125	228	140	100	78	18	18x4	8
40	125	125	228	150	110	88	20	18x4	10
50	135	135	246	165	125	102	20	18x4	14
65	150	150	271	185	145	122	20	18x4	16
80	175	175	320	200	160	138	22	18x8	22
100	195	195	361	220	180	158	24	18x8	30
125	220	220	407	250	210	188	26	18x8	44
150	270	270	480	285	240	212	26	22x8	70
200	300	300	540	340	295	268	30	22x12	101
250	390	390	665	405	355	320	32	26x12	157
300	375	375	780	460	410	378	26	26x12	207
350	400	400	830	520	470	438	35	26x16	260
400	420	420	1000	580	525	490	32	30x16	390



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Düz Tip Deniz Suyu Filtresi Straight Type Sea Water Filter

Uygulama Alanları

- Su - Atık Su
- Denizcilik Uygulamaları

Application Areas

- Water - Wastewater
- Maritime Applications



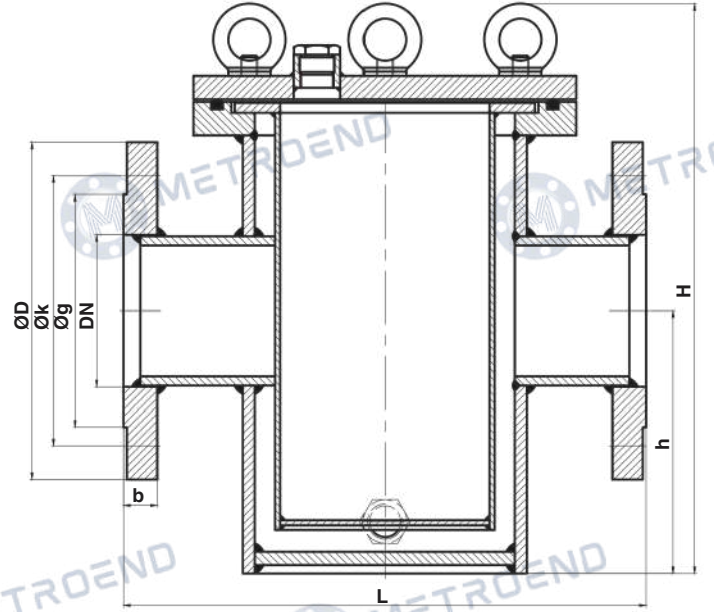
Bağlantılar
Connections
EN1092-2

Çalışma Sıcaklığı
Working Temperature
-30°C / +90°C

Çalışma Basıncı
Working Pressure
PN4

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	ST42 + GALVANIZED
FİLTRE	FILTER	GALV.STEEL/ AISI304 / AISI316
O-RING	O-RING	NBR
KAPAK	BONNET	ST42 + GALVANIZED
CIVATA	BOLT	STEEL
KÖR TAPA	PLUG	MS58
AYBOLT CIVATA	RING BOLT	SAE 1040



ÖLÇÜLER - DIMENSIONS

DN	L	h	H	ØD	Øk	Øg	b	Ød1xn	KG
32	200	96	255	140	100	78	18	18x4	13
40	200	96	255	150	110	88	18	18x4	13
50	230	106	280	165	125	102	20	18x4	15
65	290	134	310	185	145	122	20	18x4	24
80	310	156	340	200	160	138	22	18x8	32
100	350	185	395	220	180	158	24	18x8	40
125	400	229	485	250	210	188	26	18x8	55
150	480	268	538	285	240	212	26	22x8	82
200	600	320	640	340	295	268	30	22x12	150
250	640	350	65	405	355	320	32	26x12	200
300	760	420	795	460	410	378	32	26x12	240
350	800	400	830	520	470	438	30	26x16	270
400	800	424	900	580	525	490	32	30x16	325
500	950	550	1130	715	650	610	34	33x20	400

*İstenilen ölçülere göre özel üretim yapılabilir.

*Special production can be made according to the desired dimensions.

Gönye Tip Deniz Suyu Filtresi

Angle Type Sea Water Filter



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Uygulama Alanları

- Su - Atık Su
- Denizcilik Uygulamaları

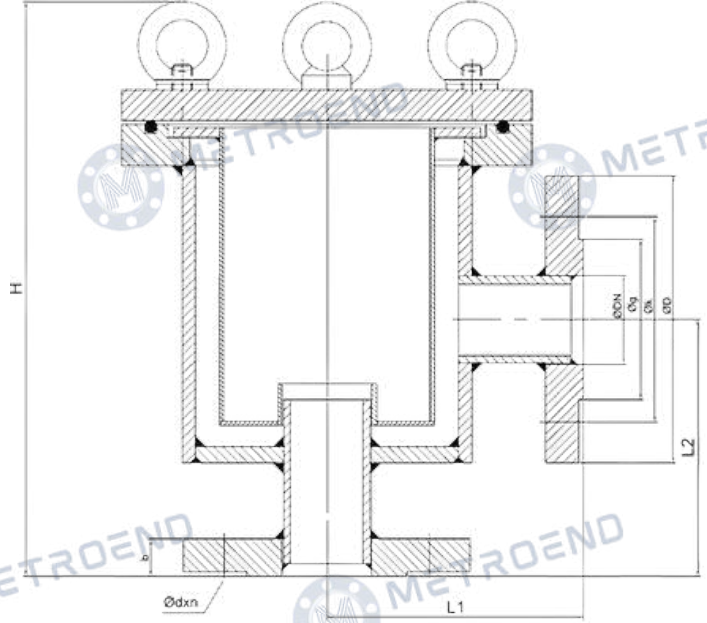
Application Areas

- Water - Wastewater
- Maritime Applications



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	ST42 + GALVANIZED
FİLTRE	FILTER	GALV.STEEL/ AISI304 / AISI316
O-RING	O-RING	NBR
KAPAK	BONNET	ST42 + GALVANIZED
CIVATA	BOLT	STEEL
KÖR TAPA	PLUG	MS58
AYBOLT CIVATA	RING BOLT	SAE 1040



ÖLÇÜLER - DIMENSIONS

DN	L1	L2	H	ØD	Øk	Øg	b	Ød1xn	KG
32	125	125	280	140	100	78	18	18x4	13
40	125	125	280	150	110	88	20	18x4	15
50	135	135	310	165	125	102	20	18x4	18
65	150	150	330	185	145	122	20	18x4	26
80	175	175	385	200	160	138	22	18x8	33
100	195	195	425	220	180	158	24	18x8	36
125	220	220	480	250	210	188	26	18x8	58
150	270	270	555	285	240	212	26	22x8	76
200	300	300	630	340	295	268	30	22x12	140
250	390	390	665	405	355	320	32	26x12	180
300	375	375	760	460	410	378	26	26x12	215
350	400	400	810	520	470	438	35	26x16	280
400	450	450	905	580	525	490	32	30x16	410

*İstenilen ölçülere göre özel üretim yapılabilir.

*Special production can be made according to the desired dimensions.



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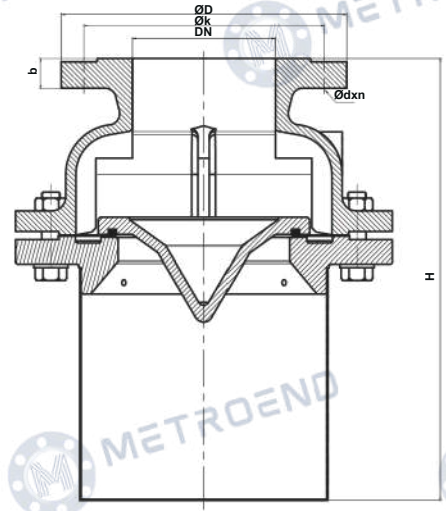
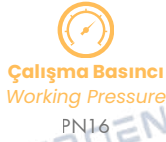
Ayak Vanası Foot Valve

Uygulama Alanları

- Enerji Santralleri
- Kimya - Petrokimya
- Denizcilik Uygulamaları
- Isıtma - Soğutma Sistemleri
- Gıda
- Madencilik Uygulamaları
- Su - Atık Su

Application Areas

- Power Plants
- Chemical - Petrochemical
- Maritime Applications
- Heating - Cooling Systems
- Food
- Mining Applications
- Water - Wastewater



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25 / GGG40 / RG5
KLAPE	DISC	GG25 / GGG40 / RG5
CONTA	GASKET	NBR
KAPAK	BONNET	GG25 / GGG40 / RG5
CIVATA	BOLT	STEEL
FILTRE	FILTER	AISI304

ÖLÇÜLER - DIMENSIONS

DN	H	PN10	PN16	KG
		ØD	ØD	
40	230	150	150	7
50	230	165	165	8
65	280	185	185	10
80	30	200	200	14
100	315	220	220	21
125	400	250	250	26
150	505	285	285	44
200	545	340	340	72
250	620	405	405	100
300	700	460	460	160
350	800	520	520	190
400	860	580	580	210
500	945	640	715	275

Pirinç Dişli Ayak Vanası (Kuyu Klapesi)

Brass Threaded Foot Valve



METROEND

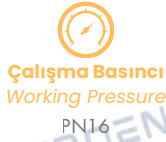
www.metroend.com

Uygulama Alanları

- Enerji Santralleri
- Kimya - Petrokimya
- Denizcilik Uygulamaları
- Isıtma - Soğutma Sistemleri
- Gıda
- Madencilik Uygulamaları
- Su - Atık Su

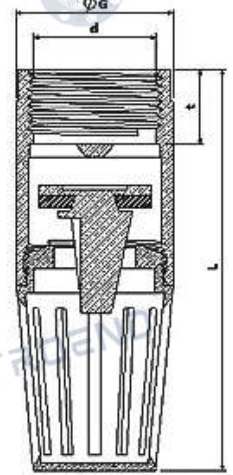
Application Areas

- Power Plants
- Chemical - Petrochemical
- Maritime Applications
- Heating - Cooling Systems
- Food
- Mining Applications
- Water - Wastewater



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
ÜST GÖVDE	TOP BODY	BRASS
ALT GÖVDE	BOTTOM BODY	BRASS
VALF	VALVE	BRASS
CONTA	GASKET	EPDM



ÖLÇÜLER - DIMENSIONS

NPS	G	d	L	KG
3/4"	20	18	90	0,20
1"	25	23	102	0,30
1 1/4"	32	28	112	0,40
1 1/2"	40	36	130	0,65
2"	50	46	140	0,80
2 1/2"	65	59	170	1,55
3"	80	70	185	1,95
4"	100	87	230	2,95
5"	125	110	270	5,35
6"	150	110	280	6,50



METROEND

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Sintine Süzgeçi Strum Box

Uygulama Alanları

- Su - Atık Su
- Denizcilik Uygulamaları

Application Areas

- Water - Wastewater
- Maritime Applications



Bağlantılar
Connections
DIN 87160

Çalışma Sıcaklığı
Working Temperature
-30°C / +90°C

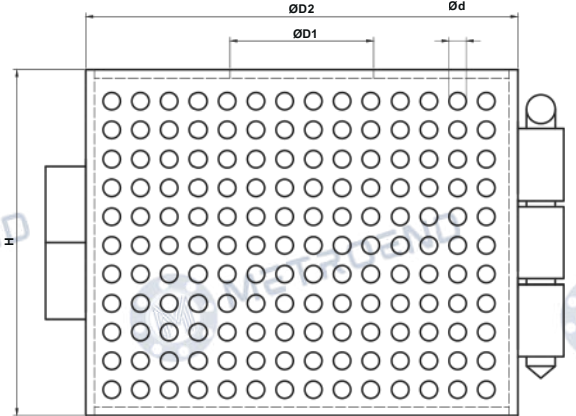
Çalışma Basıncı
Working Pressure
PN16

Delik çapları isteğe göre özel olarak yapılabilir.

Hole diameters can be custom-made upon request.

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GALVANIZED STEEL
MİL	STEM	STEEL
MENTEŞE	HINGE	GALVANIZED STEEL



ÖLÇÜLER - DIMENSIONS

DN	ØD	ØD1	H	d	KG
32	150	44	120	5	2
40	150	50	120	5	2
50	150	63	120	5	2
65	170	79	120	5	3
80	180	92	125	5	3,2
100	200	117	130	5	3,5
125	200	142	140	5	3,8
150	260	172	150	5	5
200	340	224	180	5	8,5

Yer Gideri Floor Drain



METROEND

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Uygulama Alanları

- Su - Atık Su
- Denizcilik Uygulamaları

Application Areas

- Water - Wastewater
- Maritime Applications



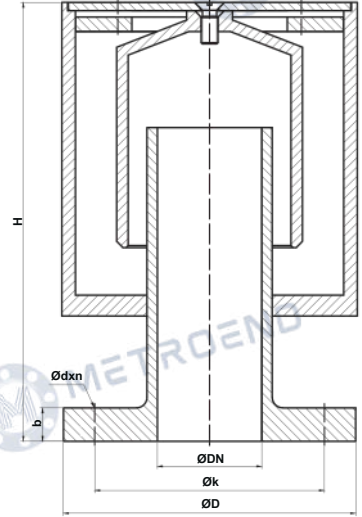
Bağlantılar
Connections
EN 1092-2

Çalışma Sıcaklığı
Working Temperature
-30°C / +90°C

Çalışma Basıncı
Working Pressure
PN16

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	ST37 GALVANIZED STEEL
SİFON	SIPHON	ST37 GALVANIZED STEEL
FLANŞ	FLANGE	ST37 GALVANIZED STEEL
ÜST KAPAK	BONNET	AISI316
CIVATA	BOLT	AISI316



ÖLÇÜLER - DIMENSIONS

DN	H	PN6				PN16				KG
		ØD	Øk	b	Ødxn	ØD	Øk	b	Ødxn	
40	210	130	100	16	14x4	150	110	16	18x4	7
50	210	140	110	16	14x4	165	125	18	18x4	8



METROEND

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Flanşlı Yaylı Çek Valf Düz Tip

Flanged Lift Check Valve Straight Type

Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations

Bağlantılar
Connections
DIN1092-2

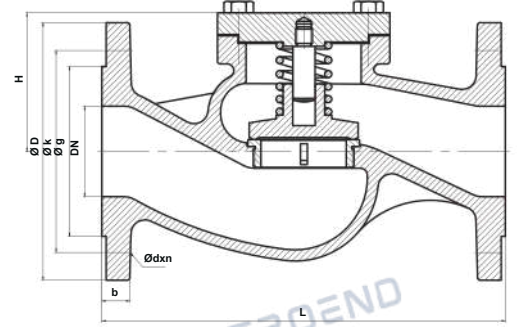
Çalışma Sıcaklığı
Working Temperature
-10°C / +220°C

Çalışma Basıncı
Working Pressure
PN16



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25 / GGG40 / RG5 / RG10
SİT	SEAT	RG5 / AISI420
MİL	STEM	AISI420 / MS58
YAY	SPRING	AISI304
KAPAK	BONNET	GG25 / GGG40 / RG5 / RG10
KLAPE	DISC	RG5 / AISI420
CONTA	GASKET	KLINGRIT
CIVATA	BOLT	STEEL



ÖLÇÜLER - DIMENSIONS

DN	ØD	Øk	Øg	L	b	H	Ødxn	KG
15	95	65	45	130	14	202	14x4	3
20	105	75	58	150	16	202	14x4	4
25	115	85	68	160	16	211	14x4	4
32	140	100	78	180	18	216	18x4	5
40	150	110	88	200	18	249	18x4	8
50	165	125	102	230	20	254	18x4	10
65	185	145	122	290	20	271	18x4	14
80	200	160	138	310	20	311	18x8	22
100	220	180	158	350	24	344	18x8	38
125	250	210	188	400	26	420	18x8	47
150	285	240	212	480	26	498	22x8	60
200	340	295	268	600	30	550	22x12	115
250	405	355	320	730	32	585	26x12	150
300	460	410	370	850	32	640	26x12	230
350	520	470	430	980	36	875	26x16	280
400	580	525	482	1100	38	955	30x16	390

Flanşlı Yaylı Çek Valf Gönye Tip

Flanged Lift Check Valve Angle Type



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Uygulama Alanları



Kimya - Petrokimya



Su - Atık Su



Isıtma - Soğutma Sistemleri



Denizcilik Uygulamaları



Madencilik Uygulamaları



Enerji Santralleri

Application Areas



Chemical - Petrochemical



Water - Wastewater



Heating - Cooling Systems



Maritime Applications



Mining Applications



Power Stations



Bağlantılar

Connections

DIN1092-2



Çalışma Sıcaklığı

Working Temperature

-10°C / +220°C



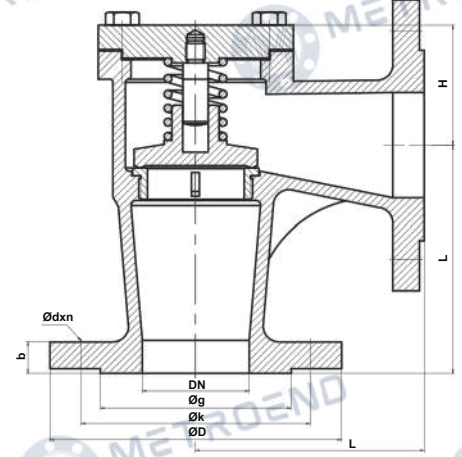
Çalışma Basıncı

Working Pressure

PN16

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25 / GGG40 / RG5 / RG10
SİT	SEAT	RG5 / AISI420
MİL	STEM	AISI420 / MS58
YAY	SPRING	AISI304
KAPAK	BONNET	GG25 / GGG40 / RG5 / RG10
KLAPE	DISC	RG5 / AISI420
CONTA	GASKET	KLINGRIT
CIVATA	BOLT	STEEL



ÖLÇÜLER - DIMENSIONS

DN	ØD	Øk	Øg	L	b	H	Ødxn	KG
15	95	65	45	90	14	50	14x4	3
20	105	75	58	95	16	50	14x4	4
25	115	85	68	100	16	54	14x4	4
32	140	100	78	105	18	57	18x4	5
40	150	110	88	115	18	69	18x4	8
50	165	125	102	125	20	71	18x4	10
65	185	145	122	145	20	77	18x4	14
80	200	160	138	155	20	86	18x8	22
100	220	180	158	175	24	110	18x8	38
125	250	210	188	200	26	97	18x8	47
150	285	240	212	225	26	129	22x8	60
200	340	295	268	275	30	155	22x12	115
250	405	355	320	325	32	166	26x12	150
300	460	410	370	375	32	202	26x12	230
350	520	470	430	425	36	252	26x16	280
400	580	525	482	475	38	281	30x16	390



METROEND

www.metroend.com

Flanşlı Çalpara Çek Valf Flanged Swing Check Valve

Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations



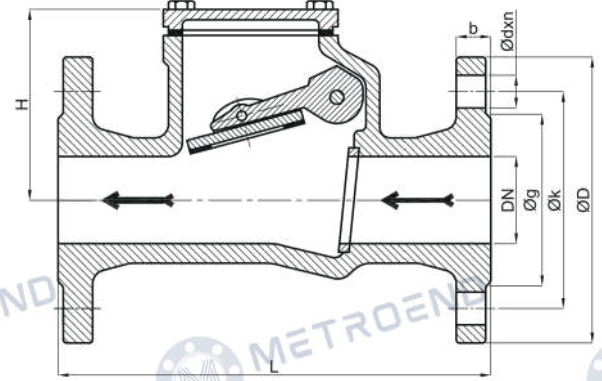
Bağlantılar
Connections
DIN1092-2

Çalışma Sıcaklığı
Working Temperature
-10°C / +120°C

Çalışma Basıncı
Working Pressure
PN16

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25 / GGG40
KAPAK	BONNET	GG25 / GGG40
KLAPE	DISC	GG25 / GGG40 +NBR
MİL	STEM	ST.STEEL
SİT	SEAT	BRASS / BRONZE
CONTA	GASKET	EPDM / NBR



ÖLÇÜLER - DIMENSIONS

DN	ØD	Øk	Øg	L	b	H	Ødxn	KG
40	150	110	88	180	18	249	18x4	9
50	165	125	102	200	20	254	18x4	11
65	185	145	122	240	20	271	18x4	17
80	200	160	138	260	20	311	18x8	20
100	220	180	158	300	24	344	18x8	28
125	250	210	188	350	26	420	18x8	46
150	285	240	212	400	26	498	22x8	61
200	340	295	268	500	30	550	22x12	72
250	405	355	320	600	32	585	26x12	122

Flanşlı Çalpara Çek Valf Kısa Tip

Flanged Swing Check Valve Short Type



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Uygulama Alanları



Kimya - Petrokimya



Su - Atık Su



Isıtma - Soğutma Sistemleri



Denizcilik Uygulamaları



Madencilik Uygulamaları



Enerji Santralleri

Application Areas



Chemical - Petrochemical



Water - Wastewater



Heating - Cooling Systems



Maritime Applications



Mining Applications

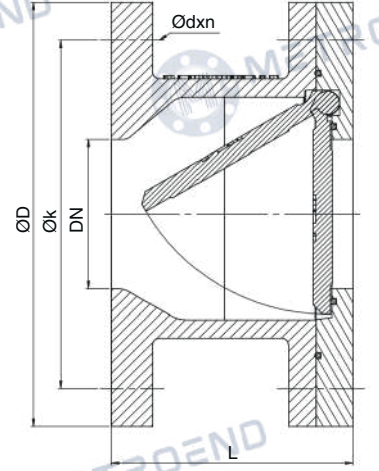


Power Stations



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GGG40.3 / RG5 / RG10
KLAPE	DISC	AISI316 / ALU.BRONZE
KLAPE CONTASI	DISC GASKET	NBR / VITON
GÖVDE CONTASI	BODY GASKET	NBR / VITON
CIVATA	BOLT	AISI304



ÖLÇÜLER - DIMENSIONS

DN	ØD	Øk	L	Ødxn	KG
15	95	65	65	14x4	2
20	105	75	65	14x4	2
25	115	85	70	14x4	3
32	140	100	75	18x4	4
40	150	110	80	18x4	5
50	165	125	85	18x4	6
65	185	145	105	18x4	8
80	200	160	125	18x8	10
100	220	180	145	18x8	14
125	250	210	170	18x8	20
150	285	240	200	22x8	26
200	340	295	255	22x12	42
250	405	355	310	26x12	62
300	460	410	360	26x12	78



METROEND

www.metroend.com

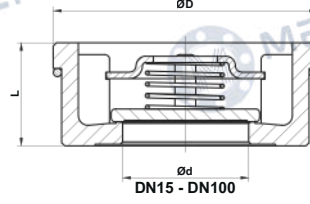
Disk Tip Çek Valf Disc Type Check Valve

Uygulama Alanları

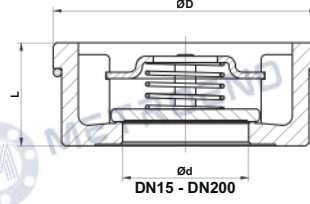
- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

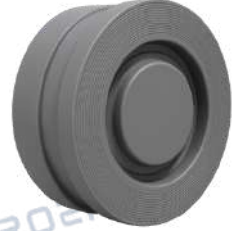
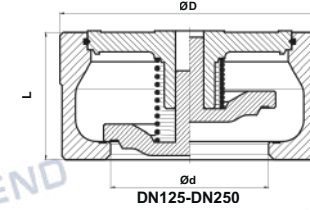
- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations



Body : Brass Disc: St.Steel
DN15 - DN100



Body : St.Steel Disc: St.Steel
DN15 - DN200



Body : GGG40 Disc: GGG40
DN125 - DN250

Bağlantılar
Connections
DIN1092-2

Çalışma Sıcaklığı
Working Temperature
-10°C / +250°C

Çalışma Basıncı
Working Pressure
PN16 / PN40

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL		
		DN15 - DN100 PN16	DN15 - DN200 PN40	DN125 - DN250 PN16
GÖVDE	BODY	MS58	AISI304 / AISI316	GGG40
DİSK	DISC	AISI304	AISI304 / AISI316	GGG40
YAY	SPRING	AISI304	AISI304 / AISI316	AISI302
SEGMAN	SEGMENT	AISI304	AISI304 / AISI316	AISI302

ÖLÇÜLER - DIMENSIONS

DN	ØD	Ød	L	KG
15	40	15	16	0,09
20	47	20	19	0,14
25	56	25	22	0,20
32	76	31	28	0,47
40	82	39	32	0,62
50	95	48	40	1,00
65	115	63	46	1,52
80	132	75	50	2,10
100	152	89	60	3,15
125	184	112	90	8,00
150	209	132	106	10,20
200	264	175	140	21,50
250	328	225	200	40,00

Çift Klapeli Çek Valf

Dual Plate Check Valve



METROEND

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Uygulama Alanları



Kimya - Petrokimya



Su - Atık Su



Isıtma - Soğutma Sistemleri



Denizcilik Uygulamaları



Madencilik Uygulamaları



Enerji Santralleri

Application Areas



Chemical - Petrochemical



Water - Wastewater



Heating - Cooling Systems



Maritime Applications



Mining Applications



Power Stations



Bağlantılar
Connections

DIN1092-2



Çalışma Sıcaklığı
Working Temperature

-10°C / +100°C

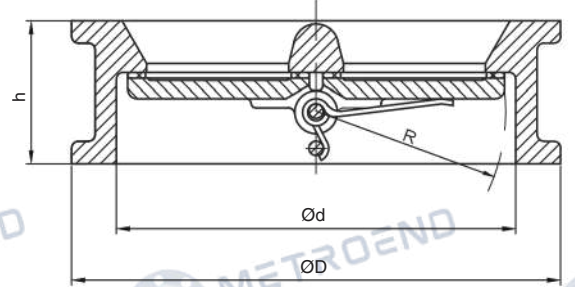


Çalışma Basıncı
Working Pressure

PN16 / PN40

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25 / GGG40
KLAPE	DISC	AISI304 / AISI316 / ALU.BRONZE
SİT	SEAT	NBR / EPDM
MENTEŞE PİMİ	HINGING PIN	Gr 33
YAY	SPRING	AISI304
MİL	STEM	AISI416
PUL	WASHER	AISI304
KLAPE PULU	DISC WASHER	AISI304
CONTA	GASKET	NBR
SETUSKUR	GRUB SCREW	ST37



