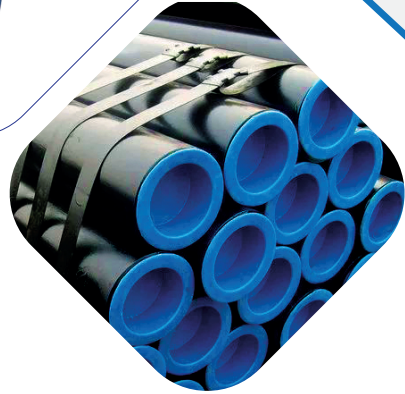


**CNR**



# ÜRÜN KATALOĞU

# PRODUCT CATALOGUE



PDF' Görüntülemek  
çn QR kodu okutun



# CNR ÇELİK

**“SÜRDÜRÜLEBİLİR GELECEK İÇİN GÜÇLÜ BAĞLANTILAR”**

**“Sustainable Future for Strong Connections”**





## HAKKIMIZDA

Sektördeki 15 yıllık tecrübe ve deneyim birikimi ile 2015 yılında kurulan CNR Çelik, kısa sürede bulunduğu faaliyet alanında önemli bir oyuncu haline geldi. İyi hizmet ve kalite ürün vizyonunu benimseyerek, çelik çekme boru ithalatını firma bünyesinde yapmaya başladı.

Çok geçmeden başta vana olmak üzere ithal ettiği ürünlere boru bağlantı elemanlarını da ekleyerek, güvenilirliği ve kalitesiyle sektörde adından söz ettirmeye devam etmektedir.

İthalat ve ihracat alanındaki geniş vizyonu ile, CNR Çelik, müşteri memnuniyetini en üst düzeyde tutarak, yenilikçi çözümler sunmaya devam etmektedir. Kurulduğu günden bu yana kazandığı tecrübe ve birikimle, sektördeki yerini sağlamlaştırmış, uluslararası arenada da güçlü bir konuma gelmiştir.

Müşterilerimizin güvenini kazanarak, kaliteli ve güvenilir ürünler sunma misyonumuz, bizi daima ileriye taşıyan en önemli değerimiz olmuştur. Geleceğe güvenle bağlanarak, daha nice başarılarla imza atmayı hedefliyor olup, siz değerli dostlarımıza katkılarından dolayı teşekkür ediyoruz.

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## ABOUT US

CNR Çelik, which was established in 2015 with 15 years of experience and experience in the sector, has become a leader in a short time.

It has become an important player in its field of activity. Good service and quality product vision  
By adopting this, the company started to import steel drawn pipes within the company.

Very soon, it continued to make a name for itself in the sector with its reliability and quality by adding pipe fittings to the products it imported, especially valves.

With its wide vision in the field of import and export, CNR Çelik ensures customer satisfaction at the highest level. It continues to offer innovative solutions. With the experience and knowledge it has gained since its establishment, it has strengthened its place in the sector and has become a strong position in the international arena.

Our mission to gain the trust of our customers and to offer quality and reliable products has always been our most important value that carries us forward. We aim to achieve many more successes by connecting to the future with confidence, and we would like to thank our valued friends for their contributions.



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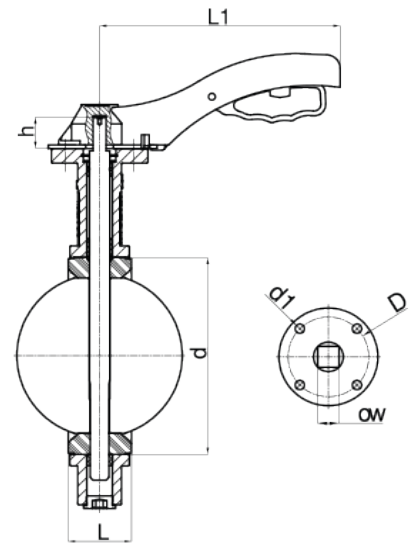
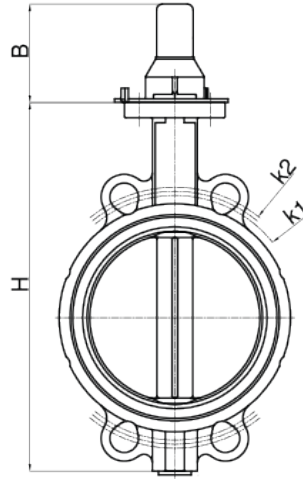


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## Wafer Tip Kelebek Vana / Wafer Type Butterfly Valve



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GG25/CGG40/WCB
UZUN BURÇ	LONG BUSHING	PTFE
MİL	STEM	AISI 416
CONTA	GASKET	NBR/NITON/PTFE/EPDM/NR
KLAPE	DISC	ALU-BRONZE / SS316
KISA BURÇ	SHORT BUSHING	PTFE
ORING	O RİNG	NBR
PUL	WASHER	GR.33
SEGMAN	CIRCLIP	GR.33
KOL	LEVER	ST42 / Aluminium
CIVATA	BOLT	STEEL

CODE IMPA	SIZE	FACE TO FACE (L)	PN6	PN10	PN16
			Ok1	Ok2	Ok3
7522**	DN25	35	85	100	100
7522**	DN32	35	90	100	100
752208	DN40	35	100	110	110
752201	DN50	46	110	125	125
752202	DN65	49	130	145	145
752203	DN80	49	150	160	160
752204	DN100	55	170	180	180
752205	DN125	59	200	210	210
752206	DN150	59	225	240	240
752207	DN200	64	280	295	295
752218	DN250	72	335	350	355
752219	DN300	81	280	400	410
752220	DN350	81	445	460	470
752221	DN400	102	596	515	525
752222	DN450	120	550	565	585
752223	DN500	133	600	620	650

### UYGULAMA ALANLARI / APPLICATION

SU, DENİZ SUYU, ATIK SU, HAVA, YAĞ, TOZ, GAZ, vb.  
WATER, SEA WATER, WASTE WATER, AIR, OIL, GAS, etc.

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

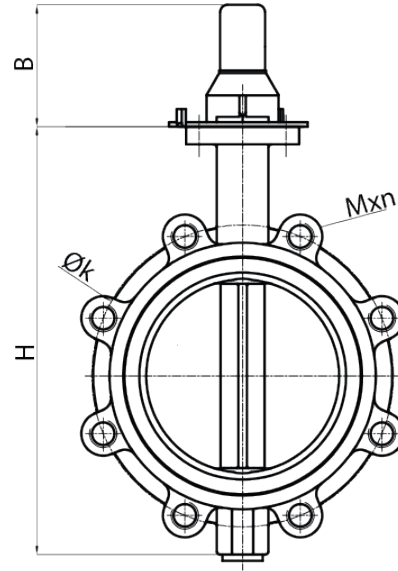
BAĞLANTI FLANŞLARI / ENDS: 1092-2  
ÇALIŞMA BASINCI / WORKING PRESSURE: PN16

### ÇALIŞMA SICAKLIĞI / WORKING TEMP.

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



## Lug Tip Kelebek Vana / Lug Type Butterfly Valve



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GG25/GGG40/WCB
UZUN BURÇ	LONG BUSHING	PTFE
MİL	STEM	AISI 416
CONTA	GASKET	NBR/NITON/PTFE/EPDM/NR
KLAPE	DISC	ALU-BRONZE / SS316
KISA BURÇ	SHORT BUSHING	PTFE
ORING	O RİNG	NBR
PUL	WASHER	GR.33
SEGMAN	CIRCLIP	GR.33
KOL	LEVER	ST42 / Aluminium
CİVATA	BOLT	STEEL

CODE IMPA	SIZE	FACE TO FACE (L)	PN10		PN16		
			PCD	HOLES	CODE IMPA	PCD	HOLES
7544**	DN40	35	110	4 X 16	***	110	4 X 16
754431	DN50	46	125	4 X 16	754446	125	4 X 16
754432	DN65	49	145	4 X 16	754447	145	4 X 16
754433	DN80	49	160	8 X 16	754448	160	8 X 16
754434	DN100	55	180	8 X 16	754449	180	8 X 16
754435	DN125	59	210	8 X 16	754450	210	8 X 16
754436	DN150	59	240	8 X 20	754451	240	8 X 20
754437	DN200	64	295	8 X 20	754452	295	12 X 20
754438	DN250	72	350	12 X 20	754453	355	12 X 24
754439	DN300	81	400	12 X 20	754454	410	12 X 24
754440	DN350	81	460	16 X 20	754455	470	16 X 24
754441	DN400	102	515	16 X 24	754456	525	16 X 27
754442	DN450	114	565	20 X 24	754457	585	20 X 27
754443	DN500	133	620	20 X 24	754458	650	20 X 30
7544**	DN550	157	675	20 X 24	7544**	680	20 X 30
754444	DN600	159	725	20 X 27	754459	770	20 X 33
7544**	DN700	170	840	24 X 27	7544**	840	24 X 23

### UYGULAMA ALANLARI / APPLICATION

SU, DENİZ SUYU, ATIK SU, HAVA, YAĞ, TOZ, GAZ, vb.  
WATER, SEA WATER, WASTE WATER, AIR, OIL, GAS, etc.

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

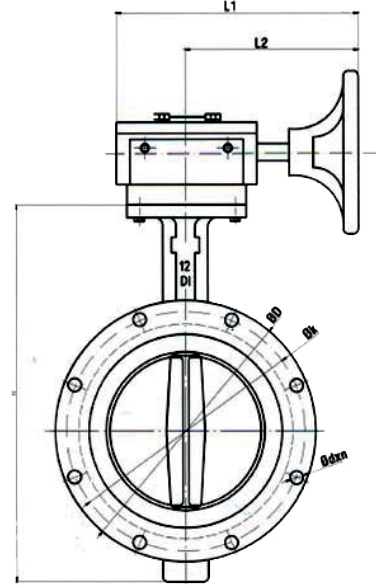
BAĞLANTI FLANŞLARI / ENDS: 1092-2  
ÇALIŞMA BASINCI / WORKING PRESSURE: PN16

### ÇALIŞMA SICAKLIĞI / WORKING TEMP.

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



## U Tip Kelebek Vana / U Type Butterfly Valve



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GGG40
UZUN BURÇ	LONG BUSHING	PTFE
MİL	STEM	AISI 416
CONTA	GASKET	NBR / VITON / PTFE / EPDM / NR
KLAPE	DISC	ALU-BRONZE
KISA BURÇ	SHORT BUSHING	PTFE
O RING	O RING	NBR/VITON
PUL	WASHER	GR.33
SEGMAN	CIRCLIP	GR.33
DIŞLİ KUTUSU	GEAR BOXES	STEEL
CIVATA	BOLT	STEEL

CODE	IMPA	DN	ØD	Øk	H	b	B	d	L1	L2	Ød <sub>xn</sub>	D1	D2	W	Ø	Ød <sub>1xn</sub>	KG
752320		50	165	125	220	14	46	76	208	155	19x4	90	70	11	12,6	10x4	10,5
752321		65	185	145	242	14	49	89	208	155	19x4	90	70	11	12,6	10x4	12,5
752322		80	200	160	246	14	49	104	208	155	19x8	90	70	11	12,6	10x4	13,5
752323		100	220	180	279	14	55	135	208	155	19x8	90	70	11	15,8	10x4	14
752324		125	250	210	307	16	59	159	208	155	19x8	90	70	14	18,9	10x4	16
752325		150	285	240	339	18	59	188	208	155	23x8	90	70	14	18,9	10x4	19
752326		200	340	295	390	20	64	238	313	237	23x12	125	102	17	22,1	12x4	30
752327		250	405	355	448	22	72	292	313	237	28x12	125	102	22	28,5	12x4	41
-		300	460	410	532	22	81	344	307	225	28x12	125	102	22	31,6	12x4	61
-		350	520	470	709	24	81	375	307	225	28x16	150	125	22	31,6	14x4	93
-		400	580	525	709	24	90	440	358	254	31x16	175	140	27	xxx	18x4	169
-		450	640	585	750	30	109	491	358	254	31x20	175	140	27	42,9	18x4	208
-		500	715	650	841	32	135	535	358	254	34x20	175	140	36	45,7	18x4	215

### UYGULAMA ALANLARI / APPLICATION

SU, DENİZ SUYU, ATIK SU, HAVA, YAĞ, TOZ, GAZ, vb.  
WATER, SEA WATER, WASTE WATER, AIR, OIL, GAS, etc.

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

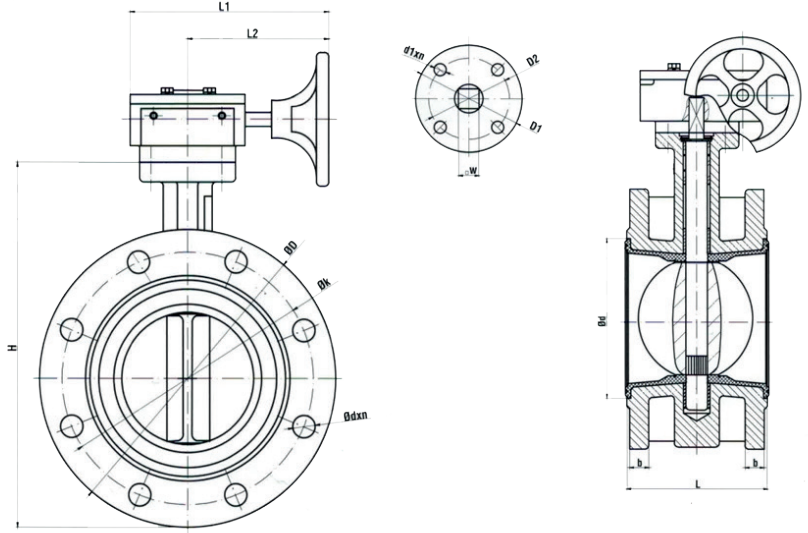
BAĞLANTI FLANSLARI / ENDS: 1092-2  
ÇALIŞMA BASINCI / WORKING PRESSURE: PN16

### ÇALIŞMA SICAKLIĞI / WORKING TEMP.

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



## Çift Flanslı Kelebek Vana / Double Flanged Butterfly Valve



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GGG40
UZUN BURÇ	LONG BUSHING	GGG40
MİL	STEM	AISI 416
CONTA	GASKET	NBR
KLAPE	DISC	ALU-BRONZE
KISA BURÇ	SHORT BUSHING	PTFE
ORING	O RİNG	NBR
PUL	WASHER	GR.33
SEGMAN	CIRCLIP	GR.33
DİŞLİ KUTUSU	GEAR BOXES	STEEL
CİVATA	BOLT	STEEL

CODE	IMPA	DN	ØD	Øk	H	d	L	L1	Ødn	D1	D2	W	Ød1xn	h	G	KG
752311		50	165	125	203	99	112	160	18x4	65	50	9	7x4	23	70	11
752312		65	185	145	223	118	116	160	18x8	65	50	9	7x4	23	70	13,5
752313		80	200	160	245	132	118	160	18x8	65	50	9	7x4	23	70	14
752314		100	220	180	269	156	127	160	18x8	90	70	11	10x4	23	70	17,5
752315		125	250	210	295	184	140	160	18x8	90	70	14	10x4	25	70	22
752316		150	285	240	333	211	140	160	22x8	90	70	14	10x4	25	70	25,5
752317		200	34	295	375	266	152	160	22x12	125	102	17	12x4	30	75	39,5
752318		250	405	355	433	319	165	255	26x12	125	102	22	12x4	38	75	52,5
752319		300	460	410	503	370	178	260	26x12	125	102	22	12x4	38	75	67
-		350	520	470	589	429	190	260	26x16	150	125	22	12x4	44	75	91
-		400	580	525	640	480	216	310	30x16	175	140	27	18x4	50	90	141
-		450	640	585	720	530	222	310	30x20	175	140	27	18x4	52	90	182
-		500	715	650	785	582	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

### UYGULAMA ALANLARI / APPLICATION

SU, DENİZ SUYU, ATIK SU, HAVA, YAĞ, TOZ, GAZ, vb.  
WATER, SEA WATER, WASTE WATER, AIR, OIL, GAS, etc.

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

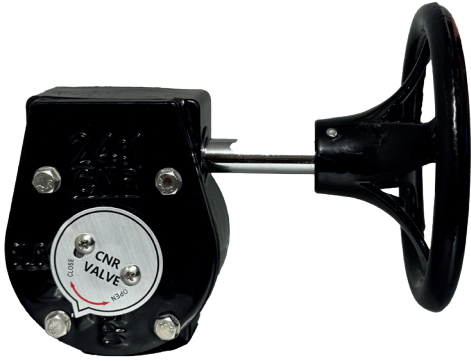
BAĞLANTI FLANŞLARI / ENDS: 1092-2  
ÇALIŞMA BASINCI / WORKING PRESSURE: PN16

### ÇALIŞMA SICAKLIĞI / WORKING TEMP.

NBR: -10°C / +82°C  
EPDM: -10°C / +110°C



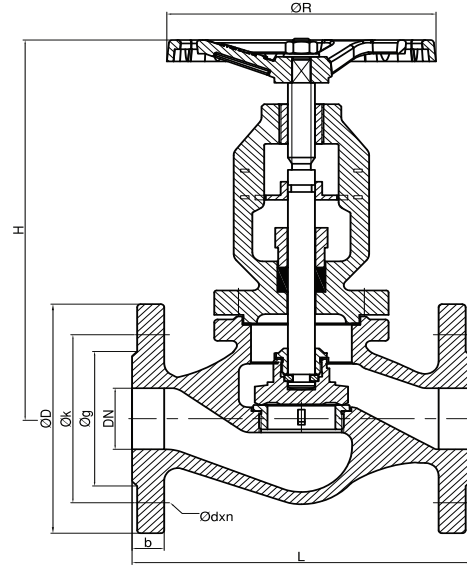
## Disli Kutusu-Redüktör / Gear Box



DN	L1	B	C	G	E	D1	D2	D3	W	ISO 5211	Mxn	KG
32	160	145	48	70	105	65	50	35	9	F05	M6x4	4,5
40	160	145	48	70	105	65	50	35	9	F05	M6x4	4,5
50	160	145	48	70	105	65	50	35	9	F05	M6x4	4,5
65	160	145	48	70	105	65	50	35	9	F05	M6x4	4,5
80	160	145	48	70	105	65	50	35	9	F05	M6x4	4,5
100	160	145	48	70	105	90	70	55	11	F07	M8x4	4,5
125	160	145	48	70	105	90	70	55	14	F07	M8x4	4,5
150	160	145	48	70	105	90	70	55	14	F07	M8x4	4,5
200	255	250	65	75	129	125	102	70	17	F10	M10x4	8,5
250	260	285	80	75	157	125	102	70	22	F10	M10x4	11
300	260	285	80	75	157	125	102	70	22	F10	M10x4	11
350	260	285	80	75	157	150	125	85	22	F12	M12x4	11
400	310	390	116	90	252	175	140	100	27	F14	M16x4	22
450	310	390	116	90	252	175	140	100	27	F14	M16x4	22
500	310	390	116	90	252	175	140	100	36	F14	M16x4	22



## Glob Vana (Düz Tip) / Globe Valve (Straight Type)



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GG25/GG40.3/GS-C25/RG5-10/CF8/CF8M
SİT	SEAT	BRONZE / AISI 420
MİL	STEM	AISI 420 / Ms58
İNDİKATÖR	INDICATOR	ST37
KAPAK	BONNET	GG25/GG40.3/GS-C25/RG5-10/CF8/CF8M
KLAPE	DISC	RG5 / AISI 420
RİNG	RING	RG5 / AISI 420
EMNİYET PULU	WASHER SAFETY	Ms58 / AISI 420
TESPİT VİDASI	SECURING SCREW	RG5 / AISI 304
CONTA	GASKET	KLINGERİT / GRAPHITE
SETUSKUR	SCREW	AISI 304
SALMASTRA	PACKING	GRAPHITE
GLEN	GLAND	GGG40.3
T ÇİVATA	T BOLT	6.8 STEEL
ÇİVATA	BOLT	8.8 STEEL
HENDİL	HANDWHEEL	GG25
SOMUN & PUL	NUT & WASHER	STEEL

CODE IMPA	DN	OD	Ok	Og	L	b	OR	H	STROK	Odxn	KG
755261	15	95	65	45	130	14	110	202	9	14x4	4,11
755262	20	105	75	58	150	16	110	202	9	14x4	5,11
755263	25	115	85	68	160	16	110	211	11	14x4	6,4
755264	32	140	100	78	180	18	140	216	11	18x4	7,75
755265	40	150	110	88	200	18	140	249	18	18x4	10,06
755266	50	165	125	102	230	20	160	254	19	18x4	13,06
755267	65	185	145	122	290	20	160	271	22	18x4	18,41
755268	80	200	160	138	310	20	200	311	26	18x8	22,13
755269	100	220	180	158	350	24	220	344	32	18x8	36,7
755270	125	250	210	188	400	26	250	420	34	18x8	55
755271	150	285	240	212	480	26	300	498	42	22x8	77,5
755273	200	340	295	268	600	30	400	550	55	22x12	140
755274	250	405	355	320	730	32	500	585	65	26x12	200
755275	300	460	410	370	850	32	500	640	78	26x12	250
7552**	350	520	470	430	980	36	500	875	100	26x16	385
7552**	400	580	525	482	1100	38	500	955	115	29,5x16	408

### UYGULAMA ALANLARI / APPLICATIONS

DENİZ SUYU, TATLI SU, YAĞ VE 220°C KADAR BUHAR DEVRELERİNDE  
SEA WATER, FRESH WATER, OIL AND STEAM UP TO 220°C SYSTEMS

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

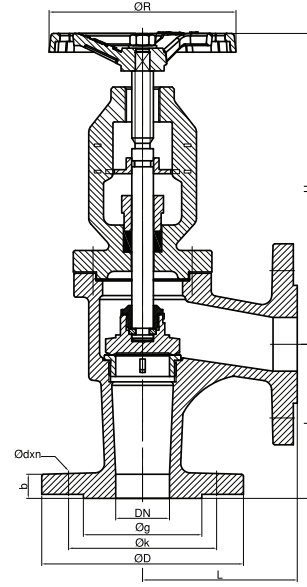
ÇALIŞMA ŞARTLARI / WORKING CONDITIONS: DIN 2401  
BAĞLANTILAR / ENDS: DIN 1092-2  
ÇALIŞMA SICAKLIĞI / WORKING TEMP.: -10°C / 220°C  
ÇALIŞMA BASINCI / WORKING PRESSURE: PN16/PN25/PN40  
FACE TO FACE DIMENSIONS: TS EN 558-1

### RENKLER / COLORS

PIK DÖKÜM VANALAR / CAST IRON VALVES: MAVİ / BLUE  
SFERO DÖKÜM VANALAR / DUCTILE IRON VALVES: ZEYTİN  
YEŞİLİ / OLIVE GREEN  
SERTİFİKALI VANALAR / CERTIFICATE VALVES: LACİVERT /  
ULTRAMARINE BLUE



## Glob Vana (Gönye Tip) / Globe Valve (Angle Type)



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GG25/GG40.3/GS-C25/RG5-10/CF8/CF8M
SİT	SEAT	BRONZE / AISI 420
MİL	STEM	AISI 420 / Ms58
İNDİKATÖR	INDICATOR	ST37
KAPAK	BONNET	GG25/GG40.3/GS-C25/RG5-10/CF8/CF8M
KLAPE	DISC	RG5 / AISI 420
CONTA	GASKET	KLINGERIT / GRAPHITE
SETSKUR	SCREW	AISI 304
SALMASTRA	PACKING	GRAPHITE
CONTA	GASKET	KLINGERIT / GRAPHITE
GLEN	GLAND	GGG40.3
T ÇİVATA	T BOLT	6.8 STEEL
ÇİVATA	BOLT	8.8 STEEL
HENDİL	HANDWHEEL	GG25
SOMUN & PUL	NUT & WASHER	STEEL

CODE IMPA	DN	OD	Ok	Og	L	b	OR	H	STROK	Odxn	KG
755246	15	95	65	45	90	14	110	184	9	14x4	4,26
755247	20	105	75	58	95	16	110	184	9	14x4	5,11
755248	25	115	85	68	100	16	110	197	11	14x4	6,3
755249	32	140	100	78	105	18	140	200	11	18x4	7,6
755250	40	150	110	88	115	18	140	232	18	18x4	9,46
755251	50	165	125	102	125	20	160	235	19	18x4	12,06
755252	65	185	145	122	145	20	160	248	22	18x4	16,91
755253	80	200	160	138	155	22	200	287	26	18x8	20,63
755254	100	220	180	158	175	24	220	320	32	18x8	36
755255	125	250	210	188	200	26	250	340	34	18x8	54
755256	150	285	240	212	225	26	300	405	42	22x8	72
755258	200	340	295	268	275	30	400	440	55	22x12	116
755259	250	405	355	320	325	32	500	510	65	26x12	169
755260	300	460	410	370	375	32	500	575	78	26x12	240
7552**	350	520	470	430	425	36	500	775	100	26x16	325
7552**	400	580	525	482	475	38	500	840	115	29,5x16	394

### GULAMA ALANLARI / APPLICATIONS

NİZ SUYU, TATLI SU, YAĞ VE 220°C KADAR BUHAR DEVRELERİNİN VE A WATER, FRESH WATER, OIL AND STEAM UP TO 220°C SYSTEMS

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

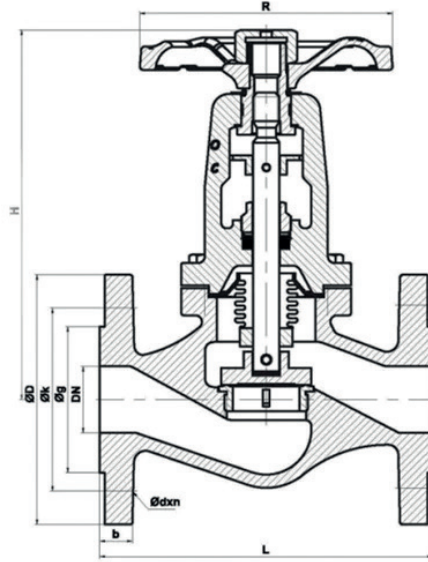
İŞİMA ŞARTLARI / WORKING CONDITIONS: DIN 2401  
GLANTILAR / ENDS: DIN 1092-2  
İŞİMA SICAKLIĞI / WORKING TEMP.: -10°C / 220°C  
İŞİMA BASINCI / WORKING PRESSURE: PN16/PN25/PN40  
ÇE TO FACE DIMENSIONS: TS EN 558-1

### RENKLER / COLORS

PIK DÖKÜM VANALAR / CAST IRON VALVES: MAVİ / BLUE  
SFERO DÖKÜM VANALAR / DUCTILE IRON VALVES: ZEYTİN  
YEŞİLİ / OLIVE GREEN  
SERTİFİKALI VANALAR / CERTIFICATE VALVES: LACİVERT /  
ULTRAMARİNE BLUE



## Metal Körüklü Vana (Düz Tip) / Metal Bellow Sealed Globe Valve (Straight Type)



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GG25 GGG40.3
SİT	SEAT	AISI 420 AISI 420
KAPAK	BONNET	GG25 GGG40.3
MİL	STEM	AISI 420 AISI 420
KÖRÜK	BELLOWS	AISI 316Ti AISI 316Ti
CONTA	GASKET	GRAPHITE GRAPHITE
SALMASTRA	PACKING	GRAPHITE GRAPHITE
PUL	WASHER	ST37 ST37
PUL	WASHER	SPRING ST. SPRING ST.
KAPAK BURCU	BONNET BUSH	STEEL STEEL
SEGMAN	RETAINING RING	SPRING ST. SPRING ST.

CODE IMPA	DN	L	OR	H	STROK	OD	OK	PN16				PN25				PN40				KG				
								Og	b	n	Od	OD	Ok	Og	b	n	Od	OD	Ok		Og	b	n	OD
755442	15	130	125	190	6	95	65	45	14	4	14	95	65	45	16	4	14	95	65	45	16	4	14	4,6
755443	20	150	125	190	6	105	75	58	16	4	14	105	75	58	18	4	14	105	75	58	18	4	14	5,35
755444	25	160	125	195	8	115	85	68	16	4	14	115	85	68	18	4	14	115	85	68	18	4	14	6,25
755445	32	180	125	195	8	140	100	78	18	4	18	140	100	78	20	4	18	140	100	78	20	4	18	7,2
755446	40	200	150	220	13	150	110	88	18	4	18	150	110	88	20	4	18	150	110	88	20	4	18	11,2
755447	50	230	150	225	13	165	125	102	20	4	18	165	125	102	22	4	18	165	125	102	22	4	18	15
755448	65	290	175	240	16	185	145	122	20	4	18	185	145	122	24	8	18	185	145	122	24	8	18	20,6
755449	80	310	175	260	20	200	160	138	22	8	18	200	160	138	26	8	18	200	160	138	26	8	18	23,6
755450	100	350	225	315	25	220	180	158	24	8	18	235	190	162	28	8	22	235	190	162	28	8	22	36,5
755451	125	400	225	420	32	250	210	188	26	8	18	270	220	188	30	8	28	270	220	188	30	8	25	55
755452	150	480	300	500	40	285	240	212	26	8	22	300	250	218	34	8	28	300	250	218	34	8	25	77,5
755453	200	600	500	550	50	340	295	268	30	12	22	360	310	278	34	12	28	375	320	285	40	12	30	140

### UYGULAMA ALANLARI / APPLICATIONS

BUHAR, SICAK SU, TERMAL AKIŞKAN, KIZGIN YAĞ STEAM, HOT WATER, THERMAL FLUIDS, HOT OIL

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

ÇALIŞMA ŞARTLARI / WORKING CONDITIONS: DIN 2401  
BAĞLANTILAR / ENDS: DIN 1092-2  
ÇALIŞMA BASINCI / WORKING PRESSURE: PN16/PN25/PN40  
FACE TO FACE DIMENSIONS: TS EN 558-1

### ÇALIŞMA SICAKLIĞI / WORKING TEMPERATURE

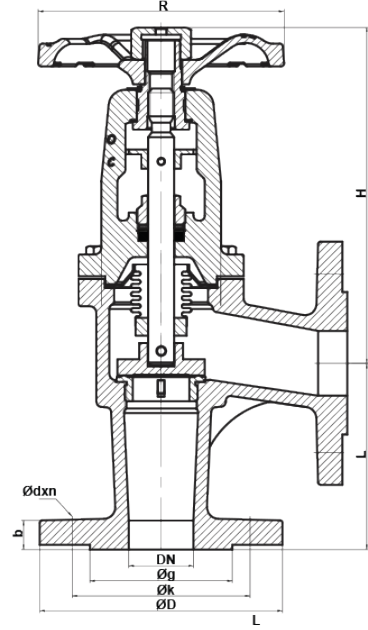
PN16: -10°C / +300°C  
PN25: -10°C / +350°C  
PN40: -10°C / +400°C

### GÖVDE SEÇENEKLERİ / BODY OPTIONS

GG25 / GGG40.3 / GSC-25



## Metal Körüklü Vana (Gönye Tip) / Metal Bellow Sealed Globe Valve (Angle Type)



PARÇA ADI	PART NAME	MALZEME / MATERIAL	
GÖVDE	BODY	GG25	GGG40.3
SİT	SEAT	AISI 420	AISI 420
KAPAK	BONNET	GG25	GGG40.3
MİL	STEM	AISI 420	AISI 420
KÖRÜK	BELLOWS	AISI 316Ti	AISI 316Ti
ÇONTA	GASKET	GRAPHITE	GRAPHITE
SALMASTRA	PACKING	GRAPHITE	GRAPHITE
PUL	WASHER	ST37	ST37
PUL	WASHER	SPRING ST.	SPRING ST.
KAPAK BURCU	BONNET BUSH	STEEL	STEEL
SEGMAN	RETAINING RING	SPRING ST.	SPRING ST.
İNDİKATÖR	INDICATOR	STEEL	STEEL
PİM	PIN	AISI 304	AISI 304
SALMASTRA BASKISI	PACKING JOINT	STEEL	STEEL
KLAPE	DISC	AISI 420	AISI 420
SARMA PİM	SPRING PIN	AISI 304	AISI 304
HENDİL	HANDWHEEL	GG25	GG25
HENDİL SOMUNU	HANDWHEEL NUT	STEEL	STEEL
ÇİVATA	BOLT	8.8 STEEL GALV.	8.8 STEEL GALV.
SETSKUR	GRUP SCREW	8.8 STEEL	8.8 STEEL
GRESÖRLÜK	LUBRICATING NIPPLE	STEEL	STEEL

