

فورجینگ

شیرآلات صنعتی و اتصالات فولادی



FORGING
VALVES & FITTINGS

www.FORGINGco.ir

SOCKET FLANGE / SPIGOT FLANGE
SOCKETED & SPIGOT JOINTS
STRAINER / FLAP VALVE



Index

فهرست

1	Introduction	۱	معرفی محصولات
4	Flanged sockets (adaptor)	۴	فلنج ساکت (آداپتور)
5	Flanged spigots	۵	فلنج اسپیکات
6	Flanged and socketed elbows	۶	زانو فلنجی و ساکت دار
7	Flanged & socketed tees	۷	سه راهی فلنجی و ساکت دار
8	Flanged reducers	۸	تبدیل فلنجی
9	In line strainer	۹	صافی خط لوله
10	Basket type strainer	۱۰	صافی مدل سبدی
11	Flap valve	۱۱	دریچه تخلیه

Socketed Fittings



اتصالات ساکت دار

این نوع اتصالات که شامل انواع سه راهی، زانو، تبدیل، فلنج اسپیکات و فلنج ساکت می‌باشد با بهره‌گیری از روش‌های دقیق ساخت و از بهترین و اشرفی آب بندی از لحاظ کیفی تولید می‌گردد و قابلیت آب‌بندی کامل تا انحراف ۴ درجه را نیز دارا می‌باشد.

Socketed Fittings

This type of fitting consists of tee, elbow, reducer, spigot flange and socketed flange is produced in all sizes suitable to a pressure of 10, 16 and 25 bars.

Good strength steel, machining of all space matched by seal and the choice of good quality, reliable material and long life service stop leak even in 4° degrees.

Basket Type Strainer



Basket Type Strainer

To protect suction lines against fouling, and to minimize intake resistance, the strainers are used. Galvanized or stainless steel basket in according to the customer requirements will be delivered. The connection flanges are of PN10 type.

Steel Flanged Inline Strainer



صافی فلنج دار

از این محصول در ابتدای لوله مکش برای جلوگیری از ورود شن و ماسه و دیگر مواد زائد که باعث آسیب رسانی به پمپ، شیرآلات و دیگر تجهیزات شبکه می شوند استفاده می گردد. بدنه صافی از ورق کالوانیزه، و فلنج با پوشش رنگ پودری اپوکسی به روش الکترو استاتیک مقاوم در آب و یا فولاد ضد زنگ، با استاندارد PN10 در اندازه های مختلف و بر اساس نوع سفارش ساخته می شوند.



دریچه های تخلیه

این دریچه ها به منظور جلوگیری از برگشت سیال و اجسام موجود در حوضچه تخلیه آب و فاضلاب به درون لوله های سرریز بکار می روند که مجهز به سیت آب بندی مناسب بوده و با حداقل فشار ۰/۶ بار باز می گردند.

دریچه های تخلیه در دو نوع و به روش های زیر مورد استفاده قرار می گیرند:

۱. انواع فلنجی قابل اتصال به لوله های فلنج دار
۲. بارینگ فولادی قابل نصب در دیواره حوضچه ها

Non pressure ducts (Flap Valve)

Protection against flooding of low level areas due to high water condition in main drainage channels, free drainage at low outer water levels. Positive working pressure (Min) 0.6 bar and they can be produced in two types:

1. Flanged type possible to connect with flange
2. Paddle type possible to instal in concreted pond walls

FLAP VALVE

Flanged Socket (Adaptor)

Loose Connection
DN 100 - 2400
PN 10 - 16 - 25

FORGING flanged socket (adaptor) piece for installation and removal of valve or other equipment. The possible length compensation when installed in the pipe is $\pm X$. The fitting pieces compensate eventual extension and can be distorted up to 4° as mean of connecting any flange fitting to a plain ended pipe.