ÖLÇÜLER - DIMENSIONS

DN	ØD	Ød	h	R	KG
50	107	65	43	28,8	1,50
65	127	80	46	36,1	2,40
80	142	94	64	43,4	3,60
100	162	117	64	50	5,70
125	192	145	70	68,2	7,30
150	218	170	76	78,6	9,00
200	268	224	89	104,5	17,00
250	327	265	114	128	26,00
300	384	310	114	148,3	42,00
350	438	360	127	172,4	55,00
400	488	410	140	198	75,00



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Wafer Tip Çalpara Çek Valf Wafer Type Swing Check Valve

Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations



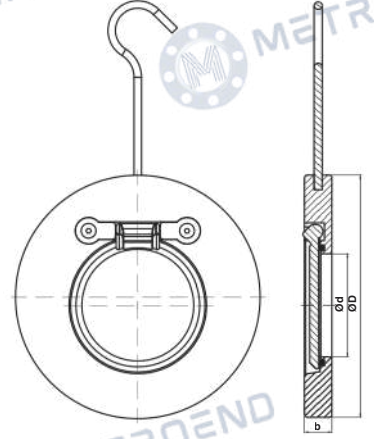
Bağlantılar
Connections
DIN1092-2

Çalışma Sıcaklığı
Working Temperature
-10°C / +100°C

Çalışma Basıncı
Working Pressure
PN16 / PN40

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	ST42 / AISI304 / AISI316/ RG5
O-RİNG	O-RING	NBR / EPDM
KLAPE	DISC	AISI304 / AISI316 / ALU.BRONZE
PUL	WASHER	AISI 304
CIVATA	BOLT	AISI304
MAPA	EYE BOLT	SAE 1040



ÖLÇÜLER - DIMENSIONS

DN	ØD	Ød	b	KG
25	74	14	14	0,3
32	84	17	14	0,5
40	94	22	14	0,7
50	109	32	16	0,9
65	129	40	16	1,2
80	144	54	16	1,5
100	164	70	18	2,4
125	195	92	18	3,4
150	220	112	20	4,6
200	275	158	22	7,5
250	330	192	25	13
300	380	234	30	21
350	440	266	38	32
400	490	305	40	48
450	540	360	50	63
500	596	405	52	87
600	695	486	57	130

Pirinç Dişli Yaylı Dik Tip Çek Valf

Brass Threaded Spring Loaded Vertical Check Valve



METROEND

www.metroend.com

Uygulama Alanları



Kimya - Petrokimya



Su - Atık Su



Isıtma - Soğutma Sistemleri



Denizcilik Uygulamaları



Madencilik Uygulamaları



Enerji Santralleri

Application Areas



Chemical - Petrochemical



Water - Wastewater



Heating - Cooling Systems



Maritime Applications



Mining Applications

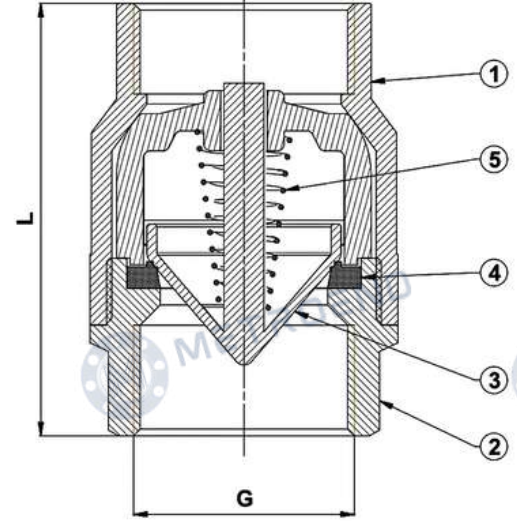


Power Stations



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	GÖVDE	BODY	MS58
2	KAPAK	BONNET	MS58
3	KLAPE	DISC	POLYMER PLASTIC
4	CONTA	GASKET	NBR
5	YAY	SPRING	AISI302



ÖLÇÜLER - DIMENSIONS

DN	NPS	d	L	KG
DN15	1/2"	15	47	0,10
DN20	3/4"	20	57	0,15
DN25	1"	25	63	0,25
DN32	1 1/4"	32	70	0,35
DN40	1 1/2"	40	83	0,50
DN50	2"	47	92	0,70
DN65	2 1/2"	60	115	1,55
DN80	3"	76	125	2
DN100	4"	98	115	2,50



METROEND

Paslanmaz Dişli Yaylı Dik Tip Çek Valf

Stainless Steel Threaded Spring Loaded Vertical Check Valve

www.metroend.com

Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations



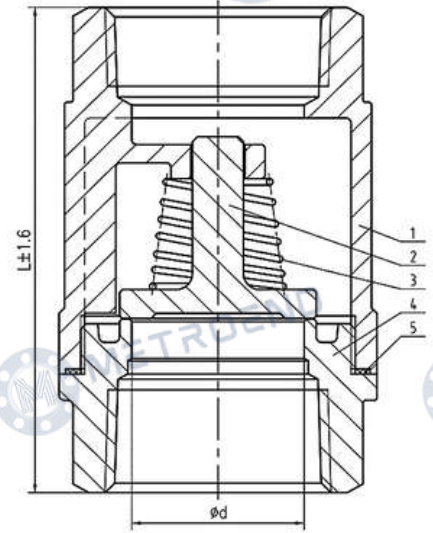
Bağlantılar
Connections
DIN2999

Çalışma Sıcaklığı
Working Temperature
-10°C / +200°C

Çalışma Basıncı
Working Pressure
PN16

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	GÖVDE	BODY	AISI304 / AISI316
2	DİSK	DISC	AISI304 / AISI316
3	YAY	SPRING	AISI304 / AISI316
4	KAPAK	BONNET	AISI304 / AISI316
5	CONTA	GASKET	PTFE



ÖLÇÜLER - DIMENSIONS

DN	NPS	d	L	KG
DN15	1/2"	15	58	0,2
DN20	3/4"	20	67	0,25
DN25	1"	25	78	0,35
DN32	1 1/4"	32	84	0,5
DN40	1 1/2"	40	100	0,75
DN50	2"	50	116	1,15

Bronz Dişli Yaylı Dik Tip Çek Valf

Bronze Threaded Spring Loaded Vertical Check Valve



METROEND

www.metroend.com

Uygulama Alanları



Kimya - Petrokimya



Su - Atık Su



Isıtma - Soğutma Sistemleri



Denizcilik Uygulamaları



Madencilik Uygulamaları



Enerji Santralleri

Application Areas



Chemical - Petrochemical



Water - Wastewater



Heating - Cooling Systems



Maritime Applications



Mining Applications

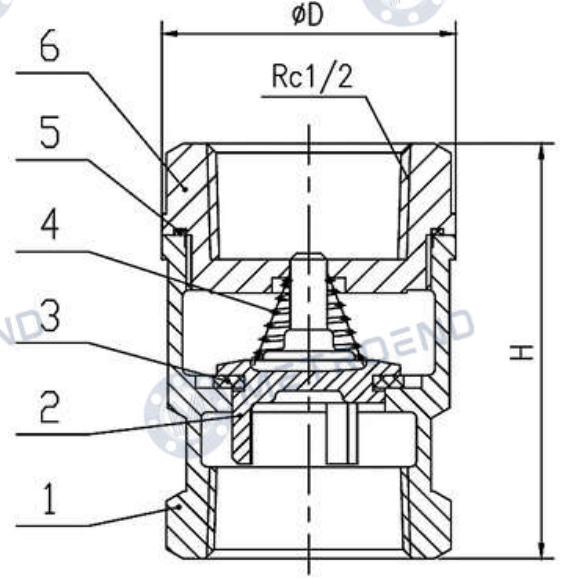


Power Stations



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	GÖVDE	BODY	RG5
2	DİSK	DISC	RG5
3	SİT	SEAT	NBR
4	YAY	SPRING	AISI304
5	CONTA	GASKET	PTFE
6	KAPAK	BONNET	RG5



ÖLÇÜLER - DIMENSIONS

DN	NPS	D	H	KG
15	1/2"	33	53	0,20
20	3/4"	41	60	0,25
25	1"	47	68	0,45
32	1 1/4"	58	79	0,65
40	1 1/2"	70	85	0,95
50	2"	82	98	1,40



METROEND

www.metroend.com

Paslanmaz Dişli Çalpara Çek Valf Stainless Steel Threaded Swing Check Valve

Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations



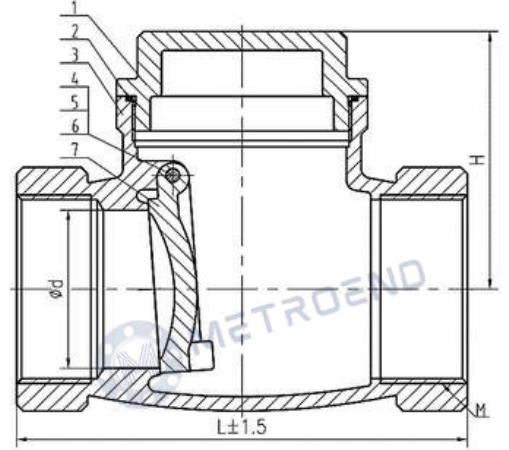
Bağlantılar
Connections
DIN2999

Çalışma Sıcaklığı
Working Temperature
-25°C / +210°C

Çalışma Basıncı
Working Pressure
PN16

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	TAPA	PLUG	AISI304 / AISI316
2	TAPA CONTASI	PLUG GASKET	PTFE
3	GÖVDE	BODY	AISI304 / AISI316
4	CIVATA	BOLT	AISI304 / AISI316
5	KLAPE CONTASI	DISC GASKET	PTFE
6	MİL	PIN	AISI304 / AISI316
7	KLAPE	DISC	AISI304 / AISI316



ÖLÇÜLER - DIMENSIONS

DN	NPS	d	L	H	KG
DN15	1/2"	15	62	42	0,25
DN20	3/4"	20	77	52	0,35
DN25	1"	25	85	58	0,55
DN32	1 1/4"	32	100	61	0,8
DN40	1 1/2"	40	112	75	1
DN50	2"	50	130	81	1,65

Bronz Dişli Çalpara Çek Valf

Bronze Threaded Swing Check Valve



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Uygulama Alanları



Kimya - Petrokimya



Su - Atık Su



Isıtma - Soğutma Sistemleri



Denizcilik Uygulamaları



Madencilik Uygulamaları



Enerji Santralleri

Application Areas



Chemical - Petrochemical



Water - Wastewater



Heating - Cooling Systems



Maritime Applications



Mining Applications

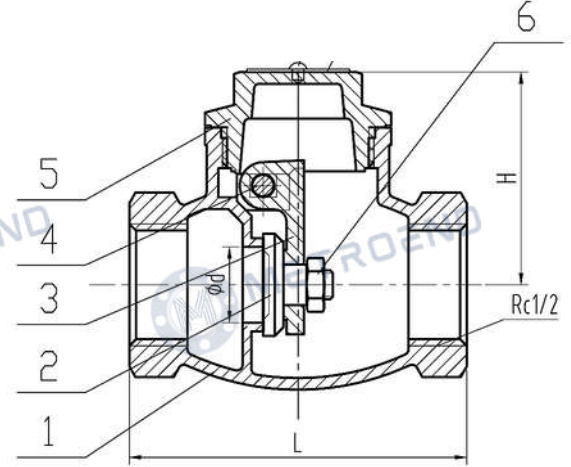


Power Stations



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	GÖVDE	BODY	RG5
2	KLAPE	DISC	RG5 PİRİNÇ / BRASS
3	MENTEŞE	HINGE	RG5
4	MENTEŞE PİMİ	HINGE PIN	ST.STEEL
5	TAPA	PLUG	RG5
6	MENTEŞE SOMUNU	HINGE NUT	PİRİNÇ / BRASS



ÖLÇÜLER - DIMENSIONS

DN	NPS	L	H	d	KG
15	1/2"	58	37	12	0,20
20	3/4"	66	43	18	0,25
25	1"	76	49	24	0,36
32	1 1/4"	88	57,5	30,6	0,56
40	1 1/2"	96	63	37	0,90
50	2"	112	72	48,6	1,25



METROEND

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Pirinç Dişli Çalpara Çek Valf Brass Threaded Swing Check Valve

Uygulama Alanları

- Kimya - Petrokimya
- Su - Atık Su
- Isıtma - Soğutma Sistemleri
- Denizcilik Uygulamaları
- Madencilik Uygulamaları
- Enerji Santralleri

Application Areas

- Chemical - Petrochemical
- Water - Wastewater
- Heating - Cooling Systems
- Maritime Applications
- Mining Applications
- Power Stations



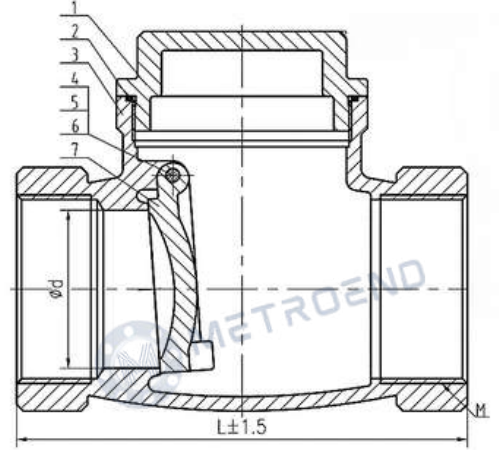
Bağlantılar
Connections
DIN2999

Çalışma Sıcaklığı
Working Temperature
-10°C / +90°C

Çalışma Basıncı
Working Pressure
PN16

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	TAPA	PLUG	MS58
2	TAPA CONTASI	PLUG GASKET	EPDM
3	GÖVDE	BODY	MS58
4	CIVATA	BOLT	MS58
5	KLAPE CONTASI	DISC GASKET	EPDM
6	MİL	PIN	MS58
7	KLAPE	DISC	MS58



ÖLÇÜLER - DIMENSIONS

DN	NPS	d	L	KG
DN15	1/2"	15	50	0,13
DN20	3/4"	19	55	0,18
DN25	1"	24	60	0,28
DN32	1 1/4"	30	65	0,45
DN40	1 1/2"	38	78	0,55
DN50	2"	46	90	0,86
DN65	2 1/2"	58	112	1,80
DN80	3"	68	122	2,60
DN100	4"	90	150	4,20



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Şamandıralı Kondenstop Tip:20 Ball Float Steam Trap Type:20

Uygulama Alanları

- Gıda
- Kimya - Petrokimya
- Enerji Santralleri
- Madencilik Uygulamaları

Application Areas

- Food
- Chemical - Petrochemical
- Power Plants
- Mining Applications



Bağlantılar
Connections
DIN2533
BSP & NPT

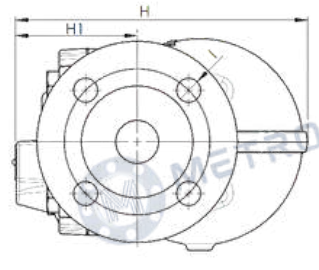
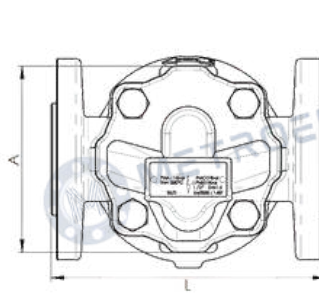
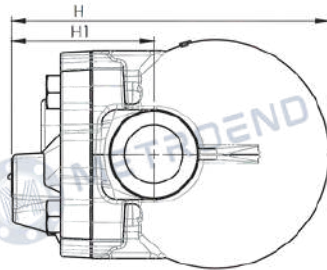
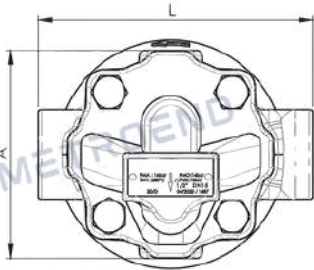
Çalışma Sıcaklığı
Working Temperature
-10°C / +250°C

Çalışma Basıncı
Working Pressure
PN14

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GGG40.3
KAPAK	COVER	GGG40.3
KAPSÜL	CAPSULE	AISI304/ AISI321
KAPSÜL SİTİ	CAPSULE SEAT	AISI304/ AISI321
CIVATA	BOLT	8.8
ŞAMANDIRA KOLU	FLOAT LEVER	AISI304/ AISI321
ŞAMANDIRA	FLOAT	AISI420
KAPAK CONTASI	COVER GASKET	GRAPHITE

ÖLÇÜLER - DIMENSIONS



DİŞLİ / THREADED

DN	A	H	H1	L	KG
15	110	168	75	145	4
20	110	168	75	145	4,20
25	110	168	75	145	4,30

FLANŞLI / FLANGED

DN	A	H	H1	L	KG
15	110	171	71	150	4
20	110	171	71	150	4,50
25	110	171	71	160	6

Şamandıralı Kondenstop Tip:25

Ball Float Steam Trap Type:25



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Uygulama Alanları

- Gıda
- Kimya - Petrokimya
- Enerji Santralleri
- Madencilik Uygulamaları

Application Areas

- Food
- Chemical - Petrochemical
- Power Plants
- Mining Applications

Bağlantılar
Connections
DIN2533
BSP & NPT

Çalışma Sıcaklığı
Working Temperature
-10°C / +250°C

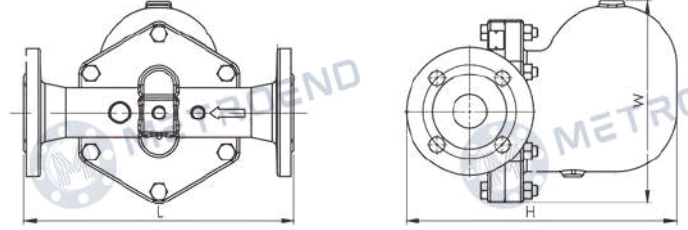
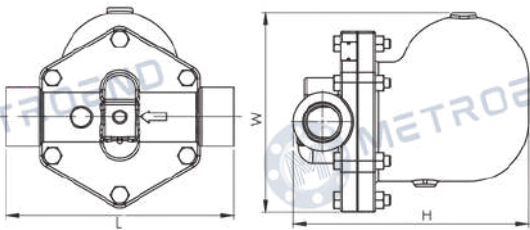
Çalışma Basıncı
Working Pressure
PN14



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GGG40.3
KAPAK	COVER	GGG40.3
KAPSÜL	CAPSULE	AISI304/ AISI321
KAPSÜL SİTİ	CAPSULE SEAT	AISI304/ AISI321
CIVATA	BOLT	8.8
ŞAMANDIRA KOLU	FLOAT LEVER	AISI304/ AISI321
ŞAMANDIRA	FLOAT	AISI420
KAPAK CONTASI	COVER GASKET	GRAPHITE

ÖLÇÜLER - DIMENSIONS



DİŞLİ / THREADED

DN	H	W	L	KG
32	280	238	270	16,5
40	280	238	270	17
50	292	263	300	25

FLANŞLI / FLANGED

DN	H	W	L	KG
32	315	238	320	20
40	320	238	320	22
50	335	263	320	32



METROEND

Dövme Çelik Termodinamik Kondenstop Forged Steel Body Thermodynamic Steam Trap

www.metroend.com

Uygulama Alanları

- Gıda
- Kimya - Petrokimya
- Enerji Santralleri
- Madencilik Uygulamaları

Application Areas

- Food
- Chemical - Petrochemical
- Power Plants
- Mining Applications



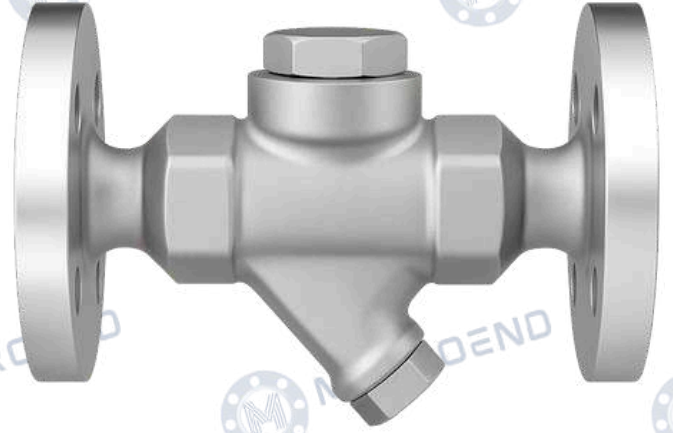
Bağlantılar
Connections
EN1092-1
BSP & NPT

Çalışma Sıcaklığı
Working Temperature
-10°C / +400°C

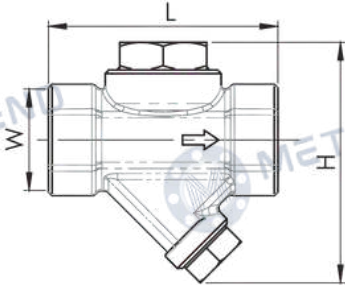
Çalışma Basıncı
Working Pressure
PN46

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	C22,8
KAPAK	COVER	AISI303
SİT	SEAT	AISI420
DİSK	DISC	AISI420
FİLTRE	FILTER	AISI304 / AISI321
FİLTRE CONTASI	FILTER GASKET	AISI304 / AISI321
KÖR TAPA	CAP NUT	ST37-2
KAPAK CONTASI	COVER GASKET	AISI304 / AISI321

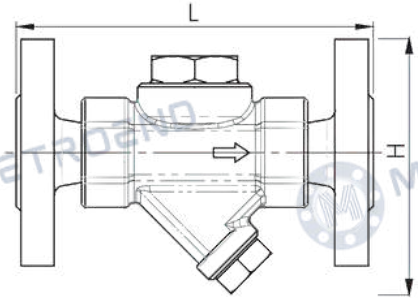


ÖLÇÜLER - DIMENSIONS



DİŞLİ / THREADED

DN	H	W	L	KG
15	100	42	95	1
20	100	42	95	1
25	100	42	95	1,20



FLANŞLI / FLANGED

DN	H	L	KG
15	107	150	2,9
20	107	150	3,5
25	107	160	4

Paslanmaz Çelik Termodinamik Kondenstop

Stainless Steel Body Thermodynamic Steam Trap



METROEND

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Uygulama Alanları

- Gıda
- Kimya - Petrokimya
- Enerji Santralleri
- Madencilik Uygulamaları

Application Areas

- Food
- Chemical - Petrochemical
- Power Plants
- Mining Applications



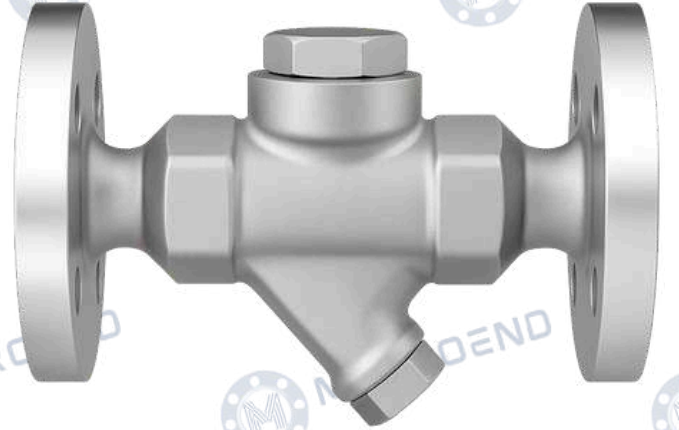
Bağlantılar
Connections
EN1092-1
BSP & NPT

Çalışma Sıcaklığı
Working Temperature
-10°C / +400°C

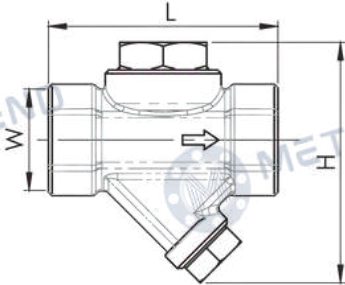
Çalışma Basıncı
Working Pressure
PN40

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	AISI420
KAPAK	COVER	AISI416
DİSK	DISC	AISI416
FİLTRE	FILTER	AISI304
KÖR TAPA	CAP NUT	AISI304

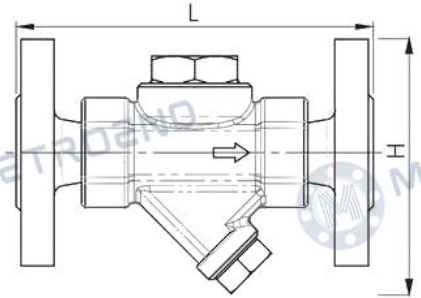


ÖLÇÜLER - DIMENSIONS



DİŞLİ / THREADED

DN	H	W	L	KG
15	94	35	78	1
20	94	35	78	1
25	116	45	94	1,20



FLANŞLI / FLANGED

DN	H	L	KG
15	102	140	3
20	107	146	3,5
25	125	160	4



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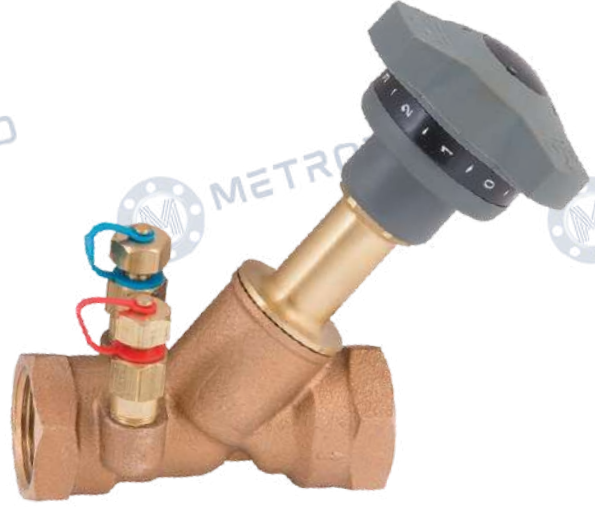
Bronz Dişli Statik Balans Vanası Bronze Threaded Static Balancing Valve