CODE	IMPA	DN	L	OR	H	STROK	OD	OK	PN16				PN25				PN40				KG			
									Og	b	n	Od	OD	Ok	Og	b	n	Od	OD	Ok		Og	b	n
755341	15	90	125	165	6	95	65	45	14	4	14	95	65	45	16	4	14	95	65	45	16	4	14	4,75
755342	20	95	125	165	6	105	75	58	16	4	14	105	75	58	18	4	14	105	75	58	18	4	14	5,35
755343	25	100	125	177	8	115	85	68	16	4	14	115	85	68	18	4	14	115	85	68	18	4	14	6,15
755344	32	105	125	175	8	140	100	78	18	4	18	140	100	78	20	4	18	140	100	78	20	4	18	7
755345	40	115	150	205	13	150	110	88	18	4	18	150	110	88	20	4	18	150	110	88	20	4	18	10,7
755346	50	125	150	208	13	165	125	102	20	4	18	165	125	102	22	4	18	165	125	102	22	4	18	14
755347	65	145	175	220	16	185	145	122	20	4	18	185	145	122	24	8	18	185	145	122	24	8	18	19
755348	80	155	175	230	20	200	160	138	22	8	18	200	160	138	26	8	18	200	160	138	26	8	18	22
755349	100	175	225	275	25	220	180	158	24	8	18	235	190	162	28	8	22	235	190	162	28	8	22	35,8
755350	125	200	225	340	32	250	210	188	26	8	18	270	220	188	30	8	28	270	220	188	30	8	25	54
755351	150	225	300	407	40	285	240	212	26	8	22	300	250	218	34	8	28	300	250	218	34	8	25	72
755353	200	275	500	440	50	340	295	268	30	12	22	360	310	278	34	12	28	375	320	285	40	12	30	116

### UYGULAMA ALANLARI / APPLICATIONS

BUHAR, SICAK SU, TERMAL AKIŞKAN, KIZGIN YAĞ STEAM,  
HOT WATER, THERMAL FLUIDS, HOT OIL ÇALIŞMA

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

ŞARTLARI / WORKING CONDITIONS: DIN 2401  
BAĞLANTILAR / ENDS: DIN 1092-2  
ÇALIŞMA BASINCI / WORKING PRESSURE: PN16/PN25/PN40  
FACE TO FACE DIMENSIONS: TS EN 558-1

### ÇALIŞMA SICAKLIĞI / WORKING TEMPERATURE

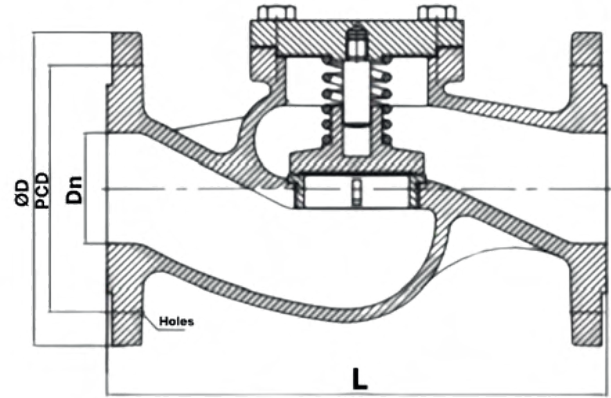
PN16: -10°C / +300°C  
PN25: -10°C / +350°C  
PN40: -10°C / +400°C

### GÖVDE SEÇENEKLERİ / BODY OPTIONS

GG25 / GGG40.3 / GSC-25



## Çek Vana (Düz Tip) / Lift Check Valve (Straight Type)



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GG25/GGG40.3/RG5-10
SİT	SEAT	BRONZE / AISI 420
KAPAK	BONNET	ST 37
MİL	STEM	AISI 420 / MS58
YAY	SPRING	AISI 304
KLAPE	DISC	RG5 / AISI 420
CONTA	GASKET	KLINGRIT

CODE	IMPA	DN	ØD	ØK	Øg	L	b	H	STROK	Ødxn	KG
755841	15	95	65	45	130	14	64	7	14x4	3,5	
755842	20	105	75	58	150	16	64	7	14x4	4	
755843	25	115	85	68	160	16	67	9	14x4	5	
755844	32	140	100	78	180	18	72	10	18x4	8	
755845	40	150	110	88	200	18	84	12	18x4	9	
755846	50	165	125	102	230	20	89	18	18x4	13	
755847	65	185	145	122	290	20	100	20	18x4	18,5	
755848	80	200	160	138	310	22	106	22	18x8	20	
755849	100	220	180	158	350	24	134	27	18x8	32	
755850	125	250	210	188	400	26	151	32	18x8	47	
755851	150	285	240	212	480	26	196	42	22x8	72	
755853	200	340	295	268	600	30	246	52	22x12	110	
755854	250	405	355	320	730	32	242	65	26x12	140	
7558**	300	460	410	378	850	32	282	78	26x12	230	
7558**	350	520	470	438	980	36	380	100	26x16	430	

### UYGULAMA ALANLARI / APPLICATIONS

DENİZ SUYU, TATLI SU, YAĞ VE 220°C KADAR BUHAR DEVRELERİNDE SEA WATER, FRESH WATER, OIL AND STEAM UP TO 220°C SYSTEMS

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

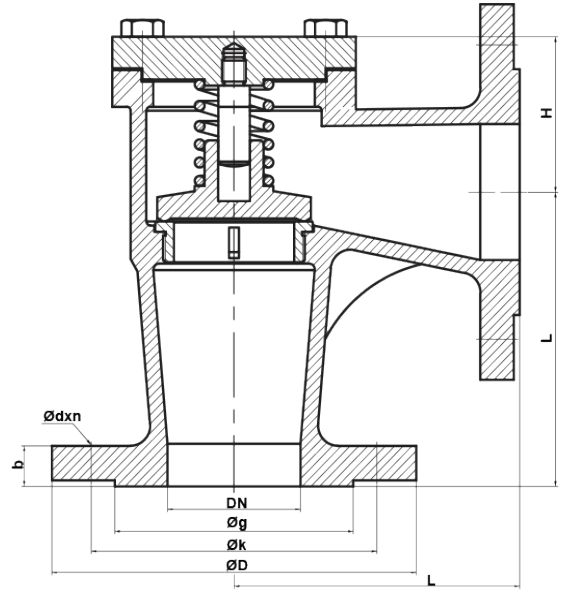
ÇALIŞMA ŞARTLARI / WORKING CONDITIONS: DIN 2401  
BAĞLANTILAR / ENDS: DIN 1092-2  
ÇALIŞMA SICAKLIĞI / WORKING TEMP.: -10°C / 220°C  
ÇALIŞMA BASINCI / WORKING PRESSURE: PN16  
FACE TO FACE DIMENSIONS: TS EN 558-1

### RENKLER / COLORS

PIK DÖKÜM VANALAR / CAST IRON VALVES:  
MAVİ / BLUE  
ZEYTİN YEŞİLİ / OLIVE GREEN  
SFERO DÖKÜM VANALAR / DUCTILE IRON VALVES:  
SERTİFİKALI VANALAR / CERTIFICATE VALVES:  
LACIVERT / ULTRAMARINE



## Çek Vana (Gönye Tip) / Check Valve (Angle Type)



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GG25/GGG40.3/IG5-10
SİT	SEAT	BRONZE / AISI 420
KAPAK	BONNET	ST 37
MİL	STEM	AISI 420 / MS58
YAY	SPRING	AISI 304
KLAPE	DISC	RG5 / AISI 420
CONTA	GASKET	KLINGRIT
CİVATA	BOLT	8.8 STEEL

CODE	IMPA	DN	OD	OK	Og	L	b	H	STROK	Odxn	KG
755855	15	95	65	45	90	14	50	9	14x4	3,5	
755856	20	105	75	58	95	16	50	9	14x4	4	
755857	25	115	85	68	100	16	54	12	14x4	5	
755858	32	140	100	78	105	18	57	13	18x4	8	
755859	40	150	110	88	115	18	69	15	18x4	9	
755860	50	165	125	102	125	20	71	20	18x4	12	
755861	65	185	145	122	145	20	77	22	18x4	16	
755862	80	200	160	138	155	22	86	25	18x8	20	
755863	100	220	180	158	175	24	110	30	18x8	31	
755864	125	250	210	188	200	26	97	34	18x8	42	
755865	150	285	240	212	225	26	129	42	22x8	54	

### UYGULAMA ALANLARI / APPLICATIONS

DENİZ SUYU, TATLI SU, YAĞ VE 220°C KADAR BUHAR DEVRELERİNDE SEA WATER, FRESH WATER, OIL AND STEAM UP TO 220°C SYSTEMS

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

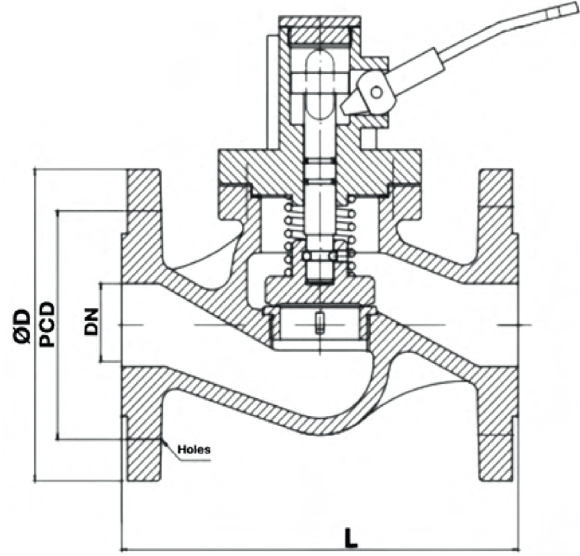
ÇALIŞMA ŞARTLARI / WORKING CONDITIONS: DIN 2401  
BAĞLANTILAR / ENDS: DIN 1092-2  
ÇALIŞMA SICAKLIĞI / WORKING TEMP.: -10°C / 220°C  
ÇALIŞMA BASINCI / WORKING PRESSURE: PN16  
FACE TO FACE DIMENSIONS: TS EN 558-1

### RENKLER / COLORS

PİK DÖKÜM VANALAR / CAST IRON VALVES:  
MAVİ / BLUE  
SFERO DÖKÜM VANALAR / DUCTILE IRON VALVES:  
ZEYTİN YEŞİLİ / OLIVE GREEN  
SERTİFİKALI VANALAR / CERTIFICATE VALVES:  
LACİVERT / ULTRAMARINE BLUE



## Dreyn Vanası (Düz Tip - Yaylı)/Self Closing Valve(Straight Type-Spring Loaded)



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GGG40.3
SİT	SEAT	AISI 420 / BRONZE
KAPAK	BONNET	GGG40.3
MİL	STEM	X20Cr13
O-RING	O-RING	VITON
YAY	SPRING	SPRING STEEL C
KLAPE	DISC	X20Cr13 / RG5
BİLYA	BALLS	X20Cr1Ni8
SETUSKUR	SCREW	AISI 304
KOL	LEVER	AISI 304
CIVATA	SCREW	AISI 304
SETUSKUR CIVATA	GRUB SCREW	8.8 STEEL
KAPAK VIDASI	BONNET SCREW	M8 58

CODE	IMPA	DN	ØD	Øk	Øg	L	b	H	L1	STROK	Ødxn	KG
874621	15	95	65	45	90	14	160	164	9	14x4	3,8	
874622	20	105	75	58	95	16	160	164	9	14x4	4,5	
874623	25	115	85	68	100	16	165	164	12	14x4	6,5	
874624	32	140	100	78	105	18	170	164	13	18x4	7,4	
874625	40	150	110	88	115	18	185	164	15	18x4	10,5	
874626	50	165	125	102	125	20	190	167	20	18x4	13,5	
874627	65	185	145	122	145	20	205	167	22	18x4	18	
874628	80	200	160	138	155	22	250	167	25	18x8	23	
874629	100	220	180	158	175	24	270	167	30	18x8	36	
874630	125	250	210	188	200	26	315	200	34	18x8	54	
-	150	285	240	212	225	26	370	225	42	22x8	72	

### UYGULAMA ALANLARI / APPLICATIONS

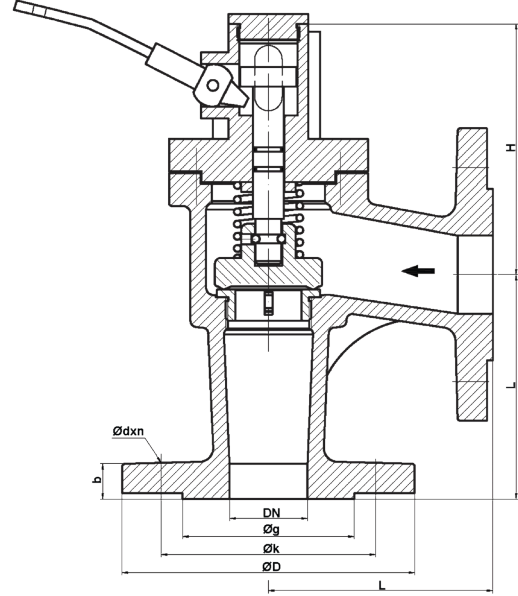
YAĞ VE DİZEL SİSTEMLERDE / OIL AND FUEL SYSTEMS

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

ÇALIŞMA ŞARTLARI / WORKING CONDITIONS: DIN 2401  
BAĞLANTILAR / ENDS: DIN 1092-2  
VANA BOYUTLARI / VALVE DIMENSIONS: DIN 3202 F1  
ÇALIŞMA SICAKLIĞI / WORKING TEMP.: -10°C / +220°C  
ÇALIŞMA BASINCI / WORKING PRESSURE: PN16  
FACE TO FACE DIMENSIONS: TS EN 558-1



## Dreyn Vanası(Gönye Tip - Yaylı) / Self Closing Valve(Angle Type - Spring Loaded)



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GGG40.3
SİT	SEAT	AISI 420 / BRONZE
KAPAK	BONNET	GGG40.3
MİL	STEM	X20Cr13
O-RİNG	O-RING	VITON
YAY	SPRING	SPRING STEEL C
KLAPE	DISC	X20Cr13 / RG5
BİLYA	BALLS	X20Cr5Ni8
SETUSKUR	SCREW	AISI 304
KOL	LEVER	AISI 304
CİVATA	SCREW	AISI 304
SETUSKUR CİVATA	GRUB SCREW	8.8 STEEL
KAPAK VIDASI	BONNET SCREW	Ms 58

CODE IMPA	DN	ØD	Øk	Øg	L	b	H	L1	STROK	Ødxn	KG
874631	15	95	65	45	90	14	160	164	9	14x4	3,8
874632	20	105	75	58	95	16	160	164	9	14x4	4,5
874633	25	115	85	68	100	16	165	164	12	14x4	6,5
874634	32	140	100	78	105	18	170	164	13	18x4	7,4
874635	40	150	110	88	115	18	185	164	15	18x4	10,5
874636	50	165	125	102	125	20	190	167	20	18x4	13,5
874637	65	185	145	122	145	20	205	167	22	18x4	18
874638	80	200	160	138	155	22	250	167	25	18x8	23
874639	100	220	180	158	175	24	270	167	30	18x8	36
874640	125	250	210	188	200	26	315	200	34	18x8	54
874645	150	285	240	212	225	26	370	225	42	22x8	72

### UYGULAMA ALANLARI / APPLICATIONS

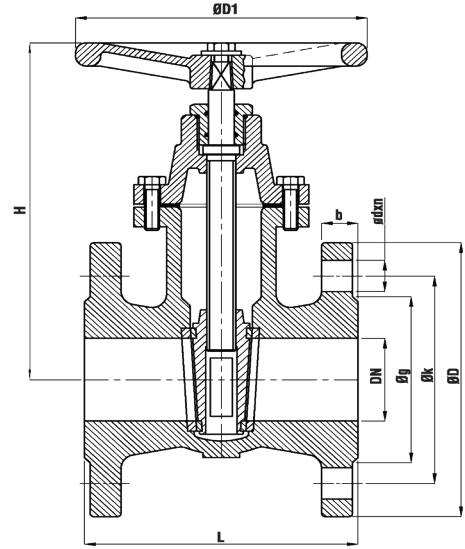
YAĞ VE DİZEL SİSTEMLERDE / OIL AND FUEL SYSTEMS

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

ÇALIŞMA ŞARTLARI / WORKING CONDITIONS: DIN 2401  
BAĞLANTILAR / ENDS: DIN 1092-2  
VANA BOYUTLARI / VALVE DIMENSIONS: DIN 3202 F1  
ÇALIŞMA SICAKLIĞI / WORKING TEMP.: -10°C / +220°C  
ÇALIŞMA BASINCI / WORKING PRESSURE: PN16  
FACE TO FACE DIMENSIONS: TS EN 558-1



## Sürgülü Vana Pn10-PN16 (DIN 3216) / Gate Valve PN10-PN16(DIN3216)



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GG25/GGG40/RG5-10
SİT	SEAT	BRASS / BRONZE
SÜRGÜ	WEDGE	GG25/GGG40/RG5-10
MİL	STEM	STAINLESS STEEL/MS58
CONTA	GASKET	NBR/VITON
KAPAK	BONNET	GG25/GGG40/RG5-10
HENDİL	HANDWHEEL	GG20/RG5-10

CODE IMPA	PN10					PN16			
	DN	OD	L	PCD	HOLES	OD	L	PCD	HOLES
755601	40	150	140	85	4X19	150	140	85	4X19
755602	50	165	150	90	4X19	165	150	90	4X19
755603	65	185	170	100	4X19	185	170	100	4X19
755604	80	200	180	110	8X19	200	180	110	8X19
755605	100	220	190	130	8X19	220	190	130	8X19
755606	125	250	200	150	8X19	250	200	150	8X19
755607	150	285	210	170	8X23	285	210	170	8X23
755608	200	340	230	200	8X23	340	230	200	8X23
755609	250	395	250	225	12X23	405	250	225	12X23
755610	300	445	270	280	12X23	460	270	280	12X23

### UYGULAMA ALANLARI / APPLICATIONS

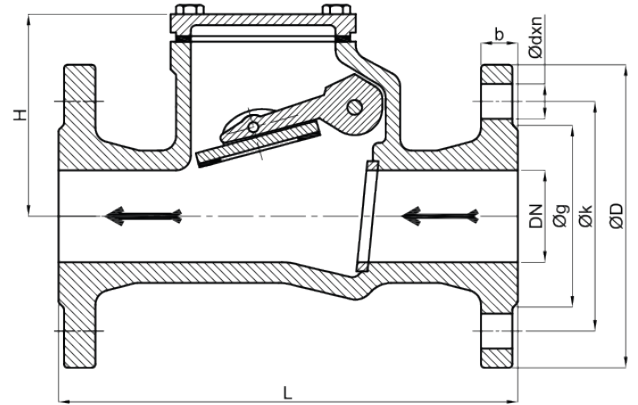
SICAK VE SOĞUK SU SİSTEMLERİ / HOT AND COLD WATER SYSTEMS  
SIVI YAKIT TESİSATLARI / LIQUID FUEL INSTALLATION  
ASİT VE ALKALİ ÖZELLİĞİ BULUNMAYAN YANICI OLMAYAN AKIŞKANLAR  
FLUID EXCLUDING ACID & NON-FLAMMABLE FLUIDS

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

BAĞLANTILAR / ENDS: DIN 1092-2  
ÇALIŞMA SICAKLIĞI / WORKING TEMP.: -10°C / +120°C  
ÇALIŞMA BASINCI / WORKING PRESSURE: PN10  
FACE TO FACE DIMENSIONS: TS EN 558-1  
TESTLER / TESTS: TS EN12266-1



## Çalpara Çek Valf / Swing Check Valve



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GG25/GGG40
SİT	SEAT	BRASS / BRONZE
SÜRGÜ	WEDGE	GG25+NBR/GGG40+NBR
MİL	STEM	STAINLESS STEEL
CONTA	GASKET	NBR/EPDM
KAPAK	BONNET	GG25/GGG40

CODE	IMPA	DN	L	H	ØD	Øk	PN16			KG
							Øg	b	Ødxn	
755911		40	180	80	150	110	84	18	18x4	9,10
755912		50	200	105	165	125	99	20	18x4	11,20
755913		65	240	135	185	145	118	20	18x4	17,10
755914		80	260	145	200	160	132	22	18x8	20,10
755915		100	300	175	220	180	156	24	18x8	27,60
755916		125	350	210	250	210	184	26	18x8	45,80
755917		150	400	215	285	240	211	26	22x8	60,60
755918		200	500	241	340	295	266	26	22x12	71,20
755919		250	600	297	405	355	319	32	26x12	121,50

### UYGULAMA ALANLARI / APPLICATIONS

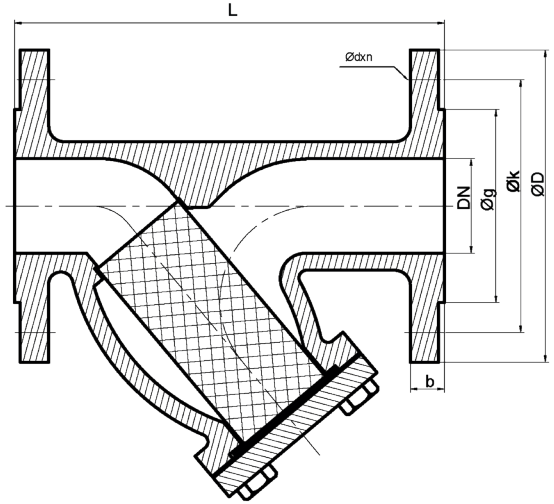
SICAK VE SOĞUK SU SİSTEMLERİ / HOT AND COLD WATER SYSTEMS  
SIVI YAKIT TESİSATLARI / LIQUID FUEL INSTALLATION  
ASİT VE ALKALİ ÖZELLİĞİ BULUNMAYAN YANICI OLMAYAN  
AKIŞKANLAR FLUID EXCLUDING ACID & NON FLAMMABLE FLUIDS

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

BAĞLANTILAR / ENDS: DIN EN 1092-2  
FACE TO FACE DIMENSIONS: TS EN 558-1  
ÇALIŞMA SICAKLIĞI / WORKING TEMP.: -10°C / +120°C  
ÇALIŞMA BASINCI / WORKING PRESSURE: PN16  
TESTLER / TEST: TS EN 12266-1



## Pislik Tutucu / Y Type Filter



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GG25/GGG40.3/GSC25/RG5-10
FİLTRE	FILTER	AISI 304
CONTA	GASKET	PTFE/GRAPHITE
KAPAK	BONNET	GGG40.3/GG25/GS-C25/RG5-10
CIVATA	BOLT	8.8 STEEL

CODE IMPA	DN	L	ØD	Øg	Øk	b	Ødxn	ØD
752457	15	130	95	45	65	14	Ø14x4	
752458	20	150	105	58	75	16	Ø14x4	
752459	25	160	115	68	85	16	Ø14x4	
752460	32	180	140	78	100	18	Ø18x4	
752461	40	200	150	88	110	18	Ø18x4	
752462	50	230	165	102	125	20	Ø18x4	
752463	65	290	185	122	145	20	Ø18x4	
752464	80	310	200	138	160	20	Ø18x8	
752465	100	350	220	158	180	22	Ø18x8	
752466	125	400	250	188	210	22	Ø18x8	
752467	150	480	285	212	240	24	Ø22x8	
752468	200	600	340	268	295	26	Ø22x12	
752469	250	730	405	320	355	29	Ø26x12	
752470	300	850	460	378	410	32	Ø26x12	
-	350	980	520	438	470	35	Ø26x16	
-	400	1100	580	490	525	38	Ø30x16	

### UYGULAMA ALANLARI / APPLICATIONS

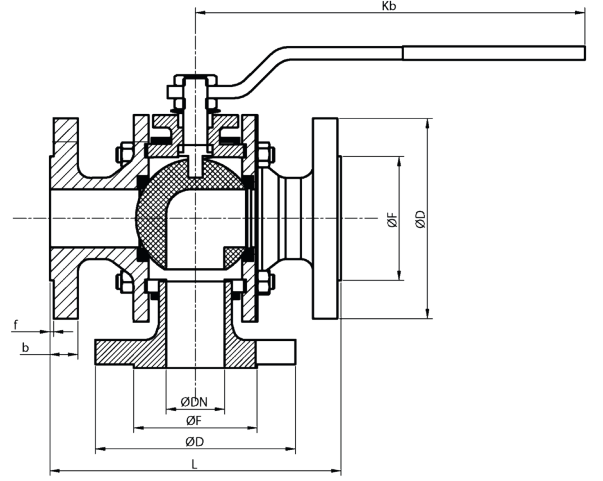
BUHAR, SICAK SU, SOĞUK SU, KIZGIN SU, GAZ SİSTEMLERİ,  
KİMYASAL AKIŞKANLAR, ASİT VE ALKALİN NİTELİĞİ BULUNMAYAN  
AKIŞKANLAR, BASINÇLI HAVA, ENDÜSTRİYEL UYGULAMALAR  
HOT-COLD WATER, GAS SYSTEMS, CHEMICAL FLUIDS,  
PRESSURE AIR, ETC.

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

BAĞLANTILAR / ENDS: DIN EN 1092-2  
FACE TO FACE DIMENSIONS: TS EN 558-1 F1  
ÇALIŞMA BASINCI / WORKING PRESSURE: PN16



## Küresel Vana(3 yollu , Flanslı,T-L Port) / Ball Valve(3 Way,Flanged,T-L Port)



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	KARBON ÇELİK/AISI304/AISI316
KAPAK	COVER	KARBON ÇELİK/AISI304/AISI316
3.YOL	3.WAY	KARBON ÇELİK/AISI304/AISI316
CEKET	JACKET	KARBON ÇELİK/AISI304/AISI316
KÜRE	BALL	1.4301/1.4086/AISI304/AISI316
MİL	STEM	1.4021/AISI304/AISI316
KÜRE CONTA	BALL SEAL	PTFE
GÖVDE CONTA	BODY SEAL	PTFE
BOĞAZ CONTA	NECK SEAL	PTFE
BASKI RİNGİ	PRESSURE RING	ST42/AISI304
ÇANAK PUL	BOWL WASHER	CK70/AISI304
KONTRA SOMUN	COUNTER NUT	5.6/AISI304
SAPLAMA	STUD BOLT	ST42/AISI304
SOMUN	NUT	5.6/AISI304
STOPLAMA PİNİ	STOPPING PIM	ST42/AISI304
KOL	HANDLE	ST37/AISI304

CODE	IMPA	DN	L	Kb	h	f	ØD	b	ØK	H	ØN	ØF	H	ØG	ØS
756700	15	130	150	80	2	95	14	65	4	14	46	70	36	M6	
756701	20	150	150	85	2	105	16	75	4	14	56	80	42	M6	
756702	25	160	185	90	2	115	16	85	4	14	65	85	42	M6	
756703	32	180	240	100	2	140	16	100	4	18	76	90	50	M6	
756704	40	200	280	120	3	150	16	110	4	18	84	100	50	M6	
756705	50	230	280	125	3	165	18	125	4	18	99	115	70	M8	
756706	65	290	330	150	3	185	18	145	4	18	118	145	70	M8	
756707	80	310	400	160	3	200	20	160	4	18	132	160	102	M10	
756708	100	350	460	175	3	220	20	180	4	18	156	180	125	M12	
756709	125	400	460	200	3	250	22	210	4	18	184	220	125	M12	
756710	150	450	670	265	3	285	22	240	4	22	211	300	125	M12	

### UYGULAMA ALANLARI / APPLICATIONS

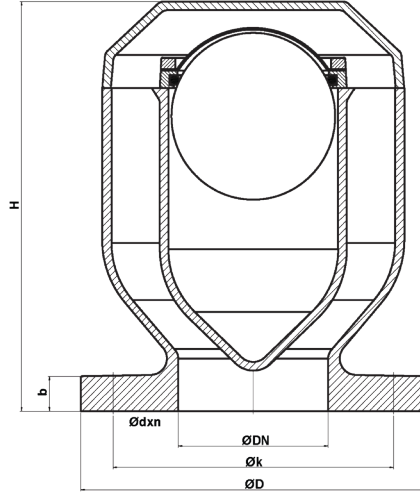
SU, SICAK SU, BASINÇLI HAVA / WATER, HOT WATER, STEAM, PRESSURIZED AIR

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

BAĞLANTILAR / ENDS: DIN EN 1092-1  
FACE TO FACE DIMENSIONS: EN 558-1  
ÇALIŞMA SICAKLIĞI / WORKING TEMP.: -30°C / +200°C  
ÇALIŞMA BASINCI / WORKING PRESSURE: PN16  
TEST: EN 12266-1



## Hava Firar Başı / Air Vent Pipe Head



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GG25
TOP	BALL	PTFE
O RING FLANŞLI	O RING HOLDER RING	RG5
O RING	O RING	NBR
TEL	STRAINER	316
TEL BASKI FLANŞI	STRAINER HOLDER RING	RG5
CİVATA	BOLT	316
KAPAK	BONNET	GR25

CODE IMPA	DN	OD	Øk	b	Ødkn	H	KG
872374	DN50	165	125	20	18x4	160	5,35
872375	DN65	185	145	20	18x4	195	7,7
872376	DN80	200	160	20	18x8	218	9,6
872377	DN100	220	180	22	18x8	260	13,2
872365	DN125	250	210	22	18x8	305	19
872366	DN150	285	240	24	22x8	365	27,3
872368	DN200	340	295	26	22x12	460	47
872369	DN 250	405	355	28	26x12	570	78
872370	DN 300	460	410	28	26x12	730	142

### UYGULAMA ALANLARI / APPLICATIONS

TÜM DENİZ ARAÇLARININ (KARGO, TANKER, YÜK GEMİSİ, DUBA, YAT V.B) TANKLARININ HAVALANDIRMASINDA KULLANILABİLİR.  
THIS SYSTEM FOR ALL TANKS VENTILATION OF MARINE VEHICLES (CHEMICAL TANKERS, TUGS, YACHTS, CARGO SHIPS, BARGE, ETC.)