Design and Materials

Flange connection size in accordance with DIN 2501-2632-2633-2634/ISO 7005-1

Flange pieces St. 37-2
Sealing Wedge-shaped, made of EPDM or NBR
Bolt and nuts Steel, electrogalvanized
Coating Electro Static Epoxy Powder inside and outside



DIN 2501-2631-2632-2633/DIN EN 1092-1

Unit: mm

DN	Outside diameter of Flange			Flange bolt hole circle dia.			Adjustability $\pm X$	Unit length	E	d ¹⁾	s ²⁾
	PN 10	PN 16	PN 25	PN 10	PN 16	PN 25					
100	220	220	235	180	180	190	40	140	70	118	114
125	250	250	270	210	210	220	40	140	70	144	141
150	285	285	300	240	240	250	40	140	70	170	168
200	340	340	360	295	295	310	40	140	70	222	219
250	395	405	425	350	355	370	50	180	85	274	274
300	445	460	485	400	410	430	50	180	85	326	324
350	505	520	555	460	470	490	50	180	85	378	355
400	565	580	620	515	525	550	50	180	85	429	406
450	615	640	670	565	585	600	50	180	85	480	457
500	670	715	730	620	650	660	50	180	85	532	508
550	730	775	785	675	710	715	50	180	85	585	558
600	780	840	845	725	770	770	50	180	90	635	609
650	835	905	905	780	805	820	50	180	90	688	660
700	895	910	960	840	840	875	50	180	90	738	711
800	1015	1025	1085	950	950	990	50	180	90	842	813
900	1115	1125	1185	1050	1050	1090	50	180	90	945	914
1000	1230	1255	1320	1160	1170	1210	50	180	90	1048	1016
1100	1340	1355		1270	1270		50	180	90	1152	1118
1200	1455	1485	1530	1380	1390	1420	50	200	95	1255	1219
1300	1575	1585	1640	1490	1490	1530	50	200	95	1359	1321
1400	1675	1685	1755	1590	1590	1640	50	200	95	1462	1422
1500	1785	1800	1865	1700	1705	1750	50	200	95	1564	1524
1600	1915	1930	1975	1820	1820	1860	50	200	95	1668	1626
1800	2115	2130	2195	2020	2020	2070	50	250	110		1829
2000	2325	2345	2425	2230	2230	2300	50	250	110		2032
2200	2550	2555		2440	2440		50	265	110		2235
2400	2760	2765		2650	2650		50	265	120		2438

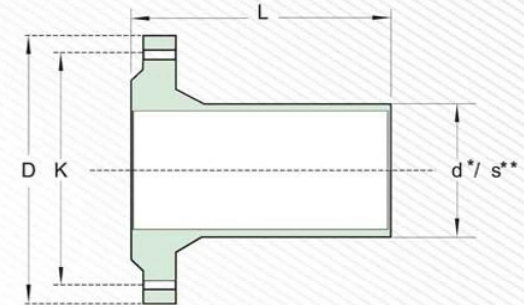
FORGING reserve the right to introduce modification in the interests of technical progress.

1. Outside diameter of cast iron pipe
2. Outside diameter of steel pipe
3. Please indicate the O.D. For other type of pipes

We reserve the right to introduce modification in the interests of technical progress.

Flanged Spigot

DN 100 - 2400
PN 10 - 16 - 25



Application: for possible connecting and or removal of flanged fitting and valve.