Uygulama Alanları

- Enerji Santralleri
- Kimya - Petrokimya
- Denizcilik Uygulamaları
- Isıtma - Soğutma Sistemleri
- Gıda
- Madencilik Uygulamaları
- Su - Atık Su

Application Areas

- Power Plants
- Chemical - Petrochemical
- Maritime Applications
- Heating - Cooling Systems
- Food
- Mining Applications
- Water - Wastewater



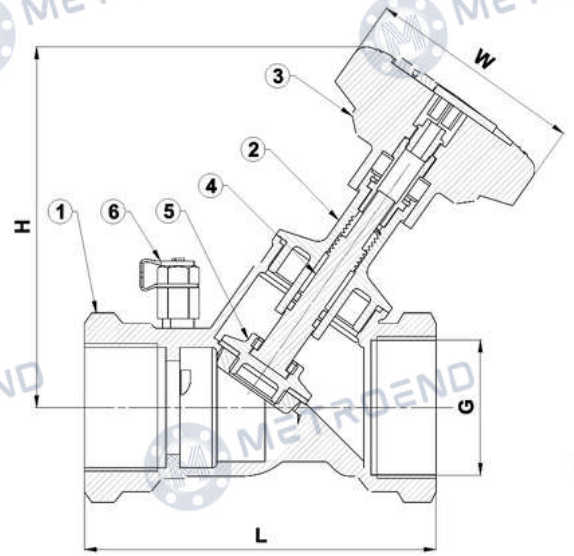
Bağlantılar
Connections
ISO7

Çalışma Sıcaklığı
Working Temperature
-10°C / +120°C

Çalışma Basıncı
Working Pressure
PN25

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	GÖVDE	BODY	RG5
2	KAPAK	BONNET	BRASS
3	HENDİL	HANDWHEEL	EBONITE
4	MİL	MİL	BRASS
5	DİSK	DISC	BRASS
6	ÖLÇÜM PROBU	MEASUREMENT PROBE	BRASS



ÖLÇÜLER - DIMENSIONS

DN	G	L	H	W	KG
15	1/2"	87	105	70	0,55
20	3/4"	96	106	70	0,60
25	1"	100	127	70	0,85
32	1 1/4"	114	128	70	1,05
40	1 1/2"	125	143	70	1,40
50	2"	146	144	70	1,95

Flanşlı Statik Balans Vanası

Flanged Static Balance Valve



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Uygulama Alanları

- Enjri Santralleri
- Kimya - Petrokimya
- Denizcilik Uygulamaları
- Isıtma - Soğutma Sistemleri
- Gıda
- Madencilik Uygulamaları
- Su - Atık Su

Application Areas

- Power Plants
- Chemical - Petrochemical
- Maritime Applications
- Heating - Cooling Systems
- Food
- Mining Applications
- Water - Wastewater



Bağlantılar
Connections

TS EN1092-2 (PN16)



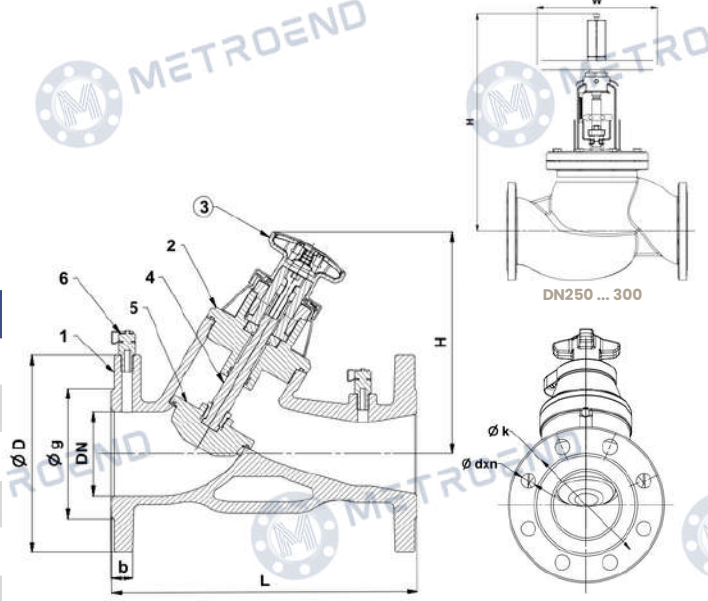
Çalışma Sıcaklığı
Working Temperature
-10°C / +120°C



Çalışma Basıncı
Working Pressure
PN16

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

NO	PARÇA ADI	PART NAME	MATERIAL
1	GÖVDE	BODY	GG25
2	KAPAK	BONNET	GG25
3	HENDİL	HANDWHEEL	EBONIT / GG25
4	MİL	MİL	AISI420
5	DİSK	DISC	GGG40
6	ÖLÇÜM PROBU	MEASUREMENT PROBE	MS58



ÖLÇÜLER - DIMENSIONS

DN	L	H	W	D	g	k	b	KG
40	200	176	86	150	84	110	18	8,65
50	230	190	86	165	99	125	20	12
65	290	214	86	185	118	145	20	16
80	310	225	86	200	132	160	22	21
100	350	334	160	220	156	180	24	37
125	400	388	160	250	184	210	26	70
150	480	403	160	285	211	240	26	96
200	600	825	400	340	266	295	30	182
250	730	900	400	405	319	355	32	276
300	850	945	400	460	370	410	32	312



METROEND

Pirinç Dişli Genel Maksat Solenoid Valve Brass Threaded General Purpose Solenoid Valve

www.metroend.com

Uygulama Alanları

- Enerji Santralleri
- Kimya - Petrokimya
- Denizcilik Uygulamaları
- Isıtma - Soğutma Sistemleri
- Gıda
- Madencilik Uygulamaları
- Su - Atık Su

Application Areas

- Power Plants
- Chemical - Petrochemical
- Maritime Applications
- Heating - Cooling Systems
- Food
- Mining Applications
- Water - Wastewater

Bağlantılar
Connections
DIN 2999

Çalışma Sıcaklığı
Working Temperature
-10°C / +80°C

Çalışma Basıncı
Working Pressure
PN16

Besleme Gerilimleri
Supply Voltages
• 12V
• 24V
• 48V
• 110V
• 230V



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	BRASS
PİSTON CONTASI	PLUNGER SEAL	NBR
KAPAMA TÜPÜ	ENCLOSING TUBE	AISI430 / AISI304
PİSTON	PLUNGER	AISI430
YAY	SPRING	AISI302
GÖLGEME HALKASI	SHADING RING	COPPER
SİT	SEAT	BRASS
O-RING	O-RING	NBR
DİYAFRAM CONTASI	DIAPHRAM SEAT SEAL	NBR
KAPAK VİDASI	COVER SCREWS	ST. STEEL
KAPAK	COVER	BRASS

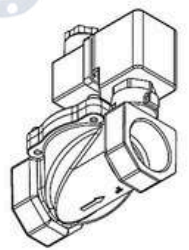
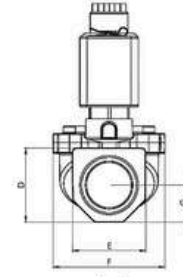
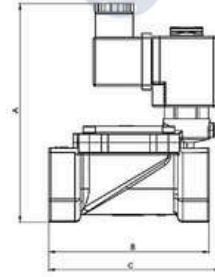


Fig. 1

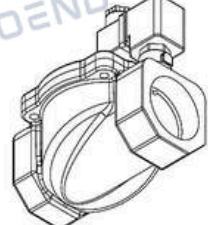
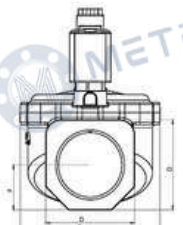
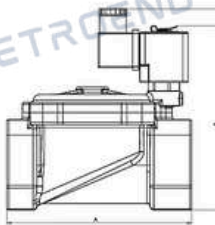


Fig. 2

ÖLÇÜLER - DIMENSIONS

DN	NPS	A	B	C	D	E	F	G	KG
6	1/8"	105,3	69	76,5	26,8	26,9	44	13,4	0,67
8	1/4"	105,3	69	76,5	26,8	26,9	44	13,4	0,68
10	3/8"	105,3	69	76,5	26,8	26,9	44	13,4	0,62
15	1/2"	105,3	69	76,5	26,8	26,9	44	13,4	0,60
20	3/4"	109,8	80	86,8	31,8	31,9	53,8	15,3	0,75
25	1"	120,3	89	95,5	40,9	40,7	62	20,5	1
32	1 1/4"	110	117	130	48	74	24		2,95
40	1 1/2"	140	127	140	56	98	28		2,85
50	2"	145	143	156	70	110	35		3,3

Paslanmaz Dişli Solenoid Valve

Stainless Steel Threaded Solenoid Valve



METROEND

www.metroend.com

Uygulama Alanları

- Enerji Santralleri
- Kimya - Petrokimya
- Denizcilik Uygulamaları
- Isıtma - Soğutma Sistemleri
- Gıda
- Madencilik Uygulamaları
- Su - Atık Su

Application Areas

- Power Plants
- Chemical - Petrochemical
- Maritime Applications
- Heating - Cooling Systems
- Food
- Mining Applications
- Water - Wastewater



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	AISI304 / AISI316
PİSTON CONTASI	PLUNGER SEAL	VITON
KAPAMA TÜPÜ	ENCLOSING TUBE	AISI430 / AISI304
PİSTON	PLUNGER	AISI430
YAY	SPRING	AISI302
GÖLGEME HALKASI	SHADING RING	COPPER
SİT	SEAT	ST.STEEL
O-RING	O-RING	VITON
DİYAFRAM CONTASI	DIAPHRAM SEAT SEAL	VITON
KAPAK VİDASI	COVER SCREWS	ST.STEEL
KAPAK	COVER	AISI304 / AISI316

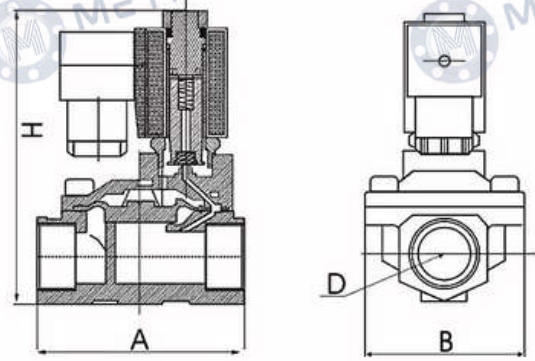


Fig. 1

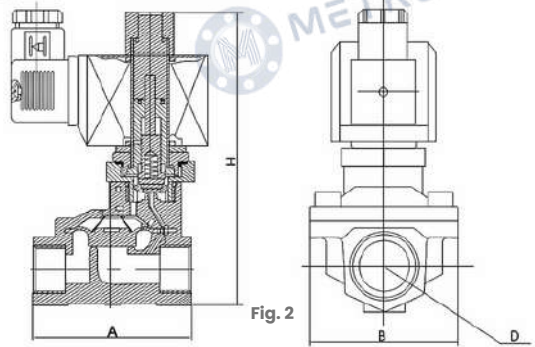


Fig. 2

ÖLÇÜLER - DIMENSIONS

DN	NPS	A	B	H	KG
10	3/8"	66	48	107	0,75
15	1/2"	65	48	107	0,75
20	3/4"	75	58	112	0,90
25	1"	96	70	131	1,30
32	1 1/4"	131	96	146	2,60
40	1 1/2"	131	96	146	2,60
50	2"	165	120	167	4,40



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Paslanmaz Dişli İğne Vana Stainless Steel Threaded Needle Valve

Uygulama Alanları

- Enerji Santralleri
- Kimya - Petrokimya
- Denizcilik Uygulamaları
- Isıtma - Soğutma Sistemleri
- Gıda
- Madencilik Uygulamaları

Application Areas

- Power Plants
- Chemical - Petrochemical
- Maritime Applications
- Heating - Cooling Systems
- Food
- Mining Applications

Bağlantılar
Connections
DIN 2999

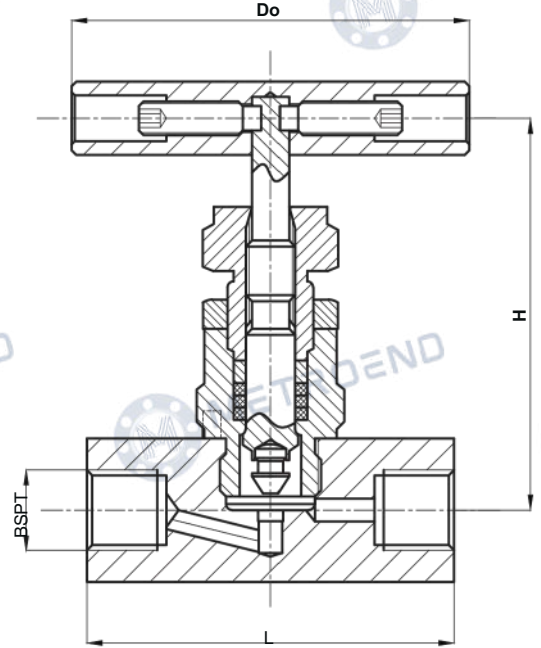
Çalışma Sıcaklığı
Working Temperature
-40°C / +250°C

Çalışma Basıncı
Working Pressure
6000 PSI



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	AISI316
PİM	DOWEL	AISI316
SALMASTRA	PACKING	PTFE
KAPAK	BONNET	AISI316
MİL	UPPER STEM	AISI316
AYAR VİDASI	SET SCREW	AISI316
HENDİL	HANDLE	ALUMINIUM
CONTA	PACKING WASHER	AISI316



ÖLÇÜLER - DIMENSIONS

DN	NPS	L	H	Do	KG
DN8	1/4"	60	64	65	0,36
DN10	3/8"	60	64	65	0,36
DN15	1/2"	76	74	65	0,45
DN20	3/4"	78	81	65	0,80
DN25	1"	96	81	75	1,15



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Dişli Akış Göstergesi Threaded Sight Glass

Uygulama Alanları

- Enerji Santralleri
- Kimya - Petrokimya
- Denizcilik Uygulamaları
- Isıtma - Soğutma Sistemleri
- Gıda
- Madencilik Uygulamaları
- Su - Atık Su

Application Areas

- Power Plants
- Chemical - Petrochemical
- Maritime Applications
- Heating - Cooling Systems
- Food
- Mining Applications
- Water - Wastewater



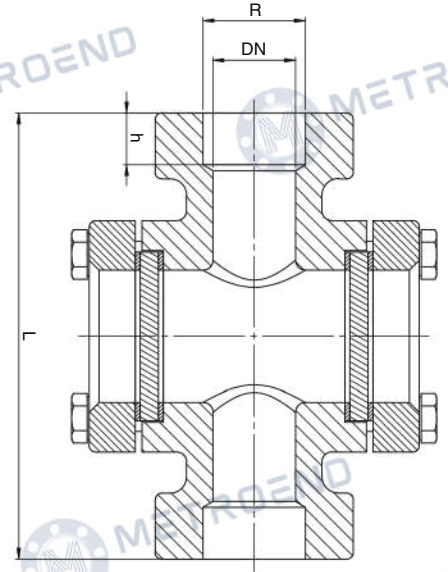
Bağlantılar
Connections
DIN 2999

Çalışma Sıcaklığı
Working Temperature
-10°C / +80°C

Çalışma Basıncı
Working Pressure
PN16

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25 / AISI304 / AISI316
KAPAK	COVER	GG25 / AISI304 / AISI316
CAM	GLASS	SEKURITE
GÖVDE CONTA	BODY SEAL	PTFE
CIVATA	BOLT	5.6.



ÖLÇÜLER - DIMENSIONS

DN	R	L	h	KG
15	1/2"	100	15	1,40
20	3/4"	125	15	1,50
25	1"	135	20	2,00
32	1 1/4"	160	20	3,10
40	1 1/2"	185	20	4,00
50	2"	200	25	6,00

Flanşlı Akış Göstergesi

Flanged Sight Glass



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Uygulama Alanları

- Enerji Santralleri
- Kimya - Petrokimya
- Denizcilik Uygulamaları
- Isıtma - Soğutma Sistemleri
- Gıda
- Madencilik Uygulamaları
- Su - Atık Su

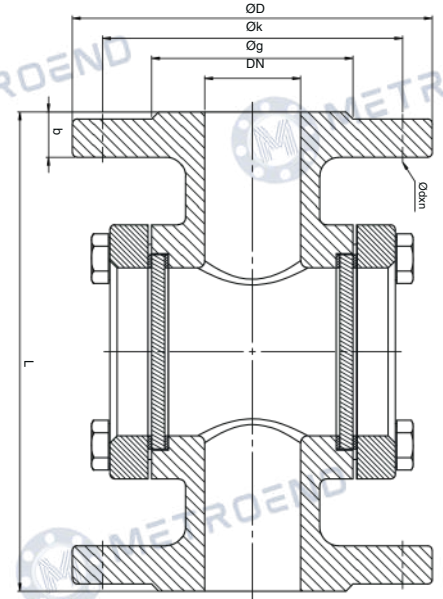
Application Areas

- Power Plants
- Chemical - Petrochemical
- Maritime Applications
- Heating - Cooling Systems
- Food
- Mining Applications
- Water - Wastewater



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25 / AISI304 / AISI316
KAPAK	COVER	GG25 / AISI304 / AISI316
CAM	GLASS	SEKURITE
GÖVDE CONTA	BODY SEAL	PTFE
CIVATA	BOLT	5.6.



ÖLÇÜLER - DIMENSIONS

DN	ØD	Øk	Øg	L	b	Ødxn	KG
15	95	65	46	130	14	14x1	2,80
20	105	75	56	150	16	14x4	3,50
25	115	85	65	160	16	14x4	4,30
32	140	100	76	180	18	18x4	6,70
40	150	110	84	200	18	18x4	7,20
50	165	125	99	230	20	18x4	11,50
65	185	145	118	290	20	18x4	17,80
80	200	160	132	310	22	18x8	21,00
100	220	180	156	350	24	18x8	31,20
125	250	210	184	400	26	18x8	39,00
150	285	240	211	480	26	22x8	55,80
200	340	295	266	600	30	22x12	89,00
250	405	355	319	730	32	26x12	98,00



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Kauçuk Kompansatör Rubber Expansion Joint

Uygulama Alanları

- Enerji Santralleri
- Kimya - Petrokimya
- Denizcilik Uygulamaları
- Isıtma - Soğutma Sistemleri
- Gıda
- Madencilik Uygulamaları
- Su - Atık Su

Application Areas

- Power Plants
- Chemical - Petrochemical
- Maritime Applications
- Heating - Cooling Systems
- Food
- Mining Applications
- Water - Wastewater

Bağlantılar
Connections
EN1092-2

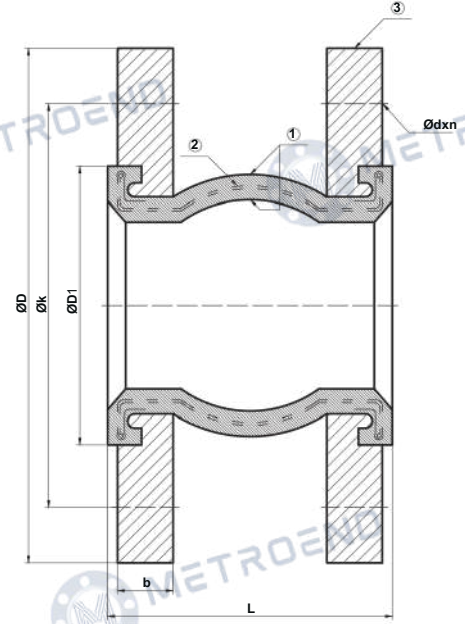
Çalışma Sıcaklığı
Working Temperature
-10°C / +60°C

Çalışma Basıncı
Working Pressure
PN16



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
FLANŞ	FLANGE	GGG40 / ST37 / AISI304 / AISI316
TEL	WIRE	SPRING STEEL
KÖRÜK	BELLOWS	EPDM / NBR



ÖLÇÜLER - DIMENSIONS

DN	L	ØD1	ØD	k	b	Ødxn	KG
32	100	76	140	100	18	18x4	2
40	100	76	150	110	18	18x4	2,5
50	100	86	165	125	20	18x4	3
65	100	101	185	145	20	18x4	3,85
80	100	116	200	160	20	18x8	4,50
100	100	140	220	180	22	18x8	5,50
125	120	168	250	210	22	18x8	7,50
150	120	198	285	240	24	22x8	8,85
200	120	254	340	295	26	22x12	11
250	130	312	405	355	28	26x12	16,5
300	130	375	460	410	28	26x12	24,5
350	160	432	520	470	30	26x16	32,5

*İstenilen ölçülere göre özel üretim yapılabilir.
*Special production can be made according to the desired dimensions.

Metal Körüklü Kompansatör

Metal Bellow Expansion Joint



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Uygulama Alanları

- Enerji Santralleri
- Kimya - Petrokimya
- Denizcilik Uygulamaları
- Isıtma - Soğutma Sistemleri
- Gıda
- Madencilik Uygulamaları
- Su - Atık Su

Application Areas

- Power Plants
- Chemical - Petrochemical
- Maritime Applications
- Heating - Cooling Systems
- Food
- Mining Applications
- Water - Wastewater

Bağlantılar
Connections
EN1092-2

Çalışma Sıcaklığı
Working Temperature
-80°C / +427°C

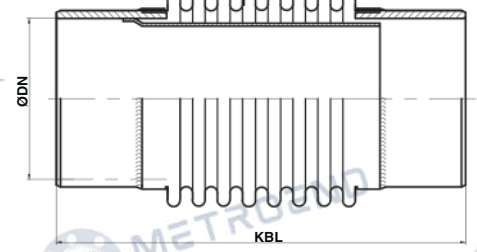
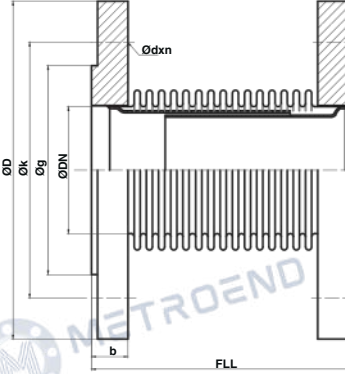
Çalışma Basıncı
Working Pressure
PN16



MALZEME ÖZELLİKLERİ

MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
FLANŞ	FLANGE	ST37 / AISI304 / AISI316
LAYNER	SLEEVE	SPRING STEEL
KÖRÜK	RUBBER	EPDM / NBR



ÖLÇÜLER - DIMENSIONS

						L: 30mm		L: 60mm		KG	
DN	ØD	Øk	Øg	Øb	Ødxn	FLL	KBL	FLL	KBL	FLL	KBL
25	115	85	68	16	14x4	120	170	-	-	2	0,20
32	140	100	78	16	18x4	120	170	-	-	3,5	0,45
40	150	110	88	16	18x4	120	170	-	-	4	0,60
50	165	125	102	18	18x4	120	170	-	-	4,5	0,75
65	185	145	122	18	18x4	120	170	180	230	6	1,10
80	200	160	138	20	18x8	120	190	180	230	6,7	1,50
100	220	180	158	20	18x8	130	190	190	260	8,2	2,20
125	250	10	188	22	18x8	140	200	190	260	10,5	2,60
150	285	240	212	22	22x8	140	200	200	280	15,5	3,40
200	340	295	268	24	22x12	140	200	200	280	19	4,85
250	405	355	320	26	26x12	150	200	210	280	21,5	10,90

*İstenilen ölçülere göre özel üretim yapılabilir.

*Special production can be made according to the desired dimensions.