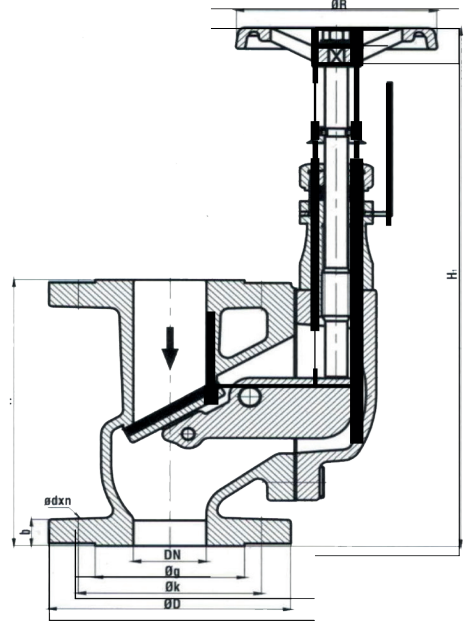
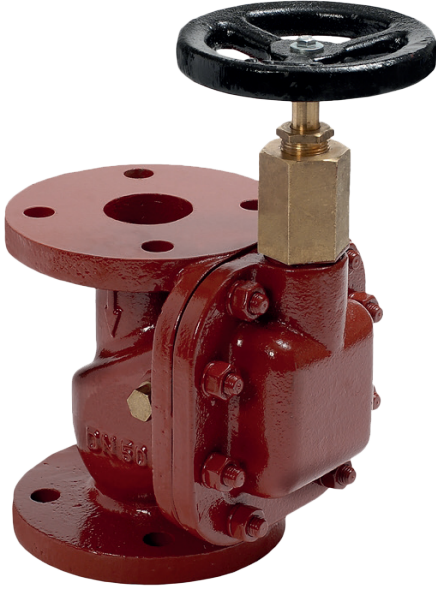
### UYGULAMA ALANLARI / APPLICATIONS

-BALLAST TANKS  
-FUEL / OIL TANKS  
-DIESEL / OIL TANKS  
-FRESH WATER TANKS / TATLI SU TANKLARI  
-SEWAGE TANKS / PİS SU TANKLARI  
-BİLGE TANKS / SİNTİNE TANKLARI

HAVA FIRARLARIMIZDA SERTİFİKALI TOP KULLANILMAKTADIR.  
ÜRÜNLERDE HEMPEL EPOXY BOYA KULLANILMAKTADIR.  
BALL IS CERTIFICATED  
PAINT: HEMPEL EPOXY



## Tuvalet Çalparası-Fırtına Vanası (Düz Tip) / Storm Valve (Straight Type)



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GGG40.3/BRONZE
KLAPE	DISC	RG6
CONTA	GASKET	NBR
KLAPE AĞIRLIK	DISC WEIGHT	GGG40.3
PİM & KOPILYA	PIN & KOTTER PIN	CuZn39Pb3
MERKEZLEME PİMİ	CENTER PIN	CuZn39Pb3
CONTA	GASKET	KLINGERIT
KAPAK	BONNET	GGG40.3/BRONZE
CIVATA	BOLT	8.8 STEEL
MİL	STEM	AISI 420

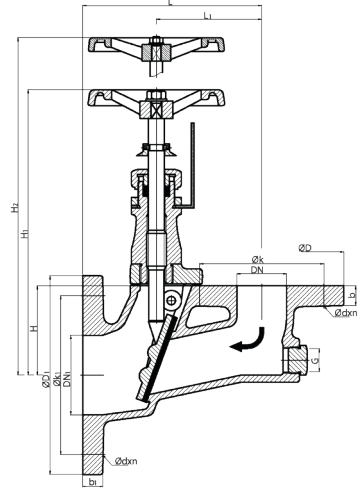
CODE IMPA	DN	ØD	Øg	Øk	b	H	H <sub>1</sub>	ØR	Ødxn	STROK	KG
754291	50	165	102	125	20	200	320	160	18x4	40	17,5
754292	65	185	122	145	20	240	360	160	18x4	40	22
754293	80	200	138	160	20	260	380	160	18x8	50	27
754294	100	220	158	180	22	300	430	200	18x8	50	38
754295	125	250	188	210	22	350	500	200	18x8	55	50
754296	150	285	212	240	24	400	545	200	22x8	60	65

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

DIZAYN / DESIGN: DIN HNA SR6  
BAĞLANTILAR / ENDS: FLANŞ EN1092-3/A (DIN 2501) / FLANGES EN1092-3/A (DIN 2501)  
ÇALIŞMA BASINCI / WORKING PRESSURE: PN4 to PN10  
ÇALIŞMA SICAKLIĞI / WORKING TEMP.: -10°C / +60°C  
FLANŞ SEÇENEKLERİ / FLANGE OPTIONS: ANSI VEYA JIS ÖZEL FLANŞ YAPILABİLİR.  
SPECIAL FLANGE DRILLING ACC. TO ANSI OR JIS



## Tuvalet Çalparası-Fırtına Vanası (Gönye Tip) / Storm Valve (Angle Type)



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GGG40.3/BRONZE
KLAPE	DISC	RG5
CONTA	GASKET	NBR
KLAPE AĞIRLIK	DISC WEIGHT	GGG40.3
PİM & KOPİLYA	PIN & KOTTER PIN	CuZn39Pb3
MERKEZLEME PİMİ	CENTER PIN	CuZn39Pb3
CONTA	GASKET	KLINGERIT
KAPAK	BONNET	GGG40.3/BRONZE
ÇİVATA	BOLT	8.8 STEEL
MİL	STEM	AISI 420

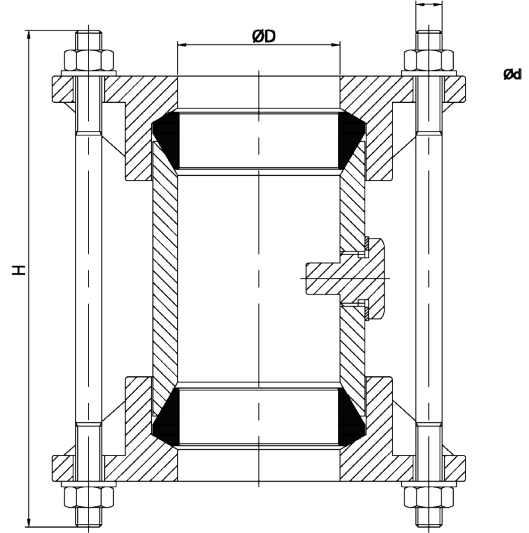
CODE	IMPA	DN	DN <sub>1</sub>	D	D <sub>1</sub>	k	k <sub>1</sub>	b	b <sub>1</sub>	L	L <sub>1</sub>	H	H <sub>1</sub>	Ød <sub>xn</sub>	Ød <sub>xn</sub>	G	KG
754277		50	80	165	200	125	160	20	20	180	96	90	290	18x4	18x8	3/4"	12,5
754277		65	100	185	220	145	180	20	22	200	107,5	100	295	18x4	18x8	3/4"	16
754277		80	125	200	250	160	210	20	22	215	129	108	305	18x8	18x8	3/4"	20
754277		100	150	220	285	180	240	22	24	250	145	130	340	18x8	22x8	1"	27,5
754277		125	175	250	315	210	270	22	24	290	177	152	400	18x8	22x8	1"	37
754277		150	200	285	340	240	295	24	26	330	199	176	425	22x8	22x8	1"	52

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

DIZAYN / DESIGN: DIN HNA SR6  
BAĞLANTILAR / ENDS: FLANŞ EN1092-3/A (DIN 2501) / FLANGES EN1092-3/A (DIN 2501)  
ÇALIŞMA BASINCI / WORKING PRESSURE: PN4 to PN10  
ÇALIŞMA SICAKLIĞI / WORKING TEMP.: -10°C / +60°C  
FLANŞ SEÇENEKLERİ / FLANGE OPTIONS: ANSI VEYA JIS ÖZEL FLANŞ YAPILABİLİR.  
SPECIAL FLANGE DRILLING ACC. TO ANSI OR JIS



## Boru Baęlama Kaplini / Pipe Coupling



PARA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GGG40.3
BORU	PIPE	ST42
PUL	WASHER	COPPER
TAPA	PLUG	AISI 316
CONTA	GASKET	NBR
SAPLAMA	STUD	6.8 STEEL
SOMUN & PUL	NUT & WASHER	5.2 STEEL

CODE IMPA	DN	PN	ØD	H	Ødxn	KG
-	50	16	62	190	M10x4	5,35
-	65	16	79	190	M10x4	7,40
-	80	16	91	190	M10x4	7,85
-	100	16	117	190	M10x4	9,10
-	125	16	144	190	M10x6	12,00
734941	150	16	171	210	M12x6	15,00
734942	200	16	222	210	M12x8	20,00
734943	250	16	276	220	M14x8	27,00
734944	300	16	327	240	M14x10	32,00
734945	350	6	360	290	M16x10	45,00
734946	400	6	411	300	M18x10	-
734947	450	6	461	300	M18x10	-
734948	500	6	515	300	M18x10	-

### UYGULAMA ALANLARI / APPLICATIONS

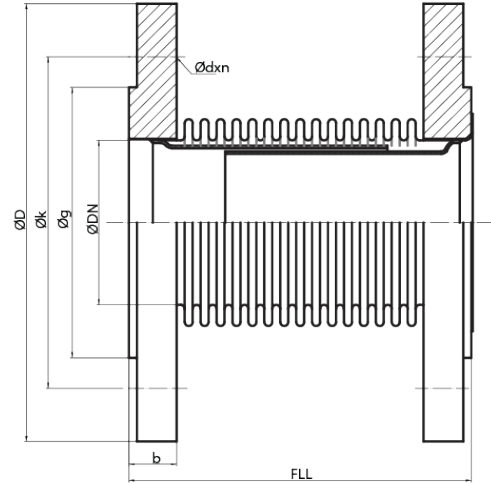
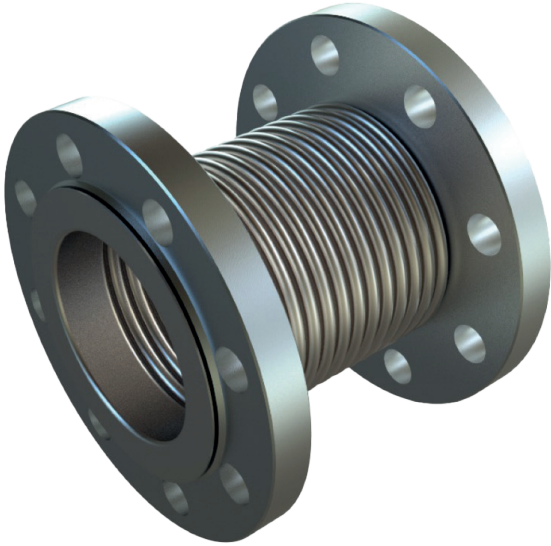
BALANS DEVRESİ / BALAST PIPE LINE

YANGIN DEVRESİ / FIRE PIPE LINE

ELEKTRİK KABLO DEVRESİ / ELECTRICAL PIPE LINE



## Metal K r kl  Kompansat r / Metal Bellow Expansion Joint



PAR�A ADI	PART NAME	MALZEME / MATERIAL
FLANŐ	FLANGE	ST37
K�R�K	BELLOWS	AISI 304 - 316 - 321
LAYNER	SLEEVE	AISI 304 - 316 - 321

CODE IMPA	DN	�D	�k	�g	�b	�dxn	L <sub>0</sub> : 30mm		L <sub>0</sub> : 60mm		KG	
							FLL	KBL	FLL	KBL	FLL	KBL
735141	25	115	85	68	16	14x4	120	170			2	0,20
735142	32	140	100	78	16	18x4	120	170			3,3	0,43
735143	40	150	110	88	16	18x4	120	170			3,9	0,60
735144	50	165	125	102	18	18x4	120	170			4,6	0,76
735145	65	185	145	122	18	18x4	120	170	180	230	6	1,1
735146	80	200	160	138	20	18x8	120	190	180	230	6,7	1,5
735147	100	220	180	158	20	18x8	130	190	190	260	8,2	2,2
735148	125	250	210	188	22	18x8	140	200	190	260	10,4	2,6
735149	150	285	240	212	22	22x8	140	200	200	280	15,6	3,4
735150	200	340	295	268	24	22x12	140	200	200	280	19	4,8
735251	250	405	355	320	26	26x12	150	200	210	280	21,4	10,74

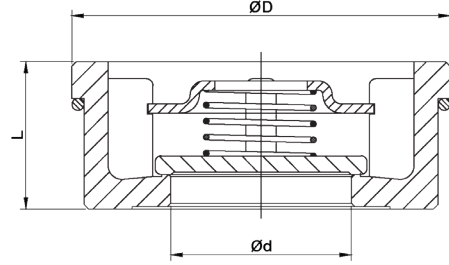
### TEKNİK  ZELLİKLER / TECHNICAL PROPERTY

BASIN  / PRESSURE: PN16/PN25/PN40  
SICAKLIK / TEMPERATURE: -800 C / +427 C  
GENLEŐME / EXPANSION: 30MM (-20;+10), 60MM (-40;+20)

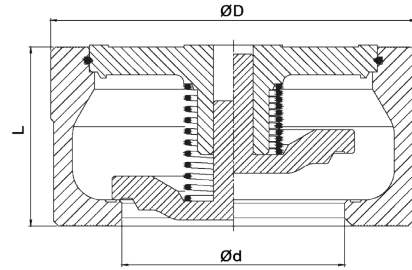
L<sub>0</sub>: 30MM/60MM GENLEŐME İ İN TOPLAM BOY  
L<sub>0</sub>: OVERALL LENGHT FOR 30MM OR 60MM



## Disk Tip Çek Valf / Disco Check Valve



DN15 - DN100



DN125-DN250

PARÇA ADI	PART NAME	MALZEME / MATERIAL	
		DN 15 - 100	DN 125 - 250
GÖVDE	BODY	MS58/SS316	GGG50
DISK	DISK	AISI 304	GGG50
YAY	SPRING	CrNi	CrNi
SEGMAN	SEGMENT	AISI 304	AISI 304/SS316
ÇEMBER	HOOP	AISI 304	-

DN	ØD	Ød	L	KG
15	40	15	16	0,09
20	47	20	18,7	0,14
25	56	25	21,5	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	10,18
200	264	175	140	21,34
250	328	225	200	40,20

### UYGULAMA ALANLARI / APPLICATIONS

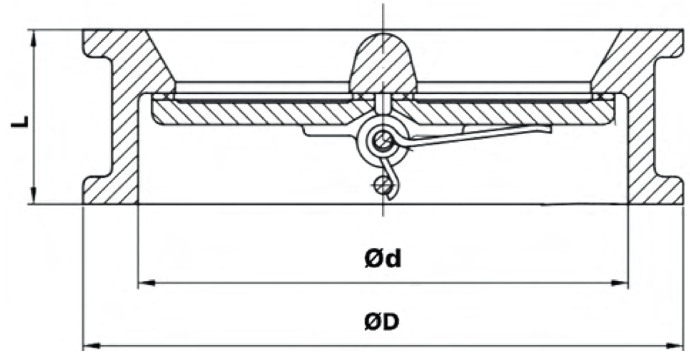
SU, SICAK SU, BUHAR, BASINÇLI HAVA  
WATER, HOT WATER, STEAM, COMPRESSED AIR

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

BAĞLANTILAR / ENDS: ÖZEL / SPECIAL  
ÇALIŞMA SICAKLIĞI / WORKING TEMP.: -10°C / +250°C,  
ÇALIŞMA BASINCI / WORKING PRESSURE: PN16



## Çift Klapeli Çek Valf / Dual Plate Check Valve



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GG25 / GGG40.3
KLAPE	DISC	ALU-BRONZE / SS316
YAY	SPRING	AISI 304
SİT	SEAT	NBR / EPDM
CONTA	GASKET	NBR

CODE IMPA	SIZE	Ød	ØD	L
756071	DN50	65	107	43
756072	DN65	80	127	46
756073	DN80	94	142	64
756074	DN100	117	162	64
756075	DN125	145	192	70
756076	DN150	170	218	76
756077	DN200	224	268	89
756078	DN250	265	327	114
756079	DN300	310	384	114
756080	DN350	360	438	127
756081	DN400	410	488	140

### UYGULAMA ALANLARI / APPLICATIONS

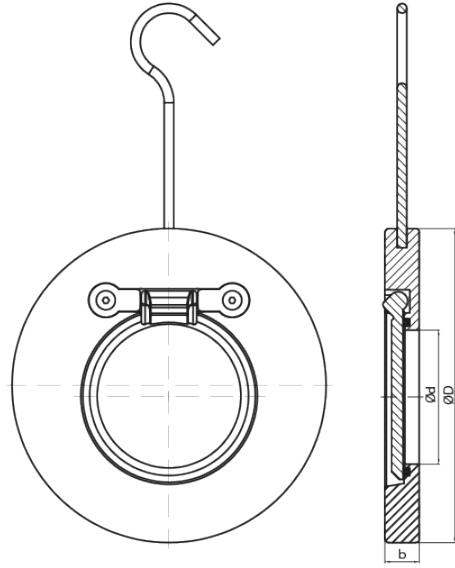
SICAK VE SOĞUK SU SİSTEMLERİ / HOT AND COLD WATER  
SIVI YAKIT TESİSATLARI / LIQUID FUEL SYSTEM  
ASİT VE ALKALİ ÖZELLİĞİ BULUN MAYAN YANICI OLMAYAN AKIŞKANLARDA  
FLUID EXCLUDING ACID & NON FLAMMABLE FLUIDS

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

BASINÇ / PRESSURE : PN16  
SICAKLIK / TEMPERATURE : -10° / +100°  
ÇALIŞMA BASINCI / WORKING PRESSURE: PN16



## Wafer Tip Çalpara Çek Valf / Wafer Type Swing Check Valve



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	ST42/SS 316/RG5
O RİNG	O RING	NBR/EPDM
KLAPE	DISC	AISI 316/ALU.BRONZE
PUL	WASHER	AISI 304
CİVATA	BOLT	AISI 304
MAPA	EYE BOLT	SAE 1040

CODE IMPA	SIZE	Ød	ØD	b
755976	DN40	22	94	14
755977	DN50	32	109	16
755978	DN65	40	129	16
755979	DN80	54	144	16
755980	DN100	70	164	18
755981	DN125	92	195	18
755982	DN150	112	220	20
755983	DN200	158	275	22
755984	DN250	192	330	25
755985	DN300	234	380	30
755986	DN350	266	440	38
755987	DN400	305	490	40

### UYGULAMA ALANLARI / APPLICATIONS

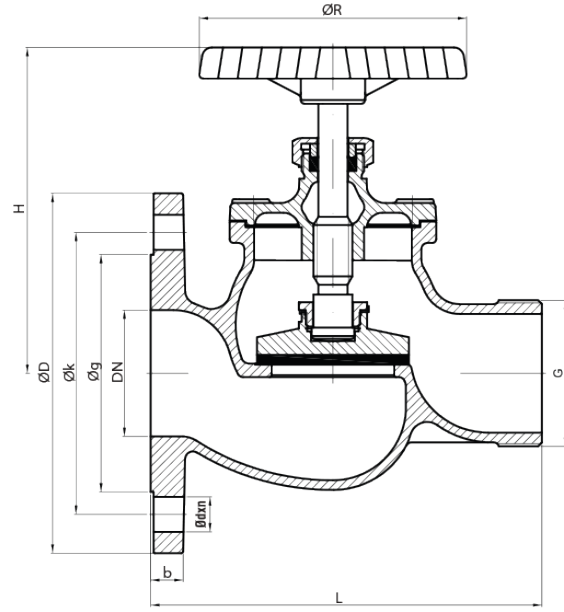
SU / WATER

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

ÇALIŞMA SICAKLIĞI / WORKING TEMP.: -10°C / +120°C  
ÇALIŞMA BASINCI / WORKING PRESSURE: PN16



## Yangın Vanası (Düz Tip, Bronz, Flanşlı) / Fire Hose Valve (Straight, Bronze, Flanged)



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	RG5
KLAPE	DISC	RG5
MİL	STEM	CuZn39Pb3 (Ms58)
SETUSKUR CİVATA	SET SCREW	8.8 STEEL
KLAPE CONTASI	DISC GASKET	EPDM
SOMUN&PUL	NUT&WASHER	8.8 STEEL
CONTA	GASKET	KLINGRIT
KAPAK	BONNET	RG5
CİVATA	BOLT	CuZn39Pb3 (Ms58)
SALMASTRA	PACKING	GRAPHITE
SALMASTRA BASKISI	PACKING PRESS	CuZn39Pb3 (Ms58)
SALMASTRA SOMUNU	PACKING NUT	CuZn39Pb3 (Ms58)
HENDİL	HAND WHEEL	GG25
CİVATA & PUL	BOLT & WASHER	8.8 STEEL

CODE İMPA	DN	ØD	Øk	Øg	b	Ødxn	L	H	ØR	G	KG
756051	40	150	110	88	18	18x4	150	130	110	R 1 1/2"	5,4
756052	50	165	125	102	20	18x4	165	140	140	R 2"	6,8
756053	65	185	145	122	20	18x4	200	160	140	R 2 1/2"	9

### UYGULAMA ALANLARI / APPLICATIONS

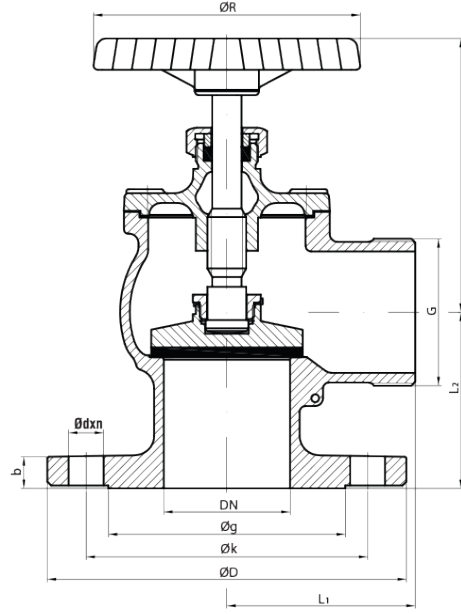
DENİZ SUYU, KONDENS SİSTEMLERİ, ARITMA SİSTEMLERİ,  
HVAC SİSTEMLERİ  
SEA WATER, CONDENSATION SYSTEM, PURIFICATION SYSTEM,  
HVAC SYSTEM

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

ÇALIŞMA SICAKLIĞI / WORKING TEMP.: -10°C / +100°C  
ÇALIŞMA BASINCI / WORKING PRESSURE: PN16



## Yangın Vanası (Gönye Tip, Bronz, Flanşlı) / Fire Hose Valve (Angle Type, Bronze, Flanged)



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	RG5
KLAPE	DISC	RG5
MİL	STEM	CuZn39Pb3 (Ms58)
SETUSKUR CİVATA	SET SCREW	8.8 STEEL
KLAPE CONTASI	DISC GASKET	EPDM
SOMUN&PUL	NUT&WASHER	8.8 STEEL
CONTA	GASKET	KLINGRIT
KAPAK	BONNET	RG5
CİVATA	BOLT	CuZn39Pb3 (Ms58)
SALMASTRA	PACKING	GRAPHITE
SALMASTRA BASKISI	PACKING PRESS	CuZn39Pb3 (Ms58)
SALMASTRA SOMUNU	PACKING NUT	CuZn39Pb3 (Ms58)
HENDİL	HAND WHEEL	GG25
CİVATA & PUL	BOLT & WASHER	8.8 STEEL

CODE İMPA	DN	ØD	Øk	Øg	b	Ødxn	L <sub>1</sub>	L <sub>2</sub>	H	ØR	G	KG
756055	40	150	110	88	18	18x4	75	65	130	110	R 1 1/2"	5
756056	50	165	125	102	20	18x4	75	75	140	110	R 2"	6,4
756057	65	185	145	122	20	18x4	95	90	160	140	R 2 1/2"	8,2

### UYGULAMA ALANLARI / APPLICATIONS

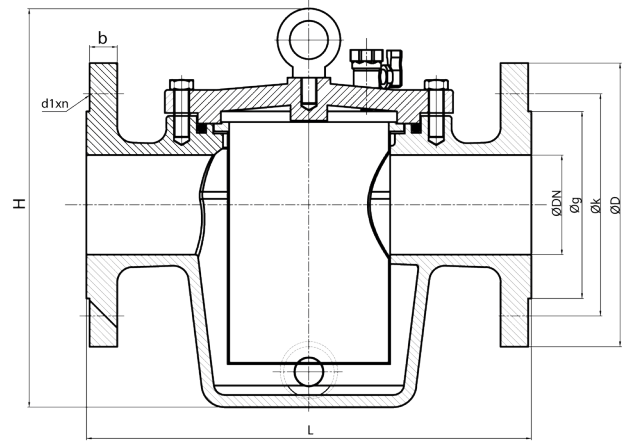
SU / WATER

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

ÇALIŞMA SICAKLIĞI / WORKING TEMP.: -10°C / +120°C  
ÇALIŞMA BASINCI / WORKING PRESSURE: PN16



## Çamur Sandığı (Düz Tip) / Mud Box (Straight Type)



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GGG40.3/RG5-10
SEPET	SCREEN	GAL.STEEL/AISI 316 / BRASS
O RING	O RING	NBR
KAPAK	BONNET	GGG40.3/RG5-10
CİVATA	BOLT	STEEL
KÖR TAPA	PLUG	MS 58
KÜRESEL VANA	BALL VALVE	MS 58
AYBOLT CİVATA	RING BOLT	SAE 1040

CODE IMPA	DN	L	H	ØD	Øk	Øg	b	Ød1xn	KG
8720**	32	200	200	140	100	78	18	18x4	10
872065	40	200	200	150	110	88	20	18x4	10
872066	50	230	221	165	125	102	20	18x4	14
872067	65	290	254	185	145	122	20	18x4	21
872068	80	310	290	200	160	138	22	18x8	27
872069	100	350	335	220	180	158	24	18x8	36
872070	125	400	407	250	210	188	26	18x8	56
872071	150	480	460	285	240	212	26	22x8	78
872073	200	600	575	340	295	268	30	22x12	130
872074	250	600	610	405	355	320	32	26x12	160
8720**	300	600	750	460	410	378	26	26x12	-
8720**	350	800	740	520	470	438	35	26x16	-
8720**	400	740	875	580	525	490	32	30x16	-

### UYGULAMA ALANLARI / APPLICATIONS

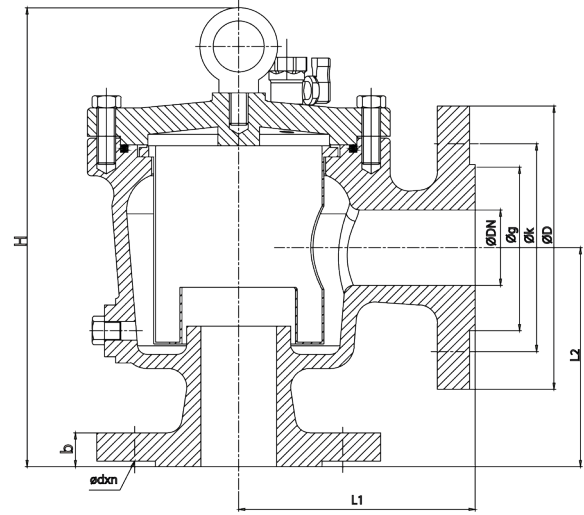
SİNTİNE SİSTEMLERİNDE, EMİŞ VE DEŞARJ HATTINDA,  
DENİZ SOĞUTMA SUYU  
BİLGE SYSTEMS, SUCTION AND DISCHARGE LINES,  
SEA COOLING WATER

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

ÇALIŞMA BASINCI / WORKING PRESSURE: PN4  
FLANŞ SEÇENEKLERİ / FLANGE OPTIONS: ANSI VEYA JIS ÖZEL  
FLANŞ YAPILABİLİR.  
SPECIAL FLANGE DRILLING ACC. TO ANSI OR JIS



## Çamur Sandığı (Gönye Tip) / Mud Box (Angle Type)



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GGG40.3/RG5-10
SEPET	SCREEN	GAL.STEEL/AISI 316 / BRASS
O RING	O RING	NBR
KAPAK	BONNET	GGG40.3/RG5-10
CİVATA	BOLT	STEEL
KÖR TAPA	PLUG	MS 58
KÜRESEL VANA	BALL VALVE	MS 58
AYBOLT CİVATA	RING BOLT	SAE 1040

CODE IMPA	DN	L1	L2	H	ØD	Øk	Øg	b	Ød xn	KG
8720**	32	125	125	228	140	100	78	18	18x4	11
872075	40	125	125	228	150	110	88	20	18x4	12
872076	50	135	135	246	165	125	102	20	18x4	17
872077	65	150	150	271	185	145	122	20	18x4	21
872078	80	175	175	320	200	160	138	22	18x8	29
872079	100	195	195	361	220	180	158	24	18x8	42
872080	125	220	220	407	250	210	188	26	18x8	58
872081	150	270	270	480	285	240	212	26	22x8	89
872083	200	300	300	540	340	295	268	30	22x12	138
872085	250	390	390	665	405	355	320	32	26x12	165
872086	300	375	375	780	460	410	370	30	26x12	-
8720**	350	400	400	830	520	470	429	30	26x16	-
8720**	400	420	420	1000	580	525	480	38	30x16	-

### UYGULAMA ALANLARI / APPLICATIONS

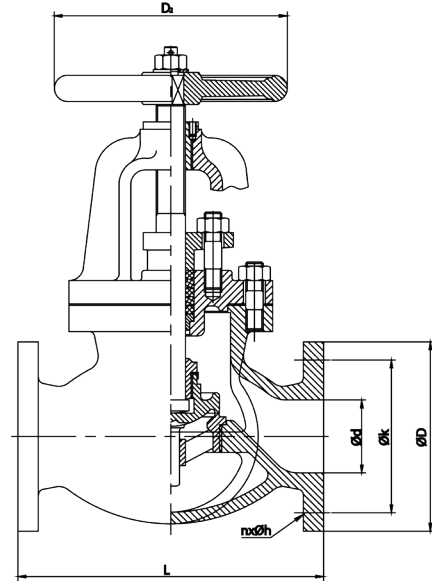
SİNTİNE SİSTEMLERİNDE, EMİŞ VE DEŞARJ HATTINDA,  
DENİZ SOĞUTMA SUYU  
BİLGE SYSTEMS, SUCTION AND DISCHARGE LINES,  
SEA COOLING WATER

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

ÇALIŞMA BASINCI / WORKING PRESSURE: PN4  
FLANŞ SEÇENEKLERİ / FLANGE OPTIONS: ANSI VEYA JIS ÖZEL  
FLANŞ YAPILABİLİR.  
SPECIAL FLANGE DRILLING ACC. TO ANSI OR JIS



## JIS Tip Glob Vana (Bronz, Düz Tip) / JIS Type Globe Valve(Bronze, Straight Type)



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GG 20
CONTA	GASKET	KLINGRIT
KAPAK	COVER	GG 20
MİL	STEM	AISI 420 / CuZn39Pb3
EMNİYET PULU	DISK LOCK WASHER	CuZn39Pb3
KLAPE SOMUN	DISC NUT	AISI 420 / CuZn39Pb3
SIZDIR MAZLIK BİLE ZİK	SEALING RING	AISI 420 / CuZn39Pb3
KLAPE	DISC	AISI 420 / CuZn39Pb3
ÇVATA	BOLT	STEEL
SALMASTRA	PACKING	GRAPHITE
SALMASTRA BURCU	PACKING BUSH	CuZn39Pb3
GLEN	GLAND	GG 20
ÇVATA	BOLT	STEEL
PUL	WASHER	STEEL
ÇVATA	SCREW	STEEL
KAPAK MİL BURCU	SCREWED BON. BUSH	CuZn39Pb3
HENDİL	HANDWHEEL	GG 20
KOPILYA	SPLIT PIN	CuZn39Pb3
SOMUN	NUT	STEEL

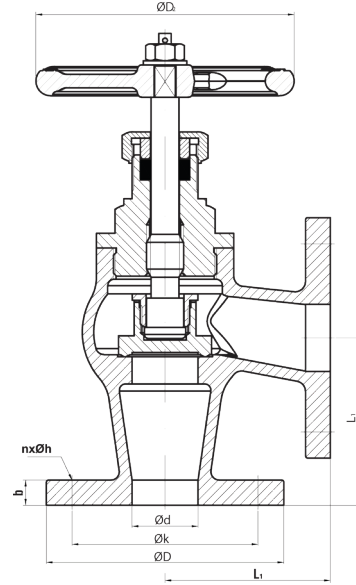
CODE IMPA	ÖLÇÜ	FLANŞ JIS 5K						FLANŞ JIS 16K								
		ØD	Øk	b	mxØh	L	KG	Ød	Øk	b	mxØh	L	KG	Ød.		
750121	15A	15	80	60	9	4x12	100	1,8	750141	95	70	12	4x15	110	2,8	80
750122	20A	20	85	65	10	4x12	110	3	750142	100	75	14	4x15	120	4	100
750123	25A	25	95	75	10	4x12	120	3,7	750143	125	90	14	4x19	130	5	125
750124	32A	32	115	90	12	4x15	140	5,3	750144	135	100	16	4x19	160	7	125
750125	40A	40	120	95	12	4x15	160	6,8	750145	140	105	16	4x19	180	9	140
750126	50A	50	130	105	14	4x15	210	11,8	750146	155	120	16	8x19	220	13	160

### UYGULAMA ALANLARI / APPLICATIONS

YAKIT VE YAĞ DEVRELERİNDE, SU VE BUHAR HATLARINDA KULLANILIR/ PREVENTING REFLEUENCE IN FUEL OIL , LUBRICATING OIL, WATER AND STEAM PIPING AT OR UNDER THE TEMPERATURE OF 205C. THE FLANGE DIMENTIONS ARE ACCORDING TO JIS B2220 STANDARD OF STEEL PIPE



## JIS Tip Glob Vana (Bronz, Gönnye Tip) / JIS Type Globe Valve (Bronze, Angle Type)



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	RG5
KLAPE	DISC	RG5
MİL	STEM	CuZn39Pb3
EMNİYET PULU	DISC LOCK WASHER	CuZn39Pb3
KLAPE SOMUNU	DISC NUT	CuZn39Pb3
KAPAK	BONNET	RG5
SALMASTRA	PACKING	GRAFİTE
RİNG	RING	CuZn39Pb3
SALMASTRA SOMUNU	PACKING NUT	CuZn39Pb3
KİLİTLEME PULU	LOCK PLATE	CuZn39Pb3
VİDA	SCREW	CuZn39Pb3
HENDİL	HANDWHEEL	GG25
SOMUN & PUL	NUT & WASHER	CuZn39Pb3
KOPILYA	SPLIT PIN	CuZn39Pb3