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Ani Kapama Vanası Düz Tip

Quick Closing Valve Straight Type

Uygulama Alanları



Denizcilik Uygulamaları

Application Areas



Maritime Applications



Bağlantılar
Connections

DIN2501



Çalışma Sıcaklığı
Working Temperature

-10°C / +220°C



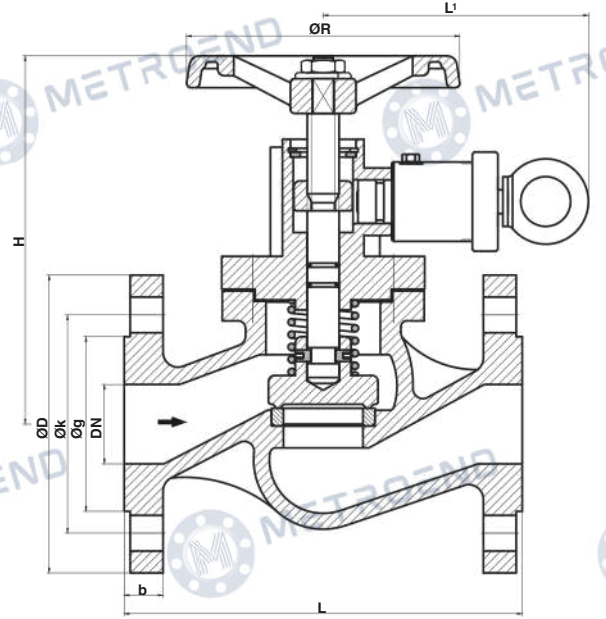
Çalışma Basıncı
Working Pressure

PN16



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GGG40 / GS-C25 / RG5 / RG10
SİT	SEAT	RG5 / AISI420
MİL	STEM	AISI420 / MS58
İNDİKATÖR SOMUNU	INDICATOR NUT	ST37
KAPAK	BONNET	GGG40 / GS-C25 / RG5 / RG10
KLAPE	DISC	RG5 / AISI420
CONTA	GASKET	KLINGERIT / GRAPHITE
SALMASTRA	PACKING	GRAPHITE
SOMUN & PUL	NUT & WASHER	STEEL
HENDİL	HANDWHEEL	GG25
YAY	SPRING	STEEL
AKTÜATÖR	ACTUATOR	MS58



ÖLÇÜLER - DIMENSIONS

DN	ØD	Øk	Øg	L	b	ØR	H	Ødxn	KG
15	95	65	45	130	14	110	160	14x4	4
20	105	75	58	150	16	110	160	14x4	4
25	115	85	68	160	16	110	165	14x4	5
32	140	100	78	180	18	140	170	18x4	7
40	150	110	88	200	18	140	185	18x4	11
50	165	125	102	230	20	160	190	18x4	13
65	185	145	122	290	20	160	205	18x4	18
80	200	160	138	310	20	200	250	18x8	25
100	220	180	158	350	24	220	270	18x8	35
125	250	210	188	400	26	250	315	18x8	55
150	285	240	212	480	26	300	360	22x8	78

Ani Kapama Vanası Gönye Tip

Quick Closing Valve Angle Type



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Uygulama Alanları



Denizcilik Uygulamaları

Application Areas

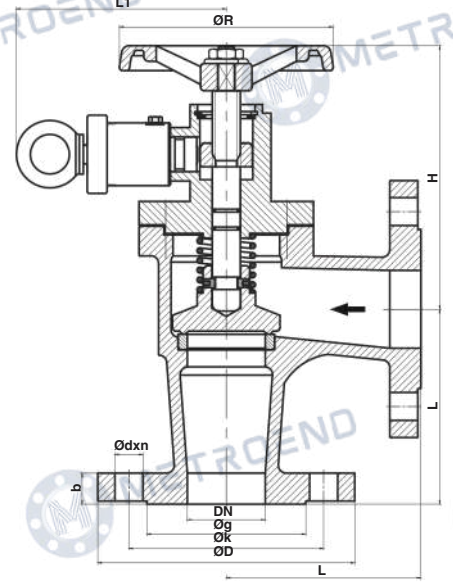


Maritime Applications



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GGG40 / GS-C25 / RG5 / RG10
SİT	SEAT	RG5 / AISI420
MİL	STEM	AISI420 / MS58
İNDİKATÖR SOMUNU	INDICATOR NUT	ST37
KAPAK	BONNET	GGG40 / GS-C25 / RG5 / RG10
KLAPE	DISC	RG5 / AISI420
CONTA	GASKET	KLINGERIT / GRAPHITE
SALMASTRA	PACKING	GRAPHITE
SOMUN & PUL	NUT & WASHER	STEEL
HENDİL	HANDWHEEL	GG25
YAY	SPRING	STEEL
AKTÜATÖR	ACTUATOR	MS58



ÖLÇÜLER - DIMENSIONS

DN	ØD	Øk	Øg	L	L1	b	ØR	H	Ødxn	KG
15	95	65	45	90	134	14	110	160	14x4	3,8
20	105	75	58	95	134	16	110	160	14x4	4,5
25	115	85	68	100	134	16	110	165	14x4	6,7
32	140	100	78	105	134	18	140	170	18x4	7,5
40	150	110	88	115	134	18	140	185	18x4	10,5
50	165	125	102	125	136	20	160	190	18x4	14
65	185	145	122	145	136	20	160	205	18x4	18
80	200	160	138	155	136	20	200	250	18x8	23
100	220	180	158	175	136	24	220	270	18x8	36
125	250	210	188	200	160	26	220	315	18x8	54
150	285	240	212	225	160	26	220	360	22x8	72

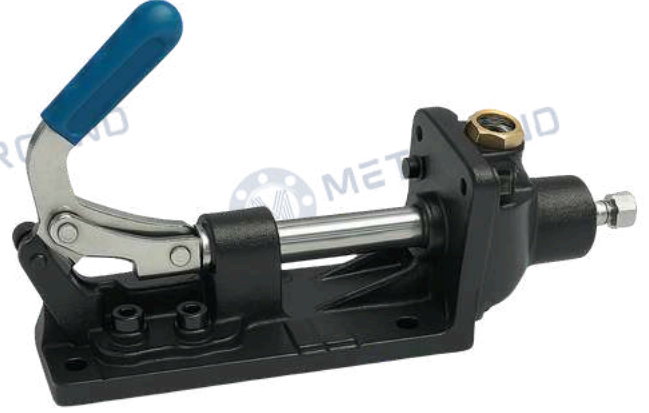


Uygulama Alanları

Hidrolik ani kapama kolu, ani kapama vanalarını uzaktan hidrolik güçle çalıştırmak için kullanılan kontrol mekanizmasıdır.

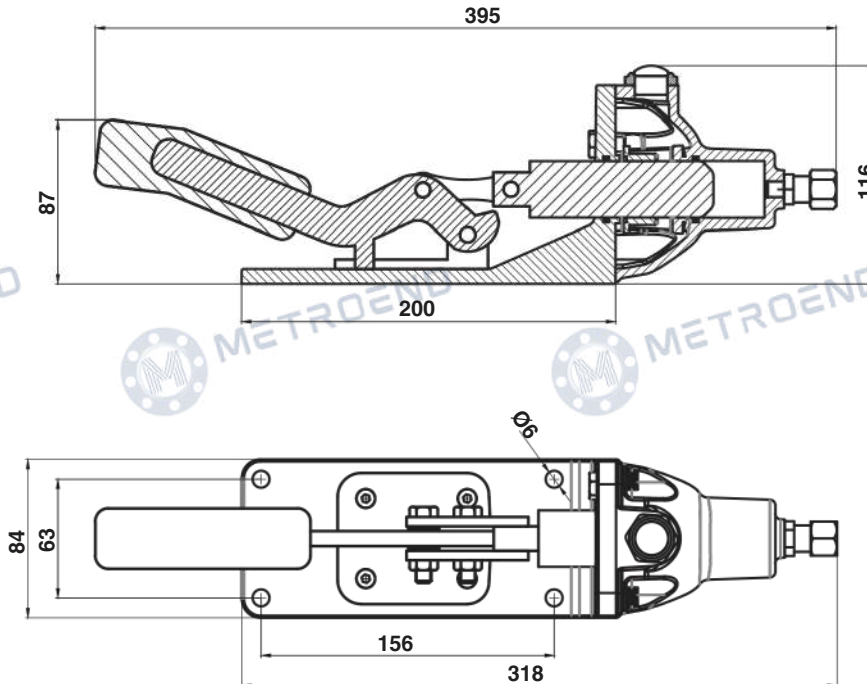
Applications Area

A hydraulic quick-closing lever is a control mechanism used to operate quick-closing valves remotely using hydraulic power.



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GGG40
ŞAŞİ	CHASSIS	GGG40
O-RING	O-RING	NBR
BURÇ	BUSH	MS58
SİLİNDİR	CYLINDER	ST37
KOL	LEVER	ST37
CIVATA	BOLT	ST37
TAPA	PLUG	AISI304
YAĞ GÖSTERGESİ	OIL EYE	GLASS
SOMUN	NUT	ST37



Dreyn Vanası

Drain Valve



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Uygulama Alanları



Denizcilik Uygulamaları



Su - Atık Su

Application Areas



Maritime Applications



Water - Wastewater



Bağlantılar
Connections

EN1092-2



Çalışma Sıcaklığı
Working Temperature

-10°C / +120°C



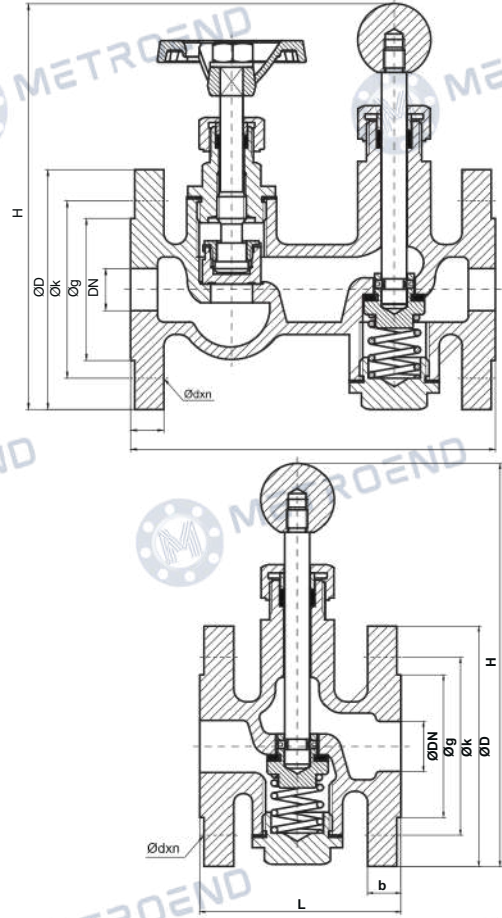
Çalışma Basıncı
Working Pressure

PN10



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GGG40
MİL	STEM	BRASS
KLAPE	DISC	BRASS
YAY	SPRING	STEEL
CONTA	GASKET	KLINGRIT
SALMASTRA	PACKING	SILICON
TOPUZ	NOB	BAKALITE
HENDİL	HANDWHEEL	GG25



ÖLÇÜLER - DIMENSIONS

DN	ØD	Øk	Øg	L	Øb	H	Ødxn	KG
20	105	75	58	170	16	195	14x4	4,20
25	115	85	68	180	16	195	14x4	4,80
25 (SINGLE)	115	85	68	95	16	195	14x4	3,5



METROEND

Bronz Dişli Self Closing - Dreyr Vanası Bronze Threaded Self Closing - Drain Valve

www.metroend.com

Uygulama Alanları



Denizcilik Uygulamaları



Su - Atık Su

Application Areas



Maritime Applications



Water - Wastewater



Bağlantılar
Connections
DIN2999



Çalışma Sıcaklığı
Working Temperature
-10°C / +120°C

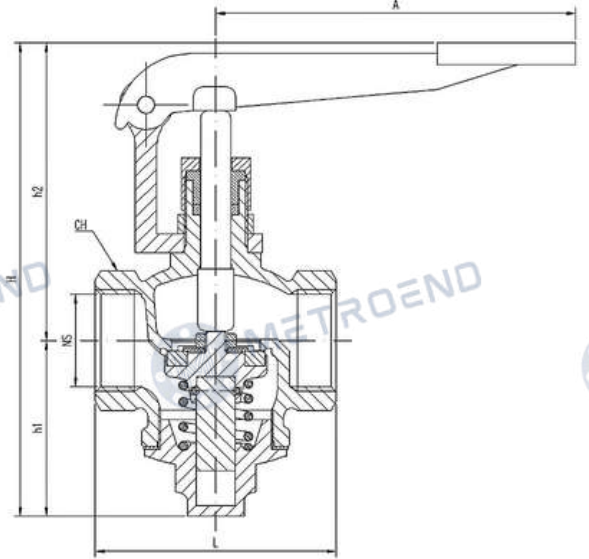


Çalışma Basıncı
Working Pressure
PN16



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	RG5
KOL	LEVER	RG5
MİL	STEM	BRASS
SİT	SEAT	PTFE
YAY	SPRING	STEEL



ÖLÇÜLER - DIMENSIONS

DN	h1	h2	H	A	L	KG
15	48	140	188	130	60	0,8
20	51	131	182	130	70	1
25	58	144	202	130	80	1,2
32	64	132	196	160	96	2,2
40	72	133	205	160	104	2,8
50	67	144	211	160	130	4,5

Ağırlıklı İskandil Vanası

Sounding Cock Valve



METROEND

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Uygulama Alanları



Denizcilik Uygulamaları



Su - Atık Su

Application Areas



Maritime Applications



Water - Wastewater



Bağlantılar
Connections
DIN2999



Çalışma Sıcaklığı
Working Temperature
-10°C / +120°C

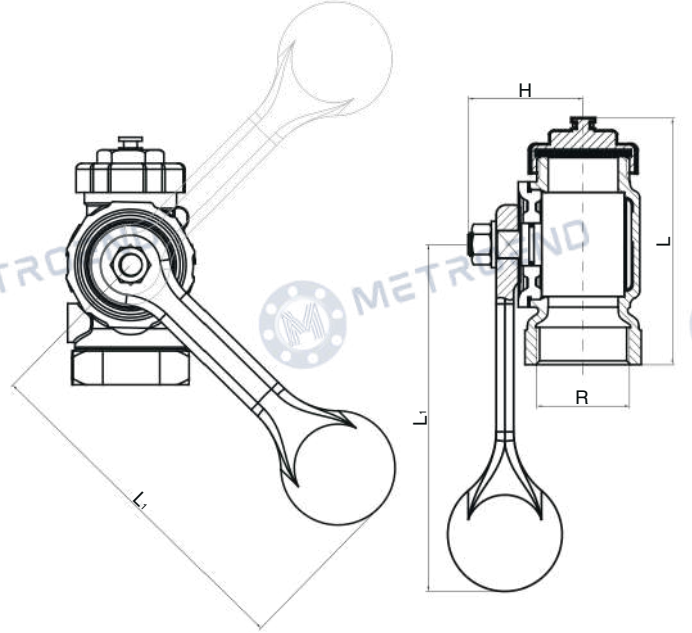


Çalışma Basıncı
Working Pressure
PN2,5



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	RG5
SİLİNDİR	CYLINDER	RG5
O-RING	O-RING	NBR
KAPAK	BONNET	RG5
KOL	LEVER	GGG40
TAHLİYE NOZULU	NOZZLE	BRASS
CONTA	GASKET	NBR



ÖLÇÜLER - DIMENSIONS

DN	R	L	L1	H	KG
40	1 1/2"	130	180	60	3
50	2"	140	180	60	3



METROEND

www.metroend.com

Yaylı Düz Tip Self Closing Vana

Spring Loaded Straight Type Self Closing Valve

Uygulama Alanları



Denizcilik Uygulamaları



Su - Atık Su

Application Areas



Maritime Applications



Water - Wastewater



Bağlantılar
Connections

EN1092-2



Çalışma Sıcaklığı
Working Temperature
-10°C / +220°C

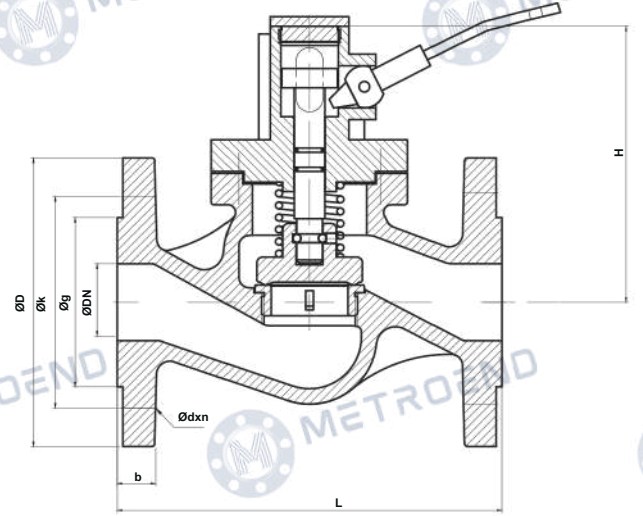


Çalışma Basıncı
Working Pressure
PN16



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GGG40
SİT	SEAT	AISI420 / RG5
KAPAK	BONNET	GGG40
MİL	STEM	AISI420
O-RING	O-RING	VITON
YAY	SPRING	STEEL
KLAPE	DISC	AISI420 / RG5



ÖLÇÜLER - DIMENSIONS

DN	ØD	Øk	Øg	L	b	H	Ødxn	KG
15	95	65	45	130	14	126	14x4	4,5
20	105	75	58	150	16	126	14x4	5,5
25	115	85	68	160	16	129	14x4	6
32	140	100	78	180	18	134	18x4	8,5
40	150	110	88	200	18	149	18x4	10,5
50	165	125	102	230	20	156	18x4	15
65	185	145	122	290	20	167	18x4	20
80	200	160	138	310	22	185	18x8	23
100	220	180	158	350	24	221	18x8	36
125	250	210	188	400	26	251	18x8	55
150	285	240	212	480	26	303	22x8	74

Yaylı Gönye Tip Self Closing Vana

Spring Loaded Angle Type Self Closing Valve



METROEND

www.metroend.com

Uygulama Alanları



Denizcilik Uygulamaları



Maritime Applications



Su - Atık Su



Water - Wastewater



Bağlantılar
Connections

EN1092-2



Çalışma Sıcaklığı
Working Temperature
-10°C / +220°C

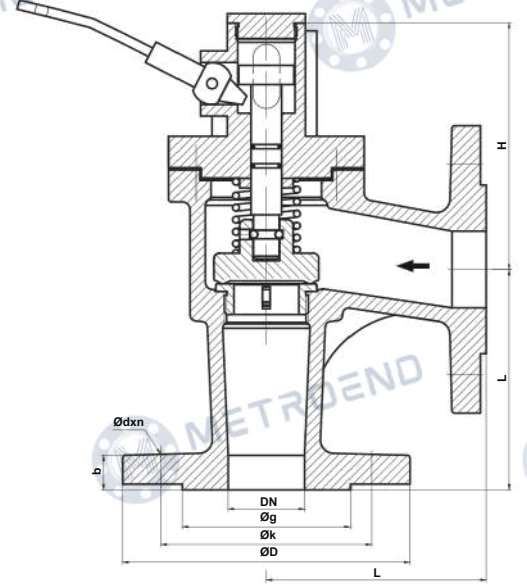


Çalışma Basıncı
Working Pressure
PN16



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GGG40
SİT	SEAT	AISI420 / RG5
KAPAK	BONNET	GGG40
MİL	STEM	AISI420
O-RING	O-RING	VITON
YAY	SPRING	STEEL
KLAPE	DISC	AISI420 / RG5



ÖLÇÜLER - DIMENSIONS

DN	ØD	Øk	Øg	L	L1	b	H	Ødxn	KG
15	95	65	45	90	164	14	160	14x4	3,8
20	105	75	58	95	164	16	160	14x4	4,5
25	115	85	68	100	164	16	165	14x4	6,5
32	140	100	78	105	164	18	170	18x4	7,5
40	150	110	88	115	164	18	185	18x4	10,5
50	165	125	102	125	167	20	190	18x4	14
65	185	145	122	145	167	20	205	18x4	18
80	200	160	138	155	167	22	250	18x8	23
100	220	180	158	175	167	24	270	18x8	35
125	250	210	188	200	200	26	315	18x8	53
150	285	240	212	225	225	26	370	22x8	72



METROEND

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Ağırlıklı Düz Tip Self Closing Vana Weighted Straight Type Self Closing Valve

Uygulama Alanları



Denizcilik Uygulamaları



Su - Atık Su

Application Areas



Maritime Applications



Water - Wastewater



Bağlantılar
Connections

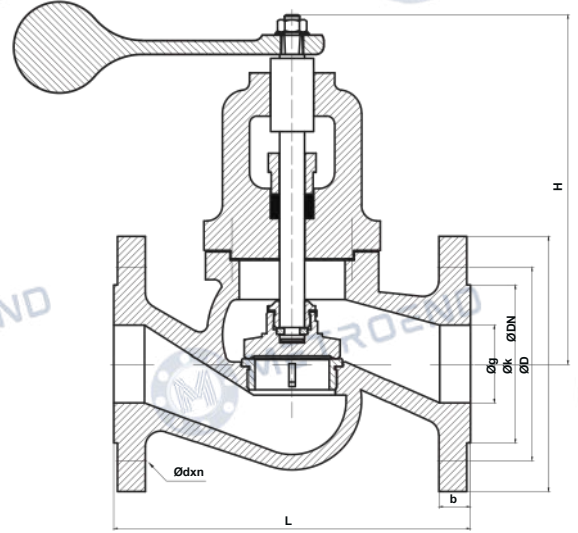
EN1092-2



Çalışma Sıcaklığı
Working Temperature
-10°C / +220°C



Çalışma Basıncı
Working Pressure
PN16



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GGG40 / RG5
SİT	SEAT	AISI420 / RG5
KAPAK	BONNET	GGG40 / RG5
MİL	STEM	AISI420
O-RING	O-RING	VITON
AĞIRLIK	WEIGHT	GG25
KLAPE	DISC	AISI420 / RG5

ÖLÇÜLER - DIMENSIONS

DN	ØD	Øk	Øg	L	b	H	Ødxn	KG
15	95	65	45	130	14	192	14x4	7
20	105	75	58	150	16	192	14x4	7
25	115	85	68	160	16	192	14x4	7,5
32	140	100	78	180	18	201	18x4	8,5
40	150	110	88	200	18	228	18x4	11,5
50	165	125	102	230	20	233	18x4	15
65	185	145	122	290	20	263	18x4	21

Ağırlıklı Gönye Tip Self Closing Vana

Weighted Angle Type Self Closing Valve



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Uygulama Alanları



Denizcilik Uygulamaları



Su - Atık Su

Application Areas



Maritime Applications



Water - Wastewater



Bağlantılar
Connections

EN1092-2



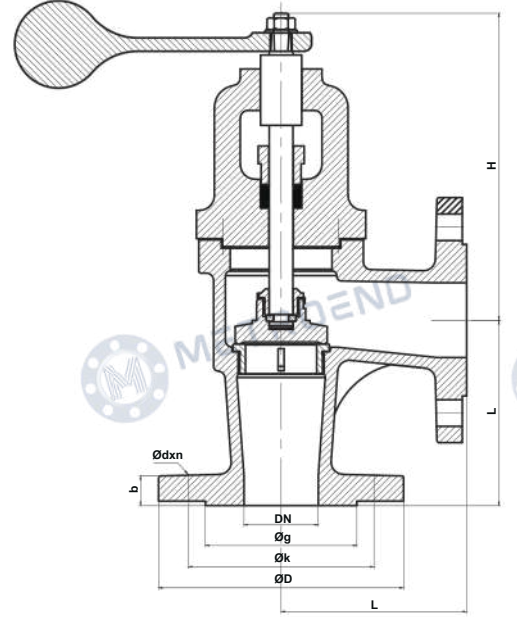
Çalışma Sıcaklığı
Working Temperature

-10°C / +220°C



Çalışma Basıncı
Working Pressure

PN16



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GGG40 / RG5
SİT	SEAT	AISI420 / RG5
KAPAK	BONNET	GGG40 / RG5
MİL	STEM	AISI420
O-RING	O-RING	VITON
AĞIRLIK	WEIGHT	GG25
KLAPE	DISC	AISI420 / RG5

ÖLÇÜLER - DIMENSIONS

DN	ØD	Øk	Øg	L	b	H	Ødxn	KG
15	95	65	45	160	14	192	14x4	7
20	105	75	58	160	16	192	14x4	7
25	115	85	68	160	16	192	14x4	7,5
32	140	100	78	180	18	201	18x4	8,5
40	150	110	88	115	18	213	18x4	11,5
50	165	125	102	125	20	216	18x4	15
65	185	145	122	145	20	243	18x4	21



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Düz Tip Yangın Vanası Straight Type Fire Hose Valve

Uygulama Alanları

- Yangın hatlarında kullanılır.

Applications Area

- Used in fire lines.

Bağlantılar
Connections
EN1092-2

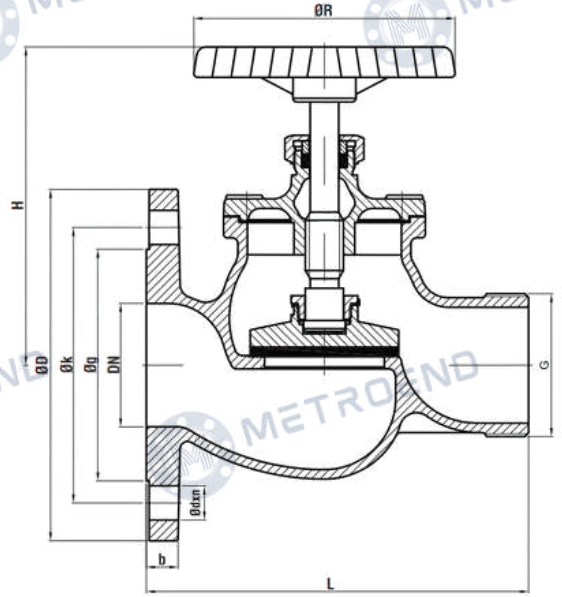
Çalışma Sıcaklığı
Working Temperature
-10°C / +120°C

Çalışma Basıncı
Working Pressure
PN16



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	RG5 / RG10
KLAPE	DISC	RG5 / RG10
MİL	STEM	MS58
SETUSKUR CIVATA	SET.SCREW	8.8 STEEL
KLAPE CONTASI	DISC GASKET	EPDM
SOMUN&PUL	NUT&WASHER	8.8 STEEL
CONTA	GASKET	KLINGRIT
KAPAK	BONNET	RG5 / RG10



ÖLÇÜLER - DIMENSIONS

DN	ØD	Øk	Øg	L	b	H	ØR	Ødxn	KG
40	150	110	88	150	18	130	110	18x4	5,5
50	165	125	102	165	20	140	140	18x4	6,8
65	185	145	122	200	20	160	140	18x4	9

Gönye Tip Yangın Vanası

Angle Type Fire Hose Valve



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Uygulama Alanları

• Yangın hatlarında kullanılır.

Applications Area

• Used in fire lines.


Bağlantılar
Connections
EN1092-2

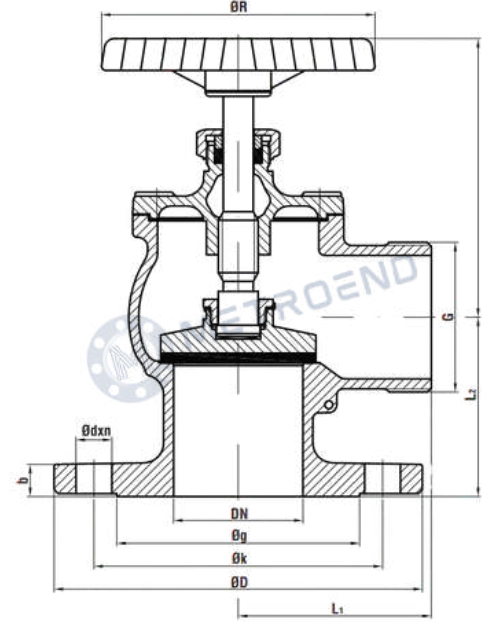

Çalışma Sıcaklığı
Working Temperature
-10°C / +120°C


Çalışma Basıncı
Working Pressure
PN16



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	RG5 / RG10
KLAPE	DISC	RG5 / RG10
MİL	STEM	MS58
SETUSKUR CIVATA	SET.SCREW	8.8 STEEL
KLAPE CONTASI	DISC GASKET	EPDM
SOMUN&PUL	NUT&WASHER	8.8 STEEL
CONTA	GASKET	KLINGRIT
KAPAK	BONNET	RG5 / RG10



ÖLÇÜLER - DIMENSIONS

DN	ØD	Øk	Øg	L1	L2	b	H	ØR	Ødxn	KG
40	150	110	88	75	65	18	130	110	18x4	5,5
50	165	125	102	75	75	20	140	140	18x4	6,8
65	185	145	122	95	90	20	160	140	18x4	9



METROEND

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JIS Düz Tip Yangın Vanası JIS Straight Type Fire Hose Valve

Uygulama Alanları

- Yangın hatlarında kullanılır.

Applications Area

- Used in fire lines.

Bağlantılar
Connections
JIS B2220

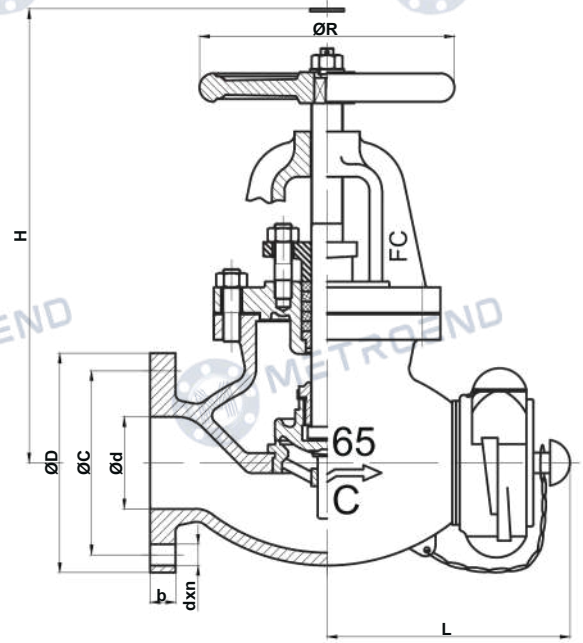
Çalışma Sıcaklığı
Working Temperature
-10°C / +205°C

Çalışma Basıncı
Working Pressure
5 Kgf/Cm2
10 Kgf/Cm2



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25
KLAPE	DISC	AISI420
MİL	STEM	AISI420
KAPAK	BONNET	GG25
SALMASTRA	PACKING	GRAPHITE
HENDİL	HANDWHEEL	GG25



ÖLÇÜLER - DIMENSIONS

DN	5K								10K								Ød
	ØD	Øk	L	b	H	nxØh	ØR	KG	ØD	Øk	L	b	H	nxØh	ØR	KG	
50	130	105	165	16	270	4x15	160	15	155	120	170	20	285	4x19	160	19	50
65	155	130	175	18	310	4x15	200	21	175	140	200	22	310	4x19	200	28	65

JIS Gönye Tip Yangın Vanası

JIS Angle Type Fire Hose Valve



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Uygulama Alanları

- Yangın hatlarında kullanılır.

Applications Area

- Used in fire lines.



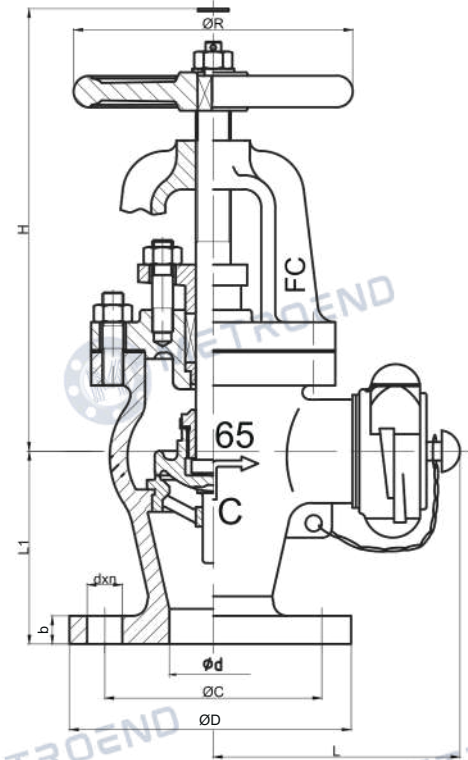

Bağlantılar
Connections
JIS B2220


Çalışma Sıcaklığı
Working Temperature
-10°C / +205°C


Çalışma Basıncı
Working Pressure
5 Kg/cm²
10 Kg/cm²

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25
KLAPE	DISC	AISI420
MİL	STEM	AISI420
KAPAK	BONNET	GG25
SALMASTRA	PACKING	GRAPHITE
HENDİL	HANDWHEEL	GG25



ÖLÇÜLER - DIMENSIONS

	5K																		10K										
DN	ØD	Øk	L	L1	b	H	nxØh	ØR	KG	ØD	Øk	L	L1	b	H	nxØh	ØR	KG	Ød										
50	130	105	155	100	16	240	4x15	160	13	155	120	170	110	20	285	4x19	160	17	50										
65	155	130	175	130	18	270	4x15	200	17	175	140	185	130	22	270	4x19	200	24	65										



METROEND

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JIS Bronz Düz Tip Yangın Vanası JIS Bronze Straight Type Fire Hose Valve

Uygulama Alanları

- Yangın hatlarında kullanılır.

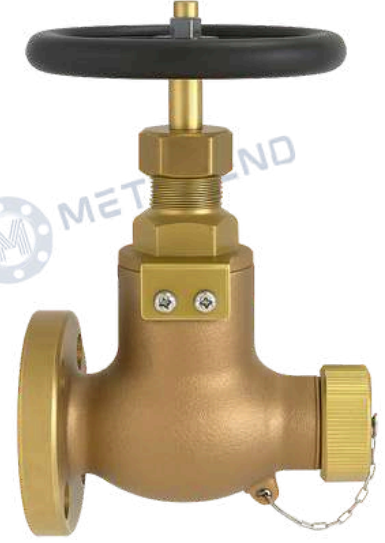
Applications Area

- Used in fire lines.

Bağlantılar
Connections
JIS B2220

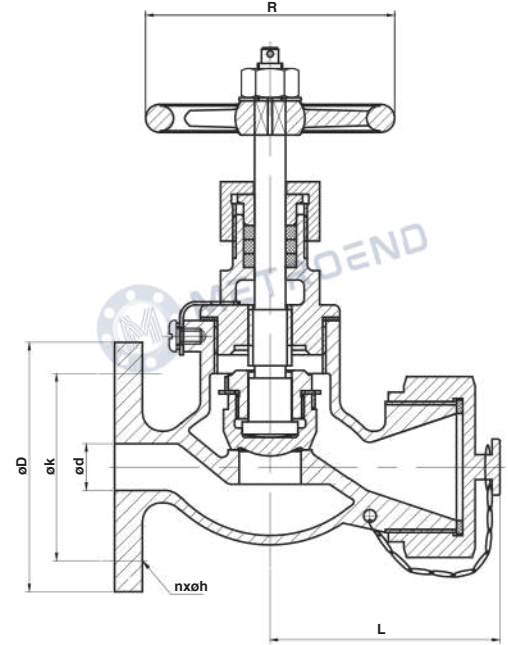
Çalışma Sıcaklığı
Working Temperature
-10°C / +120°C

Çalışma Basıncı
Working Pressure
5 Kgf/Cm2
10 Kgf/Cm2



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	RG5
KLAPE	DISC	RG5
MİL	STEM	BRASS
KAPAK	BONNET	RG5
SALMASTRA	PACKING	GRAPHITE
HENDİL	HANDWHEEL	GG25



ÖLÇÜLER - DIMENSIONS

DN	5K							10K							Ød
	ØD	Øk	L	b	nxØh	ØD2	KG	ØD	Øk	L	b	nxØh	ØD2	KG	
15	80	60	73	9	4x12	80	2,5	95	70	73	12	4x15	80	3	15
25	95	75	78	10	4x12	125	3,5	125	90	83	14	4x19	125	4	25
40	120	95	124	12	4x15	140	6,5	140	105	133	16	4x19	140	8,5	40
50	130	105	160	14	4x15	160	13	155	120	165	16	4x19	160	16	50
65	-	-	-	-	-	-	-	175	140	200	18	4x19	200	28	65

JIS Bronz Gönye Tip Yangın Vanası

JIS Bronze Angle Type Fire Hose Valve



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Uygulama Alanları

- Yangın hatlarında kullanılır.

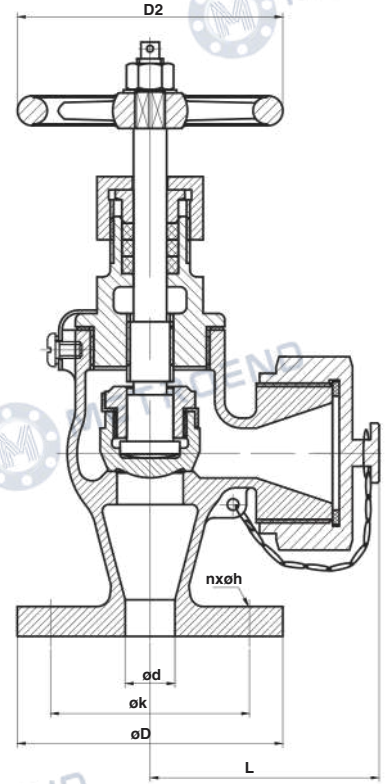
Applications Area

- Used in fire lines.



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	RG5
KLAPE	DISC	RG5
MİL	STEM	BRASS
KAPAK	BONNET	RG5
SALMASTRA	PACKING	GRAPHITE
HENDİL	HANDWHEEL	GG25



ÖLÇÜLER - DIMENSIONS

DN	5K							10K							Ød
	ØD	Øk	L	b	nxØh	ØD2	KG	ØD	Øk	L	b	nxØh	ØD2	KG	
15	80	60	68	9	4x12	80	2,5	95	70	73	12	4x15	80	2,8	15
25	95	75	78	10	4x12	125	3,5	125	90	83	14	4x19	125	4	25
40	120	95	124	12	4x15	140	6	140	105	124	16	4x19	140	8	40
50	130	105	155	14	4x15	160	11	155	120	160	16	4x19	160	14	50
65	-	-	-	-	-	-	-	175	140	180	18	4x19	200	23	65



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Dişli Yangın Vanası Threaded Fire Hose Valve

Uygulama Alanları

- Yangın hatlarında kullanılır.

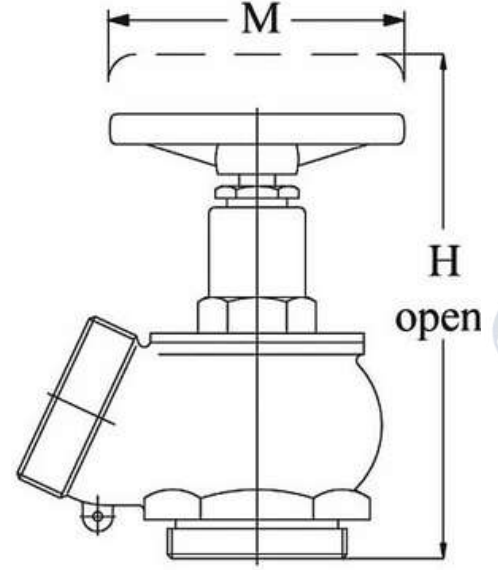
Applications Area

- Used in fire lines.



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	BRASS
KLAPE CONTASI	DISC GASKET	NBR
KLAPE	DISC	BRASS
KAPAK	BONNET	BRASS
CONTA	GASKET	NBR
MİL	STEM	BRASS
HENDİL	HANDWHEEL	GG25



ÖLÇÜLER - DIMENSIONS

DN	NPS	H	M	KG
40	1 1/2"	161	80	1,60
50	2"	177	100	2,00
65	2 1/2"	211	100	3,90





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Bronz Ejektör Bronze Ejector

Uygulama Alanları

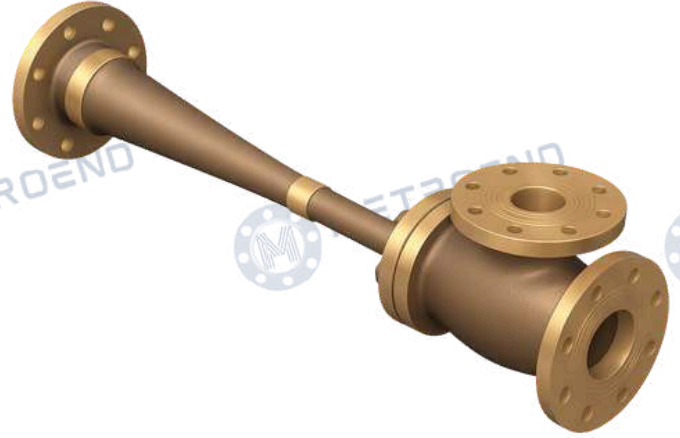


Denizcilik Uygulamaları

Application Areas



Maritime Applications

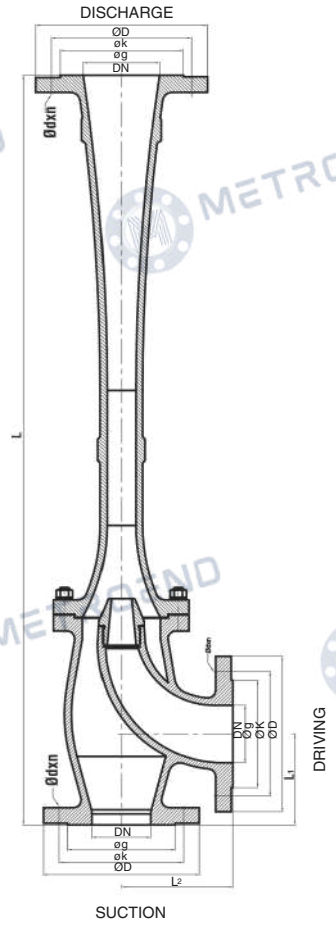


Bağlantılar
Connections
DIN1092-2

Çalışma Basıncı
Working Pressure
PN16

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	RG5
DİFÜZÖR	DIFFUSOR	RG5
NOZUL	NOZZLE	AISI316L
CONTA	GASKET	KLINGRIT
SAPLAMA	STUD	AISI316L
YAYLI RONDELA	SPRING LOCK WASHER	AISI316L
FİERLİ SOMUN	HEX. NYLON NUT	AISI316L



ÖLÇÜLER - DIMENSIONS

	DRIVING (BASINÇ)					SUCTION (EMİŞ)					DISCHARGE (ÇIKIŞ)					L1	L2	L	KG
	DN	øD	øk	øg	ødxn	DN	øD	øk	øg	ødxn	DN	øD	øk	øg	ødxn				
1 1/2" x 2" x 2 1/2"	40	150	110	88	18x4	50	165	125	108	18x4	65	185	145	122	18x4	115	115	580	16
2 1/2" x 2 1/2" x 3"	65	185	145	122	18x4	65	185	145	122	18x4	80	200	160	138	18x8	115	135	730	32
2" x 3" x 3"	50	165	125	102	18x4	80	200	160	138	18x8	80	200	160	138	18x8	115	135	678	32
3" x 4" x 4"	80	200	160	138	18x8	100	220	180	158	18x8	100	220	180	158	18x8	125	142,5	960	48
3" x 3" x 4"	80	200	160	138	18x8	80	200	160	138	18x8	100	220	180	158	18x8	117	142,5	960	46
4" x 5" x 5"	100	220	180	158	18x8	125	250	210	188	18x8	125	250	210	188	18x8	125	165	1070	60
4" x 4" x 5"	100	220	180	158	18x8	100	220	180	158	18x8	125	250	210	188	18x8	125	168	1055	58
5" x 6" x 6"	125	250	210	188	18x8	150	285	240	212	22x8	150	285	240	212	22x8	130	200	1330	85

Hava Fırar Başlığı

Air Vent Pipe Head



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Uygulama Alanları



Denizcilik Uygulamaları

- Yağ Tankları
- Yakıt Tankları
- Balast Tankları
- Tatlı - Pis Su Tankları

Application Areas



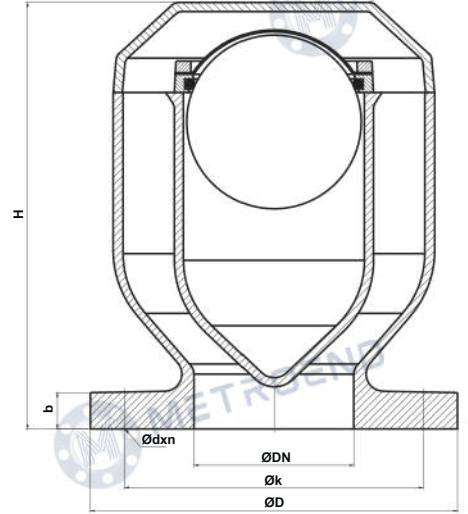
Maritime Applications

- Oil Tanks
- Fuel Tanks
- Ballast Tanks
- Fresh and Waste Water Tanks



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25 / ALUMINIUM
TOP	BALL	P.E.
O-RING FLANŞI	O-RING FLANGE	RG5
O-RING	O-RING	NBR
TEL	STRAINER	AISI316
TEL BASKI FLANŞI	STRAINER FLANGE	RG5
CIVATA	BOLT	AISI316
KAPAK	BONNET	GG25 / ALUMINIUM



ÖLÇÜLER - DIMENSIONS

				PN6		PN10		PN16		5K		10K		KG
DN	ØD	b	H	Øk	Ødxn	Øk	Ødxn	Øk	Ødxn	Øk	Ødxn	Øk	Ødxn	
50	165	20	60	110	14x4	125	18x4	125	18x4	105	15x4	120	19x4	6
65	185	20	15	130	14x4	145	18x4	145	18x4	130	15x4	140	19x4	8
80	200	20	218	150	18x4	160	18x8	160	18x8	145	19x4	150	19x8	10
100	220	22	260	170	18x4	180	18x8	180	18x8	165	19x8	175	19x8	14
125	250	22	305	200	18x8	210	18x8	210	18x8	200	19x8	210	19x8	20
150	285	24	365	225	18x8	240	22x8	240	22x8	230	19x8	240	23x8	28
200	340	26	460	280	18x8	295	22x8	295	22x12	280	23x8	290	23x12	48
250	405	28	570	335	18x12	350	22x12	355	26x12	345	23x12	355	25x12	78
300	460	28	730	395	22x12	400	22x12	410	26x12	390	23x12	400	25x16	143
350	520	30	815	445	22x12	460	22x16	470	26x12	435	25x12	445	25x16	195
400	580	32	846	495	22x16	515	22x16	525	30x16	495	25x16	510	27x16	224



Uygulama Alanları

- Vanaların uzaktan kumandasında 90° açı ile kullanılır.

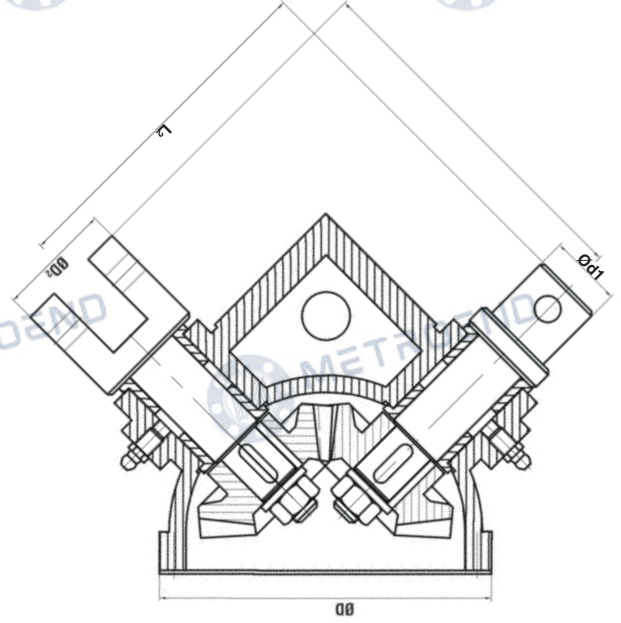
Applications Area

- It is used in remote control of valves at a 90° angle.



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GGG40
ÇATAL MİL	STEM	GGG40
BURÇ	BUSH	RG5
MİL	STEM	SAE 1040
KAPAK	BONNET	ST37
DİŞLİ ÇARK	TAPER GEAR	SAE 1050
KAMA	COTTER	SAE 1040
YAĞDANLIK	GREASE BOX	STEEL



ÖLÇÜLER - DIMENSIONS

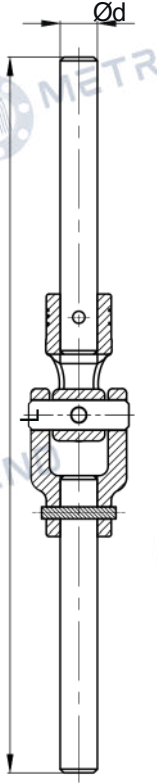
ØD	L1	L2	Ød1	Ød2	KG
140	150	142	30	48	6

Uygulama Alanları

- Vanaların uzaktan kumandasında eksenel güç kayıp ve eksenel kaçıklıkların ortadan kaldırılmasında kullanılmaktadır.

Applications Area

- It is used to eliminate axial power loss and axial misalignment in the remote control of valves.



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	RG5
MİL	STEN	SAE 1040
PİM	PIN	SAE 1040
KÜP	CUBE	BRASS
MERKEZLEME PİMİ	CENTER PIN	AISI304

ÖLÇÜLER - DIMENSIONS

	Ød	L	KG
KÜÇÜK / SMALL	20	375	2,75
BÜYÜK / LARGE	25	435	4,50



Uygulama Alanları

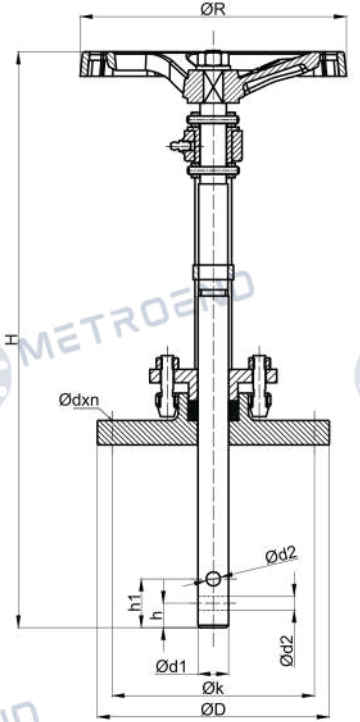
- Güverte altında kalan vanaların uzaktan kumandasında kullanılır.

Applications Area

- It is used for remote control of valves located below deck.

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GG25
MİL	STEN	AISI304
GLEN	GLAND	GGG40
GÖSTERGE	INDICATOR	RG5
SALMASTRA	PACKING	GRAPHITE



ÖLÇÜLER - DIMENSIONS

	ØD	Øk	Ødxn	Ød1	Ød2	h	h1	ØR	H	DOUBLING	KG
KÜÇÜK / SMALL	190	150	18x4	25	11,5	20	40	200	500	DN80 PN6	14
ORTA / MEDIUM	190	150	18x4	25	11,5	20	40	200	600	DN80 PN6	17
BÜYÜK / BIG	240	200	18x8	35	11,5	40	100	250	790	DN125 PN6	33

Rot Başlı Kumanda Kolu

Rod Head Remote Control



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Uygulama Alanları

- Güverte altında kalan vanaların uzaktan kumandasında kullanılır.

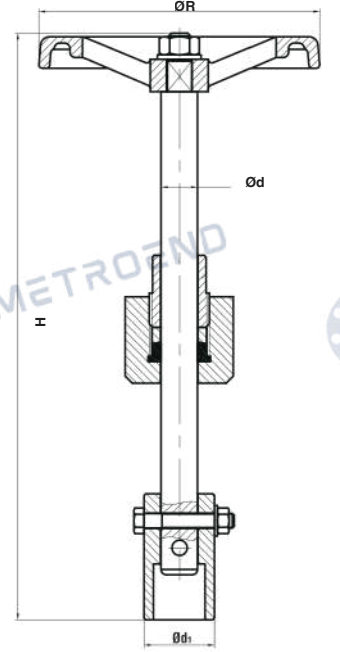
Applications Area

- It is used for remote control of valves located below deck.



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
MİL	STEM	AISI304
YATAK	BEARING	BRASS
SALMASTRA	PACKING	GRAPHITE
HENDİL	HANDWHEEL	GG25



ÖLÇÜLER - DIMENSIONS

Ød	Ød1	ØR	H	KG
20	39	160	325	3



Uygulama Alanları

- Güverte bağlantılı tüm tankların üst kısmında ölçüm yapabilmek için kullanılmaktadır.

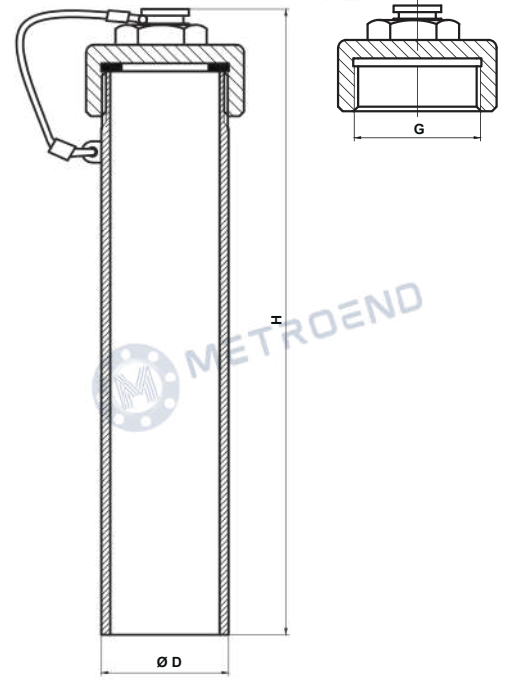
Applications Area

- It is used to take measurements on the upper part of all tanks with deck connections.