FLANŞ JIS 5K										FLANŞ JIS 16K						
CODE IMPA	ÖLÇÜ	Ød	ØD	Øk	b	nxØh	L1	KG	CODE IMPA	ØD	Øk	b	nxØh	L1	KG	ØD2
750131	15A	15	80	60	9	4x12	55	1,9	750141	95	70	12	4x15	70	2,7	80
750132	20A	20	85	65	10	4x12	60	2,7	750142	100	75	14	4x15	75	3,6	100
750133	25A	25	95	75	10	4x12	65	3,5	750143	125	90	14	4x19	85	5,2	125
750134	32A	32	115	90	12	4x15	80	4,7	750144	135	100	16	4x19	95	6,5	125
750135	40A	40	120	95	12	4x15	85	5,5	750145	140	105	16	4x19	100	7,6	140
750136	50A	50	130	105	14	4x15	100	9	750146	155	120	16	8x19	120	11,3	160

### UYGULAMA ALANLARI / APPLICATIONS

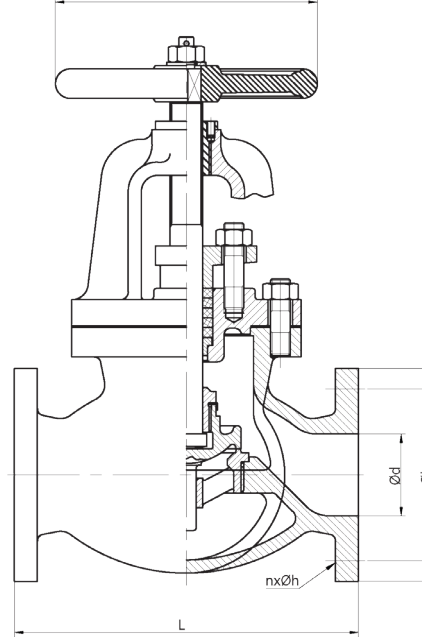
DENİZ SUYU, TATLI SU, YAĞ, BUHAR DEVRELERİ  
SEA WATER, FRESH WATER, OIL, STEAM SYSTEM

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

BAĞLANTILAR / ENDS: JIS F7301 5K / JIS F7303 16K  
BOYUTLAR / DIMENSIONS: JIS F7400  
ÇALIŞMA SICAKLIĞI / WORKING TEMP.: -10°C / +120°C  
ÇALIŞMA BASINCI / WORKING PRESSURE: BODY 10.5 / SEAT 7.7 KG/CM<sup>2</sup>



## JIS Tip Glob Vana (Düz Tip) / JIS Type Globe Valve (Straight Type)



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GG 20
CONTA	GASKET	KLINGRIT
KAPAK	COVER	GG 20
MİL	STEM	AISI 420 / CuZn39Pb3
EMNİYET PULU	DISK LOCK WASHER	CuZn39Pb3
KLAPE SOMUN	DISC NUT	AISI 420 / CuZn39Pb3
SIZDIR MAZLIK BİLEZİK	SEALING RING	AISI 420 / CuZn39Pb3
KLAPE	DISC	AISI 420 / CuZn39Pb3
CİVATA	BOLT	STEEL
SALMASTRA	PACKING	GRAPHITE
SALMASTRA BURCU	PACKING BUSH	CuZn39Pb3
GLEN	GLAND	GG 20
CİVATA	BOLT	STEEL
PUL	WASHER	STEEL
CİVATA	SCREW	STEEL
KAPAK MİL BURCU	SCREWED BON. BUSH	CuZn39Pb3
HENDİL	HANDWHEEL	GG 20
KOPİLYA	SPLIT PIN	CuZn39Pb3
SOMUN	NUT	STEEL

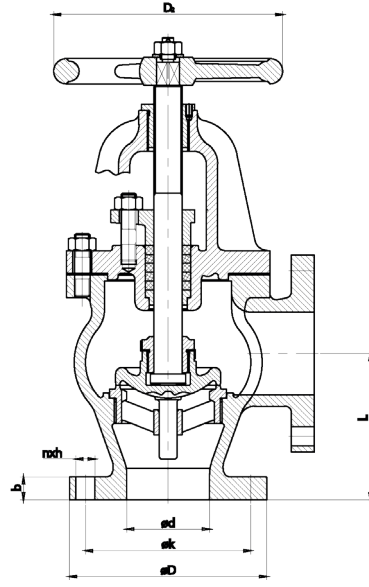
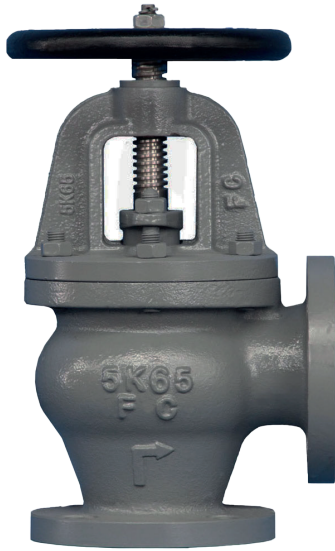
FLANŞ JIS 5K										FLANŞ JIS 10K							
CODE IMPA	ÖLÇÜ	Ød	øD	øk	b	nxøh	L	øD2	KG	CODE IMPA	øD	øk	b	nxøh	L	øD2	KG
750201	50A	50	130	105	16	4x15	210	160	15	750231	155	120	20	4x19	220	160	20
750202	65A	65	155	130	18	4x15	250	180	21	750232	175	140	22	4x19	270	200	29
750203	80A	80	180	145	18	4x19	280	180	28	750233	185	150	22	8x19	300	200	32
750204	100A	100	200	165	20	8x19	340	224	41	750234	210	175	24	8x19	350	250	49
750205	125A	125	235	200	20	8x19	410	250	58	750235	250	210	24	8x23	420	280	73
750206	150A	150	265	230	22	8x19	480	280	80	750236	280	240	26	8x23	490	315	104
750207	200A	200	320	280	24	8x23	570	315	139	750237	330	290	26	12x23	570	355	162
7502°	250A	250	385	345	26	12x23	740	355	246	750238	400	355	30	12x25	740	450	304
7502°	300A	300	430	390	28	12x23	840	400	377	750239	445	400	32	16x25	840	500	-
7502°	350A	350	480	435	30	12x25	940	500	-	-	-	-	-	-	-	-	-
7502°	400A	400	540	495	30	16x25	1050	630	-	-	-	-	-	-	-	-	-

### UYGULAMA ALANLARI / APPLICATIONS

YAKIT VE YAĞ DEVRELERİNDE, SU VE BUHAR HATLARINDA KULLANILIR/ PREVENTING REFERENCE IN FUEL OIL , LUBRICATING OIL, WATER AND STEAM PIPING AT OR UNDER THE TEMPERATURE OF 205C. THE FLANGE DIMENTIONS ARE ACCORDING TO JIS B2220 STANDARD OF STEEL PIPE



## JIS Tip Glob Vana (Gönye Tip) / JIS Type Globe Valve (Angle Type)



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GG 20
CONTA	GASKET	KLINGRIT
KAPAK	COVER	GG 20
MİL	STEM	AISI 420 / CuZn39Pb3
EMNİYET PULU	DISK LOCK WASHER	CuZn39Pb3
KLAPÉ SOMUN	DISC NUT	AISI 420 / CuZn39Pb3
SI ZDIR MAZLIK BİLE ZİK	SEALING RING	AISI 420 / CuZn39Pb3
KLAPÉ	DISC	AISI 420 / CuZn39Pb3
ÇİVATA	BOLT	STEEL
SALMASTRA	PACKING	GRAPHITE
SALMASTRA BURCU	PACKING BUSH	CuZn39Pb3
GLEN	GLAND	GG 20
ÇİVATA	BOLT	STEEL
PUL	WASHER	STEEL
ÇİVATA	SCREW	STEEL
KAPAK MİL BURCU	SCREWED BON. BUSH	CuZn39Pb3
HENDİL	HANDWHEEL	GG 20
KOPİLYA	SPLIT PIN	CuZn39Pb3
SOMUN	NUT	STEEL

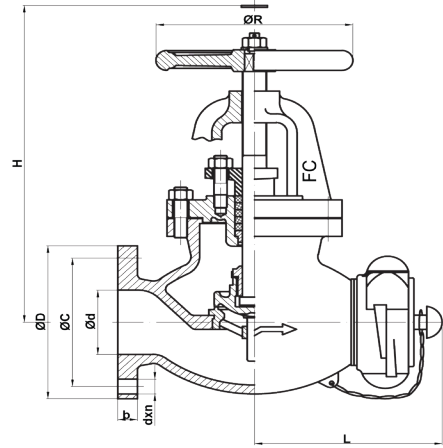
FLANŞ JIS 5K										FLANŞ JIS 10K							
CODE IMPA	ÖLÇÜ	Ød	øD	øk	b	rxøh	L	øD2	KG	CODE IMPA	øD	øk	b	rxøh	L	øD2	KG
750246	50A	50	130	105	16	4x15	100	160	13	750246	155	120	20	4x19	120	160	18
750247	65A	65	155	130	18	4x15	115	180	18	750247	175	140	22	4x19	130	200	25
750248	80A	80	180	145	18	4x19	130	180	23.5	750248	185	150	22	8x19	140	200	27
750249	100A	100	200	165	20	8x19	150	224	34	750249	210	175	24	8x19	160	250	41
750250	125A	125	235	200	20	8x19	170	250	46	750250	250	210	24	8x23	180	280	70
750251	150A	150	265	230	22	8x19	190	280	63.5	750251	280	240	26	8x23	205	315	81
750252	200A	200	320	280	24	8x23	220	315	105	750252	330	290	26	12x23	213	355	125
7502	250A	250	385	345	26	12x23	275	355	176	7502	400	355	30	12x25	290	450	211
7502	300A	300	430	390	28	12x23	310	400	243	7502	445	400	32	16x25	320	500	-
7502	350A	350	480	435	30	12x25	360	500	-	7502	490	445	34	16x25	360	560	-
7502	400A	400	540	495	30	16x25	395	560	-	7502	560	510	36	16x27	420	630	-

### UYGULAMA ALANLARI / APPLICATIONS

YAKIT VE YAĞ DEVRELERİNDE, SU VE BUHAR HATLARINDA KULLANILIR/ PREVENTING REFERENCE IN FUEL OIL , LUBRICATING OIL, WATER AND STEAM PIPING AT OR UNDER THE TEMPERATURE OF 205C. THE FLANGE DIMENTIONS ARE ACCORDING TO JIS B2220 STANDARD OF STEEL PIPE



## JIS Tip Yangın Vanası (Düz Tip) / JIS Type Fire Hose Valve (Straight Type)



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GG 25
KAPAK	BONNET	CuZn40
SALMASTRA	PACKING	CuZn40
GLEN	GLAND	2Cr13
KAPAK	COVER	GG 25
MİL	STEM	AISI 420
KLAPESOMUNU	DISC NUT	2Cr13
CONTA	GASKET	2Cr13
KLAPESOMUNU	DISC	2Cr13
SİT	SEAT	2Cr13
SOMUN	NUT	St 37
CIVATA	BOLT	St 37
SOMUN	NUT	St 37
CIVATA	BOLT	St 37
SALMASTRA	GRAPHITE PACKING	Graphite
MİLCONTASI	ASBESTOS FREE	Graphite
HENDİL	HANDWHELL	GG 25
RONDELA	WASHER	St 37
SOMUN	NUT	St 37
KOPİLYA	SPLIT PIN	STEEL

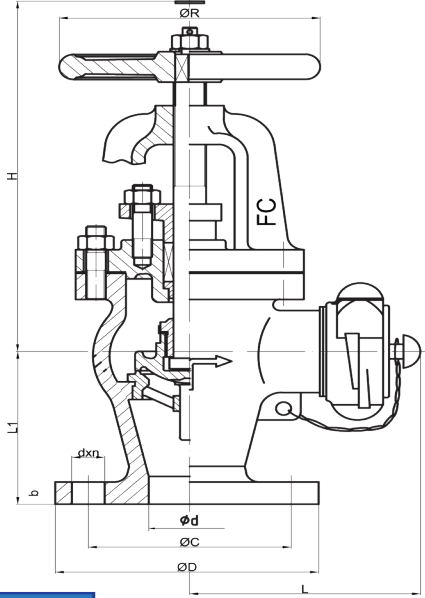
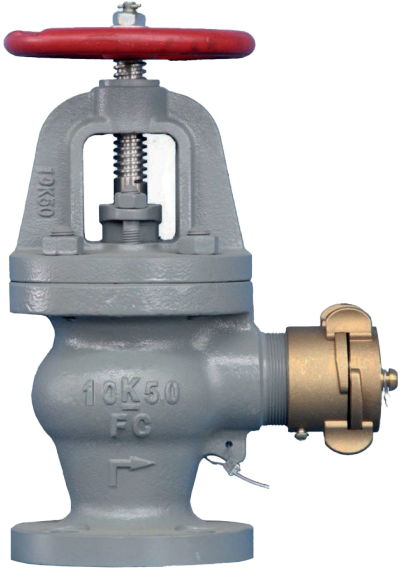
CODE IMPA	ÖLÇÜ	Ød	ØD	Øk	b	FLANŞ JIS 5K				KG	CODE IMPA	ØD	Øk	b	FLANŞ JIS 10K				KG
						H	L	nx	d						H	L	dxn	ØR	
751731	50	50	130	105	16	270	165	4x15	160	15	751732	155	120	20	285	170	4x19	160	19
7517**	65	65	155	130	18	310	175	4x15	200	21	751733	175	140	22	310	200	4x19	200	

### UYGULAMA ALANLARI / APPLICATIONS

DENİZ SUYU ve TATLI SU / THE PRODUCTS ARE USED FOR FIRE CONTROL WITH SEA WATER FOR SHIPPING.  
THE FLANGE DIMENTIONS ARE ACCORDING TO JIS B2220 STANDART OF STEEL PIPE.



## JIS Tip Yangın Vanası (Gönye Tip) / JIS Type Fire Hose Valve (Angle Type)



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GG 25
KAPAK	BONNET	CuZn40
SALMASTRA	PACKING	CuZn40
GLEN	GLAND	2Cr13
KAPAK	COVER	GG 25
MİL	STEM	AISI 420
KLAPE SOMUNU	DISC NUT	2Cr13
CONTA	GASKET	2Cr13
KLAPE	DISC	2Cr13
SİT	SEAT	2Cr13
SOMUN	NUT	St 37
CIVATA	BOLT	St 37
SOMUN	NUT	St 37
CIVATA	BOLT	St 37
SALMASTRA	GRAPHITE PACKING	Graphite
MİL CONTASI	ASBESTOS FREE	Graphite
HENDİL	HANDWHELL	GG 25
RONDELA	WASHER	St 37
SOMUN	NUT	St 37
KOPİLYA	SPLIT PIN	STEEL

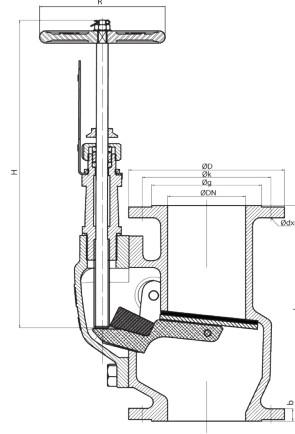
FLANŞ JIS 5K												FLANŞ JIS 10K									
CODE IMPA	ÖLÇÜ	Ød	ØD	Øk	b	H	L	L1	nxd	ØR	KG	CODE IMPA	ØD	Øk	b	H	L	L1	dxn	ØR	KG
751735	50	50	130	105	16	240	155	100	4x15	160	13	751736	155	120	20	255	170	110	4x19	160	17
7517**	65	65	155	130	18	270	175	130	4x15	200	17	751737	175	140	22	270	185	130	4x19	200	24

### UYGULAMA ALANLARI / APPLICATIONS

DENİZ SUYU ve TATLI SU / THE PRODUCTS ARE USED FOR FIRE CONTROL WITH SEA WATER FOR SHIPPING.  
THE FLANGE DIMENTIONS ARE ACCORDING TO JIS B2220 STANDART OF STEEL PIPE.



## JIS Tip Tuvalet Çalparası (Düz Tip) / JIS Type Storm Valve (Straight Type)



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GSC25
KLAPE	DISC	RG5
CONTA	GASKET	NBR
KLAPE AĞIRLIK	DISC WEIGHT	GGG40.3
PİM & KOPİLYA	PIN & KOTTER PIN	CuZn39Pb3
MERKEZLEME PİMİ	CENTER PIN	CuZn39Pb3
CONTA	GASKET	KLINGERIT
KAPAK	BONNET	GSC25
ÇİVATA	BOLT	8.8 STEEL
MİL	STEM	AISI 420
ÜST KAPAK	LOCKING DIVECE	CuZn39Pb3
GÖSTERGE	INDICATOR	AISI 304
SOMUN	NUT	CuZn39Pb3
SALMASTRA	PACKING	GRAPHITE
BASKI RINGİ	PRESS RING	CuZn39Pb3
BASKI SOMUNU	PRESS NUT	CuZn39Pb3
GÖSTERGE KOLU	INDICATOR ARM	AISI 304
SETSKUR ÇİVATA	GRUB SCREW	8.8 STEEL
HENDİL	HANDWHEEL	GG25
SOMUN & PUL	NUT & WASHER	STEEL

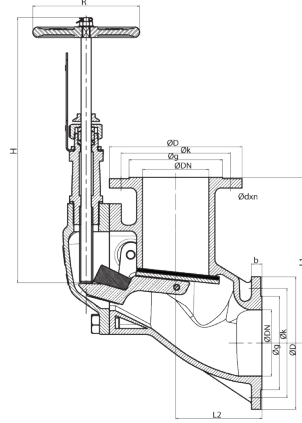
CODE IMPA	DN	L	H	R	FLANŞ JIS 5K					KG	CODE IMPA	FLANŞ JIS 10K					KG
					ØD	Øk	g	b	Ødxn			ØD	Øk	g	b	Ødxn	
754241	50	210	131	100	130	105	85	14	15x4	12,5	754241	155	120	96	16	19x4	13,5
754242	65	240	141	100	155	130	110	14	15x4	18	754242	175	140	116	18	19x4	19
754243	80	260	155	125	180	145	121	14	19x4	23	754243	185	150	126	18	19x8	23
754244	100	280	171	125	200	165	141	16	19x8	31	754244	210	175	151	18	19x8	32
754245	125	330	195	125	235	200	176	16	19x8	50	754245	250	210	182	20	23x8	51
754246	150	360	212	125	265	230	206	18	19x8	67	754246	280	240	212	22	23x8	69

### UYGULAMA ALANLARI / APPLICATIONS

SU VE DENİZ SUYU HATLARINDA KULLANILIR  
USED FOR WATER AND SEA WATER



## JIS Tip Yangın Vanası(Bronz, Gönve Tip)/ JIS Type Fire Hose Valve (Bronze, Angle Type)



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GSC25
KLAPE	DISC	RG5
CONTA	GASKET	NBR
KLAPE AĞIRLIK	DISC WEIGHT	GGG40.3
PİM & KOPİLYA	PIN & KOTTER PIN	CuZn39Pb3
MERKEZLEME PİMİ	CENTER PIN	CuZn39Pb3
CONTA	GASKET	KLINGERIT
KAPAK	BONNET	GSC25
ÇİVATA	BOLT	8.8 STEEL
MİL	STEM	AISI 420
ÜST KAPAK	LOCKING DİVECE	CuZn39Pb3
GÖSTERGE	INDICATOR	AISI 304
SOMUN	NUT	CuZn39Pb3
SALMASTRA	PACKING	GRAPHITE
BASKI RİNGİ	PRESS RING	CuZn39Pb3
BASKI SOMUNU	PRESS NUT	CuZn39Pb3
GÖSTERGE KOLU	INDICATOR ARM	AISI 304
SETSKUR ÇİVATA	GRUB SCREW	8.8 STEEL
HENDİL	HANDWHEEL	GG25
SOMUN & PUL	NUT & WASHER	STEEL

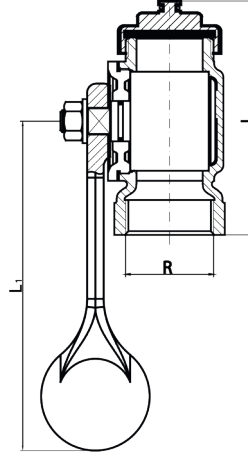
CODE IMPA	DN	FLANŞ JIS 5K										KG	CODE IMPA	FLANŞ JIS 10K						KG
		L1	L2	H	R	ØD	Øk	g	b	Ødxn	ØD			Øk	g	b	Ødxn			
754251	50	170	90	131	100	130	105	85	14	Ø15x4	12	754259	155	120	96	16	Ø19x4	13		
754252	65	200	110	141	100	155	130	110	14	Ø15x4	17	754260	175	140	116	18	Ø19x4	18		
754253	80	220	120	155	125	180	145	121	14	Ø19x4	22	754283	185	150	126	18	Ø19x8	23		
754254	100	250	130	171	125	200	165	141	16	Ø19x8	29	754284	210	175	151	18	Ø19x8	30		
754255	125	270	150	195	125	235	200	176	16	Ø19x8	58	754297	250	210	182	20	Ø23x8	51		
754256	150	310	165	212	125	265	230	206	18	Ø19x8	53	754298	280	240	212	22	Ø23x8	54		

### UYGULAMA ALANLARI / APPLICATIONS

SU VE DENİZ SUYU HATLARINDA KULLANILIR  
USED FOR WATER AND SEA WATER



## Ağırlıklı İskandil Vanası (Bronz) / Sounding Cock (Bronze)



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	RG5
SİLİNDİR	CYLINDER	RG5
O RİNG	O RING	NBR
KAPAK	BONNET	RG5
KOL	LEVER	GGG 40,3
PUL& SOMUN	WASHER & NUT	AISI 316
TAPA	PLUG	RG5
CONTA	GASKET	NBR
TEL	WIRE	AISI 304
TAHLİYE SUBABI	NOZZLE	CuZn39Pb3
BUTON	BUTTON	CuZn39Pb3
O RİNG	ORING	NBR
YAY	SPRING	SPRING STEEL C

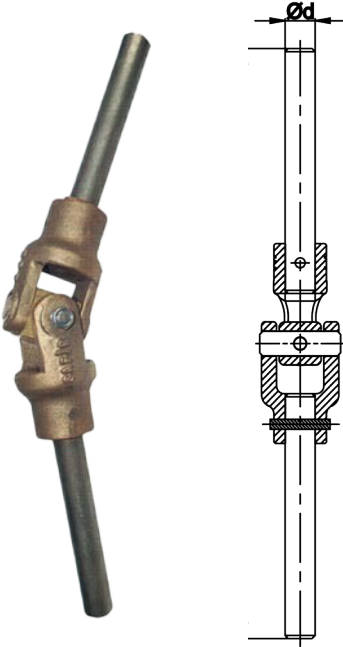
DN	R	L	L <sub>1</sub>	H	KG
40	1 1/2"	130	180	60	2,8
50	2"	140	180	60	3

### TEKNİK ÖZELLİKLER / TECHNICAL PROPERTY

ÇALIŞMA SICAKLIĞI / WORKING TEMP.: -10°C / +120°C  
ÇALIŞMA BASINCI / WORKING PRESSURE: PN2,5



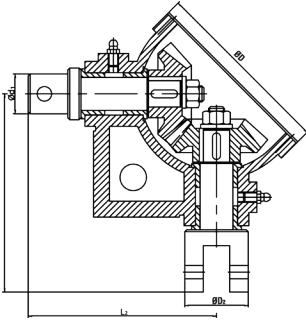
## Mafsal / Joint



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	RG5
MİL	STEM	SAE 1040
PİM	PIN	SAE 1040
TUTUCU KÜP	CUBE	CuZn39Pb3
MERKEZLEME PİMİ	CENTER PIN	AISI 304
ÇİVATA & SOMUN	BOLT & NUT	AISI 304

SIZE	DIMENSION	Ød	L	KG
KÜÇÜK BOY MAFSAL	SMALL JOINT	20	375	2,75
BÜYÜK BOY MAFSAL	LARGE JOINT	25	435	4,35

## Gönye Mafsal / Angle Gear Box

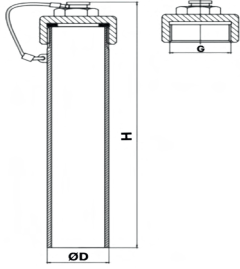


PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GGG40.3
ÇATAL MİL	STEM	GGG40.3
BURÇ	BUSH	RG5
MİL	STEM	SAE 1040
KAPAK	BONNET	ST37
KONİK DİŞLİ ÇARK	TAPER GEAR	SAE 1050
KAMA	COTTER	SAE 1040
YAĞDANLIK	GREASE BOX	ST
SOMUN & PUL	NUT & WASHER	6.8 STEEL

ÖLÇÜ / DIMENSION	ØD	L <sub>1</sub>	L <sub>2</sub>	Ød <sub>1</sub>	Ød <sub>2</sub>	KG
GÖNYE MAFSAL / ANGLE JOINT	140	150	142	30	48	5,6



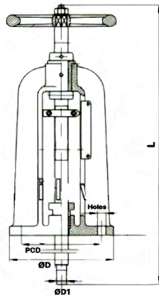
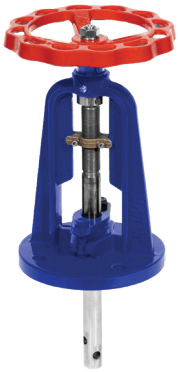
## Borulu İskandil Tapası / Sounding Pipe



PARÇA ADI	PART NAME	MALZEME / MATERIAL
BORU	PIPE	ST42+GALV.
TAPA	PLUG	MS58
CONTA	GASKET	NBR
TEL	WIRE	AISI304

SIZE	ØD	H	G
DN40	48	220	1-1/2"
DN50	60	220	2"
DN65	76	220	2-1/2"
DN80	89	220	3"

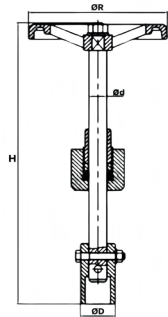
## Kumanda Kolu / Deck Stand Remote Control



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	GG25
MİL	STEM	AISI304
GLEN	GLAND	GGG 40.3
GÖSTERGE	INDICATOR	RG5

SIZE	ØD	ØD1	PCD	L	HOLES
KÜÇÜK BOY KUMANDA KOLU	190	25	150	500	4 X 18
BÜYÜK BOY KUMANDA KOLU	240	35	200	790	8 X 18

## Rot Başlı Kumanda Kolu / Rod Head Remote Control

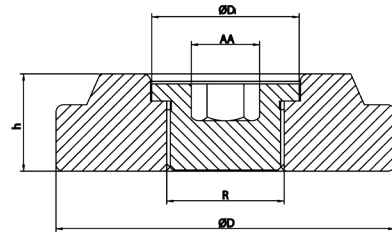


PARÇA ADI	PART NAME	MALZEME / MATERIAL
MİL	STEM	AISI 304
YATAK	BEARING	CUZN39PB3
HENDİL	HANDLE	GG25
SALMASTRA	PACKING	GRAPHITE

Ød	ØD	ØR	H
20	39	160	325



## Lavra Tapası / Drain Plug

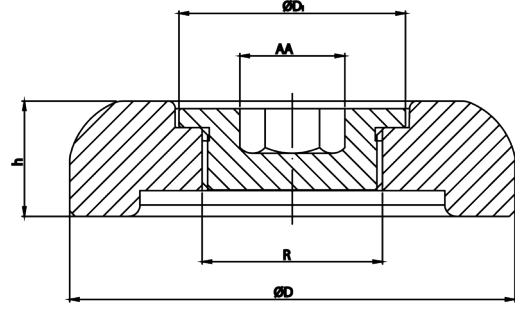


PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	SAE 1040
TAPA	PLUG	AISI 316

ØD	ØD <sub>1</sub>	h	AA	R	KG
100	60	40	25	R 1 1/2"	2,1
140	60	40	25	R 1 1/2"	3,65
160	60	40	25	R 1 1/2"	5,35
180	70	40	25	R 2"	6,1
200	70	40	25	R 2"	8



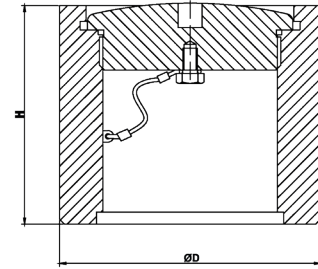
## Krom İskandil Tapası / Stainless Steel Sounding Plug



PARÇA ADI	PART NAME	MALZEME / MATERIAL
GÖVDE	BODY	SAE 1040
TAPA	PLUG	AISI 316

ØD	ØD <sub>1</sub>	h	AA	R	KG
120	60	30	25	R 1 1/2"	2
120	70	30	25	R 2"	2

## Gömme Tip İskandil Tapası / Built-in Sounding Plug



PARÇA ADI	PART NAME	MALZEME / MATERIAL
BORU	PIPE	ÇELİK BORU / ST42
TAPA	PLUG	MS58
ZİNCİR	CHAIN	AISI 304
CİVATA	BOLT	AISI 304

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





/ ASTM A53 - A106 Grade A-B-C Chemical and Mechanical Properties  
**ASTM A53 -A106 Grade A-B-C Kimyasal ve Mekanik Özellikler**

CHNÇELİK BORU  
ASTM A53/A106 GRADE A/B/C CHEMICAL AND MECHANICAL PROPERTIES

ASTM A53/A106 GRADE A/B/C CHEMICAL AND MECHANICAL PROPERTIES

ASTM A53											
Kimyasal Değerler										Mekanik Değerler	
Kalite	Max %									Çekme Dayanımı (TS)	Akma Dayanımı (YS)
	C	Mn	P	S	Cu	Ni	Cr	Mo	V	Mpa	Mpa
Type S (seamless)											
Grade A	0,25	0,95	0,05	0,045	0,40	0,40	0,40	0,15	0,08	≥330	≥205
Grade B	0,30	1,20	0,05	0,045	0,40	0,40	0,40	0,15	0,08	≥415	≥240
Type E (electric resistance welded)											
Grade A	0,25	0,95	0,05	0,045	0,40	0,40	0,40	0,15	0,08	≥330	≥205
Grade B	0,30	1,20	0,05	0,045	0,40	0,40	0,40	0,15	0,08	≥415	≥240
Type F (furnace welded)											
Grade A	0,30	1,20	0,05	0,045	0,40	0,40	0,40	0,15	0,08	≥330	≥205

ASTM A106											
Kimyasal Değerler										Mekanik Değerler	
Kalite	Max %									Çekme Dayanımı (TS)	Akma Dayanımı (YS)
	C	Mn	P	S	Cu	Ni	Cr	Mo	V	Mpa	Mpa
Type S (seamless)											
Grade A	0,25	0,93	0,05	0,035	0,40	0,40	0,40	0,15	0,08	≥330	≥205
Grade B	0,30	1,06	0,05	0,035	0,10	0,40	0,40	0,15	0,08	≥415	≥240
Grade C	0,35	1,06	0,05	0,035	0,40	0,40	0,40	0,15	0,08	≥485	≥275



## ASTM Malzeme Eşleme Tablosu

### / ASTM Material Matching Chart

ÇHÇELİK BORU  
PIPING MATERIALS MATCH CHART (ASTM)

#### ASTM MALZEME EŞLEME TABLOSU

KULLANIM AMACI	ÇELİK BORULAR	ÇELİK BAĞLANTI ELEMANI*	DÖVME ÇELİK**	DÖKÜM ÇELİK***	CİVATALAR
Yüksek Sıcaklık Şartları İçin Karbon Çelik	A106 Gr A/A53 GR A	A234 Gr WPA	A105	A216 Gr WCA	A193 Gr B7
	A106 Gr B/A53 Gr B/API 5L Gr. B	A234 Gr WPB	A105	A216 Gr WCB	A194 Gr 2H
	A106 Gr C	A234 Gr WPC	A105	A216 Gr WCC	
Yüksek Sıcaklık Şartları İçin Alaşımlı Çelik	A335 Gr P1	A234 Gr WP1	A182 Gr F1	A217 Gr WC1	A193 Gr B7
	A335 Gr P11	A234 Gr WP11	A182 Gr F11	A217 Gr WC6	A194 Gr 2H
	A335 Gr P12	A234 Gr WP12	A182 Gr F12	A217 Gr WC6	
	A335 Gr P22	A234 Gr WP22	A182 Gr F22	A217 Gr WC9	
	A335 Gr P5	A234 Gr WP5	A182 Gr F5	A217 Gr C5	
	A335 Gr P9	A234 Gr WP9	A182 Gr F9	A217 Gr C12	
Düşük Sıcaklık Şartları İçin Alaşımlı Çelik	A 335 Gr P91	A234 Gr WP91	A182 Fr F91		
	A333 Gr 6	A420 Gr WPL6	A350 Gr LF2	A352 Gr LCB	A320 Gr L7
	A333 Gr 3	A420 Gr WPL3	A350 Gr LF3	A352 Gr LC3	A194 Gr 7

\* Kaynaklanabilir Çelik Dirsek-Te-Redüksiyon-Kep ve diğer

\*\* Dövme Çelik Bağlantı Parçaları, Dövme Çelik Flanşlar, Dövme Çelik Vanalar, Dövme Contalar

\*\*\* Döküm Çelik Vanalar

PIPING MATERIALS MATCH CHART (ASTM)



## Çelik Çekme Boruların Max. Kullanım Sıcaklıkları

/ Maximum Service Temperatures of Steel Drawn Pipes

Çelik Çekme Boruların Max. Kullanım Sıcaklıkları / Max. Service Temperatures of Seamless Steel Pipes						
Max. Kullanım Sıcaklığı / Max. Service Temperature	ASTM	DIN 17175	BS 3069-3601 3602-3603 3604-3606	AFNOR NF A 49-213 NF A 49-245	JIS G 3456 G 3458 G 3461 G 3452	GOST TY-14-3-460-75
	ABD / USA	Almanya / Germany	İngiltere / U.K	Fransa / France	Japonya / Japan	Rusya / Russia
-100° C -45° C	A 334 Gr 3 A 334 Gr 1	No Ni 14	503 LT 430 LT	TU 10 N 14 TU 42 BT		
475° C	A 179 A 106 Gr A A 192	St. 35.8	320 360	TU 37 C	STPT 38 STB 35	
	A 106 Gr C A 210 Gr A1	St. 45.8	430	TU 42 C	STPT 42 STB 42	20
	A 106 Gr C A 210 Gr C	17 Mn 4	440	TU 48 C	STPT 49	
		19 Mn 5	500 Nb	TU 52 C	STB 52	
500° C		15 Mo 3		TU 15 D 3		
	A 209 T 1 A 335 P 1	16 Mo 5	245		STBA 12 STPA 12 STBA 13	
550° C	A 213 T 2 A 335 P 12			TU 15 CD 2.05	STBA 20 STPA 20	
560° C	A 213 T 12 A 335 P 12	13 Cr Mo 44	620-460	TU 13 CD 4.04	STBA 22 STPA 22	15 X M
575° C	A 213 T 11 A 335 P 11		621	TU 10 CD 5.05		
600° C		12 Cr Mo 19 S 10 Cr Mo 9 10	625 622-490	TU Z 10 CD 05.05 TU Z 12 CD 05.05 TU 10C 9.10	STBA 25 STPA 25 STBA 24 STPA 24	
		14 MoV 63				
						15 X M 1F
625° C	A 213 T 9 A 335 P 9	X 12 Cr Mo 91	629-470 629-490	TU Z 10 CD 09	STBA 26 STPA 26	
650° C	A 213 T 91 A 335 P 91	X 10 CrMoVNb 9-1		TU Z 10 CDVNb 09.01 TU Z 10 CDNV 09.02		



## CARBON STEEL PIPE • Dimensions

### Karbon Çelik Boru Boyutlar / Carbon Steel Pipe Dimensions

Nominal size		OD mm	Welded & Seamless Carbon Steel Pipe to ASME B36.10M All dimensions are in mm										Structural Steel Hollow Sections to AS1163 Grade C350													
DN	NPS		Schedule										Wall Thickness in mm													
			10	20	30	40	Std	60	80	XS	100	120	140	160	XXS	4.8	5.5	6.0	6.4	7.1	8.2	9.3	9.5	12.7		
6	1/8	10.3	1.24	1.45	1.73	1.73	1.73		2.41	2.41																
8	1/4	13.7	1.65	1.85	2.24	2.24	2.24		3.02	3.02																
10	3/8	17.1	1.65	1.85	2.31	2.31	2.31		3.20	3.20																
15	1/2	21.3	2.11	2.41	2.77	2.77	2.77		3.73	3.73																
20	3/4	26.7	2.11	2.41	2.87	2.87	2.87		3.91	3.91																
25	1	33.4	2.77	2.90	3.38	3.38	3.38		4.55	4.55																
32	1 1/4	42.2	2.77	2.97	3.56	3.56	3.56		4.85	4.85																
40	1 1/2	48.3	2.77	3.18	3.68	3.68	3.68		5.08	5.08																
50	2	60.3	2.77	3.18	3.91	3.91	3.91		5.54	5.54																
65	2 1/2	73.0	3.05	4.78	5.16	5.16	5.16		7.01	7.01																
80	3	88.9	3.05	4.78	5.49	5.49	5.49		7.62	7.62																
90	3 1/2	101.6	3.05	4.78	5.74	5.74	5.74		8.08	8.08																
100	4	114.3	3.05	4.78	6.02	6.02	6.02		8.56	8.56	11.13															
125	5	141.3	3.40	4.78	6.55	6.55	6.55		9.53	9.53	12.70															
150	6	168.3	3.40	4.78	7.11	7.11	7.11		10.97	10.97	14.27															
200	8	219.1	3.76	6.35	7.04	8.18	8.18		12.70	12.70	18.26															
250	10	273.0	4.19	6.35	7.80	9.27	9.27		15.09	15.09	20.62															
300	12	323.8	4.57	6.35	8.38	10.31	9.53		17.48	17.48	21.44															
350	14	355.6	6.35	7.92	9.53	11.13	9.53		19.05	19.05	23.83															
400	16	406.4	6.35	7.92	9.53	12.70	9.53		20.62	20.62	25.40															
450	18	457	6.35	7.92	11.13	14.27	9.53		21.44	21.44	28.58															
500	20	508	6.35	9.53	12.70	15.09	9.53		23.83	23.83	30.96															
550	22	559	6.35	9.53	12.70	17.48	9.53		26.19	26.19	33.32															
600	24	610	6.35	9.53	14.27	17.48	9.53		28.58	28.58	35.71															
650	26	660	7.92	12.70	15.88	17.48	9.53		30.96	30.96	38.10															
700	28	711	7.92	12.70	15.88	19.05	9.53		32.54	32.54	40.49															
750	30	762	7.92	12.70	15.88	17.48	9.53		34.93	34.93	42.88															
800	32	813	7.92	12.70	15.88	17.48	9.53		38.89	38.89	45.24															
850	34	864	7.92	12.70	15.88	17.48	9.53		41.28	41.28	47.63															
900	36	914	7.92	12.70	15.88	19.05	9.53		44.45	44.45	50.01															
950	38	965					9.53		46.02	46.02	52.37															
1000	40	1016					9.53		48.27	48.27	54.62															
1050	42	1067					9.53		50.79	50.79	56.76															
1100	44	1118					9.53		52.93	52.93	58.89															
1150	46	1168					9.53		55.08	55.08	61.02															
1200	48	1219					9.53		57.23	57.23	63.15															

Note 1: For dimensional tolerances refer to ASME B36.10M

Equivalent sizes shown in API Specification 5L





## Dikişsiz çelik çekme boru cetveli / Seamless steel drawn pipe ruler

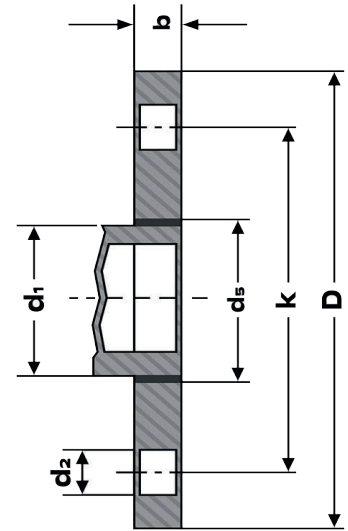
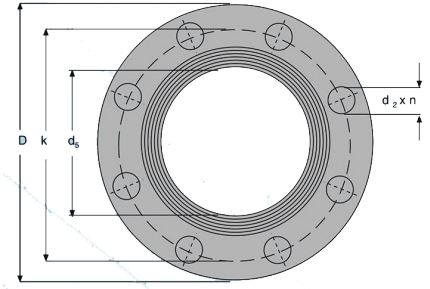
d <sub>a</sub>		S		Birim Ağırlık / Unit Weight (kg/m)																	
				1.6	1.8	2	2.3	2.6	2.9	3.2	3.6	4	4.5	5	5.6	6.3	7.1	8	8.8	10	11
mm	inch	mm	inch	0.063	0.071	0.079	0.091	0.102	0.114	0.126	0.142	0.157	0.177	0.197	0.220	0.248	0.280	0.315	0.346	0.394	0.433
10.2	0.402	1.8	0.063	0.339	0.373	0.404	0.448	0.487													
13.5	0.531	1.8	0.071		0.519	0.567	0.635	0.699	0.758	0.813	0.879										
16	0.630	1.8	0.071		0.630	0.691	0.777	0.859	0.937	1.01	1.10	1.18									
17.2	0.677	1.8	0.071		0.684	0.750	0.845	0.936	1.02	1.10	1.21	1.30	1.41								
19	0.748	2	0.079			0.838	0.947	1.05	1.15	1.25	1.37	1.48	1.61	1.73							
20	0.787	2	0.079			0.888	1.00	1.12	1.22	1.33	1.46	1.58	1.72	1.85							
21.3	0.839	2	0.079			0.952	1.08	1.20	1.32	1.43	1.57	1.71	1.86	2.01							
25	0.984	2	0.079			1.13	1.29	1.44	1.58	1.72	1.90	2.07	2.28	2.47	2.68	2.91					
25.4	1.000	2	0.079			1.15	1.31	1.46	1.61	1.75	1.94	2.11	2.31	2.52	2.73	2.97					
26.9	1.059	2	0.079			1.23	1.40	1.56	1.72	1.87	2.07	2.26	2.49	2.70	2.94	3.20	3.47				
30	1.181	2.3	0.091				1.57	1.76	1.94	2.11	2.34	2.56	2.83	3.08	3.37	3.68	4.01				
31.8	1.252	2.3	0.091				1.67	1.87	2.07	2.26	2.50	2.74	3.03	3.30	3.62	3.96	4.32	4.70			
33.7	1.327	2.3	0.091				1.78	1.99	2.20	2.41	2.67	2.93	3.24	3.54	3.88	4.26	4.66	5.07			
38	1.252	2.6	0.102					2.27	2.51	2.75	3.05	3.35	3.72	4.07	4.47	4.93	5.41	5.92	6.34		
42.4	1.252	2.6	0.102					2.55	2.82	3.09	3.44	3.79	4.21	4.61	5.08	5.61	6.18	6.79	7.29	7.99	
44.5	1.752	2.3	0.102					2.69	2.98	3.26	3.63	4.00	4.44	4.87	5.37	5.94	6.55	7.20	7.75	8.51	9.09
48.3	1.902	2.6	0.102					2.93	3.25	3.56	3.97	4.37	4.86	5.34	5.90	6.53	7.21	7.95	8.57	9.45	10.1
51	2.008	2.6	0.102					3.10	3.44	3.77	4.21	4.64	5.16	5.67	6.27	6.94	7.69	8.48	9.16	10.1	10.9
54	2.126	2.6	0.102					3.30	3.65	4.01	4.47	4.93	5.49	6.04	6.68	7.41	8.21	9.08	9.81	10.9	11.7
57	2.244	2.9	0.114						3.87	4.25	4.74	5.23	5.83	6.41	7.10	7.88	8.74	9.67	10.5	11.6	12.5
60.3	2.374	2.9	0.114						4.11	4.51	5.03	5.55	6.19	6.82	7.55	8.39	9.32	10.3	11.2	12.4	13.4
63.5	2.500	2.9	0.114						4.33	4.76	5.32	5.87	6.55	7.21	8.00	8.89	9.88	10.9	11.9	13.2	14.2
70	2.756	2.9	0.114						4.80	5.27	5.90	6.51	7.27	8.01	8.89	9.90	11.0	12.2	13.3	14.8	16.0
73	2.874	2.9	0.114						5.01	5.51	6.16	6.81	7.60	8.38	9.31	10.4	11.5	12.8	13.9	15.5	16.8
76.1	2.996	2.9	0.144						5.24	5.75	6.44	7.11	7.95	8.77	9.74	10.8	12.1	13.4	14.6	16.3	17.2
82.5	3.248	2.9	0.126							6.26	7.00	7.74	8.66	9.56	10.6	11.8	13.2	14.7	16.0	17.9	19.4
88.9	3.500	3.2	0.126							6.76	7.57	8.38	9.37	10.3	11.5	12.8	14.3	16.0	17.4	19.5	21.1
101.6	4.000	3.6	0.142								8.70	9.63	10.8	14.9	13.3	14.8	16.5	18.5	20.1	22.6	24.6
108	4.252	3.6	0.142								9.27	10.3	11.5	12.7	14.1	15.8	17.2	19.7	21.5	24.2	26.3
114.3	4.500	3.6	0.142								9.83	10.9	12.2	13.5	15.0	16.8	18.1	21.0	22.9	25.7	28.0
127	5.000	4	0.157									12.1	13.6	15.0	16.8	18.8	21.0	23.5	25.7	28.9	31.5
133	5.236	4	0.157									12.7	14.3	15.8	17.6	19.7	22.0	24.7	27.0	30.3	33.1
139.7	5.500	4	0.157									13.4	15.0	16.6	18.5	20.7	23.2	26.0	28.4	32.0	34.9
152.4	6.000	4.5	0.177										16.4	18.2	20.3	22.7	25.4	28.5	31.2	35.1	38.4
159	6.260	4.5	0.177										17.1	19.0	21.2	23.7	26.6	29.8	32.6	36.7	40.1
168.3	6.626	4.5	0.177										18.2	20.1	22.5	25.2	28.2	31.6	34.6	39.0	42.7
177.8	7.000	5	0.197											21.3	23.8	26.6	29.9	33.5	36.7	41.4	45.2
193.7	7.626	5.6	0.220												26.0	29.1	32.7	36.6	40.1	45.3	49.6
219.1	8.629	6.3	0.248													33.1	37.1	41.6	45.6	51.6	56.5
244.5	9.626	6.3	0.248													37.0	41.6	46.7	51.2	57.8	63.3
273	10.748	6.3	0.248													41.4	46.6	52.3	57.3	64.9	71.1
323.9	12.752	7.1	0.280														55.5	62.3	68.4	77.4	84.9
355.5	14.000	8	0.315															68.6	75.3	85.2	93.5
406.4	16.000	8.8	0.346																86.3	97.8	107
457	17.992	10	0.394																	110	121
508	20.000	11	0.433																		135
559	22.008	12.5	0.492																		
610	24.016	12.5	0.492																		
660	25.384	14.2	0.559																		





## Düz Flanş PN 6 / Flat Flange PN 6

BORU/PIPE	FLANŞ / FLANGE				ALIN ÇIKTIŞI / RAISED FACE			DELİKLER / DRILIGS			AĞIRLIK (WEIGHT)	
	Dn	d <sub>s</sub>	D	b	k	d <sub>4</sub>	f	n	vida/screw	d <sub>2</sub>	EN 1092-1 kg/ad - kg/pcs	DIN 2501 kg/ad - kg/pcs
15	22	80	12	12	55	40	2	4	M10	11	0,35	0,35
20	27,5	90	14	14	65	50	2	4	M10	11	0,53	0,53
25	34,5	100	14	14	75	60	2	4	M10	11	0,65	0,65
32	43,5	120	16	14	90	70	2	4	M12	14	1,05	0,91
40	49,5	130	16	14	100	80	3	4	M12	14	1,20	1,00
50	61,5	140	16	14	110	90	3	4	M12	14	1,30	1,10
65	77,5	160	16	14	130	110	3	4	M12	14	1,60	1,40
80	90,5	190	18	16	150	128	3	4	M16	18	2,60	2,30
100	116	210	18	16	170	148	3	4	M16	18	2,90	2,50
125	141,5	240	20	18	200	178	3	8	M16	18	3,90	3,50
150	170,5	265	20	18	225	202	3	8	M16	18	4,30	3,80
200	221,5	320	22	20	280	258	3	8	M16	18	6,30	5,60
250	276,5	375	24	22	335	312	3	12	M16	18	8,20	7,50
300	327,5	440	24	22	395	365	4	12	M20	22	10,65	9,60
350	359,5	490	26	22	445	415	4	12	M20	22	15,30	12,70
400	411	540	28	22	495	465	4	16	M20	22	18,20	13,90
450	462	595	30	22	550	520	4	16	M20	22	22,70	16,10
500	513,5	645	30	24	600	570	4	20	M20	22	24,40	19,10
600	616,5	755	32	24	705	670	5	20	M24	26	31,50	22,80
700	718	860	40	24	810	775	5	24	M24	26	47,50	27,80
800	819	975	44	24	920	880	5	24	M27	30	65,30	33,50
900	920	1075	48	26	1020	980	5	24	M27	30	79,80	40,80
1000	1022	1175	52	26	1120	1080	5	28	M27	30	94,00	44,00
1100	1126	1300	54	28	1240	1202	5	28	M30	33	136,00	64,00
1200	1225	1405	60	28	1340	1295	5	32	M30	33	153,00	67,00
1300	1326	1520	65	30	1450	1400	5	32	M33	36	199,00	85,00
1400	1426	1630	72	32	1560	1510	5	36	M33	36	246,00	104,00
1500	1526	1730	74	32	1660	1610	5	36	M33	36	273,00	109,00
1600	1626	1830	80	34	1760	1710	5	40	M33	36	311,00	126,00
1800	1826	2045	88	36	1970	1920	5	44	M36	39	411,00	160,00
2000	2026	2265	96	38	2180	2125	5	48	M39	42	541,00	204,00
2200	2226	2475	Müşteri İsteği Üzerine Belirlenecektir.	42	2390	2335	5	52	M39	42	-	273,00
2400	2426	2685		44	2600	2545	5	56	M39	42	-	323,00

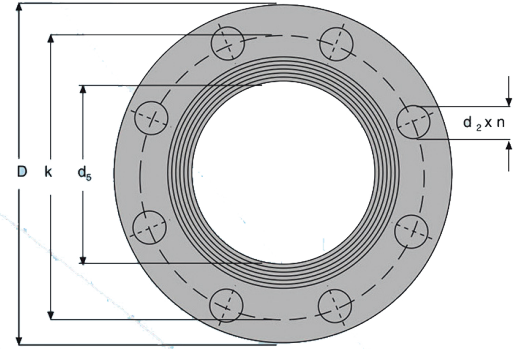


\*\* Ölçüler mm'dir / Dimensions are in mm.



## Düz Flanş PN 10 / Flat Flange PN 10

BORU/PIPE	FLANŞ / FLANGE				ALIN ÇIKTIŞI / RAISED FACE			DELÜKLER / DRILIGS			AĞIRLIK (WEIGHT)	
	Dn	d <sub>s</sub>	D	b	k	d <sub>4</sub>	f	n	vida/screw	d <sub>2</sub>	EN 1092-1 kg/ad - kg/pcs	DIN 2501 kg/ad - kg/pcs
15	22	95	14	14	65	45	2	4	M12	14	0,59	0,59
20	27,5	105	16	16	75	58	2	4	M12	14	0,85	0,85
25	34,5	115	16	16	85	68	2	4	M12	14	1,01	1,01
32	43,5	140	18	16	100	78	2	4	M16	18	1,70	1,50
40	49,5	150	18	16	110	88	3	4	M16	18	1,80	1,60
50	61,5	165	20	18	125	102	3	4	M16	18	2,50	2,20
65	77,5	185	20	18	145	122	3	4	M16	18	3,00	2,70
80	90,5	200	20	20	160	138	3	8	M16	18	3,30	3,30
100	116	220	22	20	180	158	3	8	M16	18	4,00	3,60
125	141,5	250	22	22	210	188	3	8	M16	18	5,00	5,00
150	170,5	285	24	22	240	212	3	8	M20	22	6,50	6,00
200	221,5	340	24	24	295	268	3	8	M20	22	8,50	8,50
250	276,5	395	26	26	350	320	3	12	M20	22	11,00	11,00
300	327,5	445	26	26	400	370	4	12	M20	22	12,30	12,30
350	359,5	505	30	26	460	430	4	16	M20	22	20,30	17,40
400	411	565	32	26	515	482	4	16	M24	26	25,70	2,5
450	462	615	36	28	565	532	4	20	M24	26	31,50	22,20
500	513,5	670	38	28	620	585	4	20	M24	26	37,90	27,30
550	564	730	40	28	675	635	5	20	M24	26	47,60	33,00
600	616,5	780	42	28	725	685	5	20	M27	30	50,80	32,60
700	718	895	50	30	840	800	5	24	M27	30	77,10	44,50
800	819	1015	56	32	950	905	5	24	M30	33	109,50	60,10
900	920	1115	62	34	1050	1005	5	28	M30	33	133,90	70,60
1000	1022	1230	70	34	1160	1110	5	28	M33	36	179,00	83,00
1100	1126	1340	76	36	1270	1220	5	32	M33	36	224,00	102,00
1200	1225	1455	83	38	1380	1330	5	32	M36	39	280,00	123,00
1300	1326	1575		38	1490	1440	5	32	M39	42	-	145,00
1400	1426	1675		42	1590	1535	5	36	M39	42	-	172,00
1500	1530	1785		44	1700	1648	5	36	M39	42	-	200,00
1600	1626	1915		46	1820	1760	5	40	M45	48	-	250,00
1800	1826	2115		50	2020	1960	5	44	M45	48	-	304,00
2000	2026	2325		54	2230	2170	5	48	M45	48	-	379,00
2200	2226	2550		58	2440	2370	5	52	M52	55	-	491,00
2400	2426	2760		62	2650	2570	5	56	M52	55	-	592,00
2600	2626	2960		66	2680	2780	5	60	M52	55	-	678,00



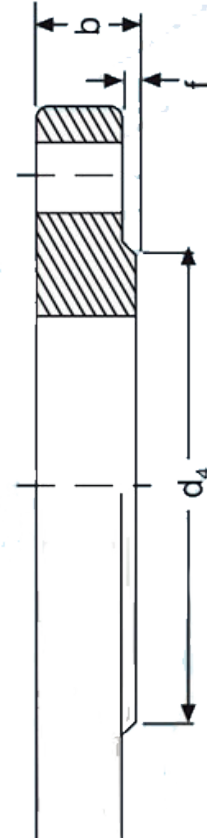
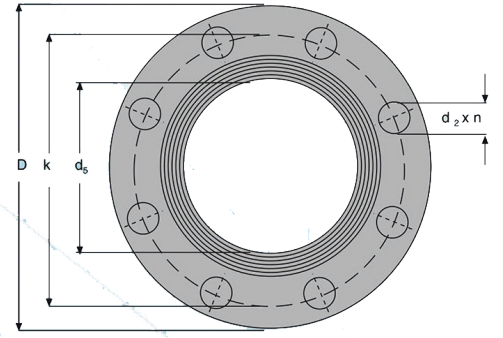
\*\* Ölçüler mm'dir / Dimensions are in mm.



## Düz Flanş PN 16 / Flat Flange PN 16

BORU/PIPE	FLANŞ / FLANGE					ALIN ÇIKTIŞI / RAISED FACE			DELİKLER / DRILIGS		AĞIRLIK (WEIGHT)		
	Dn	d <sub>5</sub>	D	b		k	d <sub>4</sub>	f	n	vida/screw	d <sub>2</sub>	EN 1092-1 kg/ad - kg/pcs	DIN 2501 kg/ad - kg/pcs
				EN 1092-1	DIN 2501								
15	22	95	14	14	65	45	2	4	M12	14	0,60	0,60	
20	27,5	105	16	16	75	58	2	4	M12	14	0,90	0,90	
25	34,5	115	16	16	85	68	2	4	M12	14	1,00	1,00	
32	43,5	140	18	16	100	78	2	4	M16	18	1,70	1,50	
40	49,5	150	18	16	110	88	3	4	M16	18	1,80	1,60	
50	61,5	165	20	18	125	102	3	4	M16	18	2,50	2,20	
65	77,5	185	20	18	145	122	3	8 (10x2) 8/4 (20x)	M16	18	2,90	2,50	
80	90,5	200	20	20	160	138	3	8	M16	18	3,30	3,30	
100	116	220	22	20	180	158	3	8	M16	18	4,00	3,60	
125	141,5	250	22	22	210	188	3	8	M16	18	5,00	5,00	
150	170,5	285	24	22	240	212	3	8	M20	22	6,50	6,00	
200	221,5	340	26	24	295	268	3	12	M24	22	9,00	8,50	
250	276,5	405	29	26	355	320	3	12	M24	26	13,3	11,80	
300	327,5	460	32	28	410	378	4	12	M24	26	17,50	15,10	
350	359	520	35	30	470	438	4	16	M24	26	26,40	22,40	
400	411	580	38	32	525	490	4	16	M27	30	33,90	28,20	
450	462	640	42	32	585	550	4	20	M27	30	43,90	32,90	
500	513,5	715	46	34	650	610	4	20	M30	33	61,20	44,40	
550	564	745	-	34	680	642	5	20	M30	33	-	42,20	
600	616,5	840	55	36	770	725	5	20	M33	36	96,90	61,80	
650	665	875	-	36	805	760	5	24	M33	36	-	62,60	
700	718	910	63	36	840	795	5	24	M30	36	104,30	53,70	
750	766	967	-	38	895	847	5	24	M30	39	-	71,50	
800	819	1025	74	38	950	900	5	24	M33	39	150,50	74,20	
900	920	1125	82	40	1050	1000	5	28	M33	39	183,70	86,10	
1000	1022	1255	90	42	1170	1115	5	28	M39	42	258,50	116,00	
1100	1123	1355	-	44	1270	1220	5	32	M39	42	-	131,60	
1200	1225	1485	-	48	1390	1330	5	32	M45	48	-	174,90	
1300	1326	1585	-	50	1490	1432	5	32	M45	48	-	195,90	
1400	1426	1685	-	52	1590	1530	5	36	M45	48	-	219,10	
1500	1530	1820	-	54	1710	1640	5	36	M52	56	-	266,60	
1600	1626	1930	-	58	1820	1750	5	40	M52	56/55	-	325,40	
1800	1826	2130	-	62	2020	1950	5	44	M52	56/55	-	388,90	
2000	2026	2345	-	66	2230	2150	5	48	M56	62/60	-	471,30	

\*\* Ölçüler mm'dir / Dimensions are in mm.

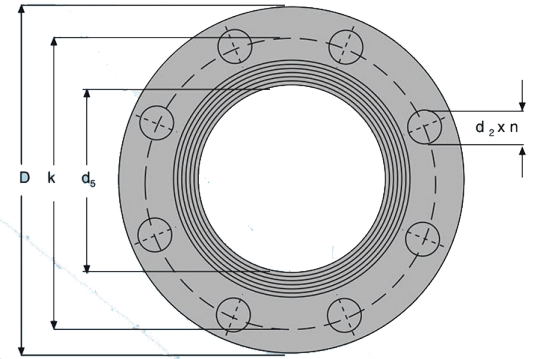




## Düz Flanş PN 25 / Flat Flange PN 25

BORU/PIPE	FLANŞ / FLANGE				ALIN ÇIKTIŞI / RAISED FACE			DELİKLER / DRILIGS		AĞIRLIK (WEIGHT)		
	Dn	d <sub>5</sub>	D	b	k	d <sub>4</sub>	f	n	vida/screw	d <sub>2</sub>	EN 1092-1 kg/ad - kg/pcs	DIN 2501 kg/ad - kg/pcs
			EN 1092-1	DIN 2501								
15	22	95	14	14	65	45	2	4	M12	14	0,59	0,69
20	27,5	105	16	16	75	58	2	4	M12	14	0,85	0,97
25	34,5	115	16	16	85	68	2	4	M12	14	1,01	1,15
32	43,5	140	18	18	100	78	2	4	M16	18	1,68	1,68
40	49,5	150	18	18	110	88	3	4	M16	18	1,80	1,80
50	61,5	165	20	20	125	102	3	4	M16	18	2,50	2,50
65	77,5	185	22	22	145	122	3	8	M16	18	3,20	3,20
80	90,5	200	24	24	160	138	3	8	M16	18	4,00	4,00
100	116	235	26	24	190	162	3	8	M20	22	5,60	5,20
125	141,5	270	28	26	220	188	3	8	M24	26	7,60	7,00
150	170,5	300	30	28	250	218	3	8	M24	26	9,60	8,90
200	221,5	360	32	30	310	278	3	12	M24	26	13,50	12,60
250	276,5	425	35	32	370	335	3	12	M27	30	19,10	17,40
300	327,5	485	38	34	430	395	4	16	M27	30	25,00	22,20
350	359,50	555	42	38	490	450	4	16	M30	33	39,60	35,60
400	411	620	48	40	550	505	4	16	M33	36	55,00	45,40
450	462	670	54	42	600	555	4	20	M33	36	66,90	51,40
500	513,5	730	58	44	660	615	4	20	M33	36	83,90	62,80
600	616,5	845	68	46	770	720	5	20	M36	39	122,00	81,00
700	718	960	85	46	875	820	5	24	M39	42	184,00	97,00
800	819	1085	95	50	990	930	5	24	M45	48	257,00	131,00
900	920	1185		54	1090	1030	5	28	M45	48	-	156,00
1000	1022	1320		58	1210	1140	5	28	M52	56	-	207,00
1100	1122	1420		66	1310	1240	5	32	M52	56	-	256,00
1200	1225	1530		70	1420	1350	5	32	M52	56	-	306,00
1300	1326	1640		74	1530	1455	5	32	M58	62	-	355,00
1400	1426	1755		76	1640	1560	5	36	M58	62	-	410,00
1500	1530	1865		84	1740	1670	5	36	M58	62	-	501,00
1600	1626	1975		90	1860	1780	5	40	M58	62	-	595,00
1800	1826	2195		96	2070	1985	5	44	M64	70	-	731,00
2000	2026	2425		102	2300	2210	5	48	M64	70	-	884,00

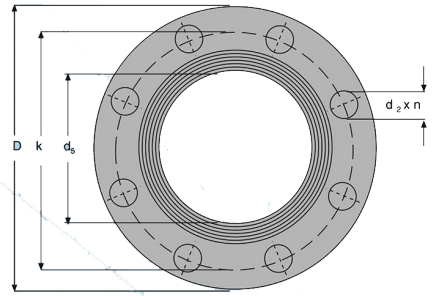
\*\* Ölçüler mm'dir / Dimensions are in mm.





## Düz Flanş PN 40 / Flat Flange PN 40

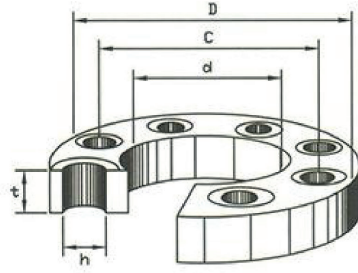
BORU/PIPE	FLANŞ / FLANGE				ALIN ÇIKTIŞI / RAISED FACE			DELİKLER / DRILIGS		AĞIRLIK (WEIGHT)		
	Dn	d <sub>5</sub>	D	h	k	d <sub>4</sub>	f	n	vida/screw	d <sub>2</sub>	EN 1092-1 kg/ad - kg/pcs	DIN 2501 kg/ad - kg/pcs
15	22	95	14	14	65	45	2	4	M12	14	0,59	0,69
20	27,5	105	16	16	75	58	2	4	M12	14	0,85	0,97
25	34,5	115	16	16	85	68	2	4	M12	14	1,01	1,15
32	43,5	140	18	18	100	78	2	4	M16	18	1,67	1,67
40	49,5	150	18	18	110	88	3	4	M16	18	1,80	1,80
50	61,5	165	20	20	125	102	3	4	M16	18	2,40	2,40
65	77,5	185	22	22	145	122	3	8	M16	18	3,20	3,20
80	90,5	200	24	24	160	138	3	8	M16	18	4,00	4,00
100	116	235	26	24	190	162	3	8	M20	22	5,60	5,10
125	141,5	270	28	26	220	188	3	8	M24	26	7,60	7,00
150	170,5	300	30	28	250	218	3	8	M24	26	9,60	8,90
200	221,5	375	36	34	320	285	3	12	M27	26	17,00	16,00
250	276,5	450	42	38	385	345	3	12	M30	30	28,00	25,20
300	327,5	515	52	42	450	410	4	16	M30	30	43,10	34,50
350	359,50	580	58	46	510	465	4	16	M33	33	64,30	50,50
400	411	660	65	50	585	535	4	16	M36	36	94,10	71,70
450	462	685	Müşteri isteği Üzerine Belirlenecektir.	50	610	560	4	20	M36	36	-	69,00
500	513,5	755		52	670	615	4	20	M39	36	-	83,10
600	616,5	890		60	795	735	5	20	M45	39	-	129,00
700	718	995		64	900	848	5	24	M45	42	-	159,00
800	819	1140		72	1030	970	5	24	M52	48	-	237,00
900	920	1250		76	1140	1080	5	28	M52	48	-	285,00
1000	1022	1360		80	1250	1190	5	28	M52	56	-	343,00
1200	1224	1575		88	1460	1394	5	32	M58	56	-	454,00
1300	1324	1685		94	1570	1504	5	32	M58	56	-	545,00
1400	1424	1795		98	1680	1614	5	36	M58	62	-	624,00
1500	1528	1910	104	1790	1722	5	36	M60	62	-	732,00	
1600	1624	2025	108	1900	1826	5	40	M66	62	-	827,00	



\*\* Ölçüler mm'dir / Dimensions are in mm.