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
BORU	PIPE	ST42 GALVANISED
TAPA	PLUG	BRASS
CONTA	GASKET	NBR
TEL	WIRE	AISI304



ÖLÇÜLER - DIMENSIONS

NPS	ØD	H	G	G1	KG
1 1/2"	48,3	220	1 1/2"	2"	1,5
2"	60,3	220	2"	2 1/2"	1,8
2 1/2"	76,1	220	2 1/2"		2,4
3"	88,9	220	3"		4

Gömmе Tip İskandil Tapası

Flush Type Sounding Plug



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Uygulama Alanları

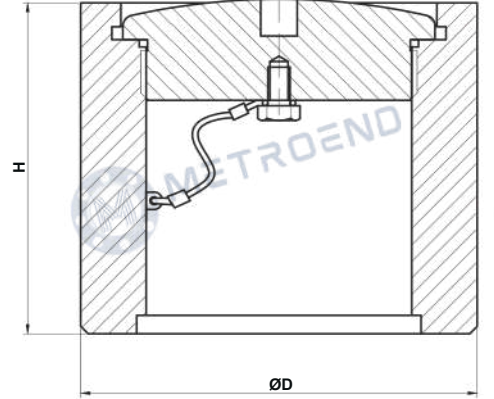
- Güverte bağlantılı tüm tankların üst kısmında ölçüm yapabilmek için kullanılmaktadır.

Applications Area

- It is used to take measurements on the upper part of all tanks with deck connections.

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
BORU	PIPE	ST42 / AISI304 / AISI316
TAPA	PLUG	BRASS
CIVATA	BOLT	AISI304
ZİNCİR	CHAIN	AISI304



ÖLÇÜLER - DIMENSIONS

NPS	ØD	H	KG
1 1/4"	70	90	2
1 1/2"	76	90	2,5
2"	89	90	3
2 1/2"	108	90	4,5
3"	127	90	6,5
4"	152	90	8



Uygulama Alanları

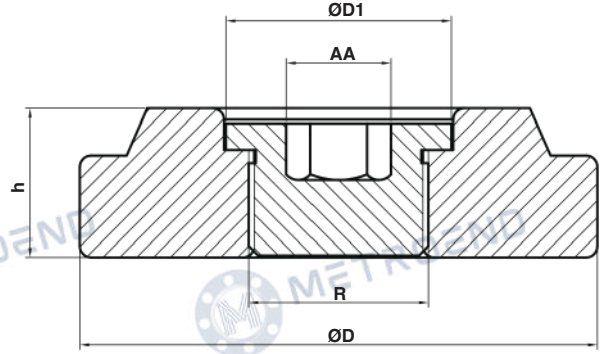
- Deniz araçları bakıma alındığında, tanklardaki suyun güvenli şekilde tahliye edilmesinde kullanılır.

Applications Area

- It is used to safely drain water from tanks when marine vessels are taken for maintenance.

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	SAE 1040
TAPA	PLUG	AISI316



ÖLÇÜLER - DIMENSIONS

ØD	ØD1	h	AA	R	KG
100	60	40	25	1 1/2"	2
140	60	40	25	1 1/2"	3,65
160	60	40	25	1 1/2"	5,40
180	70	40	25	2"	6
200	70	40	25	2"	8

Paslanmaz İskandil Tapası

Stainless Steel Sounding Plug



METROEND

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Uygulama Alanları

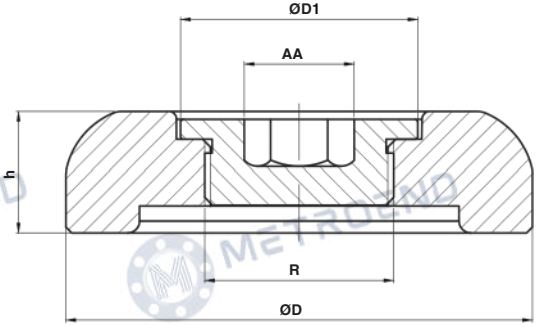
- Deniz araçları bakıma alındığında, tanklardaki suyun güvenli şekilde tahliye edilmesinde kullanılır.

Applications Area

- It is used to safely drain water from tanks when marine vessels are taken for maintenance.

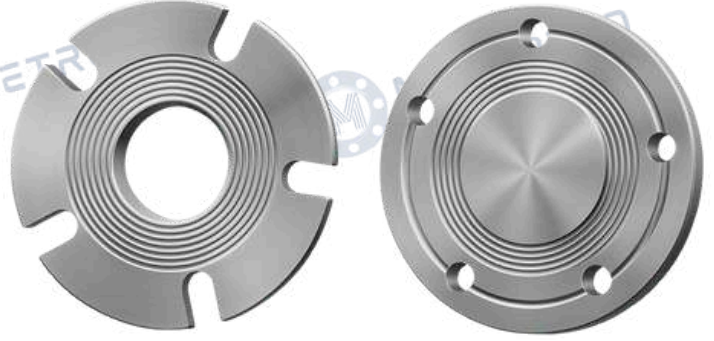
MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	SAE 1040
TAPA	PLUG	AISI316



ÖLÇÜLER - DIMENSIONS

ØD	ØD1	h	AA	R	KG
120	60	30	25	1 1/2"	2
120	70	30	25	2"	2

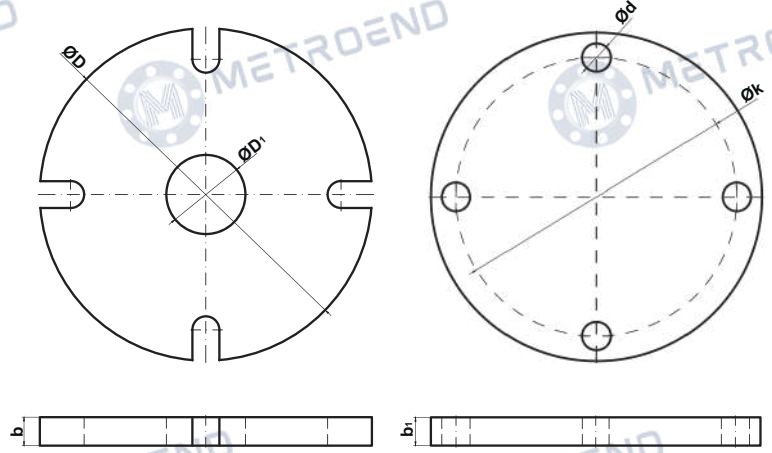


Uygulama Alanları

Beynelminel flanş, uluslararası standartlara uygun olarak üretilen ve farklı sistemler arasında uyumlu boru bağlantısı sağlayan bir bağlantı elemanıdır.

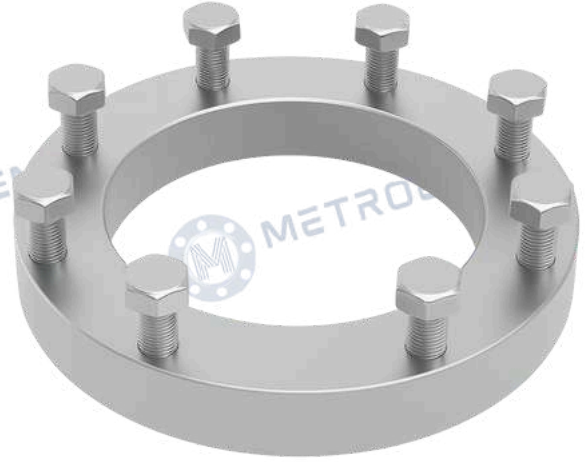
Applications Area

The International flange is a connecting element that is produced in accordance with international standards and provides compatible pipe connections between different systems.



ÖLÇÜLER - DIMENSIONS

TYPE	ØD	ØD1	Øk	Ød	b	b1	n	KG
PİS SU / DIRTY WATER	210	50	170	18	16	16	4	8
MAZOT / DIESEL OIL	215	50	178	18	18	18	4	9,5
KİRLİ YAĞ / DIRTY OIL	215	50	183	22	20	18	6	9,5
TATLI SU / FRESH WATER	185	50	145	18	18	18	5	7
YANGIN / FIRE	178	50	132	19	18	18	4	6

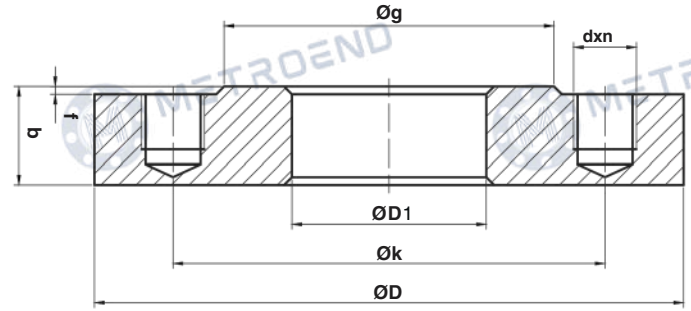


Uygulama Alanları

Flanşlı vanaların sac konstrüksiyonlara güvenli şekilde monte edilmesinde dablin flanş tercih edilir.

Applications Area

Doubling flanges are preferred for the safe installation of flanged valves on sheet metal constructions.



ÖLÇÜLER - DIMENSIONS

		PN6								PN10								PN16							
DN	NPS	ØD	ØD1	Øg	Øk	b	f	Ødxn	ØD	ØD1	Øg	Øk	b	f	Ødxn	ØD	ØD1	Øg	Øk	b	f	Ødxn			
15	1/2"	80	22	40	55	22	2	10x4	95	22	45	65	28	2	12x4	95	22	45	65	28	2	12x4			
20	3/4"	90	27,5	50	65	22	2	10x4	105	27,5	58	75	28	2	12x4	105	27,5	58	75	28	2	12x4			
25	1"	100	34,5	60	75	22	2	10x4	115	34,5	68	85	28	2	12x4	115	34,5	68	85	28	2	12x4			
32	1 1/4"	120	43,5	70	90	25	2	12x4	140	43,5	78	100	33	2	16x4	140	43,5	78	100	33	2	16x4			
40	1 1/2"	130	49,5	80	100	25	3	12x4	150	49,5	88	110	33	3	16x4	150	49,5	88	110	33	3	16x4			
50	2"	140	61,5	90	110	25	3	12x4	165	61,5	102	125	33	3	16x4	165	61,5	102	125	33	3	16x4			
65	2 1/2"	160	77,5	110	130	25	3	12x4	185	77,5	122	145	33	3	16x4	185	77,5	122	145	33	3	16x4			
80	3"	190	90,5	128	150	28	3	16x4	200	90,5	138	160	33	3	16x8	200	90,5	138	160	33	3	16x8			
100	4"	210	116	148	170	28	3	16x4	220	116	158	180	33	3	16x8	220	116	158	180	33	3	16x8			
125	5"	240	141,5	178	200	28	3	16x8	250	141,5	188	210	33	3	16x8	250	141,5	188	210	33	3	16x8			
150	6"	265	170,5	202	225	28	3	16x8	285	170,5	212	240	38	3	20x8	285	170,5	212	240	38	3	20x8			
175	7"	-	-	-	-	-	-	-	315	195	242	270	38	3	20x8	315	195	242	270	38	3	20x8			
200	8"	320	221,5	258	280	30	3	16x8	340	221,5	268	295	38	3	20x8	340	221,5	268	295	38	3	20x12			
250	10"	375	276,5	312	335	30	3	20x12	395	276,5	320	350	44	3	20x12	405	276,5	320	355	44	3	24x12			
300	12"	440	327,5	365	395	32	4	20x12	445	327,5	370	400	44	4	20x12	460	327,5	370	410	44	4	24x12			
350	14"	490	359,5	415	445	32	4	20x12	505	359,5	430	460	44	4	20x16	520	359,5	430	470	44	4	24x16			
400	16"	540	411	465	495	32	4	20x16	565	411	482	515	49	4	24x16	580	411	482	525	49	4	28x16			



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Boru Baęlama Kaplini Pipe Coupling

Uygulama Alanları

Denizcilik Uygulamaları

- Balast Devresi
- Yangın Devresi
- Elektrik Kablo Devresi

Application Areas

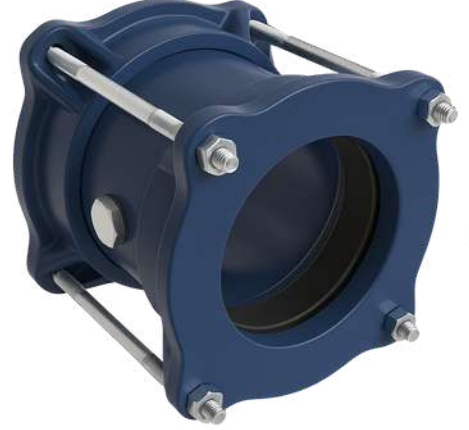
Maritime Applications

- Ballast System
- Fire System
- Electrical Wiring System



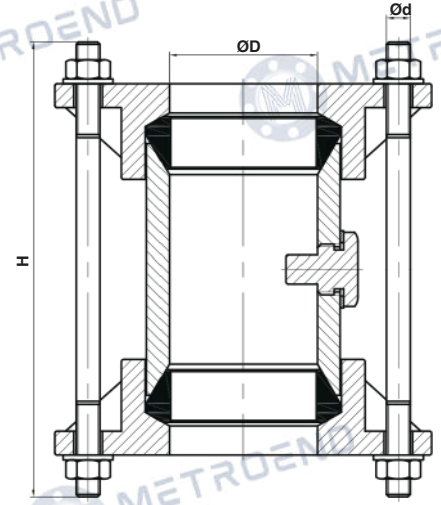
Çalışma Basıncı
Working Pressure

PN16



MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	GGG40
BORU	PIPE	ST42
PUL	WASHER	COPPER
TAPA	PLUG	AISI316
CONTA	GASKET	NBR
SAPLAMA	STUD	6.8 STEEL
SOMUN & PUL	NUT & WASHER	5.2 STEEL



ÖLÇÜLER - DIMENSIONS

DN	PN	ØD	H	Ødxn	KG
50	16	62	190	M10x4	5,50
65	16	79	190	M10x4	7,50
80	16	91	190	M10x4	7,90
100	16	117	190	M10x4	9,00
125	16	144	190	M10x6	12,00
150	16	171	210	M12x6	15,00
200	16	222	210	M12x8	20,00
250	16	276	220	M14x8	27,00
300	16	327	240	M14x10	32,00
350	6	360	290	M16x10	45,00
400	6	411	300	M18x10	-
450	6	461	300	M18x10	-
500	6	515	300	M18x10	-

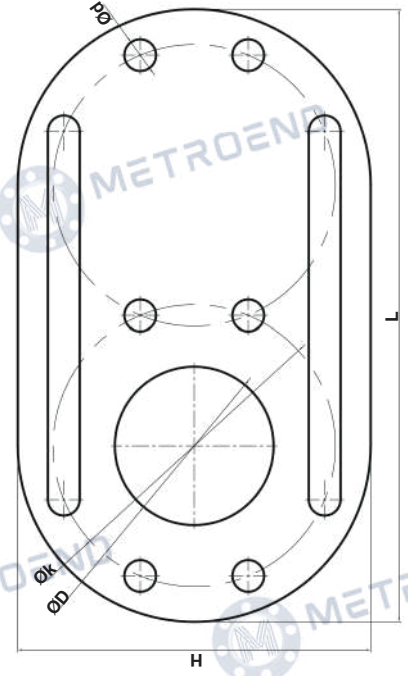
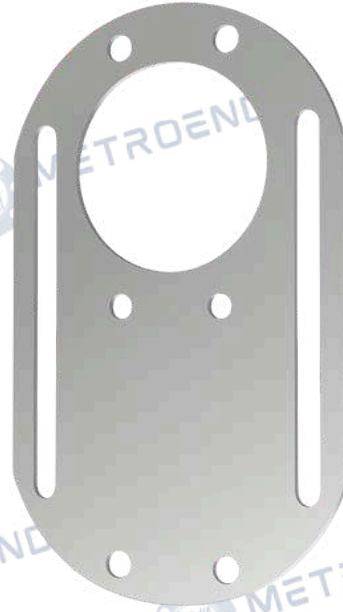
Spectacle Flanş

Spectacle Flange



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Uygulama Alanları

Spectacle flanş, bakım ve test işlemleri sırasında boru hattını güvenli şekilde izole etmek için kullanılan iki parçalı körleme ekipmanıdır.

Applications Area

The spectacle flange is a two-piece blanking device used to safely isolate pipelines during maintenance and testing operations.

ÖLÇÜLER - DIMENSIONS

DN	NPS	H	L	ØD	Ød	Øk	t	KG
15	1/2"	95	140	22	14	65	3	0,20
20	3/4"	105	158	28	14	75	3	0,25
25	1"	115	175	34,5	14	85	3	0,30
32	1 1/4"	140	211	44	18	100	3	0,45
40	1 1/2"	150	228	49,5	18	110	3	0,50
50	2"	165	253	61,5	18	125	3	0,60
65	2 1/2"	185	286	78	18	145	3	0,80
80	3"	200	348	90	18	160	3	1,05
100	4"	220	386	116	18	180	3	1,25
125	5"	250	444	142	18	210	3	1,65
150	6"	285	507	170	18	240	3	2,50
200	8"	340	625	222	22	295	3	2,95
250	10"	405	748	276	22	355	3	4,15
300	12"	460	856	328	26	410	3	5,20



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Glob Vana Class 150 - 300 - 600 Globe Valve Class 150 - 300 - 600

Uygulama Alanları

- Gıda
- Kimya - Petrokimya
- Enerji Santralleri
- Madencilik Uygulamaları

Application Areas

- Food
- Chemical - Petrochemical
- Power Plants
- Mining Applications



Çalışma Basıncı
Working Pressure



Bağlantılar
Connections
ANSI B16.5

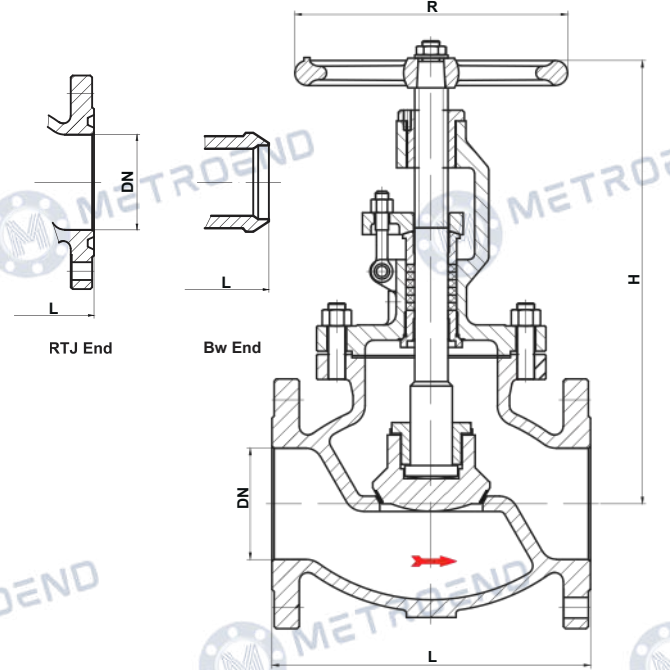


Çalışma Sıcaklığı
Working Temperature
-30°C / +425°C

Rating	Material	Min. Temperature / Max. Pressure
Class 150	WCB	-29° to 38° C / 19.6 Bar
Class 300	WCB	-29° to 38° C / 51.1 Bar
Class 600	WCB	-29° to 38° C / 102.1 Bar

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	ASTM A216+WCB+13Cr
DİSK	DISC	ASTM A105+13Cr
MİL	STEM	ASTM A105+13Cr
KAPAK CIVATASI	BONNET BOLT	ASTM A193 B7
KAPAK SOMUNU	BONNET NUT	ASTM A194 2H
CONTA	GASKET	AISI 304+GRAPHITE
ALT SİT BURCU	BACK SEAT BUSHING	ASTM A182 F6a
KAPAK	BONNET	ASTM A216 WCB
SALMASTRA	PACKING	GRAPHITE
PİM	PIN	ASTM A276 410
GLEN	GLAND	ASTM A182 F6a
HENDİL	HANDWHEEL	DUCTILE IRON
HENDİL SOMUNU	HANDWHEEL NUT	AISI 1020



ÖLÇÜLER - DIMENSIONS

DN	CLASS 150						CLASS 300						CLASS 600					
	H	R	L			KG	H	R	L			KG	H	R	L			KG
			RF	RTJ	BW				RF	RTJ	BW				RF	RTJ	BW	
15	182	100	108	119	108	4	185	100	152	164	152	5	-	-	-	-	-	-
20	193	100	117	130	117	6	195	100	178	191	178	7	-	-	-	-	-	-
25	217	100	127	140	127	8	220	135	203	216	203	10	-	-	-	-	-	-
32	235	135	140	152	140	12	240	135	216	229	216	14	-	-	-	-	-	-
40	258	135	165	178	165	16	260	160	229	241	229	19	-	-	-	-	-	-
50	330	200	203	216	203	25	385	200	268	283	267	25	360	250	292	295	292	32
65	360	250	216	229	216	42	420	200	292	308	292	42	410	280	330	333	330	42
80	390	280	241	254	241	46	440	280	318	333	318	46	465	300	356	359	356	63
100	445	300	292	305	292	74	515	350	356	371	356	74	545	400	432	435	432	107
125	480	350	356	369	356	111	580	350	400	416	400	111	625	500	508	511	508	185
150	520	350	406	419	406	165	660	400	444	460	444	165	785	550	559	562	559	290
200	600	400	495	508	495	275	900	550	559	575	559	275	930	650	660	664	660	540
250	773	450	622	635	622	400	950	600	622	638	622	400	-	-	-	-	-	-
300	880	500	698	711	698	624	1030	700	711	727	711	624	-	-	-	-	-	-

Sürgülü Vana Class 150 - 300 - 600

Gate Valve Class 150 - 300 - 600



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Uygulama Alanları

- Gıda
- Kimya - Petrokimya
- Enerji Santralleri
- Madencilik Uygulamaları

Application Areas

- Food
- Chemical - Petrochemical
- Power Plants
- Mining Applications

Çalışma Basıncı
Working Pressure

Bağlantılar
Connections
ANSI B16.5

Çalışma Sıcaklığı
Working Temperature
-30°C / +425°C

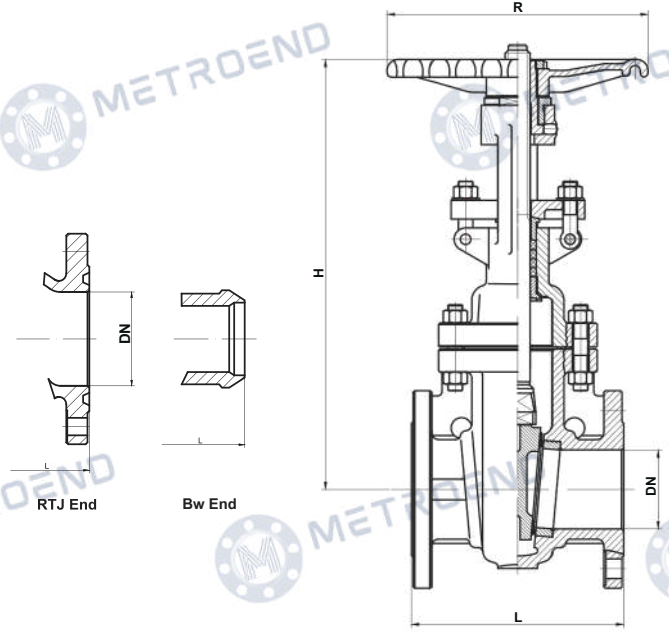
Rating	Material	Min. Temperature / Max. Pressure
Class 150	WCB	-29° to 38° C / 19.6 Bar
Class 300	WCB	-29° to 38° C / 51.1 Bar
Class 600	WCB	-29° to 38° C / 102.1 Bar

MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	ASTM A216+WCB+13Cr
DİSK	DISC	ASTM A105+13Cr
MİL	STEM	ASTM A105+13Cr
KAPAK CIVATASI	BONNET BOLT	ASTM A193 B7
KAPAK SOMUNU	BONNET NUT	ASTM A194 2H
CONTA	GASKET	AISI 304+GRAPHITE
ALT SİT BURCU	BACK SEAT BUSHING	ASTM A182 F6a
KAPAK	BONNET	ASTM A216 WCB
SALMASTRA	PACKING	GRAPHITE
PİM	PIN	ASTM A276 410
GLEN	GLAND	ASTM A182 F6a
HENDİL	HANDWHEEL	DUCTILE IRON
HENDİL SOMUNU	HANDWHEEL NUT	AISI 1020

ÖLÇÜLER - DIMENSIONS

DN	CLASS 150						CLASS 300						CLASS 600					
	H	R	L			KG	H	R	L			KG	H	R	L			KG
			RF	RTJ	BW				RF	RTJ	BW				RF	RTJ	BW	
15	195	120	108	119	108	4	198	120	140	151	140		-	-	-	-	-	
20	210	120	117	130	117	5	215	140	152	165	152		-	-	-	-	-	
25	240	140	127	140	127	7	245	160	165	178	165		-	-	-	-	-	
32	300	180	140	153	140	10	306	180	178	191	178		-	-	-	-	-	
40	395	200	165	178	165	14	400	200	190	203	190		-	-	-	-	-	
50	400	200	178	191	216	19	420	200	216	232	216		444	200	292	295	292	32
65	435	200	191	203	241	25	446	200	241	257	241		500	250	330	333	330	52
80	515	250	203	216	283	33	537	250	283	298	283		558	280	356	359	356	60
100	595	280	229	241	305	49	619	280	305	321	305		665	300	432	435	432	107
125	725	280	254	267	381	62	722	300	381	397	381		760	350	508	511	508	175
150	780	300	267	279	403	77	806	350	403	419	403		868	450	559	562	559	216
200	975	350	292	305	419	123	100	400	419	435	419		1073	500	660	664	660	399
250	1150	400	330	343	457	188	1240	450	457	473	457		1263	650	787	791	787	605
300	1380	450	356	368	502	288	1425	500	502	518	502		1600	700	838	841	838	851