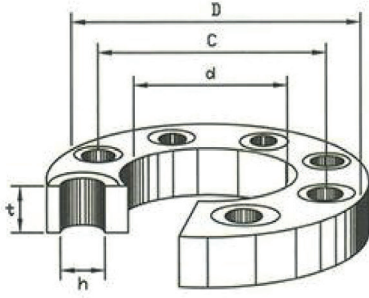
## Jıs 5k Çelik Düz Flanş JIS B 2220 / Jis 5k Steel Flat Flange JIS B 2220



DN (Ölçü)	d	D	C	Civata Delik Adet No. Bolt Holes	h	t
10	17.8 mm	75 mm	55 mm	4	12 mm	9 mm
15	22.2 mm	80 mm	60 mm	4	12 mm	9 mm
20	27.7 mm	85 mm	65 mm	4	12 mm	10 mm
25	34.5 mm	95 mm	75 mm	4	12 mm	10 mm
32	43.2 mm	115 mm	90 mm	4	15 mm	12 mm
40	49.1 mm	120 mm	95 mm	4	15 mm	12 mm
50	61.1 mm	130 mm	105 mm	4	15 mm	14 mm
65	77.1 mm	155 mm	130 mm	4	15 mm	14 mm
80	90 mm	180 mm	145 mm	4	19 mm	14 mm
100	115.4 mm	200 mm	165 mm	8	19 mm	16 mm
125	141.2 mm	235 mm	200 mm	8	19 mm	16 mm
150	166.6 mm	265 mm	230 mm	8	19 mm	18 mm
200	218 mm	320 mm	280 mm	8	23 mm	20 mm
250	269.5 mm	385 mm	345 mm	12	23 mm	22 mm
300	321 mm	430 mm	390 mm	12	23 mm	22 mm
350	358.1 mm	480 mm	435 mm	12	25 mm	24 mm
400	409 mm	540 mm	495 mm	16	25 mm	24 mm
450	460 mm	605 mm	555 mm	16	25 mm	24 mm
500	511 mm	655 mm	605 mm	20	25 mm	24 mm
550	562 mm	720 mm	665 mm	20	27 mm	26 mm
600	613 mm	770 mm	715 mm	20	27 mm	26 mm
650	664 mm	825 mm	770 mm	24	27 mm	26 mm
700	715 mm	875 mm	820 mm	24	27 mm	26 mm
750	766 mm	945 mm	880 mm	24	33 mm	28 mm
800	817 mm	995 mm	930 mm	24	33 mm	28 mm
850	-	1045 mm	980 mm	24	33 mm	-
900	919 mm	1095 mm	1030 mm	24	33 mm	30 mm
1000	1021 mm	1195 mm	1130 mm	28	33 mm	32 mm
1100	-	1305 mm	1240 mm	28	33 mm	-
1200	-	1420 mm	1350 mm	32	33 mm	-



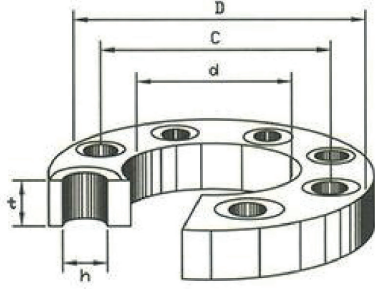
## Jis 10k Çelik Düz Flanş JIS B 2220 / Jis 10k Steel Flat Flange JIS B 2220



DN (Ölçü)	d	D	C	Civata Delik Adet No. Bolt Holes	h	t
10	17.8 mm	90 mm	65 mm	4	15 mm	12 mm
15	22.2 mm	95 mm	70 mm	4	15 mm	12 mm
20	27.7 mm	100 mm	75 mm	4	19 mm	14 mm
25	34.5 mm	125 mm	90 mm	4	19 mm	14 mm
32	43.2 mm	135 mm	100 mm	4	19 mm	16 mm
40	49.1 mm	140 mm	105 mm	4	19 mm	16 mm
50	61.1 mm	155 mm	120 mm	4	19 mm	16 mm
65	77.1 mm	175 mm	140 mm	4	19 mm	18 mm
80	90 mm	185 mm	150 mm	8	19 mm	18 mm
100	115.4 mm	210 mm	175 mm	8	19 mm	18 mm
125	141.2 mm	250 mm	210 mm	8	23 mm	20 mm
150	166.6 mm	280 mm	240 mm	8	23 mm	22 mm
200	218 mm	330 mm	290 mm	12	23 mm	22 mm
250	269.5 mm	400 mm	355 mm	12	25 mm	24 mm
300	321 mm	445 mm	400 mm	16	25 mm	24 mm
350	358.1 mm	490 mm	445 mm	16	25 mm	26 mm
400	409 mm	560 mm	510 mm	16	27 mm	28 mm
450	460 mm	620 mm	565 mm	20	27 mm	30 mm
500	511 mm	675 mm	620 mm	20	27 mm	30 mm
550	562 mm	745 mm	680 mm	20	33 mm	32 mm
600	613 mm	795 mm	730 mm	24	33 mm	32 mm
650	664 mm	845 mm	780 mm	24	33 mm	34 mm
700	715 mm	905 mm	840 mm	24	33 mm	34 mm
750	766 mm	970 mm	900 mm	24	33 mm	36 mm
800	817 mm	1020 mm	950 mm	28	33 mm	36 mm
850	-	1070 mm	1000 mm	28	33 mm	-
900	919 mm	1120 mm	1050 mm	28	33 mm	38 mm
1000	1021 mm	1235 mm	1160 mm	28	39 mm	40 mm
1100	-	1345 mm	1270 mm	28	39 mm	-
1200	-	1465 mm	1380 mm	32	39 mm	-



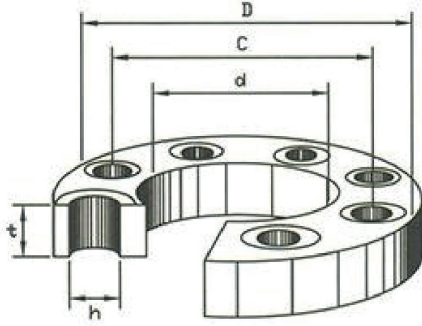
## Jıs 16k Çelik Düz Flanş JIS B 2220/ Jis 16k Steel Flat Flange JIS B 2220



DN (Ölçü)	d	D	C	Civata Delik Adet No. Bolt Holes	h	t
10	17.8 mm	90 mm	65 mm	4	15 mm	12 mm
15	22.2 mm	95 mm	70 mm	4	15 mm	12 mm
20	27.7 mm	100 mm	75 mm	4	19 mm	14 mm
25	34.5 mm	125 mm	90 mm	4	19 mm	14 mm
32	43.2 mm	135 mm	100 mm	4	19 mm	16 mm
40	49.1 mm	140 mm	105 mm	4	19 mm	16 mm
50	61.1 mm	155 mm	120 mm	8	19 mm	16 mm
65	77.1 mm	175 mm	140 mm	8	19 mm	18 mm
80	90 mm	200 mm	160 mm	8	23 mm	20 mm
100	115.4 mm	225 mm	185 mm	8	23 mm	22 mm
125	141.2 mm	270 mm	225 mm	8	25 mm	22 mm
150	166.6 mm	305 mm	260 mm	12	25 mm	24 mm
200	218 mm	350 mm	305 mm	12	25 mm	26 mm
250	269.5 mm	430 mm	380 mm	12	27 mm	28 mm
300	321 mm	480 mm	430 mm	16	27 mm	30 mm
350	358.1 mm	540 mm	480 mm	16	33 mm	34 mm
400	409 mm	605 mm	540 mm	16	33 mm	38 mm
450	460 mm	675 mm	605 mm	20	33 mm	40 mm
500	511 mm	730 mm	660 mm	20	33 mm	42 mm
550	562 mm	795 mm	720 mm	20	39 mm	44 mm
600	613 mm	845 mm	770 mm	24	39 mm	46 mm
650	664 mm	895 mm	820 mm	24	39 mm	48 mm
700	715 mm	960 mm	875 mm	24	42 mm	50 mm
750	766 mm	1020 mm	935 mm	24	42 mm	52 mm
800	817 mm	1085 mm	990 mm	24	48 mm	54 mm
850	-	1135 mm	1040 mm	24	48 mm	-
900	919 mm	1185 mm	1090 mm	28	48 mm	58 mm
1000	1021 mm	1320 mm	1210 mm	28	56 mm	62 mm
1100	-	1420 mm	1310 mm	32	56 mm	-
1200	-	1530 mm	1420 mm	32	56 mm	-



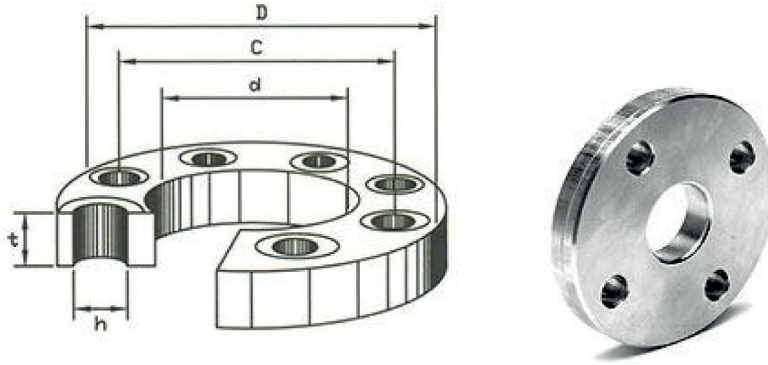
## Jis 20k Çelik Düz Flanş JIS B 2220 / Jis 20k Steel Flat Flange JIS B 2220



DN (Ölçü)	d	D	C	Civata Delik Adet No. Bolt Holes	h	t
10	17.8 mm	90 mm	65 mm	4	15 mm	14 mm
15	22.2 mm	95 mm	70 mm	4	15 mm	14 mm
20	27.7 mm	100 mm	75 mm	4	19 mm	16 mm
25	34.5 mm	125 mm	90 mm	4	19 mm	16 mm
32	43.2 mm	135 mm	100 mm	4	19 mm	18 mm
40	49.1 mm	140 mm	105 mm	4	19 mm	18 mm
50	61.1 mm	155 mm	120 mm	8	19 mm	18 mm
65	77.1 mm	175 mm	140 mm	8	19 mm	20 mm
80	90 mm	200 mm	160 mm	8	23 mm	22 mm
100	115.4 mm	225 mm	185 mm	8	23 mm	24 mm
125	141.2 mm	270 mm	225 mm	8	25 mm	26 mm
150	166.6 mm	305 mm	260 mm	12	25 mm	28 mm
200	218 mm	350 mm	305 mm	12	25 mm	30 mm
250	269.5 mm	430 mm	380 mm	12	27 mm	34 mm
300	321 mm	480 mm	430 mm	16	27 mm	36 mm
350	358.1 mm	540 mm	480 mm	16	33 mm	40 mm
400	409 mm	605 mm	540 mm	16	33 mm	46 mm
450	460 mm	675 mm	605 mm	20	33 mm	48 mm
500	511 mm	730 mm	660 mm	20	33 mm	50 mm
550	562 mm	795 mm	720 mm	20	39 mm	52 mm
600	613 mm	845 mm	770 mm	24	39 mm	54 mm
650	664 mm	945 mm	850 mm	24	48 mm	60 mm
700	715 mm	995 mm	900 mm	24	48 mm	64 mm
750	766 mm	1080 mm	970 mm	24	56 mm	68 mm
800	817 mm	1140 mm	1030 mm	24	56 mm	72 mm
850	-	1200 mm	1090 mm	24	56 mm	-
900	919 mm	1250 mm	1140 mm	28	56 mm	76 mm



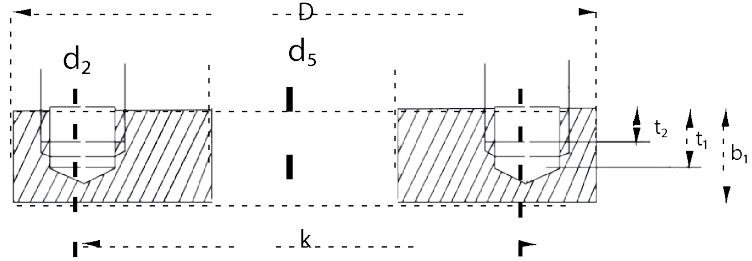
## Jis 40k Çelik Düz Flanş JIS B 2220 / Jis 40k Steel Flat Flange JIS B 2220



DN (Ölçü)	d	D	C	Civata Delik Adet No. Bolt Holes	h	t
10	17.8 mm	110 mm	75 mm	4	19 mm	18 mm
15	22.2 mm	115 mm	80 mm	4	19 mm	20 mm
20	27.7 mm	120 mm	85 mm	4	19 mm	20 mm
25	34.5 mm	130 mm	95 mm	4	19 mm	22 mm
32	43.2 mm	140 mm	105 mm	4	19 mm	24 mm
40	49.1 mm	160 mm	120 mm	4	19 mm	24 mm
50	61.1 mm	165 mm	130 mm	8	19 mm	26 mm
65	77.1 mm	200 mm	160 mm	8	23 mm	30 mm
80	90 mm	210 mm	170 mm	8	23 mm	32 mm
100	115.4 mm	250 mm	205 mm	8	25 mm	36 mm
125	141.2 mm	300 mm	250 mm	8	27 mm	40 mm
150	166.6 mm	355 mm	295 mm	12	33 mm	44 mm
200	218 mm	405 mm	345 mm	12	33 mm	50 mm
250	269.5 mm	475 mm	410 mm	12	33 mm	56 mm
300	321 mm	540 mm	470 mm	16	39 mm	60 mm
350	358.1 mm	585 mm	515 mm	16	39 mm	64 mm
400	409 mm	645 mm	570 mm	16	39 mm	70 mm



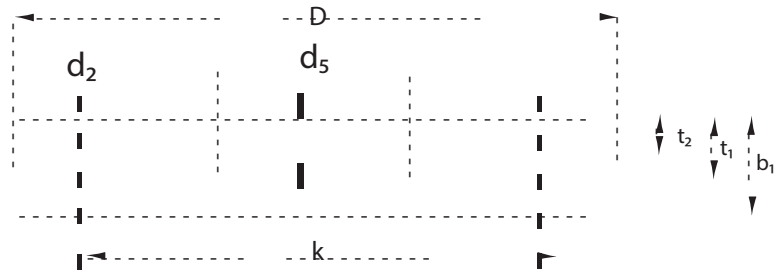
## Pn10 Dablin Çelik Flanş Din 86041/ Pn10 Double Steel Flange DIN 86041



EBAT/SIZE	BORU/PIPE	FLANŞ/FLANGE				EXTRA STRONG			DOUBLE EXTRA STRONG		AĞIRLIK (WEIGHT) kg/ad - kg/pcs
		d5	D	b1	k	n	d2	t1	t2		
10	17,2	18	90	25	60	4	M12	19	13	1,1	
15	21,3	22	95	25	65	4	M12	19	13	1,3	
20	25	26	105	25	75	4	M12	19	13	1,8	
	26,9	27,6									
25	30	31	115	25	85	4	M12	19	13	1,8	
	33,7	34,4									
32	42,4	43,1	140	31	100	4	M16			3,3	
40	48,3	49	150	31	110	4	M16	23	17	3,8	
50	60,3	61,1	165	31	125	4	M16	23	17	4,5	
65	76,1	77,1	185	31	145	4	M16	23	17	5,3	
80	88,9	90,3	200	31	160	8	M16	23	17	6,0	
100	114,3	115,9	220	31	180	8	M16	23	17	6,7	
125	139,7	141,6	250	31	210	8	M16	23	17	8,2	
150	168,3	170,5	285	38	240	8	M20	28	21	12,6	
175	193,7	196,1	315	38	270	8	M20	28	21	14	
200	219,1	221,8	340	38	295	8	M20	28	21	15,3	
250	273	276,2	395	38	350	12	M20	28	21	19,5	
300	323,9	327,6	445	38	400	12	M20	28	21	21	
350	355,6	359,7	505	38	460	16	M20	28	21	27,3	
400	406,4	411	565	45	515	16	M24	33	25	38	
450	457	462,3	615	45	565	20	M24	33	25	44,6	
500	508	513,6	670	45	620	20	M24	33	25	50,6	
600	610	614,6	780	50	725	20	M27	36	28	69,5	
700	711	716	895	50	840	24	M27	36	28	86,8	
800	813	818,6	1015	56	950	24	M30	41	31	122	



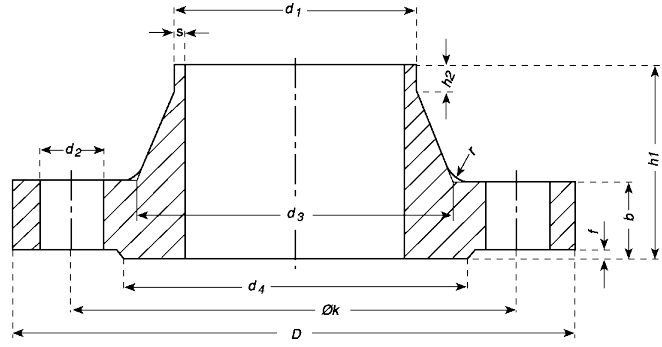
## Pn16 Dablin Çelik Flanş Dın 860411 / Pn16 Double Steel Flange DIN 860411



EBAT/SIZE	BORU/PIPE	FLANŞ/FLANGE				EXTRA STRONG			DOUBLE EXTRA STRONG		AĞIRLIK (WEIGHT) kg/ad - kg/pcs
		d5	D	b1	k	n	d2	t1	t2		
10	17,2	18	90	25	60	4	M12	19	13	1,1	
15	21,3	22	95	25	65	4	M12	19	13	1,3	
20	25	26	105	25	75	4	M12	19	13	1,8	
	26,9	27,6									
25	30	31	115	25	85	4	M12	19	13	1,8	
	33,7	34,4									
32	42,4	43,1	140	31	100	4	M16	23		3,3	
40	48,3	49	150	31	110	4	M16	23	17	3,8	
50	60,3	61,1	165	31	125	4	M16	23	17	4,5	
65	76,1	77,1	185	31	145	4	M16	23	17	5,3	
80	88,9	90,3	200	31	160	8	M16	23	17	6,0	
100	114,3	115,9	220	31	180	8	M16	23	17	6,7	
125	139,7	141,6	250	31	210	8	M16	23	17	8,2	
150	168,3	170,5	285	38	240	8	M16	23	17	12,6	
175	193,7	196,1	315	38	270	8	M16	23	17	14	
200	219,1	221,8	340	38	295	12	M20	28	20	16,40	
250	273	276,2	405	42	355	12	M24	33	24	25	
300	323,9	327,6	460	42	410	12	M24	33	24	30,20	
350	355,6	359,7	520	42	470	16	M24	33	24	35,90	
400	406,4	411	580	45	525	16	M27	36	25	47	
450	457	462,3	640	50	585	20	M27	40	30	62	
500	508	514	715	52	650	20	M30	40	30	80	



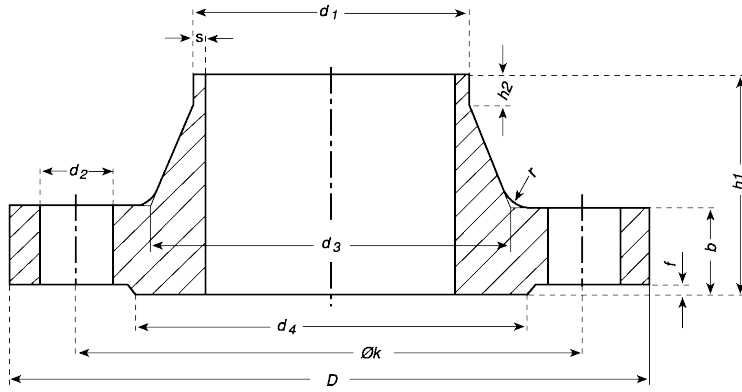
## Kaynak Boyunlu Flanş PN16 / Welding Neck Flange PN16



BORU PIPE		FLANŞ FLANGE			BOYUN NECK			ALIN ÇIKINTISI RAISED FACE		CIVATALAR BOLTS			Ağırlık Weight (7,85 kg/dm <sup>3</sup> ) kg.		
d	d <sub>1</sub>	D	b	k	h <sub>1</sub>	d <sub>3</sub>	s	r	h <sub>2</sub>	d <sub>4</sub>	f	Delik Hole		Vida Screw	d <sub>2</sub>
10	14 17,2	90	16	60	35	25 28	1,8	4	6	40	2	4	M 12	14	0,580
15	20 21,3	95	16	65	38	30 32	2	4	6	45	2	4	M 12	14	0,648
20	25 26,9	105	18	75	40	38 40	2,3	4	6	58	2	4	M 12	14	0,952
25	30 33,7	115	18	85	40	42 45	2,6	4	6	68	2	4	M 12	14	1,14
32	38 42,4	140	18	100	42	52 56	2,6	6	6	78	2	4	M 16	18	1,69
40	44,5 48,3	150	18	110	45	60 64	2,6	6	7	88	3	4	M 16	18	1,86
50	57 60,3	165	18	125	45	72 75	2,9	6	8	102	3	4	M 16	18	2,53
65	76,1	185	18	145	45	90	2,9	6	10	122	3	4	M 16	18	3,06
80	88,9	200	20	160	50	105	3,2	8	10	138	3	8	M 16	18	3,70
100	108 114,3	220	20	180	52	125 131	3,6	8	12	158	3	8	M 16	18	4,62
125	133 139,7	250	22	210	55	150 156	4	8	12	188	3	8	M 16	18	6,30
150	159 168,3	285	22	240	55	175 184	4,5	10	12	212	3	8	M 20	22	7,75
175	191 193,7	315	24	270	60	208 210	5,4	10	12	242	3	8	M 20	22	10,0
200	216 219,1	340	24	295	62	232 235	5,9	10	16	268	3	12	M 20	22	11,0
250	267 273	405	26	355	70	285 292	6,3	12	16	320	3	12	M 24	26	15,6
300	318 323,9	460	28	410	78	338 344	7,1	12	16	378	4	12	M 24	26	22,0
350	355,6 368	520	30	470	82	390	8	12	16	438	4	16	M 24	26	28,7
400	406 419	580	32	525	85	445	8	12	16	490	4	16	M 27	30	36,3
500	508 521	715	36	650	84	548	8	12	16	610	4	20	M 30	33	59,3
600	609,6 622	840	40	770	88	652	8,8	12	18	725	5	20	M 33	36	73,4
700	711,2 720	910	40	840	104	755	8,8	12	18	795	5	24	M 33	36	75,0
800	812,8 820	1025	41	950	108	855	10	12	20	900	5	24	M 36	39	99,0
900	914,4 920	1125	48	1050	118	955	10	12	20	1000	5	28	M 36	39	119
1000	1016 1020	1255	59	1170	137	1058	10	16	22	1115	5	28	M 39	42	159



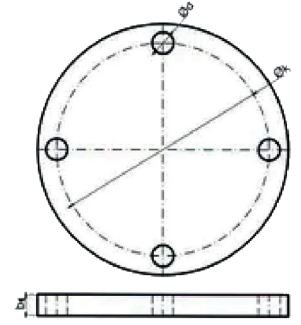
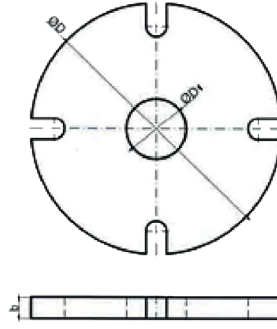
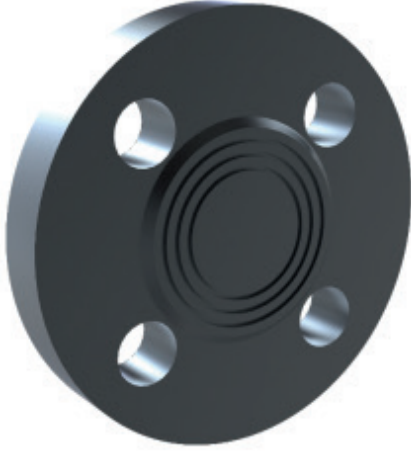
## Kaynak Boyunlu Flanş PN40 / Welding Neck Flange PN40



BORU PIPE		FLANŞ FLANGE				BOYUN NECK				ALIN ÇIKINTISI RAISED FACE		CIVATALAR BOLTS			Ağırlık Weight (7,85 kg/dm <sup>3</sup> ) kg.
d	d <sub>1</sub>	D	b	k	h <sub>1</sub>	d <sub>3</sub>	s	r	h <sub>2</sub>	d <sub>4</sub>	f	Sayısı	Vida	d <sub>2</sub>	
10	14 17,2	90	16	60	35	25 28	1,8	4	6	40	2	4	M 12	14	0,661
15	20 21,3	95	16	65	38	30 32	2	4	6	45	2	4	M 12	14	0,746
20	25 26,9	105	18	75	40	38 40	2,3	4	6	58	2	4	M 12	14	1,06
25	30 33,7	115	18	85	40	42 46	2,6	4	6	68	2	4	M 12	14	1,29
32	38 42,4	140	18	100	42	52 56	2,6	6	6	78	2	4	M 16	18	1,88
40	44,5 48,3	150	18	110	45	60 64	2,6	6	7	88	3	4	M 16	18	2,33
50	57 60,3	165	20	125	48	72 75	2,9	6	8	102	3	4	M 16	18	2,82
65	76,1	185	22	145	52	90	2,9	6	10	122	3	8	M 16	18	3,74
80	88,9	200	24	160	58	105	3,2	8	12	138	3	8	M 16	18	4,75
100	108 114,3	235	24	190	65	128 134	3,6	8	12	162	3	8	M 20	22	6,52
125	133 139,7	270	26	220	68	155 162	4	8	12	188	3	8	M 24	26	9,07
150	159 168,3	300	28	250	75	182 192	4,5	10	12	218	3	8	M 24	26	11,8
175	191 193,7	350	30	295	80	215 218	5,6	10	15	260	3	12	M 27	30	18,2
200	216 219,1	375	34	320	88	240 244	6,3	10	16	285	3	12	M 27	30	21,5
250	267 273	450	38	385	105	298 306	7,1	12	18	345	3	12	M 30	33	34,9
300	318 323,9	515	42	450	115	352 362	8	12	18	410	4	16	M 30	33	49,7
350	355,6 368	580	46	510	125	408	8,8	12	20	465	4	16	M 33	36	68,1
400	406,4 419	660	50	585	135	462	11	12	20	535	4	16	M 36	39	96,5
500	508 521	755	57	670	140	562	14,2	12	20	615	4	20	M 39	42	117



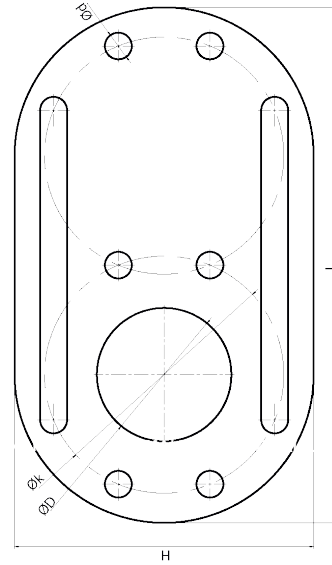
## Beynelmilel Flanş / International Flange



TİPİ	Q A1 (mm)	Q A2 (mm)	Q A3 (mm)	A (mm)	B (mm)	n
Pis su beynelminel flanşı	63	210	18	17	20	4
Mazot beynelminel flanşı	50	215	18	17	20	4
Kirli yağ beynelminel flanşı	50	215	19	28	20	6
Tatlı su beynelminel flanşı	63	185	17	28	20	5
Yangın beynelminel flanşı	63	180	17	28	20	4



## Spectacle Flanş / Spectacle Flange



DN	NPS	H	L	D	d	k	t	kg
15	1/2"	95	140	22	14	65	3	0,2
20	3/4"	105	158	28	14	75	3	0,25
25	1"	130	175	34,5	14	85	3	0,3
32	1 1/4"	140	211	44	18	100	3	0,45
40	1 1/2"	150	228	49,5	18	110	3	0,5
50	2"	165	253	61,5	18	125	3	0,6
65	2 1/2"	185	286	78	18	145	3	0,8
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	2,5
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	5,2



## Flanş Ölçüm Tablosu / Flange Measurement Chart

FLANŞ		PN6				PN10			
DN	İÇ ÇAP	DIŞ ÇAP	DELİK MERKEZİ	KALINLIK	DELİK SAYISI	DIŞ ÇAP	DELİK MERKEZİ	KALINLIK	DELİK SAYISI
15	21,3	80	55	12	4	95	65	14	4
20	26,9	90	65	14	4	105	75	16	4
25	33,7	100	75	14	4	115	85	16	4
32	42,4	120	90	16	4	140	100	18	4
40	48,3	130	100	16	4	150	110	18	4
50	60,3	140	110	16	4	165	125	20	4
65	76,1	160	130	16	4	185	145	20	4
80	88,9	190	150	18	4	200	160	20	8
100	114,3	210	170	18	4	220	180	22	8
125	139,7	240	200	20	8	250	210	22	8
150	168,3	265	225	20	8	285	240	24	8
200	219,1	320	280	22	8	340	295	24	8
250	273	375	335	24	12	395	350	26	12
300	323,9	440	395	24	12	445	400	26	12
350	355,6	490	445	26	12	505	460	30	16
400	406,4	540	495	28	16	565	515	32	16
450	457	595	550	30	16	615	565	36	20
500	508	645	600	30	20	670	620	38	20
600	610	755	708	32	20	780	725	42	20
700	711	860	810	40	24	895	800	50	24
800	813	975	920	44	24	1015	950	56	24
900	914	1075	1020	48	24	1115	1050	62	28
1000	1016	1175	1120	52	25	1230	1160	70	28



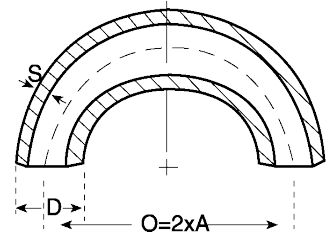
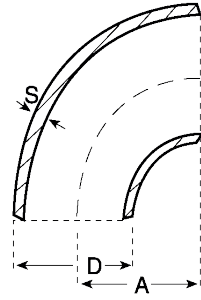
## Flanş Ölçüm Tablosu / Flange Measurement Chart

PN 16				5K				10K			
DIŞ ÇAP	DELİK MERKEZİ	KALINLIK	DELİK SAYISI	DIŞ ÇAP	DELİK MERKEZİ	KALINLIK	DELİK SAYISI	DIŞ ÇAP	DELİK MERKEZİ	KALINLIK	DELİK SAYISI
95	65	14	4	80	60	9	4	95	70	12	4
105	75	16	4	85	65	10	4	100	75	14	4
115	85	16	4	95	75	10	4	125	90	14	4
140	100	18	4	115	90	12	4	135	100	16	4
150	110	18	4	120	95	12	4	140	105	16	4
165	125	20	4	130	105	14	4	155	120	16	4
185	145	20	4	155	130	14	4	175	140	18	4
200	160	20	8	180	145	14	4	185	150	18	8
220	180	22	8	200	165	16	8	240	175	18	8
250	210	22	8	235	200	16	8	250	210	20	8
285	240	24	8	265	230	18	8	280	240	22	8
340	295	26	12	320	280	20	8	330	290	22	12
405	355	29	12	385	345	22	12	400	355	24	12
460	410	32	12	430	390	22	12	445	400	24	16
520	470	35	16	480	435	24	12	490	445	26	16
580	525	38	16	540	495	24	16	560	510	28	16
640	585	42	20	605	555	24	16	620	565	30	20
715	650	46	20	655	605	24	20	675	620	30	20
840	770	55	20	770	715	26	20	795	730	32	24
910	840	63	24	875	820	26	24	905	840	34	24
1020	950	74	24	995	930	28	24	1020	950	36	28
1125	1050	82	28	1075	1095	30	24	1120	1050	38	28
1255	1170	90	28	1195	1130	32	28	1235	1160	40	28



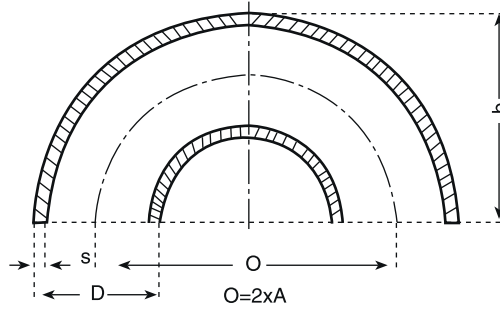
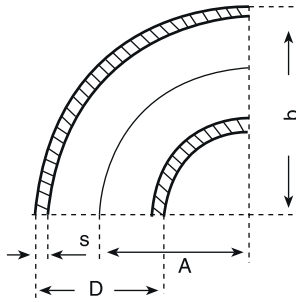
## Dirsek Din 2605 / Elbow Din 2605

Çap O.D. D mm	Etkalnlığı Wall Thickness S mm	Radyus Radius 2xA mm	Ağırlık Theor. Weight	
			90°-Angle kg	180°-Angle kg
20	2	50 ± 5	0,04	0,08
21,3	2	55 ± 5	0,04	0,08
25	2	55 ± 5	0,05	0,10
26,9	2,3	57 ± 5	0,07	0,14
30	2,6	67 ± 5	0,09	0,18
31,8	2,6	70 ± 5	0,11	0,22
33,7	2,6	76 ± 5	0,12	0,24
38	2,6	90 ± 5	0,16	0,32
42,4	2,6	95 ± 5	0,19	0,38
44,5	2,6	102 ± 5	0,22	0,44
48,3	2,6	114 ± 6	0,27	0,54
51	2,9	127 ± 6	0,31	0,62
57	2,9	144 ± 6	0,44	0,88
60,3	2,9	152 ± 6	0,49	0,98
63,5	2,9	165 ± 6	0,57	1,14
70	2,9	184 ± 6	0,70	1,40
76,1	2,9	190 ± 6	0,79	1,58
82,5	3,2	215 ± 6	1,07	2,14
88,9	3,2	229 ± 6	1,22	2,44
101,6	3,6	267 ± 6	1,83	3,66
108	3,6	285 ± 6	2,08	4,16
114,3	3,6	305 ± 6	2,37	4,74
133	4	362 ± 6	3,64	7,28
139,7	4	381 ± 8	4,04	8,08
159	4,5	432 ± 8	5,80	11,60
168,3	4,5	457 ± 8	6,50	13,00
193,7	5,4	540 ± 8	10,60	21,20
219,1	5,9	610 ± 8	14,90	29,80
244,5	6,3	680 ± 8	19,80	39,60
267	6,3	756 ± 8	24,10	48,20
273	6,3	762 ± 10	24,90	49,80
323,9	7,1	914 ± 10	40,00	80, -
355,6	8	1067 ± 20	57,20	114,40
368	8	1067 ± 20	59,20	118,40
406,4	8,8	1219 ± 20	82,20	164,40
419	10	1219 ± 20	96,60	193,20
457,2	10	1372 ± 30	119,00	238,00
508	11	1524 ± 70	162,00	324,00
609,6	12,5	1800 ± 100	261,50	523,00
622	13	1850 ± 100	276, -	552,00
711,2	14,2	2100 ± 100	404,00	808,00
812,8	16	2400 ± 200	590,00	1180,00





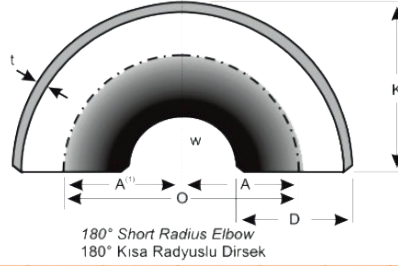
## Dirsek / Elbow



Dış Çap Outside Dia. D		Ortalama Çap. A		Yükseklik b	SCH 40		SCH 80	
(inch)	(mm)	(mm)	Tolerans		Et Kalınlığı Wall Thick. s	90° Ağırlık Theor. Weight	Et Kalınlığı Wall Thick. s	90° Ağırlık Theor. Weight
3/4"	26,9	28,5	± 2,5	42	2,9	0,077	3,9	0,100
1"	33,7	38		55	3,38	0,154	4,55	0,195
1 1/4"	42,4	47,5		69	3,56	0,263	4,85	0,340
1 1/2"	48,3	57	± 3	81	3,68	0,376	5,08	0,481
2"	60,3	76		106	3,91	0,676	5,54	0,907
2 1/2"	76,1	95		133	5,16	1,40	7,01	1,730
3"	88,9	114,5		159	5,49	2,080	7,62	2,780
4"	114,3	152,5	± 4	210	6,02	4,020	8,56	5,460
5"	139,7	190,5		260	6,67	6,770	9,53	9,100
6"	168,3	228,5		313	7,11	10,900	10,97	15,500
8"	219,1	305	± 5	415	8,18	20,900	12,7	31,000
10"	273	381		517	9,27	37,700	12,7	49,400
12"	323,9	457	± 10	619	9,53	55,800	12,7	71,200
14"	355,6	533,5		711	9,53	71,500	12,7	91,600
16"	406,4	609,5		813	9,53	93,600	12,7	120,000
18"	457,2	686	± 15	914	9,53	119,000	12,7	157,000
20"	508	762	± 35	1016	9,53	147,000	12,7	190,000



## Kısa Yarıçaplı Dirsek / Short Radius Elbow



Nominal Boru Ölçüsü Nominal Pipe Size (NPS)	Dış Çap Outside diameter at bevel	Merkezden Merkez Center-to-center	Sırttan Yüze Back-to-face	Merkezden Sona Center-to-end	STD	SCH X.S.	SCH X.X.S.	SCH 10	SCH 20
Inches	D-mm	O-mm	K-mm	A-mm	t mm W.T. Et Kalınlığı w kg weight of 180° 180°'nin ağırlığı				
1	33	51	41	25	3,38 0,20	4,55 0,27	9,09 0,46		
1 1/4	42	64	52	32	3,56 0,33	4,85 0,50	9,70 0,82		
1 1/2	48	76	62	38	3,68 0,48	5,08 0,60	10,16 1,20		
2	60	102	81	51	3,91 0,86	5,54 1,20	11,07 2,26		
2 1/2	73	127	100	64	5,16 1,64	7,01 2,30	14,02 4,06		
3	89	152	121	76	5,49 2,70	7,62 3,70	15,24 6,94		
3 1/2	102	178	140	89	5,74 3,80	8,08 5,20			
4	114	203	159	102	6,02 5,20	8,56 7,10	17,12 13,72		
5	141	254	197	127	6,55 8,70	9,52 12,40	19,05 24,00		
6	168	305	237	152	7,11 12,90	10,97 20,40	21,95 40,00		
8	219	406	313	203	8,18 33,00	12,70 45,00	22,23 72,00		6,35 22,25
10	273	508	391	254	9,27 62,30	12,70 62,30	25,40 130,00		6,35 34,70
12	324	610	467	305	9,27 90,00	12,70 98,06	25,40 188,00		6,35 50,00
14	356	711	533	356	9,52 106,00	12,70 126,21		6,35 60,00	7,92 79,00
16	406	813	610	406	9,52 142,50	12,70 165,26		6,35 79,35	7,92 104,42
18	457	914	686	457	9,52 180,00	12,70 209,75		6,35 97,50	7,92 130,75
20	508	1016	762	508	9,52 219,00	12,70 259,70		6,35 130,00	
22	559	1118	838	559	9,52 264,00	12,70 314,00		6,35 160,00	
24	610	1219	914	914	9,52 330,00	12,70 376,82		6,35 192,00	

(1) Dimension "A" is equal to 1/2 of dimension "O" A'nın ölçüsü O ölçüsünün yarısıdır

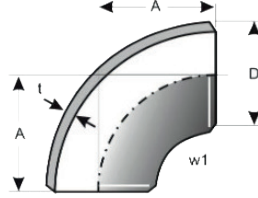
$$w_1 = w/2$$

Weights are approximate Ağırlıklar yaklaşık olarak verilmiştir.

Dimensions in mm Ölçüler mm olarak verilmiştir.



## Kısa Yarıçaplı Dirsek / Short Radius Elbow

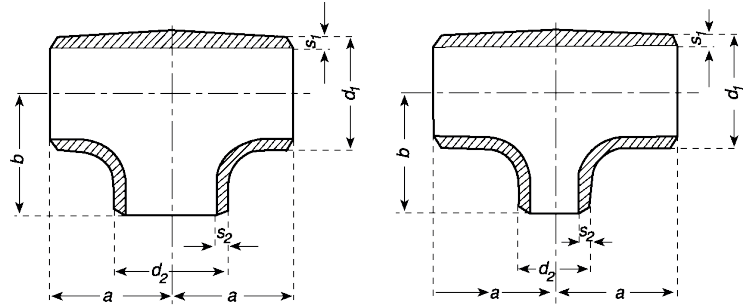


90° Short Radius Elbow  
90° Kısa Radyuslu Dirsek

SCH 30	SCH 40	SCH 60	SCH 80	SCH 100	SCH 120	SCH 140	SCH 160	Nominal Boru Ölçüsü Nominal Pipe Size (NPS)
t mm W.T. Et Kalınlığı								Inches
w kg weight of 180°								180°'nin ağırlığı
2,90							6,35	1
							0,36	
2,97							6,35	1 1/4
							0,58	
3,18							7,13	1 1/2
							0,90	
3,18							8,74	2
4,78					2,26		1,86	2 1/2
					14,02		9,52	
4,78					4,06		3,12	3
					15,24		11,13	
4,78					6,94		5,36	3 1/2
					11,13		13,50	4
					9,45		11,24	
					12,70		15,87	5
					18,00		20,56	
					14,27		18,26	6
					27,00		33,94	
7,03		10,31		15,09	18,26	20,62	23,01	8
24,51		35,10		52,65	58,00	64,00	75,00	
7,80				15,09	18,26	21,44	25,40	10
42,38				81,00	100,00	106,00	124,00	
8,38	10,31	14,27	17,48	21,44	25,40	28,57	33,32	12
65,83	79,20	108,90	136,00	162,00	184,00	198,00	240,00	
STD Ölçüsü	11,12	15,09	19,05	23,83	27,79	31,75	35,71	14
	109,80	146,70	187,00	240,00	248,00	276,00	330,00	
Geçerli Refer to STD	XS Ölçüsü Geçerli Refer to STD	16,66	21,44	26,19	30,96	36,53	40,49	16
		212,40	276,00	332,00	343,00	396,00	490,00	
11,13		19,05	23,83	29,36	34,92	39,67	45,24	18
186,14	233,10	306,00	386,00	515,00	566,00	774,00	693,00	
12,70	15,09	20,62	26,18	32,54	38,10	44,45	50,01	20
259,68	304,20	411,30	522,00	664,00	752,00	860,00	957,00	
12,70		22,22	28,58	34,92	41,27	47,62	53,97	22
348,00		563,00	676,00	840,00	984,00	1110,00	12,55	
14,27	17,48	24,61	30,96	38,89	46,02	52,37	59,54	24
426,76	507,60	704,70	887,00	1060,00	1242,00	1360,00	1669,00	



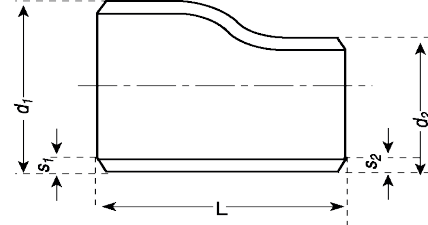
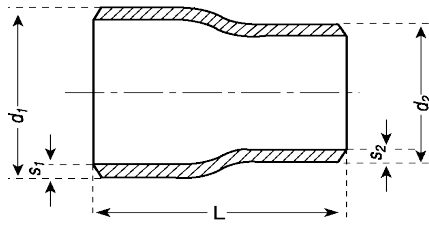
## T-fitting / Tee



ÇAP Dia. d1	KALINLIK Wall Thickness s1			ÇAP Dia. d2	KALINLIK Wall Thickness s2			a	b	
	SCH 20	SCH 40	SCH 80		SCH 20	SCH 40	SCH 80			
21,3	2	2,9		21,3	2	2,9		25	25	
				17,2	1,8			25	25	
				13,5	1,8			25	25	
26,9	2,3	2,9		26,9	2,3	2,9		29	29	
				21,3	2			29	29	
				17,2	1,8			29	29	
33,7	2,6	3,6		33,7	2,6	3,6		38	38	
				26,9	2,3			38	38	
				21,3	2			38	38	
42,4	2,6	3,6		42,4	2,6	3,6		48	48	
				33,7	2,6			48	48	
				26,9	2,3			48	48	
48,3	2,9	3,6		48,3	2,6	3,6		57	57	
				42,4	2,6			57	57	
				33,7	2,6			57	57	
				26,9	2,3			57	57	
60,3	2,9	4	5,6	60,3	2,9	4		64	64	
				48,3	2,6			3,6	60	
				42,4	2,6			3,6	64	
				33,7	2,6			3,6	57	
76,1	2,9	5,6	7,1	76,1	2,9	5,6		76	76	
				60,3	2,6			4	76	
				48,3	2,6			3,6	7,1	70
				42,4	2,6			3,6	5,6	67
88,9	3,2	5,6	8	88,9	3,2	5,6		86	86	
				76,1	2,9			5,6	8	83
				60,3	2,9			4	7,1	86
				48,3	2,6			3,6	5,6	76
114,3	3,6	6,3	8,8	114,3	3,6	6,3		105	105	
				88,9	3,2			5,6	8	98
				76,1	2,9			5,6	7,1	105
				60,3	2,9			4	5,6	95
				60,3	2,9			4	5,6	89
139,7	4,5	7,1	10	139,7	4	7,1		124	124	
				114,3	3,6			6,3	8,8	117
				88,9	3,2			5,6	8	110
				76,1	2,9			5,6	7,1	108
168,3	4,5	7,1	11	168,3	4,5	7,1		143	143	
				139,7	4			7,1	10	137,5
				114,3	3,6			6,3	8,8	130
				88,9	3,2			5,6	8	124
219,1	5,9	8	12,5	219,1	5,9	8		178	178	
				168,3	4,5			7,1	11	168
				139,7	4			7,1	10	162
				114,3	3,6			6,3	8,8	156
273	6,3	10	12,5	273	6,3	10		216	216	
				219,1	5,9			8	12,5	200
				168,3	4,5			7,1	11	194
				139,7	7			7,1	10	190
323,9	7,1	10	12,5	323,9	7,1	10		254	254	
				273	6,3			10	12,5	240
				219,1	5,9			8	12,5	230
				168,3	4,5			7,1	11	220



## Redüksiyon / Reducer

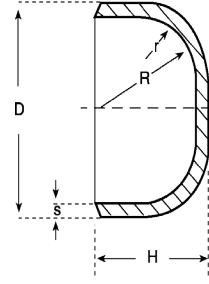


ÇAP Dia. d1	KALINLIK Wall Thickness s1			ÇAP Dia. d2	KALINLIK Wall Thickness s2			L
	SCH 20	SCH 40	SCH 80		SCH 20	SCH 40	SCH 80	
26,9	2,3	2,9		21,3	2			38
				17,2	1,8			38
33,7	2,6	3,6		26,9	2,3	2,9		50
				21,3	2	2,9		50
42,4	2,6	3,6		33,7	2,6	3,6		50
				26,9	2,3	2,9		50
				21,3	2	2,9		50
48,3	2,6	3,6		42,4	2,6	3,6		64
				33,7	2,6	3,6		64
				26,9	2,3	2,9		64
60,3	2,9	4	5,6	48,3	2,6	3,6		76
				42,4	2,6	3,6	5,6	76
				33,7	2,6	3,6		76
76,1	2,9	5,6	7,1	60,3	2,9	4		90
				48,3	2,6	3,6	5,6	90
				42,4	2,6	3,6		90
88,9	3,2	5,6	8	76,1	2,9	5,6		90
				60,3	2,9	4	7,1	90
				48,3	2,6	3,6	5,6	90
114,3	3,6	6,3	8,8	88,9	3,2	5,6	8	100
				76,1	2,9	5,6	7,1	100
				60,3	2,9	4	5,6	100
139,7	4	7,1	10	114,3	3,6	6,3	8,8	127
				88,9	3,2	5,6	8	127
				76,1	2,9	5,6	7,1	127
168,3	4,5	7,1	11	139,7	4	7,1	10	140
				114,3	3,6	6,3	8,8	140
				88,9	3,2	5,6	8	140
219,1	5,9	8	12,5	168,3	4,5	7,1	11	152
				139,7	4	7,1	10	152
				114,3	3,6	6,3	8,8	152
273	6,3	10	12,5	219,1	5,9	8	12,5	178
				168,3	4,5	7,1	11	178
				139,7	4	7,1	10	178
323,9	7,1	10	12,5	273	6,3	10	12,5	203
				219,1	5,9	8	12,5	203
				168,3	4,5	7,1	11	203



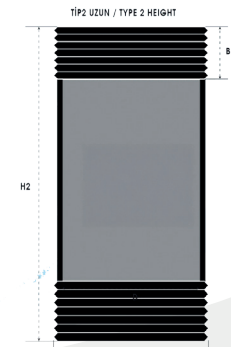
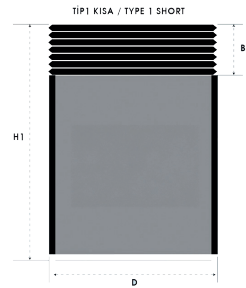
## Kep / Cap

Çap O.D. D mm	Et kalınlığı Wall Thickness S			Boy Length H ca. mm	Ortalama Ağırlık Approx. Weight		
	SCH 20 mm	SCH 40 mm	SCH 80 mm		SCH 20 mm	SCH 40 mm	SCH 80 mm
21,3	2	2,9	3,6	32	0,02	0,03	0,04
26,9	2,3	2,9	4	32	0,04	0,05	0,07
30	2,6	3,6	4,5	38	0,07	0,09	0,12
33,7	2,6	3,6	4,5	38	0,07	0,09	0,13
38	2,6	3,6	4,8	38	0,10	0,14	0,16
42,4	2,6	3,6	4,8	38	0,11	0,15	0,18
44,5	2,6	3,6	5,1	38	0,13	0,18	0,20
48,3	2,6	3,6	5,1	38	0,14	0,19	0,22
57	2,9	4	5,6	38	0,25	0,31	0,44
60,3	2,9	4	5,6	38	0,26	0,32	0,45
76,1	2,9	5,6	7,1	38	0,34	0,52	0,68
88,9	3,2	5,6	8	50	0,50	0,76	1,26
101,6	3,6	6,3	8,8	60	0,94	1,32	1,87
108	3,6	6,3	8,8	64	0,96	1,34	1,91
114,3	3,6	6,3	8,8	64	1,07	1,49	2,13
133	4	7,1	10	75	1,40	2,25	3,10
139,7	4	7,1	10	75	1,55	2,50	3,45
159	4,5	7,1	11	90	2,40	3,20	4,75
168,3	4,5	7,1	11	90	2,65	3,55	5,30
219,1	5,9	8	12,5	100	5,20	6,70	10,35
267	6,3	10	12,5	127	7,75	9,70	13,55
273	6,3	10	12,5	127	8,10	10,10	14,15
323,9	7,1	11	12,5	152	11,75	16,15	17,80



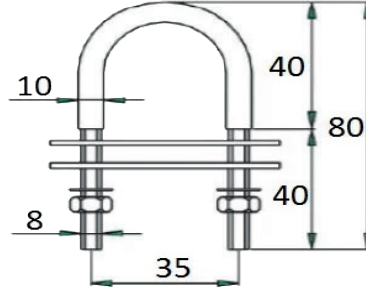
## Dişli Boru Parçası / Threaded Pipe Piece

DN	Ölçü / Size	D mm	H1 mm	B mm	H2 mm
6	1/8"	10	30	11	50
8	1/4"	14	30	11	50
10	3/8"	17,2	30	12	50
15	1/2"	21,4	35	15	65
20	3/4"	26,7	40	17	65
25	1"	33,4	40	20	65
32	1 1/4"	42,2	50	21	75
40	1 1/2"	48,3	50	21	75
50	2"	60,3	50	26	85
65	2 1/2"	76,1	60	28	85
80	3"	88,9	70	31	95
100	4"	114,3	80	35	100
125	5"	139	80	35	100
150	6"	168,3	80	35	100





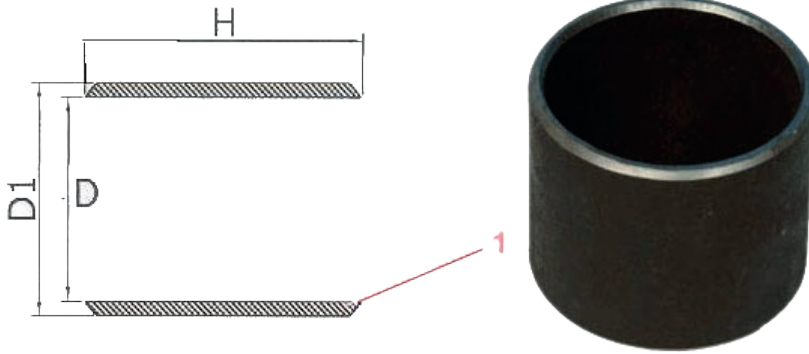
## U-Bolt Boru Kelepçesi / U-Bolt Pipe Clamp



Ölçü	Ölçü	Kalınlık	Diş Boyu / mm	Ölçü
DN15	1/2"	M8	25	30*30*3 MM
DN20	3/4"	M8	25	30*30*3 MM
DN25	1"	M10	40	40*40*4 MM
DN32	1, 1/4"	M10	40	40*40*4 MM
DN40	1, 1/2"	M10	40	40*40*4 MM
DN50	2"	M10	40	40*40*4 MM
DN65	2, 1/2"	M12	40	50*50*5 MM
DN80	3"	M12	45	50*50*5 MM
DN100	4"	M16	45	50*50*5 MM
DN125	5"	M16	50	50*50*5 MM
DN150	6"	M16	50	50*50*5 MM
DN200	8"	M18	50	60*60*6 MM
DN250	10"	M18	60	60*60*6 MM
DN300	12"	M18	60	60*60*6 MM
DN350	14"	M18	70	60*60*6 MM
DN400	16"	M18	70	60*60*6 MM
DN450	18"	M20	100	60*60*6 MM
DN500	20"	M20	100	60*60*6 MM
DN550	22"	M20	100	60*60*6 MM
DN600	24"	M22	100	60*60*6 MM



## Boru Bilezik / Pipe Bracelet



ÖLÇÜ	H(mm)	D1(mm)	D(mm)
1/2"	60	33	23
3/4"	60	38	28
1"	60	51	35
1-1/4"	80	57	44
1-1/2"	80	63	50
2"	100	76	62
2-1/2"	100	95	78
3"	100	108	91
4"	100	133	116
5"	100	159	141
6"	100	195	173
8"	120	245	223
10"	150	299	276
12"	150	355	329



## Özel Ölçü Kalın Bilezik / Special Size Thick Bracelet

SLEEVE INNER (BİLEZİK İÇ)			
Nominal Diameter DN	Pipe Outside	Sleeve Outside	Thickness
25	33.7	48.3	5.8 - 6.3
32	42.4	60.3	7.45 - 7.95
40	48.3	60.3	4.5 - 5.0
50	60.3	88.9	11.13 - 13.30
65	76.1	101.6	10.75 - 11.75
80	88.9	114.3	10.75 - 11.7
100	114.3	139.7	10.7 - 11.2
125	139.7	168.3	12.1 - 12.4

SLEEVE OUTER (BİLEZİK DIŞ)			
Nominal Diameter DN	Pipe Outside	Sleeve Outside	Thickness
25	48.3	60.3	4.5 - 5.0
32	60.3	88.9	11.13 - 13.30
40	60.3	88.9	11.13 - 13.30
50	88.9	114.3	10.75 - 11.7
65	101.6	139.7	17.5 - 17.50
80	114.3	139.7	10.7 - 11.2
100	139.7	168.3	12.1 - 12.4
125	168.3	193.7	10.2 - 11.0



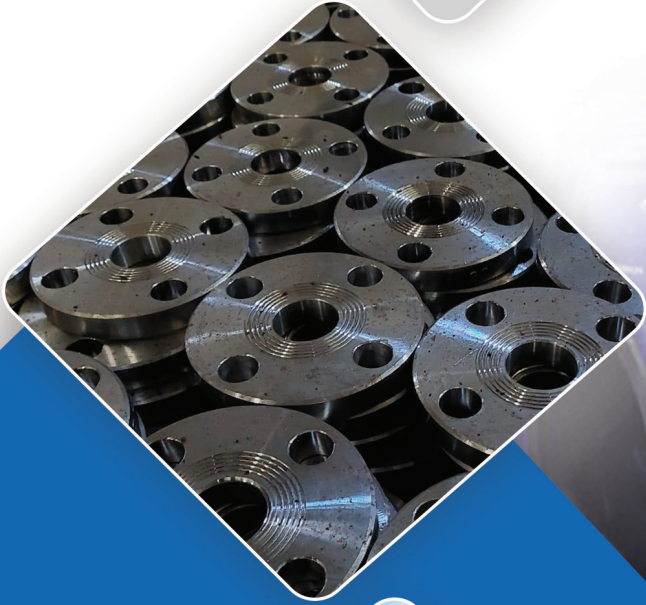
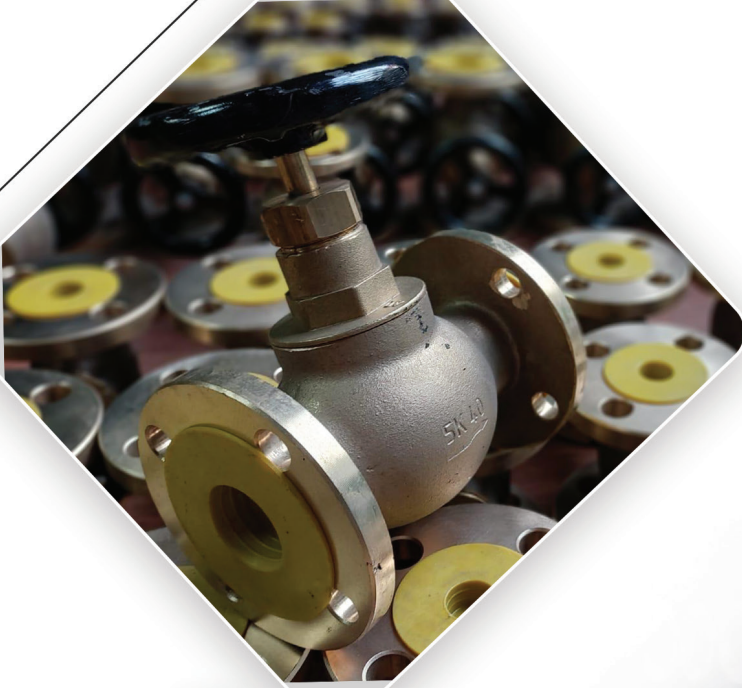
## Bağlantı Elemanları Ağırlık Tablosu / Fasteners Weight Table