METROEND

Küresel Vana Class 150 - 300 - 600 Ball Valve Class 150 - 300 - 600

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Uygulama Alanları

- Gıda
- Kimya - Petrokimya
- Enerji Santralleri
- Madencilik Uygulamaları

Application Areas

- Food
- Chemical - Petrochemical
- Power Plants
- Mining Applications



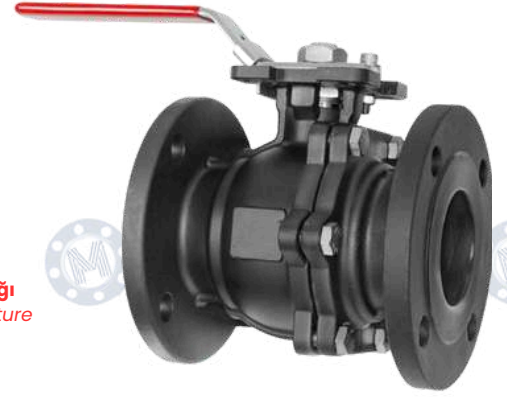
Çalışma Basıncı
Working Pressure



Bağlantılar
Connections
ANSI B16.5



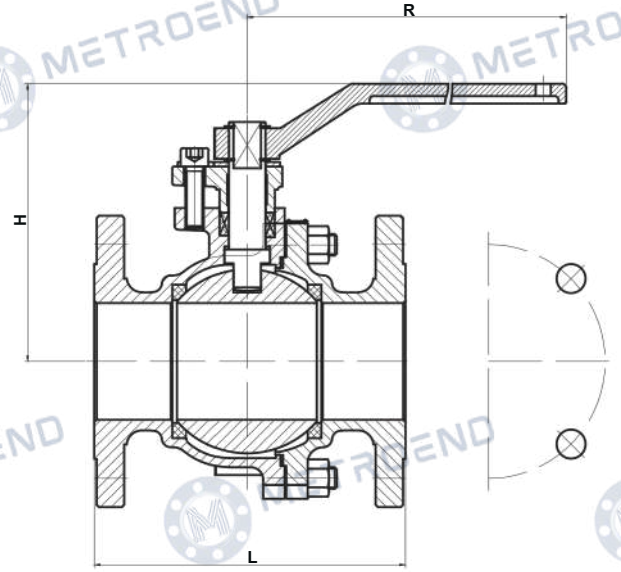
Çalışma Sıcaklığı
Working Temperature
-30°C / +425°C



Rating	Material	Min. Temperature / Max. Pressure
Class 150	WCB	-29° to 38° C / 19.6 Bar
Class 300	WCB	-29° to 38° C / 51.1 Bar
Class 600	WCB	-29° to 38° C / 102.1 Bar

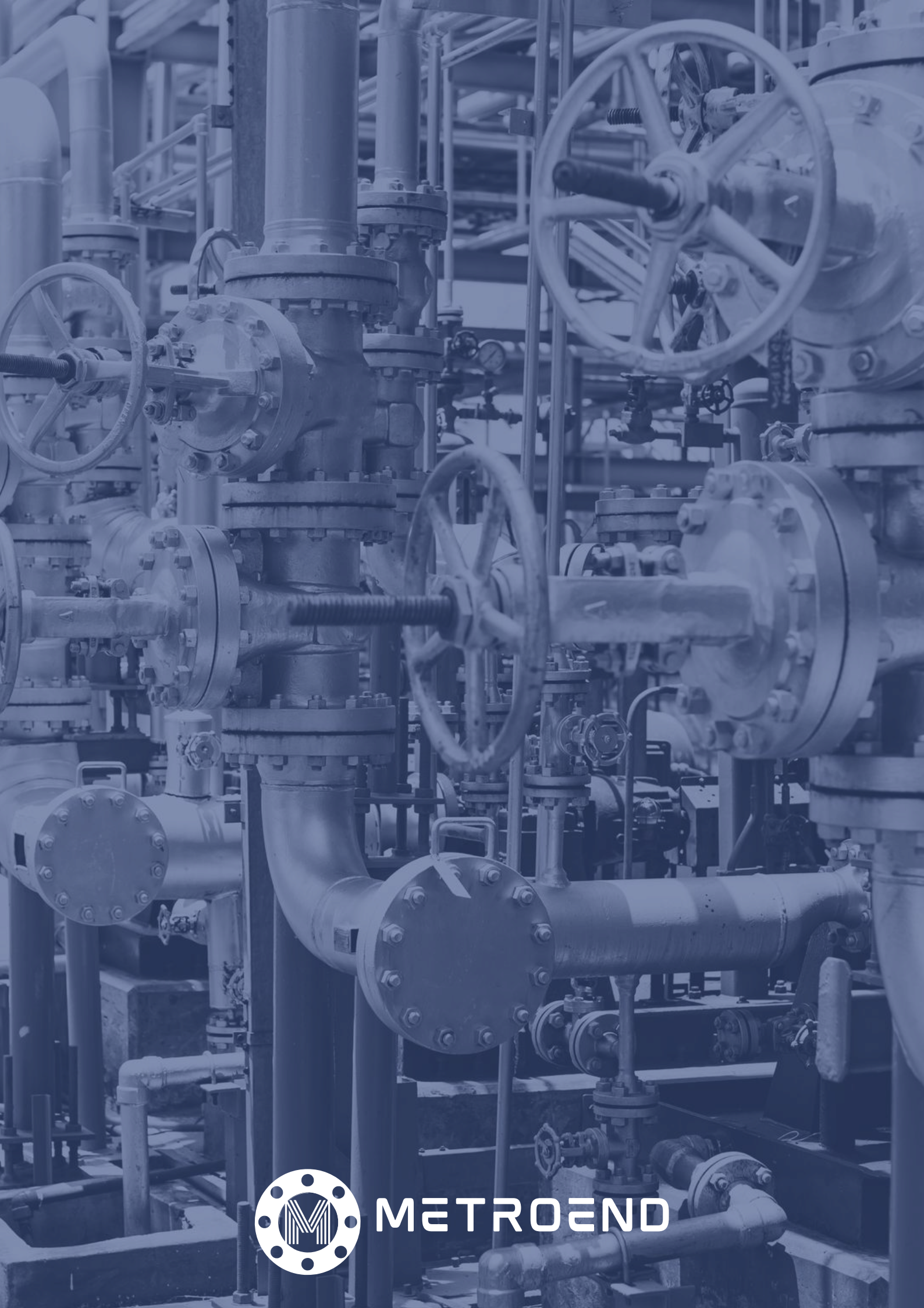
MALZEME ÖZELLİKLERİ - MATERIAL SPECIFICATIONS

PARÇA ADI	PART NAME	MATERIAL
GÖVDE	BODY	ASTM A216 WCB
KAPAK	BONNET	ASTM A216 WCB
CIVATA	BOLT	ASTM A193 B7
SOMUN	NUT	ASTM A194 2H
KÜRE	BALL	ASTM A105+ENP
SİT	SEAT	PTFE
MİL	STEM	STM A182 F6a
SIZDIRMAZLIK	SEALING SEAT	PTFE
SALMASTRA	PACKING	PTFE
YATAK	PLAIN BEARING	PTFE
GLEN	GLAND	ASTM A216 WCB
CIVATA	BOLT	STM 194 B7
CONTA	GASKET	GRAPHITE+AI3104

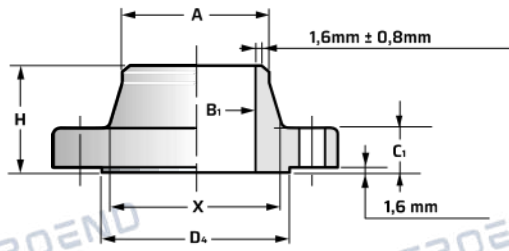
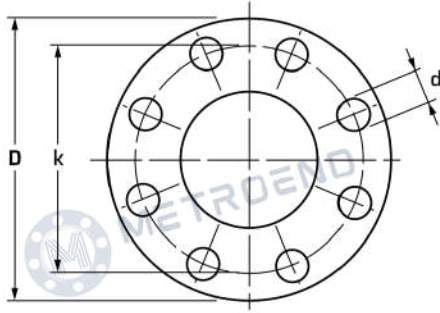


ÖLÇÜLER - DIMENSIONS

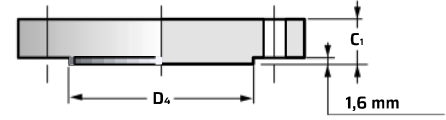
DN	CLASS 150				CLASS 300				CLASS 600			
	H	R	L	KG	H	R	L	KG	H	R	L	KG
15	84	130	108	2,5	84	130	140	3	61,5	130	165	4
20	88	130	117	3	88	130	152	3,8	61,5	160	190	5
25	95	140	127	3,6	95	140	165	5,2	78	200	216	7
40	130	250	165	7	130	250	191	11	101	350	241	14
50	160	250	178	10	160	250	216	14,5	120	400	292	18
65	185	400	190	15	185	400	241	24	174	500	330	30
80	210	400	203	20	210	400	283	31	212	600	356	38
100	220	450	229	30	220	450	305	47	234	600	432	80
125	295	450	356	60	295	450	381	70	-	-	-	-
150	335	1500	394	75	335	1500	403	90	289	800	559	105



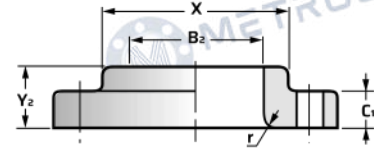
METROEND



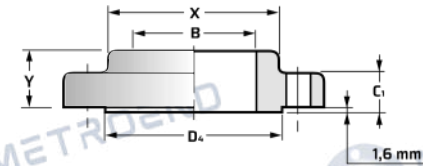
KAYNAK BOYUNLU
WELDING NECK



KÖR / BLIND



SERBEST / LAPPED



DÜZ / SLIP ON

B: Siparişte belirtilmelidir.
B: To be specified by purchaser.

ÖLÇÜ SIZE											Kaynak Boyunlu Welding Neck		Serbest Lapped		
		D	C ₁	D ₄	Delik / Drilling			B _{min}	X	Y	A	H	B _{2 min}	Y ₂	r
DN	NPS	mm	mm	mm	Sayı Number	k mm	d mm	mm	mm	mm	mm	mm	mm	mm	mm
15	½	89	11,2	34,9	4	60,3	15,8	22,4	30	16	21,3	48	22,9	16	3
20	¾	99	12,7	42,9	4	69,8	15,8	27,7	38	16	26,7	52	28,2	16	3
25	1	108	14,3	50,8	4	79,4	15,8	34,5	49	17	33,4	56	35,0	17	3
32	1 ¼	117	15,7	63,5	4	88,9	15,8	43,2	59	21	42,2	57	43,7	21	5
40	1 ½	127	17,5	73,0	4	98,4	15,8	49,5	65	22	48,3	62	50,0	22	6
50	2	152	19,1	92,1	4	120,6	19,0	62,0	78	25	60,3	63	62,5	25	8
65	2 ½	178	22,3	104,8	4	139,7	19,0	74,7	90	29	73,0	70	75,4	29	8
80	3	190	23,9	127,0	4	152,4	19,0	90,7	108	30	88,9	70	91,4	30	10
-	3 ½	216	23,9	139,7	8	177,8	19,0	103,4	122	32	101,6	71	104,1	32	11
100	4	229	23,9	157,2	8	190,5	19,0	116,1	135	33	114,3	76	116,8	33	11
125	5	254	23,9	185,7	8	215,9	22,2	143,8	164	37	141,3	89	144,5	37	11
150	6	279	25,4	215,9	8	241,3	22,2	170,7	192	40	168,3	89	171,4	40	13
200	8	343	28,5	269,9	8	298,4	22,2	221,5	246	44	219,1	102	222,2	44	13
250	10	406	30,2	323,8	12	362,0	25,4	276,4	305	49	273,0	102	277,4	49	13
300	12	483	31,8	381,0	12	431,8	25,4	327,2	365	56	323,9	114	328,2	56	13
350	14	533	35,0	412,8	12	476,2	28,5	359,2	400	57	355,6	127	360,2	79	13
400	16	597	36,6	469,9	16	539,8	28,5	410,5	457	63	406,4	127	411,2	87	13
450	18	635	39,7	533,4	16	577,8	31,8	461,8	505	68	457,0	140	462,3	97	13
500	20	698	42,9	584,2	20	635,0	31,8	513,1	559	73	508,0	144	514,4	103	13
600	24	813	47,7	692,2	20	749,3	35,0	616,0	664	83	610,0	152	616,0	111	13

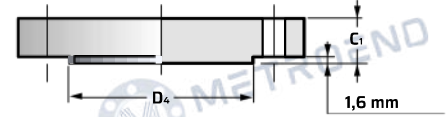
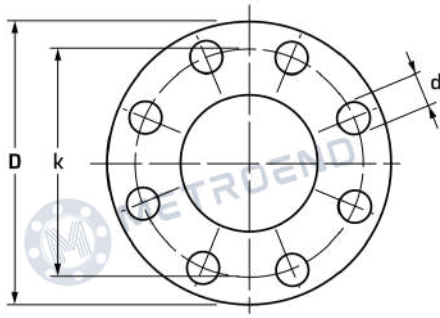
Malzeme : Karbon çelik / Paslanmaz çelik / Bakır nikel.
Material : Carbon steel / Stainless steel / Copper nickel.

Class 150 Flanş
Class 150 Flanges
ASME B 16.47-Serie A

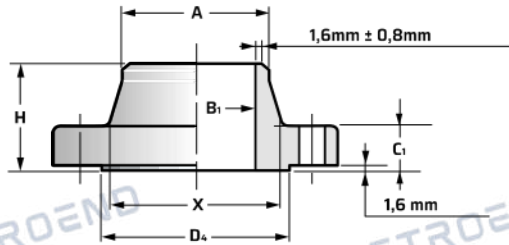


METROEND

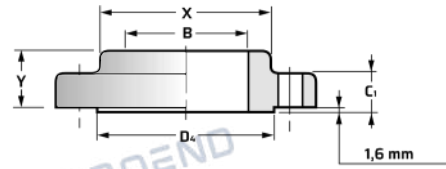
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KÖR / BLIND



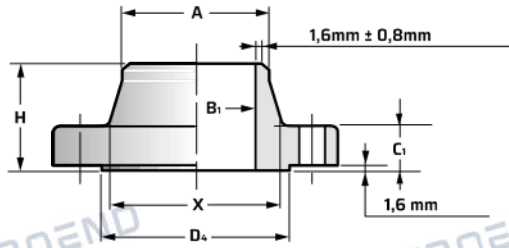
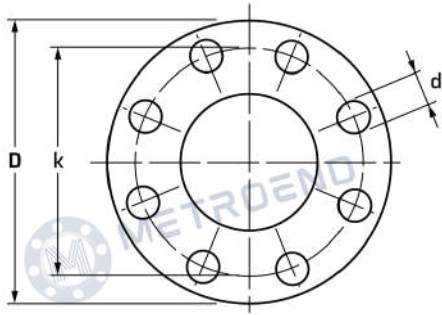
KAYNAK BOYUNLU
WELDING NECK



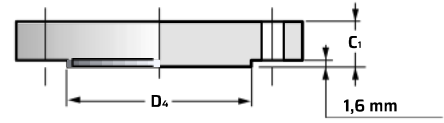
DÜZ / SLIP ON

B: Siparişte belirtilmelidir.
B: To be specified by purchaser.

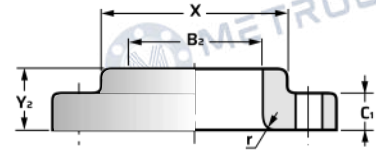
ÖLÇÜ SIZE												
		D	C ₁	D ₄	Delik / Drilling			B min	X	Y	A	H
DN	NPS	mm	mm	mm	Sayı Number	k mm	d mm	mm	mm	mm	mm	mm
650	26	869,9	50,8	742,9	24	806,4	34,9	666,7	723,9	85,7	660,4	127,0
700	28	927,1	52,4	793,7	28	863,6	34,9	717,5	781,0	87,3	711,2	128,6
750	30	984,2	54,0	857,0	28	914,4	34,9	768,3	831,8	88,9	762,0	130,2
800	32	1060,4	57,1	908,0	28	977,9	41,3	819,1	889,0	92,1	812,8	133,3
850	34	1111,2	58,7	958,8	32	1028,7	41,3	869,9	939,8	93,7	863,6	134,9
900	36	1168,4	60,3	1022,3	32	1085,8	41,3	920,7	996,9	95,2	914,4	136,5
950	38	1238,2	60,3	1073,1	32	1149,3	41,3	971,5	1060,4	95,2	965,2	136,5
1000	40	1289,0	63,5	1123,9	36	1200,1	41,3	1022,3	1111,2	98,4	1016,0	139,7
1050	42	1346,2	66,7	1193,8	36	1257,3	41,3	1073,1	1168,4	101,6	1066,8	142,9
1100	44	1403,3	66,7	1244,6	40	1314,4	41,3	1123,9	1219,2	101,6	1117,4	142,9
1150	46	1454,1	68,3	1295,4	40	1365,2	41,3	1174,7	1270,0	103,2	1168,4	144,5
1200	48	1511,3	69,8	1358,9	44	1422,4	41,3	1225,5	1327,1	104,8	1219,2	146,0
1250	50	1568,5	-	-	44	1479,5	47,7	-	-	-	-	-
1300	52	1625,6	-	-	44	1536,7	47,7	-	-	-	-	-
1350	54	1682,8	-	-	44	1593,8	47,7	-	-	-	-	-
1400	56	1746,3	-	-	48	1651,0	47,7	-	-	-	-	-
1450	58	1803,4	-	-	48	1708,1	47,7	-	-	-	-	-
1500	60	1854,2	-	-	52	1758,9	47,7	-	-	-	-	-



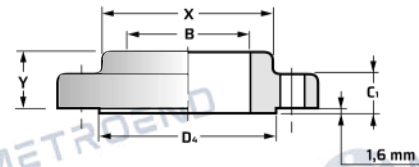
KAYNAK BOYUNLU
WELDING NECK



KÖR / BLIND



SERBEST / LAPPED



DÜZ / SLIP ON

B: Siparişte belirtilmelidir.
B: To be specified by purchaser.

ÖLÇÜ SIZE											Kaynak Boyunlu Welding Neck		Serbest Lapped		
		D	C ₁	D ₄	Delik / Drilling			B _{min}	X	Y	A	H	B _{2 min}	Y ₂	r
DN	NPS	mm	mm	mm	Sayı Number	k mm	d mm	mm	mm	mm	mm	mm	mm	mm	mm
15	½	95	14.2	34.9	4	66.7	15.8	22.4	38	22	21.3	52	22.9	22	3
20	¾	117	15.7	42.9	4	82.6	19.0	27.7	48	25	26.7	57	28.2	25	3
25	1	124	17.5	50.8	4	88.9	19.0	34.5	54	27	33.4	62	35.0	27	3
32	1 ¼	133	19.0	63.5	4	98.4	19.0	43.2	63	27	42.2	65	43.7	27	5
40	1 ½	156	20.6	73.0	4	114.3	22.2	49.5	70	30	48.3	68	50.0	30	6
50	2	165	22.4	92.1	8	127.0	19.0	62.0	84	33	60.3	70	62.5	33	8
65	2 ½	190	25.4	104.8	8	149.2	22.2	74.7	100	38	73.0	76	75.4	38	8
80	3	210	28.4	127.0	8	168.3	22.2	90.7	117	43	88.9	79	91.4	43	10
-	3 ½	229	30.2	139.7	8	184.1	22.2	103.4	133	44	101.6	81	104.1	44	10
100	4	254	31.8	157.2	8	200.0	22.2	116.1	146	48	114.3	86	116.8	48	11
125	5	279	35.0	185.7	8	235.0	22.2	143.8	178	51	141.3	98	144.5	51	11
150	6	318	36.6	215.9	12	269.9	22.2	170.7	206	52	168.3	98	171.4	52	13
200	8	381	41.1	269.9	12	330.2	25.4	221.5	260	62	219.1	111	222.2	62	13
250	10	444	47.8	323.8	16	387.4	28.5	276.4	320	66	273.0	117	277.4	95	13
300	12	521	50.8	381.0	16	450.8	31.8	327.2	375	73	323.9	130	328.2	102	13
350	14	584	53.8	412.8	20	514.4	31.8	359.2	425	76	355.6	143	360.2	111	13
400	16	648	57.2	469.9	20	571.5	35.0	410.5	483	83	406.4	146	411.2	121	13
450	18	711	60.5	533.4	24	628.6	35.0	461.8	533	89	457.0	159	462.3	130	13
500	20	775	63.5	584.2	24	685.8	35.0	513.1	587	95	508.0	162	514.4	140	13
600	24	914	69.9	692.2	24	812.8	41.1	616.0	701	106	610.0	168	616.0	152	13

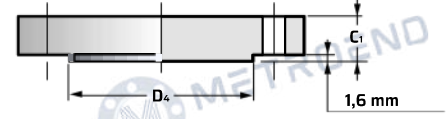
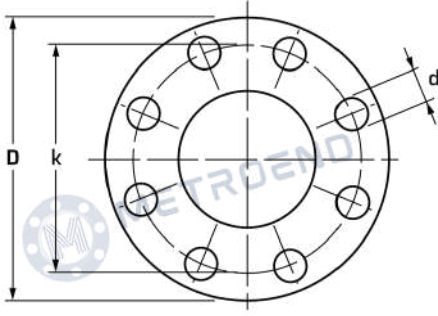
Malzeme : Karbon çelik / Paslanmaz çelik / Bakır nikel.
Material : Carbon steel / Stainless steel / Copper nickel.

Class 300 Flanş
Class 300 Flanges
ASME B 16.47-Serie A

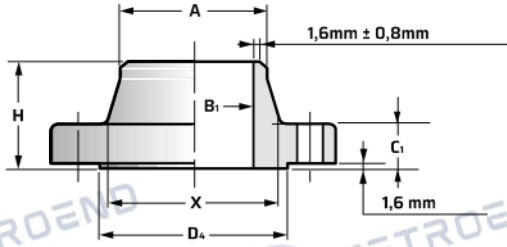


METROEND

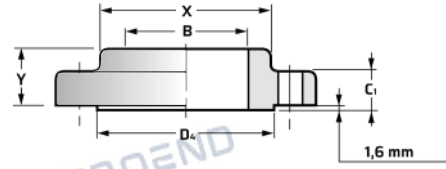
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KÖR / BLIND



KAYNAK BOYUNLU
WELDING NECK

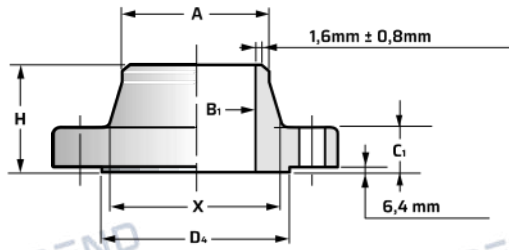
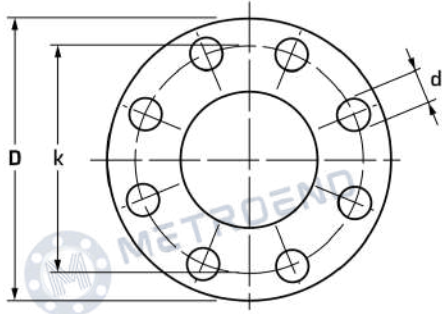


DÜZ / SLIP ON

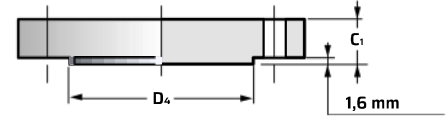
B: Siparişte belirtilmelidir.
B: To be specified by purchaser.

ÖLÇÜ SIZE												
		D	C ₁	D ₄	Delik / Drilling			B min	X	Y	A	H
DN	NPS	mm	mm	mm	Sayı Number	k mm	d mm	mm	mm	mm	mm	mm
650	26	971,5	79,4	749,3	28	876,3	44,4	666,7	720,7	184,1	666,7	184,1
700	28	1035,0	85,7	800,1	28	939,8	44,4	717,5	774,7	196,8	717,5	196,8
750	30	1092,2	92,1	857,2	28	996,9	47,8	768,3	827,1	209,5	768,3	209,5
800	32	1149,3	98,4	914,4	28	1054,1	50,8	819,1	881,1	222,2	819,1	222,2
850	34	1206,5	101,6	965,2	28	1104,9	50,8	869,9	936,6	231,8	871,6	231,8
900	36	1270,0	104,8	1022,3	32	1168,4	53,8	920,7	990,6	241,3	922,4	241,3
950	38	1168,4	-	-	32	1092,2	41,1	-	-	-	-	-
1000	40	1238,2	-	-	32	1155,7	44,4	-	-	-	-	-
1050	42	1289,0	-	-	32	1206,5	44,4	-	-	-	-	-
1100	44	1352,5	-	-	32	1263,6	47,8	-	-	-	-	-
1150	46	1416,0	-	-	28	1320,8	50,8	-	-	-	-	-
1200	48	1466,8	-	-	32	1371,6	50,8	-	-	-	-	-
1250	50	1530,3	-	-	32	1428,8	53,8	-	-	-	-	-
1300	52	1581,1	-	-	32	1479,6	53,8	-	-	-	-	-
1350	54	1657,3	-	-	28	1549,4	60,4	-	-	-	-	-
1400	56	1708,1	-	-	28	1600,2	60,4	-	-	-	-	-
1450	58	1758,9	-	-	32	1651,0	60,4	-	-	-	-	-
1500	60	1809,7	-	-	32	1701,8	60,4	-	-	-	-	-

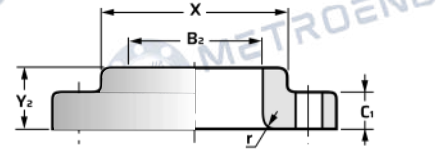
Malzeme : Karbon çelik / Paslanmaz çelik / Bakır nikel.
Material : Carbon steel / Stainless steel / Copper nickel.



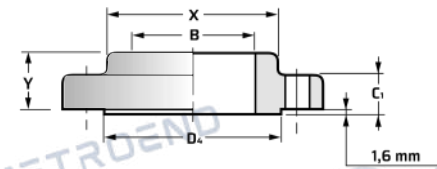
KAYNAK BOYUNLU
WELDING NECK



KÖR / BLIND



SERBEST / LAPPED



DÜZ / SLIP ON

B: Siparişte belirtilmelidir.
B: To be specified by purchaser.