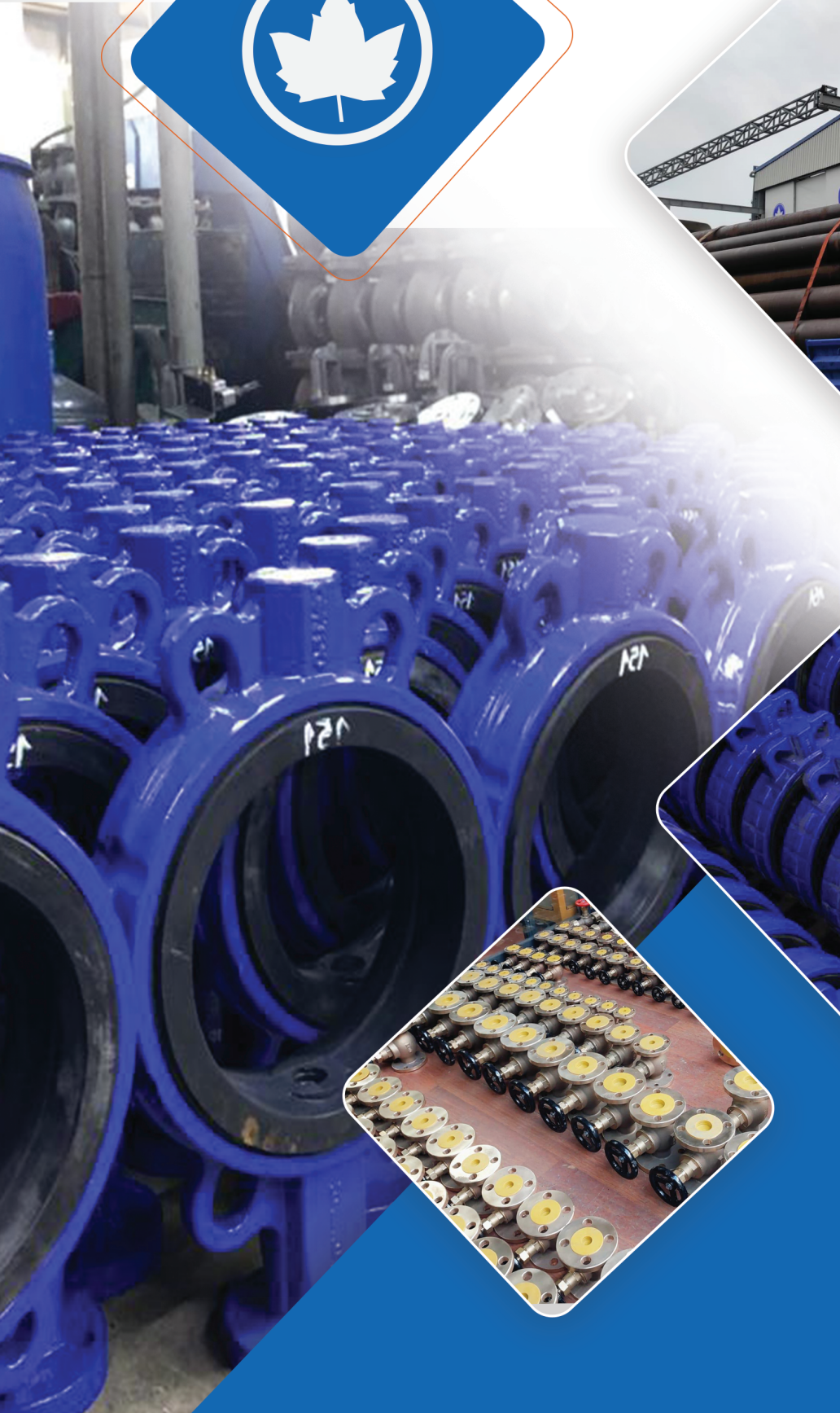
MALZEME	AĞIRLIK	MALZEME	AĞIRLIK	MALZEME	AĞIRLIK	MALZEME	AĞIRLIK
NW200 ND10 K.BOYUNLU FLANŞ	10	NW200 ND10 KÖR FLANŞ	18	NW125 ND10 DÜZ FLANŞ	6,3	NW125 ND16 DÜZ FLANŞ	4,95
NW32 ND10 K.BOYUNLU FLANŞ	1,69	NW25 ND10 KÖR FLANŞ	0	NW150 ND10 DÜZ FLANŞ	7,75	NW15 ND16 DÜZ FLANŞ	0,65
NW350 ND10 K.BOYUNLU FLANŞ	0	NW250 ND10 KÖR FLANŞ	27	NW20 ND10 DÜZ FLANŞ	0,95	NW150 ND16 DÜZ FLANŞ	6,4
NW40 ND10 K.BOYUNLU FLANŞ	1,85	NW300 ND10 KÖR FLANŞ	35	NW200 ND10 DÜZ FLANŞ	9	NW20 ND16 DÜZ FLANŞ	0,95
NW50 ND10 K.BOYUNLU FLANŞ	2,55	NW32 ND10 KÖR FLANŞ	0	NW25 ND10 DÜZ FLANŞ	1,14	NW200 ND16 DÜZ FLANŞ	8,91
NW65 ND10 K.BOYUNLU FLANŞ	3,05	NW 350 ND10 KÖR FLANŞ	40	NW250 ND10 DÜZ FLANŞ	10,85	NW25 ND16 DÜZ FLANŞ	1,14
NW80 ND10 K.BOYUNLU FLANŞ	3,7	NW40 ND10 KÖR FLANŞ	0	NW300 ND10 DÜZ FLANŞ	15	NW250 ND16 DÜZ FLANŞ	11
NW100 ND16 K.BOYUNLU FLANŞ	5,39	NW400 ND10 KÖR FLANŞ	61	NW32 ND10 DÜZ FLANŞ	1,69	NW300 ND16 DÜZ FLANŞ	16
NW125 ND16 K.BOYUNLU FLANŞ	6,3	NW450 ND10 KÖR FLANŞ	78	NW350 ND10 DÜZ FLANŞ	20	NW32 ND16 DÜZ FLANŞ	1,69
NW15 ND16 K.BOYUNLU FLANŞ	0,65	NW50 ND10 KÖR FLANŞ	0	NW40 ND10 DÜZ FLANŞ	1,86	NW350 ND16 DÜZ FLANŞ	2,29
NW150 ND16 K.BOYUNLU FLANŞ	7,75	NW500 ND10 KÖR FLANŞ	97	NW400 ND10 DÜZ FLANŞ	29	NW40 ND16 DÜZ FLANŞ	2,02
NW20 ND16 K.BOYUNLU FLANŞ	0,95	NW600 ND10 KÖR FLANŞ	115	NW450 ND10 DÜZ FLANŞ	31	NW400 ND16 DÜZ FLANŞ	28
NW200 ND16 K.BOYUNLU FLANŞ	9,85	NW65 ND10 KÖR FLANŞ	0	NW50 ND10 DÜZ FLANŞ	2,53	NW450 ND16 DÜZ FLANŞ	37
NW25 ND16 K.BOYUNLU FLANŞ	1,15	NW80 ND10 KÖR FLANŞ	0	NW600 ND10 DÜZ FLANŞ	36,1	NW50 ND16 DÜZ FLANŞ	2,45
NW250 ND16 K.BOYUNLU FLANŞ	0	NW800 ND10 KÖR FLANŞ	0	NW600 ND10 DÜZ FLANŞ	44,6	NW500 ND16 DÜZ FLANŞ	61
NW300 ND16 K.BOYUNLU FLANŞ	0	NW100 ND16 KÖR FLANŞ	6	NW65 ND10 DÜZ FLANŞ	3,06	NW600 ND16 DÜZ FLANŞ	75,4
NW32 ND16 K.BOYUNLU FLANŞ	1,7	NW125 ND16 KÖR FLANŞ	7,8	NW700 ND10 DÜZ FLANŞ	62,4	NW65 ND16 DÜZ FLANŞ	3,15
NW350 ND16 K.BOYUNLU FLANŞ	0	NW15 ND16 KÖR FLANŞ	1,1	NW80 ND10 DÜZ FLANŞ	3,7	NW700 ND16 DÜZ FLANŞ	0
NW40 ND16 K.BOYUNLU FLANŞ	1,86	NW150 ND16 KÖR FLANŞ	9,8	NW800 ND10 DÜZ FLANŞ	84,1	NW80 ND16 DÜZ FLANŞ	3,62
NW400 ND16 K.BOYUNLU FLANŞ	0	NW20 ND16 KÖR FLANŞ	1,3	NW100 ND16 DÜZ FLANŞ	4,1	NW800 ND16 DÜZ FLANŞ	0
NW50 ND16 K.BOYUNLU FLANŞ	2,88	NW200 ND16 KÖR FLANŞ	17	NW125 ND16 DÜZ FLANŞ	4,95	NW200 ND25 DÜZ FLANŞ	13,59
NW65 ND16 K.BOYUNLU FLANŞ	4,02	NW25 ND16 KÖR FLANŞ	1,6	NW15 ND16 DÜZ FLANŞ	0,65	NW250 ND25 DÜZ FLANŞ	35
NW80 ND16 K.BOYUNLU FLANŞ	4,55	NW250 ND16 KÖR FLANŞ	27	NW150 ND16 DÜZ FLANŞ	6,4	NW300 ND25 DÜZ FLANŞ	49,7
NW100 ND25 K.BOYUNLU FLANŞ	6,62	NW300 ND16 KÖR FLANŞ	38	NW20 ND16 DÜZ FLANŞ	0,95	NW350 ND25 DÜZ FLANŞ	68
NW100 ND40 K.BOYUNLU FLANŞ	6,62	NW32 ND16 KÖR FLANŞ	2	NW200 ND16 DÜZ FLANŞ	8,91	NW400 ND25 DÜZ FLANŞ	96,5
NW125 ND40 K.BOYUNLU FLANŞ	9,07	NW350 ND16 KÖR FLANŞ	49	NW25 ND16 DÜZ FLANŞ	1,14	NW100 ND25-40 DÜZ FLANŞ	6,5
NW15 ND16-40 K.BOYUNLU FLANŞ	0,75	NW40 ND16 KÖR FLANŞ	3	NW250 ND16 DÜZ FLANŞ	11	NW125 ND25-40 DÜZ FLANŞ	7,5
NW150 ND40 K.BOYUNLU FLANŞ	11,8	NW400 ND16 KÖR FLANŞ	61	NW300 ND16 DÜZ FLANŞ	16	NW15 ND16-40 DÜZ FLANŞ	0,65
NW20 ND16-40 K.BOYUNLU FLANŞ	1,06	NW 450 ND16 KÖR FLANŞ	78	NW32 ND16 DÜZ FLANŞ	1,69	NW150 ND25-40 DÜZ FLANŞ	9
NW200 ND40 K.BOYUNLU FLANŞ	21,5	NW50 ND16 KÖR FLANŞ	4	NW350 ND16 DÜZ FLANŞ	25	NW20 ND16-40 DÜZ FLANŞ	1
NW25 ND16-40 K.BOYUNLU FLANŞ	1,29	NW500 ND16 KÖR FLANŞ	97	NW40 ND16 DÜZ FLANŞ	2,02	NW25 ND16-40 DÜZ FLANŞ	1,15
NW250 ND40 K.BOYUNLU FLANŞ	35	NW600 ND16 KÖR FLANŞ	146	NW400 ND16 DÜZ FLANŞ	28	NW250 ND25-40 DÜZ FLANŞ	35
NW300 ND40 K.BOYUNLU FLANŞ	0	NW65 ND16 KÖR FLANŞ	4,5	NW450 ND16 DÜZ FLANŞ	37	NW300 ND25-40 DÜZ FLANŞ	49,7
NW32 ND16-40 K.BOYUNLU FLANŞ	1,88	NW80 ND16 KÖR FLANŞ	5	NW50 ND16 DÜZ FLANŞ	2,45	NW32 ND16-40 DÜZ FLANŞ	1,7
NW40 ND16-40 K.BOYUNLU FLANŞ	2,33	NW200 ND25 KÖR FLANŞ	23,2	NW500 ND16 DÜZ FLANŞ	61	NW350 ND25-40 DÜZ FLANŞ	68,1
NW400 ND40 K.BOYUNLU FLANŞ	0	NW250 ND25 KÖR FLANŞ	30	NW600 ND16 DÜZ FLANŞ	75,4	NW40 ND16-40 DÜZ FLANŞ	2,02
NW50 ND16-40 K.BOYUNLU FLANŞ	2,82	NW300 ND25 KÖR FLANŞ	50	NW65 ND16 DÜZ FLANŞ	3,15	NW400 ND25-40 DÜZ FLANŞ	96,5
NW65 ND40 K.BOYUNLU FLANŞ	3,75	NW350 ND25 KÖR FLANŞ	69	NW700 ND16 DÜZ FLANŞ	0	NW50 ND16-40 DÜZ FLANŞ	2,53
NW80 ND40 K.BOYUNLU FLANŞ	4,75	NW400 ND25 KÖR FLANŞ	97	NW80 ND16 DÜZ FLANŞ	3,62	NW500 ND25-40 DÜZ FLANŞ	117
		NW100 ND25-40 KÖR FLANŞ	6,5	NW800 ND16 DÜZ FLANŞ	0	NW600 ND25-40 DÜZ FLANŞ	0
		NW125 ND25-40 KÖR FLANŞ	7,5	NW200 ND25 DÜZ FLANŞ	13,59	NW65 ND25-40 DÜZ FLANŞ	3,2
		NW15 ND16-40 KÖR FLANŞ	0,7	NW250 ND25 DÜZ FLANŞ	35	NW80 ND25-40 DÜZ FLANŞ	4,05
		NW150 ND25-40 KÖR FLANŞ	9	NW300 ND25 DÜZ FLANŞ	49,7	NW450 ND25 DÜZ FLANŞ	96,5
		NW20 ND16-40 KÖR FLANŞ	1	NW350 ND25 DÜZ FLANŞ	68	NW500 ND25 DÜZ FLANŞ	117
		NW25 ND16-40 KÖR FLANŞ	1,4	NW400 ND25 DÜZ FLANŞ	96,5	NW600 ND25 DÜZ FLANŞ	0
		NW300 ND25-40 KÖR FLANŞ	0	NW100 ND25-40 DÜZ FLANŞ	6,5	NW100 ND40 GEVSEK DEST. FLANŞ	0
		NW32 ND16-40 KÖR FLANŞ	1,8	NW125 ND25-40 DÜZ FLANŞ	7,5	NW200 ND40 DÜZ FLANŞ	17
		NW40 ND16-40 KÖR FLANŞ	3,2	NW15 ND16-40 DÜZ FLANŞ	0,65	NW250 ND40 DÜZ FLANŞ	24,4
		NW50 ND16-40 KÖR FLANŞ	4	NW150 ND25-40 DÜZ FLANŞ	9	NW300 ND40 DÜZ FLANŞ	31,2
		NW65 ND25-40 KÖR FLANŞ	5	NW20 ND16-40 DÜZ FLANŞ	1	NW350 ND40 DÜZ FLANŞ	47,2
		NW80 ND25-40 KÖR FLANŞ	5	NW25 ND16-40 DÜZ FLANŞ	1,15	NW400 ND40 DÜZ FLANŞ	61,7
		NW450 KÖR FLANŞ	85	NW250 ND25-40 DÜZ FLANŞ	35	NW450 ND40 DÜZ FLANŞ	78,2
		NW500 ND25 KÖR FLANŞ	0	NW300 ND25-40 DÜZ FLANŞ	49,7	NW500 ND40 DÜZ FLANŞ	89,6
		NW600 ND25 KÖR FLANŞ	0	NW32 ND16-40 DÜZ FLANŞ	1,7	NW600 ND40 DÜZ FLANŞ	104
		NW200 ND40 KÖR FLANŞ	26	NW350 ND25-40 DÜZ FLANŞ	68,1	NW100 ND6 DÜZ FLANŞ	3,24
		NW250 ND40 KÖR FLANŞ	41	NW40 ND16-40 DÜZ FLANŞ	2,02	NW125 ND6 DÜZ FLANŞ	4,49
				NW400 ND25-40 DÜZ FLANŞ	96,5	NW15 ND6 DÜZ FLANŞ	0,39
				NW50 ND16-40 DÜZ FLANŞ	2,53	NW150 ND6 DÜZ FLANŞ	5,15
				NW500 ND25-40 DÜZ FLANŞ	117	NW20 ND6 DÜZ FLANŞ	0,59
				NW600 ND25-40 DÜZ FLANŞ	0	NW200 ND6 DÜZ FLANŞ	6,55
				NW65 ND25-40 DÜZ FLANŞ	3,2	NW25 ND6 DÜZ FLANŞ	0,75
				NW80 ND25-40 DÜZ FLANŞ	4,05	NW250 ND6 DÜZ FLANŞ	10,8
				NW450 ND25 DÜZ FLANŞ	96,5	NW300 ND6 DÜZ FLANŞ	14
				NW500 ND25 DÜZ FLANŞ	117	NW32 ND6 DÜZ FLANŞ	1,05
				NW600 ND25 DÜZ FLANŞ	0	NW350 ND6 DÜZ FLANŞ	18,5
				NW100 ND40 GEVSEK DEST.FLANŞ	0	NW40 ND6 DÜZ FLANŞ	1,18
				NW200 ND40 DÜZ FLANŞ	17	NW400 ND6 DÜZ FLANŞ	21,2
				NW250 ND40 DÜZ FLANŞ	24,4	NW450 ND6 DÜZ FLANŞ	27
				NW300 ND40 DÜZ FLANŞ	31,2	NW50 ND6 DÜZ FLANŞ	1,34
				NW350 ND40 DÜZ FLANŞ	47,2	NW500 ND6 DÜZ FLANŞ	28,6
				NW400 ND40 DÜZ FLANŞ	61,7	NW600 ND6 DÜZ FLANŞ	31,5
				NW450 ND40 DÜZ FLANŞ	78,2	NW65 ND6 DÜZ FLANŞ	1,67
				NW500 ND40 DÜZ FLANŞ	89,6	NW80 ND6 DÜZ FLANŞ	2,71
				NW600 ND40 DÜZ FLANŞ	104		
				NW100 ND6 DÜZ FLANŞ	3,24		
				NW125 ND6 DÜZ FLANŞ	4,49		
				NW15 ND6 DÜZ FLANŞ	0,39		
				NW150 ND6 DÜZ FLANŞ	5,15		
				NW20 ND6 DÜZ FLANŞ	0,59		
				NW200 ND6 DÜZ FLANŞ	6,55		
				NW25 ND6 DÜZ FLANŞ	0,75		
				NW250 ND6 DÜZ FLANŞ	10,8		
				NW300 ND6 DÜZ FLANŞ	14		
				NW32 ND6 DÜZ FLANŞ	1,05		
				NW350 ND6 DÜZ FLANŞ	18,5		
				NW40 ND6 DÜZ FLANŞ	1,18		
				NW400 ND6 DÜZ FLANŞ	21,2		
				NW450 ND6 DÜZ FLANŞ	27		
				NW50 ND6 DÜZ FLANŞ	1,34		
				NW500 ND6 DÜZ FLANŞ	28,6		
				NW600 ND6 DÜZ FLANŞ	31,5		
				NW65 ND6 DÜZ FLANŞ	1,67		
				NW80 ND6 DÜZ FLANŞ	2,71		
				NW100 ND16 DÜZ FLANŞ	4,1		



## Bağlantı Elemanları Ağırlık Tablosu / Fasteners Weight Table

MALZEME	AĞIRLIK	MALZEME	AĞIRLIK	MALZEME	AĞIRLIK	MALZEME	AĞIRLIK
114.3 SCH-40 DİRSEK 90	3,75	101.6 DİKİŞSİZ DİRSEK 90	1,83	101.6 DİKİŞLİ DİRSEK 90	1,83	1" SCH-40 ORJINAL TE	0,25
114.3 SCH-40 DİRSEK 45	1,88	114.3 DİKİŞSİZ DİRSEK 90	2,37	108.0 DİKİŞLİ DİRSEK 90	2,08	1/2" SCH-40 ORJINAL TE	0,1
133.0 SCH-40 DİRSEK 90	0	114.3 DİKİŞSİZ DİRSEK 45	1,18	108.0 DİKİŞLİ DİRSEK 45	0	10" SCH-40 ORJINAL TE	33
139.7 SCH-40 DİRSEK 90	6,77	139.7 DİKİŞSİZ DİRSEK 90	4,04	114.3 DİKİŞLİ DİRSEK 90	2,38	11/2" SCH-40 ORJINAL TE	0,6
139.7 SCH-40 DİRSEK 45	3,4	139.7 DİKİŞSİZ DİRSEK 45	2,02	114.3 DİKİŞLİ DİRSEK 180	4,74	11/4" SCH-40 ORJINAL TE	0,45
168.3 SCH-40 DİRSEK 90	11	168.0 DİKİŞSİZ DİRSEK 90	5,8	114.3 DİKİŞLİ DİRSEK 45	1,18	12" SCH-40 ORJINAL TE	40
168.3 SCH-40 DİRSEK 45	5,45	168.3 DİKİŞSİZ DİRSEK 90	6,5	133.0 DİKİŞLİ DİRSEK 90	3,64	14 SCH-40 ORJINAL TE	0
21.3 SCH-40 DİRSEK 90	0,13	168.3 DİKİŞSİZ DİRSEK 45	3,25	133.0 DİKİŞLİ DİRSEK 45	1,82	2" SCH-40 ORJINAL TE	1,2
219.1 SCH-40 DİRSEK 90	18,2	21.3 DİKİŞSİZ DİRSEK 90	0,04	139.7 DİKİŞLİ DİRSEK 90	4,2	21/2" SCH-40 ORJINAL TE	2,05
219.1 SCH-40 DİRSEK 45	9,1	21.3 DİKİŞSİZ DİRSEK 180	0	139.7 DİKİŞLİ DİRSEK 180	8,08	3" SCH-40 ORJINAL TE	2,5
26.9 SCH-40 DİRSEK 90	0,14	21.3 DİKİŞSİZ DİRSEK 45	0	139.7 DİKİŞLİ DİRSEK 45	2,02	3/4" SCH-40 ORJINAL TE	0,15
273.0 SCH-40 DİRSEK 90	27,2	219.1 DİKİŞSİZ DİRSEK 90	14,9	159.0 DİKİŞLİ DİRSEK 90	5,8	4" SCH-40 ORJINAL TE	4,35
273.0 SCH-40 DİRSEK 45	13,6	219.1 DİKİŞSİZ DİRSEK 45	7,45	159.0 DİKİŞLİ DİRSEK 45	0	5" SCH-40 ORJINAL TE	7,55
323.0 SCH-40 DİRSEK 90	38,6	26.9 DİKİŞSİZ DİRSEK 90	0,07	168.3 DİKİŞLİ DİRSEK 90	5,65	6" SCH-40 ORJINAL TE	11,8
323.0 SCH-40 DİRSEK 45	19,35	26.9 DİKİŞSİZ DİRSEK 180	0	168.3 DİKİŞLİ DİRSEK 180	13	8" SCH-40 ORJINAL TE	19,65
33.7 SCH-40 DİRSEK 90	0,15	26.3 DİKİŞSİZ DİRSEK 45	0,03	168.3 DİKİŞLİ DİRSEK 45	3,2	10-6-10 ING. SCH-40 ORJ. TE	33
33.7 SCH-40 DİRSEK 180	0	273.0 DİKİŞSİZ DİRSEK 90	24,9	21.3 DİKİŞLİ DİRSEK 90	0,04	10-8-10 ING. SCH-40 ORJINAL TE	33
33.7 SCH-40 DİRSEK 45	0,7	273.0 DİKİŞSİZ DİRSEK 45	12,45	21.3 DİKİŞLİ DİRSEK 180	0,08	11/2-11/2 ING. SCH-40 ORJ. TE	0,25
355.6 SCH-40 DİRSEK 90	61,3	323.0 DİKİŞSİZ DİRSEK 90	40	21.3 DİKİŞLİ DİRSEK 45	0,02	11/2-11/4-11/2 SCH-40 ORJ. TE	0,6
355.6 SCH-40 DİRSEK 45	30,65	323.0 DİKİŞSİZ DİRSEK 180	0	219.1 DİKİŞLİ DİRSEK 90	11,8	11/2-11/2 ING. SCH-40 ORJ. TE	0,6
406.4 SCH-40 DİRSEK 90	94	323.0 DİKİŞSİZ DİRSEK 45	20	219.1 DİKİŞLİ DİRSEK 180	29,8	11/2-3/4-11/2 ING. SCH-40 ORJ. TE	0,6
406.4 SCH-40 DİRSEK 45	47	33.7 DİKİŞSİZ DİRSEK 90	0,12	219.1 DİKİŞLİ DİRSEK 45	7,45	11/4-1-11/4 SCH-40 ORJ. TE	0,45
42.4 SCH-40 DİRSEK 90	0,26	33.7 DİKİŞSİZ DİRSEK 180	0,24	219.1x5.3 DİKİŞLİ DİRSEK 90	14,9	11/4-3/4-11/4 SCH-40 ORJ. TE	0,45
42.4 SCH-40 DİRSEK 45	0,13	33.7 DİKİŞSİZ DİRSEK 45	0,06	219.1x5.3 DİKİŞLİ DİRSEK 45	7,45	1-3-4 ING. SCH-40 ORJINAL TE	0,25
426 SCH-40 DİRSEK 90	0	355.6 DİKİŞSİZ DİRSEK 90	57,2	26.9 DİKİŞLİ DİRSEK 90	0,07	21/2-11/2-21/2 ING. SCH-40 O. TE	2,05
457 SCH-40 DİRSEK 90	100	355.6 DİKİŞSİZ DİRSEK 45	28,6	26.9 DİKİŞLİ DİRSEK 180	0,14	21/2-11/4-21/2 ING. SCH-40 ORJ. TE	2,05
457 SCH-40 DİRSEK 45	50	406.4 DİKİŞSİZ DİRSEK 90	82,2	26.9 DİKİŞLİ DİRSEK 45	0,04	21/2-11/2-21/2 ING. SCH-40 ORJ. TE	2,05
48.3 SCH-40 DİRSEK 90	0,38	406.4 DİKİŞSİZ DİRSEK 45	48	273.0 DİKİŞLİ DİRSEK 90	23	21/2-2-21/2 SCH-40 ORJ. TE	2,05
48.3 SCH-40 DİRSEK 45	0,19	42.4 DİKİŞSİZ DİRSEK 90	0,19	273.0 DİKİŞLİ DİRSEK 45	12,45	2-11/2-2 SCH-40 ORJ. TE	1,2
57.0 SCH-40 DİRSEK 90	0	42.4 DİKİŞSİZ DİRSEK 45	0,1	323.0 DİKİŞLİ DİRSEK 90	40	2-11/4-2 ING. SCH-40 ORJ. TE	1,2
60.3 SCH-40 DİRSEK 90	0,68	426 DİKİŞSİZ DİRSEK 90	0	323.0 DİKİŞLİ DİRSEK 180	80	2-1-2 SCH-40 ORJINAL TE	1,2
60.3 SCH-40 DİRSEK 45	0,34	48.3 DİKİŞSİZ DİRSEK 90	0,27	323.0 DİKİŞLİ DİRSEK 45	20	3/4-1/2-3/4 ING. SCH-40 ORJ. TE	0,15
76.1 SCH-40 DİRSEK 90	1,25	48.3 DİKİŞSİZ DİRSEK 180	0	33.7 DİKİŞLİ DİRSEK 90	0,12	3-11/2-3 ING. SCH-40 ORJ. TE	2,5
76.1 SCH-40 DİRSEK 45	0,62	48.3 DİKİŞSİZ DİRSEK 45	0,31	33.7 DİKİŞLİ DİRSEK 180	0,24	3-21/2-3 ING. SCH-40 ORJINAL TE	2,5
88.9 SCH-40 DİRSEK 90	2,08	51.0 DİKİŞSİZ DİRSEK 90	0,31	33.7 DİKİŞLİ DİRSEK 45	0,6	3-2-3 ING. SCH-40 ORJINAL TE	2,5
88.9 SCH-40 DİRSEK 45	1,04	57.0 DİKİŞSİZ DİRSEK 90	0,44	355.6 DİKİŞLİ DİRSEK 90	54	4-21/2-4 SCH-40 ORJINAL TE	4,35
114.3 SCH-80 DİRSEK 90	4,75	60.3 DİKİŞSİZ DİRSEK 90	0,49	355.6 DİKİŞLİ DİRSEK 45	28,6	4-2-4 SCH-40 ORJ. TE	4,35
114.3 SCH-80 DİRSEK 45	2,38	60.3 DİKİŞSİZ DİRSEK 180	0,98	406.4 DİKİŞLİ DİRSEK 90	70	4-3-4 ING. SCH-40 ORJINAL TE	4,35
139.7 SCH-80 DİRSEK 90	9,8	60.3 DİKİŞSİZ DİRSEK 45	0,25	406.4 DİKİŞLİ DİRSEK 45	35	5-21/2-5 SCH-40 ORJ. TE	7,55
139.7 SCH-80 DİRSEK 45	4,9	76.1 DİKİŞSİZ DİRSEK 90	0,79	42.4 DİKİŞLİ DİRSEK 90	0,22	5-3-5 SCH-40 ORJINAL TE	7,55
168.3 SCH-80 DİRSEK 90	16	76.1 DİKİŞSİZ DİRSEK 180	1,6	42.4 DİKİŞLİ DİRSEK 180	0,38	5-4-5 SCH-40 ORJINAL TE	7,55
168.3 SCH-80 DİRSEK 45	8	76.1 DİKİŞSİZ DİRSEK 45	0,39	42.4 DİKİŞLİ DİRSEK 45	0,11	6-3-6 ING. SCH-40 ORJINAL TE	11,8
219.1 SCH-80 DİRSEK 90	20	88.9 DİKİŞSİZ DİRSEK 90	1,22	426 DİKİŞLİ DİRSEK 90	0	6-4-6 ING. SCH-40 ORJINAL TE	11,8
219.1 SCH-80 DİRSEK 45	10	88.9 DİKİŞSİZ DİRSEK 180	2,44	426.4 DİKİŞLİ DİRSEK 45	0	6-5-6 ING. SCH-40 TE	11,8
273.0 SCH-80 DİRSEK 90	47	88.9 DİKİŞSİZ DİRSEK 45	0,61	457.2 DİKİŞLİ DİRSEK 90	119	8-3-8 ING. SCH-40 ORJ. TE	19,9
273.0 SCH-80 DİRSEK 45	23,5	88.9 DİKİŞSİZ GLVNZ DİRSEK 90	0	457.2 DİKİŞLİ DİRSEK 45	59,5	8-4-8 ING. SCH-40 ORJINAL TE	19
323.0 SCH-80 DİRSEK 90	70	1" KEP	0,09	48.3 DİKİŞLİ DİRSEK 90	0,28	8-5-8 ING. SCH-40 ORJINAL TE	19,9
323.0 SCH-80 DİRSEK 45	35	10 KEP	10,1	48.3 DİKİŞLİ DİRSEK 180	0,54	8-6-8 ING. SCH-40 ORJINAL TE	19
33.7 SCH-80 DİRSEK 90	0,4	11/2 KEP	0,19	48.3 DİKİŞLİ DİRSEK 45	0,14		
355.6 SCH-80 DİRSEK 90	88	11/4 KEP	0,15	508 DİKİŞLİ DİRSEK 90	162		
355.6 SCH-80 DİRSEK 45	44	12" KEP	16,15	51.0 DİKİŞLİ DİRSEK 90	0,31		
406.4 SCH-80 DİRSEK 90	80	14" KEP	19	51.0 DİKİŞLİ DİRSEK 45	0,17		
406.4 SCH-80 DİRSEK 45	40	16" KEP	11	57.0 DİKİŞLİ DİRSEK 90	0,44		
42.4 SCH-80 DİRSEK 90	0,6	18" KEP	0	57.0 DİKİŞLİ DİRSEK 45	0		
48.3 SCH-80 DİRSEK 90	0,4	2" KEP	0,32	60.3 DİKİŞLİ DİRSEK 90	0,49		
48.3 SCH-80 DİRSEK 45	0,4	21/2 KEP	0,52	60.3 DİKİŞLİ DİRSEK 180	0,98		
60.3 SCH-80 DİRSEK 90	0,75	3" KEP	0,75	60.3 DİKİŞLİ DİRSEK 45	0,25		
60.3 SCH-80 DİRSEK 45	0,38	4" KEP	1,5	609,5 ÇİFT DİKİŞLİ DİRSEK 90	0		
76.1 SCH-80 DİRSEK 90	1,6	480 KEP	0	76.1 DİKİŞLİ DİRSEK 90	0,9		
76.1 SCH-80 DİRSEK 45	0,8	5 KEP	2,5	76.1 DİKİŞLİ DİRSEK 180	1,88		
88.9 SCH-80 DİRSEK 90	3,8	500 KEP	0	76.1 DİKİŞLİ DİRSEK 45	0,4		
88.9 SCH-80 DİRSEK 45	1,9	6" KEP	3,55	88.9 DİKİŞLİ DİRSEK 90	1,2		
		8 KEP	6,7	88.9 DİKİŞLİ DİRSEK 180	2		
				88.9 DİKİŞLİ DİRSEK 45	0,51		
				1" SCH-40 ORJINAL TE	0,25		
				1/2" SCH-40 ORJINAL TE	0,1		
				10" SCH-40 ORJINAL TE	33		
				11/2" SCH-40 ORJINAL TE	0,6		
				11/4" SCH-40 ORJINAL TE	0,45		
				12" SCH-40 ORJINAL TE	40		
				14 SCH-40 ORJINAL TE	0		
				2" SCH-40 ORJINAL TE	1,2		
				21/2" SCH-40 ORJINAL TE	2,05		
				3" SCH-40 ORJINAL TE	2,5		
				3/4" SCH-40 ORJINAL TE	0,15		
				4" SCH-40 ORJINAL TE	4,35		
				5" SCH-40 ORJINAL TE	7,55		
				6" SCH-40 ORJINAL TE	11,8		
				8" SCH-40 ORJINAL TE	19,65		
						10-4 KONS RED.	10,7
						10-5 KONS RED.	9,15
						10-6 KONS RED.	9,15
						10-8 KONS RED.	9,15
						11/2-1 KONS RED.	0,15
						11/2-1/2 KONS RED.	0,25
						11/2-3/4 KONS RED.	0,25
						11/2-3/4 KONS RED.	0,25
						11/4-1 KONS RED.	0,18
						11/4-1/2 KONS RED.	0,18
						11/4-3/4 KONS RED.	0,18
						12-10 KONS RED.	12,15
						12-6 KONS RED.	12,15
						12-8 KONS RED.	12,15
						13-4 KONS RED.	12,15
						13-4 KONS RED.	0,15
						14-10 KONS RED.	26,8
						14-12 KONSANTRİK REDÜKSİYON	26,8
						14-6 KONSANTRİK REDÜKSİYON	25,4
						14-8 KONSANTRİK REDÜKSİYON	26,8
						16-12 KONS. REDÜKSİYON	0
						16-14 KONS. REDÜKSİYON	0
						2-1 KONS RED.	0,5
						21/2-1 KONS RED.	0,9
						21/2-11/2 KONS RED.	0,9
						21/2-2 KONS RED.	0,9
						2-11/2 KONS RED.	0,5
						2-11/4 KONS RED.	0,5
						2-3/4 KONS RED.	0,5
						3-11/2 KONS RED.	0,05
						3-1 KONS. RED.	0,95
						3-11/2 KONS RED.	0,95
						3-11/4 KONS RED.	0,95
						3-2 KONS RED.	0,95
						3-21/2 KONS RED.	0,95
						4-11/2 KONS RED.	1,6
						4-2 KONS RED.	1,6
						4-21/2 KONS RED.	1,6
						4-3 KONS RED.	1,6
						5-2 KONS RED.	2,8
						5-21/2 KONS RED.	2,8
						5-3 KONS RED.	2,8
						5-4 KONS RED.	0
						6-2 KONS. RED.	3,95
						6-21/2 KONS RED.	4,25
						6-3 KONS RED.	4,25
						6-4 KONS RED.	4,25
						6-5 KONS RED.	5,65
						6-6 KONS RED.	5,65
						6-8 KONS RED.	5,65
						6-10 EKS RED.	18,3
						6-12 EKS RED.	18,3
						1-1/2 EKS RED.	0,3
						11/2-1 EKS RED.	0,5
						11/2-1/2 EKS RED.	0,5
						11/2-11/4 EKS RED.	0,5
						11/2-3/4 EKS RED.	0,5
						11/2-3/4 EKS RED.	0,5
						11/4-1 EKS RED.	0,3
						11/4-1/2 EKS RED.	0,3
						11/4-3/4 EKS RED.	0,3
						12-10 EKS RED.	24,5
						12-8 EKS RED.	24,5
						1-3/4 EKS RED.	0,15
						14-10 EKSANTRİK REDÜKSİYON	26,8
						14-12 EKS. REDÜKSİYON	26,8
						2-1 EKS RED.	1
						21/2-11/2 EKS RED.	1,8
						21/2-11/4 EKS RED.	1,8
						21/2-2 EKS RED.	1,8
						2-11/2 EKS RED.	1
						2-11/4 EKS RED.	1
						3-11/2 EKS RED.	0,1
						3-11/2 EKS RED.	1,9
						3-11/4 EKS RED.	1,9
						3-2 EKS RED.	1,9
						3-21/2 EKS RED.	1,9
						4-11/2 EKS RED.	3,2







# SÜRDÜRÜLEBİLİR GELECEK İÇİN GÜÇLÜ BAĞLANTILAR

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