ÖLÇÜ SIZE											Kaynak Boyunlu Welding Neck		Serbest Lapped		
		D	C1	D4	Delik / Drilling			B min	X	Y	A	H	B2 min	Y2	r
DN	NPS	mm	mm	mm	Sayı Number	k mm	d mm	mm	mm	mm	mm	mm	mm	mm	mm
15	½	95	14,2	34,9	4	66,7	15,8	22,4	38	22	21,3	52	22,9	22	3
20	¾	117	15,7	42,9	4	82,6	19,0	27,7	48	25	26,7	57	29,2	25	3
25	1	124	17,5	50,8	4	88,9	19,0	34,5	54	27	33,4	62	35,0	27	3
32	1 ¼	133	20,6	63,5	4	98,4	19,0	43,2	64	29	42,2	67	43,7	29	5
40	1 ½	156	22,4	73,0	4	114,3	22,2	49,5	70	32	48,3	70	50,0	32	6
50	2	165	25,4	92,1	8	127,0	19,0	62,0	84	37	60,3	73	62,5	37	8
65	2 ½	190	28,4	104,8	8	149,2	22,2	74,7	100	41	73,0	79	75,4	41	8
80	3	210	31,8	127,0	8	168,3	22,2	90,7	118	46	88,9	83	91,4	46	10
-	3 ½	229	35,0	139,7	8	184,1	25,4	103,4	133	49	101,6	86	104,1	49	10
100	4	273	38,1	157,2	8	215,9	25,4	116,1	152	54	114,3	102	116,8	54	11
125	5	330	44,5	185,7	8	266,7	28,5	143,8	189	60	141,3	114	144,5	60	11
150	6	356	47,8	215,9	12	292,1	28,5	170,7	222	67	168,3	117	171,4	67	13
200	8	419	55,6	269,9	12	349,2	31,8	221,5	273	76	219,1	133	222,2	76	13
250	10	508	63,5	323,8	16	431,8	35,0	276,4	343	86	273,0	152	277,4	111	13
300	12	559	66,5	381,0	20	489,0	35,0	327,2	400	92	323,9	156	328,2	117	13
350	14	603	69,9	412,8	20	527,0	38,1	359,2	432	94	355,6	165	360,2	127	13
400	16	686	76,2	469,9	20	603,2	41,1	410,5	495	106	406,4	178	411,2	140	13
450	18	743	82,6	533,4	20	654,0	44,5	461,8	546	117	457,0	184	462,3	152	13
500	20	813	88,9	584,2	24	723,9	44,5	513,1	610	127	508,0	190	514,4	165	13
600	24	940	101,6	692,2	24	838,2	50,8	616,0	718	140	610,0	203	616,0	184	13

Malzeme : Karbon çelik / Paslanmaz çelik / Bakır nikel.
Material : Carbon steel / Stainless steel / Copper nickel.

Class 600 Flanş

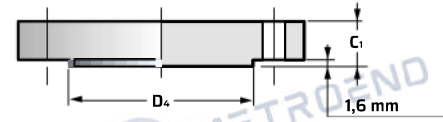
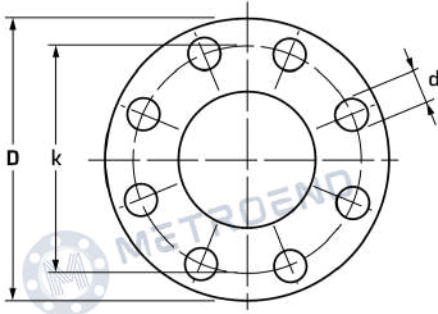
Class 600 Flanges

ASME B 16.47-Serie A

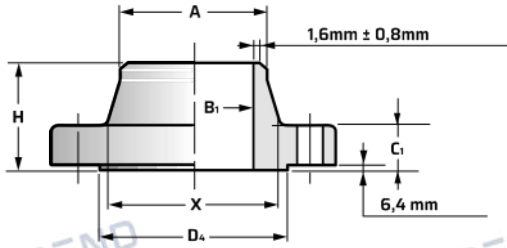


METROEND

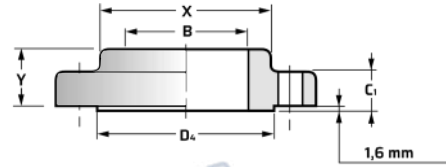
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KÖR / BLIND



KAYNAK BOYUNLU
WELDING NECK

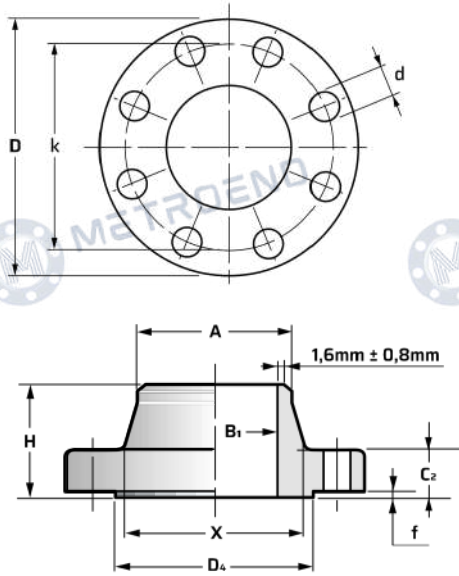


DÜZ / SLIP ON

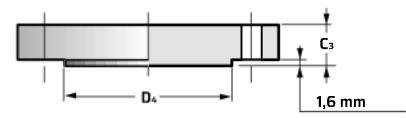
B₁: Siparişte belirtilmelidir.
B₁: To be specified by purchaser.

ÖLÇÜ SIZE												
		D	C ₁	D ₄	Delik / Drilling			B _{min}	X	Y	A	H
DN	NPS	mm	mm	mm	Sayı Number	k mm	d mm	mm	mm	mm	mm	mm
650	26	1016,0	108,0	749,3	28	914,4	50,8	666,7	747,7	222,2	671,5	222,2
700	28	1073,1	111,1	800,1	28	965,2	53,8	717,5	803,3	234,9	723,9	234,9
750	30	1130,3	114,3	857,2	28	1022,3	53,8	768,3	862,0	247,6	774,7	247,6
800	32	1193,8	117,5	914,4	28	1079,5	60,5	819,1	917,6	260,3	825,5	260,3
850	34	1244,6	120,7	965,2	28	1130,3	60,5	869,9	973,2	269,9	877,9	269,7
900	36	1314,4	123,8	1022,3	28	1193,8	66,5	920,7	1031,9	282,6	928,7	282,4
950	38	1270,0	-	-	28	1162,0	60,5	-	-	-	-	254,0
1000	40	1320,8	-	-	32	1212,8	60,5	-	-	-	-	263,7
1050	42	1403,3	-	-	28	1282,7	66,5	-	-	-	-	279,4
1100	44	1454,1	-	-	32	1333,5	66,5	-	-	-	-	289,1
1150	46	1511,3	-	-	32	1390,6	66,5	-	-	-	-	300,0
1200	48	1593,8	-	-	32	1460,5	73,2	-	-	-	-	316,0
1250	50	1670,0	-	-	28	1524,0	79,2	-	-	-	-	328,7
1300	52	1720,8	-	-	32	1574,8	79,2	-	-	-	-	336,5
1350	54	1778,0	-	-	32	1634,9	79,2	-	-	-	-	349,2
1400	56	1854,2	-	-	32	1695,4	85,9	-	-	-	-	361,9
1450	58	1905,0	-	-	32	1746,2	85,9	-	-	-	-	369,8
1500	60	1993,9	-	-	28	1822,4	91,9	-	-	-	-	388,9

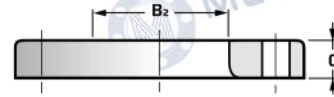
Malzeme : Karbon çelik / Paslanmaz çelik / Bakır nikel.
Material : Carbon steel / Stainless steel / Copper nickel.



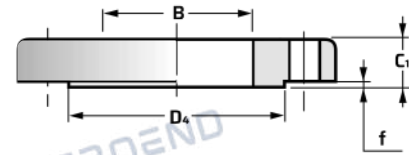
KAYNAK BOYUNLU
WELDING NECK
Tip 11 / Type 11



KÖR / BLIND
Tip 5 / Type 5



SERBEST / LAPPED
Tip 2 / Type 2



DÜZ / SLIP ON
Tip 1 / Type 1

B: Siparişte belirtilmelidir.
B: To be specified by purchaser.

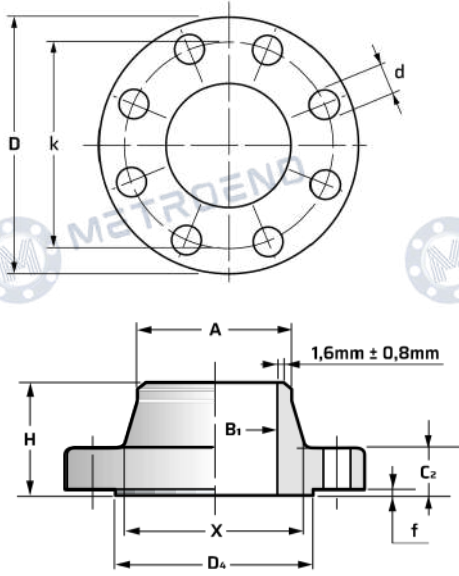
ÖLÇÜ SIZE		D	D ₄	f	C ₁	C ₂	C ₃	Delik / Drilling			B	B ₂	X	H	A
DN	NPS							Sayı Number	k mm	d mm					
15	½	80	40	2	12	12	12	4	55	11	22	25	30	30	21,3
20	¾	90	50		14	14	14	4	65	11	27,5	31	38	32	26,9
25	1	100	60		14	14	14	4	75	11	34,5	38	42	35	33,7
32	1 ¼	120	70		16	14	14	4	90	14	43,5	46	55	35	42,4
40	1 ½	130	80	3	16	14	14	4	100	14	49,5	53	62	38	48,3
50	2	140	90		16	14	14	4	110	14	61,5	65	74	38	60,3
65	2 ½	160	110		16	14	14	4	130	14	77,5	81	88	38	76,1
80	3	190	128		18	16	16	4	150	18	90,5	94	102	42	88,9
100	4	210	148		18	16	16	4	170	18	116	120	130	45	114,3
125	5	240	178		20	18	18	8	200	18	141,5	145	155	48	139,7
150	6	265	202		20	18	18	8	225	18	170,5	174	184	48	168,3
200	8	320	258		22	20	20	8	280	18	221,5	226	236	55	219,1
250	10	375	312	4	24	22	22	12	335	18	276,5	281	290	60	273
300	12	440	365		24	22	22	12	395	22	327,5	333	342	62	323,9
350	14	490	415		26	22	22	12	445	22	359,5	365	385	62	355,6
400	16	540	465		28	22	22	16	495	22	411	416	438	65	406,4
450	18	595	520		30	22	24	16	550	22	462	467	492	65	457
500	20	645	570	5	30	24	24	20	600	22	513,5	519	538	68	508
600	24	755	670		32	30	30	20	705	26	616,5	622	640	70	609
700	28	860	775		40	30	40	24	810	26	-	721	740	76	711
800	32	975	880		44	30	44	24	920	30	-	824	842	76	813
900	36	1075	980		48	34	48	24	1020	30	-	926	942	78	914
1000	40	1175	1080		52	38	52	28	1120	30	-	1028	1045	82	1016
1200	48	1405	1295		60	42	60	32	1340	33	-	1234	1248	104	1219

PN10 Flanş
PN10 Flanges
TS EN1092-1

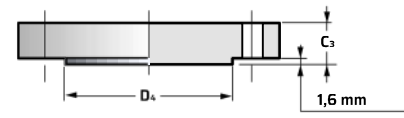


METROEND

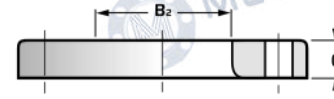
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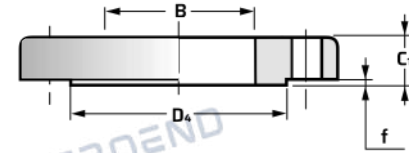
KAYNAK BOYUNLU
WELDING NECK
Tip 11 / Type 11



KÖR / BLIND
Tip 5 / Type 5



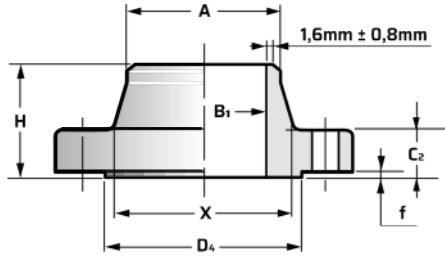
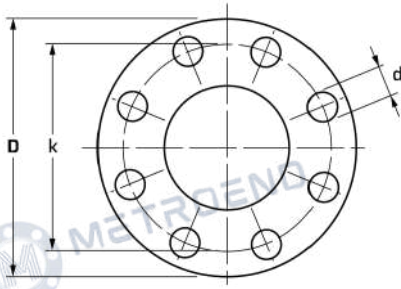
SERBEST / LAPPED
Tip 2 / Type 2



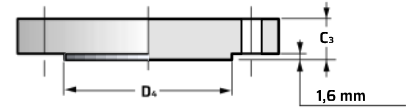
DÜZ / SLIP ON
Tip 1 / Type 1

B: Siparişte belirtilmelidir.
B: To be specified by purchaser.

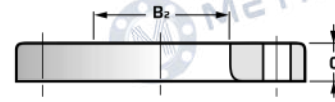
ÖLÇÜ SIZE		D	D ₄	f	C ₁	C ₂	C ₃	Delik / Drilling			B	B ₂	X	H	A
DN	NPS							Sayı Number	k mm	d mm					
15	½	95	45	2	14	16	16	4	65	14	22	25	32	38	21,3
20	¾	105	58		16	18	18	4	75	14	27,5	31	40	40	26,9
25	1	115	68		16	18	18	4	85	14	34,5	38	46	40	33,7
32	1 ¼	140	78		18	18	18	4	100	18	43,5	46	56	42	42,4
40	1 ½	150	88	3	18	18	18	4	110	18	49,5	53	64	45	48,3
50	2	165	102		20	18	18	4	125	18	61,5	65	74	45	60,3
65	2 ½	185	122		20	18	18	8	145	18	77,5	81	92	45	76,1
80	3	200	138		20	20	20	8	160	18	90,5	94	105	50	88,9
100	4	220	158		22	20	20	8	180	18	116	120	131	52	114,3
125	5	250	188		22	22	22	8	210	18	141,5	145	156	55	139,7
150	6	285	212		24	22	22	8	240	22	170,5	174	184	55	168,3
200	8	340	268		24	24	24	8	295	22	221,5	226	234	62	219,1
250	10	395	320	4	26	26	26	12	350	22	276,5	281	292	68	273
300	12	445	370		26	26	26	12	400	22	327,5	333	342	68	323,9
350	14	505	430		30	26	26	16	460	22	359,5	365	385	68	355,6
400	16	565	482		32	26	26	16	515	26	411	416	440	72	406,4
450	18	615	532		36	28	28	20	565	26	462	467	488	72	457
500	20	670	585		38	28	28	20	620	26	513,5	519	542	75	508
600	24	780	685		42	30	34	20	725	30	616,5	622	642	82	609
700	28	895	800		50	35	38	24	840	30	-	721	746	85	711
800	32	1015	905	5	56	38	48	24	950	33	-	824	850	96	813
900	36	1115	1005		62	38	50	28	1050	33	-	926	950	99	914
1000	40	1230	1110		70	44	54	28	1160	36	-	1028	1052	105	1016
1200	48	1455	1330		83	55	66	32	1380	39	-	1234	1256	132	1219



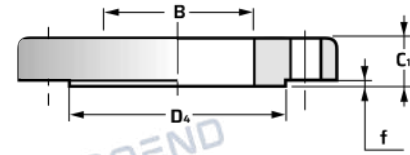
KAYNAK BOYUNLU
WELDING NECK
Tip 11 / Type 11



KÖR / BLIND
Tip 5 / Type 5



SERBEST / LAPPED
Tip 2 / Type 2



DÜZ / SLIP ON
Tip 1 / Type 1

B: Siparişte belirtilmelidir.
B: To be specified by purchaser.

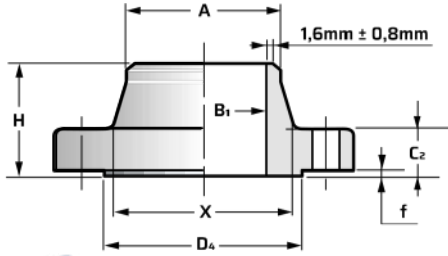
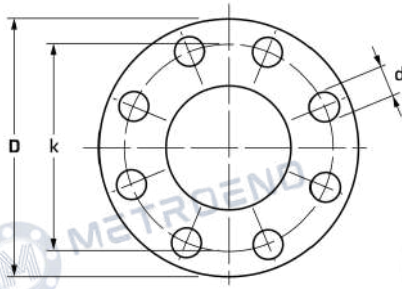
ÖLÇÜ SIZE		D	D ₄	f	C ₁	C ₂	C ₃	Delik / Drilling			B	B ₂	X	H	A
DN	NPS							Sayı Number	k mm	d mm					
15	½	95	45	2	14	16	16	4	65	14	22	25	32	38	21,3
20	¾	105	58		16	18	18	4	75	14	27,5	31	40	40	26,9
25	1	115	68		16	18	18	4	85	14	34,5	38	46	40	33,7
32	1 ¼	140	78		18	18	18	4	100	18	43,5	46	56	42	42,4
40	1 ½	150	88	3	18	18	18	4	110	18	49,5	53	64	45	48,3
50	2	165	102		20	18	18	4	125	18	61,5	65	74	45	60,3
65	2 ½	185	122		20	18	18	8	145	18	77,5	81	92	45	76,1
80	3	200	138		20	20	20	8	160	18	90,5	94	105	50	88,9
100	4	220	158		22	20	20	8	180	18	116	120	131	52	114,3
125	5	250	188		22	22	22	8	210	18	141,5	145	156	55	139,7
150	6	285	212		24	22	22	8	240	22	170,5	174	184	55	168,3
200	8	340	268		26	24	24	8	295	22	221,5	226	234	62	219,1
250	10	405	320	4	29	26	26	12	355	22	276,5	281	292	70	273
300	12	460	378		32	28	28	12	410	22	327,5	333	344	78	323,9
350	14	520	438		35	30	30	12	470	22	359,5	365	390	82	355,6
400	16	580	490		38	32	32	16	525	22	411	416	445	85	406,4
450	18	640	550		42	34	40	16	585	22	462	467	490	83	457
500	20	715	610		46	36	44	20	650	22	513,5	519	548	84	508
600	24	840	725		55	40	54	20	770	26	616,5	622	670	88	609
700	28	910	795		63	40	58	24	840	26	-	721	755	104	711
800	32	1025	900	5	74	41	62	24	950	30	-	824	855	108	813
900	36	1125	1000		82	48	64	24	1050	30	-	926	955	118	914
1000	40	1255	1115		90	59	68	28	1170	30	-	1028	1058	137	1016
1200	48	1485	1330		-	78	-	32	1390	33	-	1234	1262	160	1219

PN40 Flanş
PN40 Flanges
TS EN1092-1

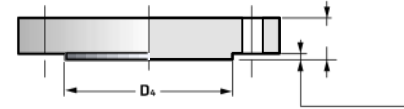


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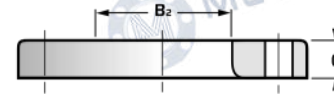
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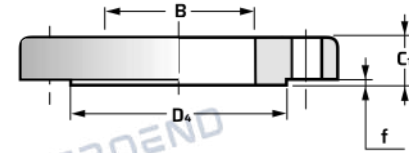
KAYNAK BOYUNLU
WELDING NECK
Tip 11 / Type 11



KÖR / BLIND
Tip 5 / Type 5



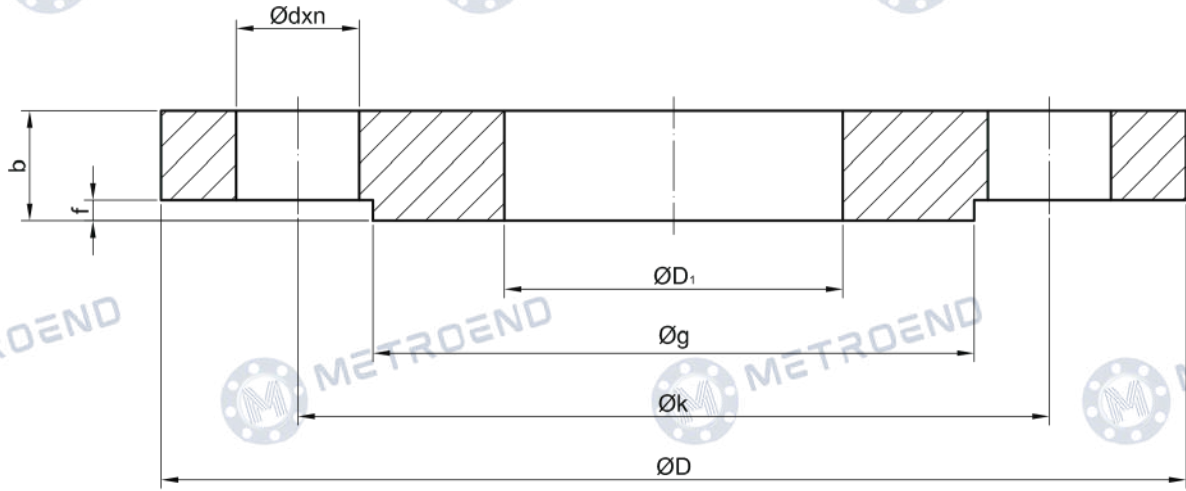
SERBEST / LAPPED
Tip 2 / Type 2



DÜZ / SLIP ON
Tip 1 / Type 1

B: Siparişte belirtilmelidir.
B: To be specified by purchaser.

ÖLÇÜ SIZE		D	D4	f	C1	C2	C3	Delik / Drilling			B	B2	X	H	A
DN	NPS							Sayı Number	k mm	d mm					
15	½	95	45	2	14	16	16	4	65	14	22	25	32	38	21,3
20	¾	105	58		16	18	18	4	75	14	27,5	31	40	40	26,9
25	1	115	68		16	18	18	4	85	14	34,5	38	46	40	33,7
32	1 ¼	140	78		18	18	18	4	100	18	43,5	46	56	42	42,4
40	1 ½	150	88	3	18	18	18	4	110	18	49,5	53	64	45	48,3
50	2	165	102		20	20	20	4	125	18	61,5	65	75	48	60,3
65	2 ½	185	122		22	22	22	8	145	18	77,5	81	90	52	76,1
80	3	200	138		24	24	24	8	160	18	90,5	94	105	58	88,9
100	4	235	162		26	24	24	8	190	22	116	120	134	65	114,3
125	5	270	188		28	26	26	8	220	26	141,5	145	162	68	139,7
150	6	300	218		30	28	28	8	250	26	170,5	174	192	75	168,3
200	8	375	285		36	34	36	12	320	30	221,5	226	244	88	219,1
250	10	450	345	4	42	38	38	16	385	33	276,5	281	306	105	273
300	12	515	410		52	42	42	16	450	33	327,5	333	362	115	323,9
350	14	580	465		58	46	46	16	510	36	359,5	365	408	125	355,6
400	16	660	535		65	50	50	16	585	39	411	416	462	135	406,4
450	18	685	560		-	57	57	20	610	39	462	467	500	135	457
500	20	755	615		-	57	57	20	670	42	513,5	519	562	140	508
600	24	890	735	5	-	72	72	20	795	48	616,5	622	666	150	609



ÖLÇÜ		ØD1	f	5K					10K					16K				
DN	NPS			ØD	Øg	Øk	b	Ødxn	ØD	Øg	Øk	b	Ødxn	ØD	Øg	Øk	b	Ødxn
15	1/2"	22	1	80	44	60	9	12x4	95	51	70	12	15x4	95	51	70	12	15x4
20	3/4"	27.5	1	85	49	65	10	12x4	100	56	75	14	15x4	100	56	75	14	15x4
25	1"	34.5	1	95	59	75	10	12x4	125	67	90	14	19x4	125	67	90	14	19x4
32	1 1/4"	43.5	2	115	70	90	12	15x4	135	76	100	16	19x4	135	76	100	16	19x4
40	1 1/2"	49.5	2	120	75	95	12	15x4	140	81	105	16	19x4	140	81	105	16	19x4
50	2"	61.5	2	130	85	105	14	15x4	155	96	120	16	19x4	155	96	120	16	19x8
65	2 1/2"	77.5	2	155	110	130	14	15x4	175	116	140	18	19x4	175	116	140	18	19x8
80	3"	90.5	2	180	121	145	14	19x4	185	126	150	18	19x8	200	132	160	20	23x8
100	4"	116	2	200	141	165	16	19x8	210	151	175	18	19x8	225	160	185	22	23x8
125	5"	141.5	2	235	176	200	16	19x8	250	182	210	20	23x8	270	195	225	22	25x8
150	6"	170.5	2	265	206	230	18	19x8	280	212	240	22	23x8	305	230	260	24	25x12
200	8"	221.5	2	320	252	280	20	23x8	330	262	290	22	23x12	350	275	305	26	25x12
250	10"	276.5	2	385	317	345	22	23x12	400	324	355	24	25x12	430	345	380	28	27x12
300	12"	327.5	3	430	360	390	22	23x12	445	368	400	24	25x16	480	395	430	30	27x16
350	14"	359.5	3	480	403	435	24	23x12	490	413	445	26	25x16	540	440	480	34	33x16
400	16"	411	3	540	463	495	24	25x16	560	475	510	28	27x16	605	495	540	38	33x16
500	20"	513.5	3	655	573	605	24	25x20	675	585	620	30	27x20	730	615	660	42	33x20
550	22"	562	3	720	630	665	24	27x20	745	640	680	24	33x20	795	673	720	24	39x20

Notlar / Notes

This image shows a blank sheet of white paper with ten horizontal dashed lines. The lines are evenly spaced and run across the width of the page, providing a guide for handwriting practice. There is no text or other markings on the paper.



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