Material: Carbon Steel

Coating: Electro Static Epoxy Powder inside and outside

DIN 2501-2631-2632-2633/DIN EN 1092-1

Unit: mm

DN	D			K			L	d [*]	s ^{**}
	PN 10	PN 16	PN 25	PN 10	PN 16	PN 25			
100	220	220	235	180	180	190	360	118	114
125	250	250	270	210	210	220	370	144	140
150	285	285	300	240	240	250	380	170	168
200	340	340	360	295	295	310	400	222	219
250	400	400	425	350	355	370	420	274	274
300	455	455	485	400	410	430	440	326	324
350	505	520	555	460	470	490	460	378	355
400	565	580	620	515	525	550	480	429	406
500	670	715	730	620	650	660	520	532	508
600	780	840	845	725	770	770	560	635	609
700	895	910	960	840	840	875	600	738	711
800	1015	1025	1085	950	950	990	600	842	813
900	1115	1125	1185	1050	1050	1090	600	945	914
1000	1230	1255	1320	1160	1170	1210	600	1048	1016
1200	1455	1485	1530	1380	1390	1420	600	1255	1219
1400	1675	1685	1755	1590	1590	1640	710	1462	1422
1600	1915	1930	1975	1820	1820	1860	780	1668	1626
1800	2115	2130	2195	2020	2020	2070	850		1829
2000	2325	2345	2425	2230	2230	2300	920		2032
2200	2550	2555		2440	2440		990		2235
2400	2760	2765		2650	2650		1060		2438

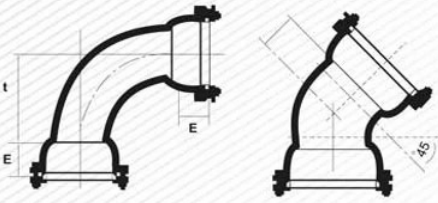
FORGING reserve the right to introduce modification in the interests of technical progress.

* Outside diameter of cast iron pipe

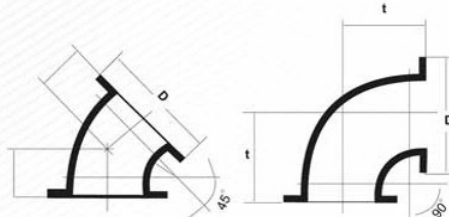
** Outside diameter of steel pipe are indicated in s column

Flanged Socketed Elbows

PN 10 - 16 - 25



Double Socketed Elbow
45°, 90°



Double Flanged Elbow
45°, 90°

90° Unit: mm

DN	t*	A	E
250	270	150	85
300	320	150	85
350	450	150	85
400	500	150	85
450	550	150	85
500	600	150	85
550	650	150	85
600	700	150	90
650	750	150	90
700	800	150	90
750	850	150	90
800	900	150	90
900	1000	150	90
1000	1100	150	90
1100	1200	150	90
1200	1400	170	95
1300	1500	170	95
1400	1600	170	95
1500	1700	170	95
1600	1800	170	95
1800	2100	200	110
2000	2300	200	110
2200	2500	220	110
2400	2700	220	110

90° Unit: mm

DN	t*	D		
		PN 10	PN 16	PN 25
150	225	285	285	300
200	300	340	340	360
250	375	400	400	425
300	450	445	455	485
350	525	505	520	555
400	600	565	580	620
450	675	615	640	670
500	750	670	715	730
550	825	730	775	785
600	900	780	840	845
650	975	835	905	905
700	1050	895	910	960
750	1125	940	950	980
800	1200	1015	1025	1085
900	1350	1115	1125	1185
1000	1500	1230	1255	1320
1100	1650	1340	1355	
1200	1800	1455	1485	1530
1300	1950	1575	1585	1640
1400	2100	1675	1685	1755
1500	2250	1785	1800	1865
1600	2400	1915	1930	1975
1800	2700	2115	2130	2195
2000	3000	2325	2345	2424
2200	3300	2550	2555	
2400	3600	2760	2765	
2600	3900	2960	2965	

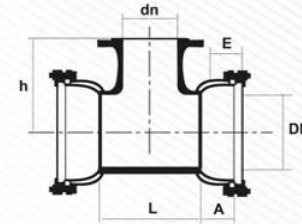
FORGING reserve the right to introduce modification in the interests of technical progress.

* Manufacturing of special length (t) are available on request

Delivery of socketed fitting are complete with rubbers sealing, glands, bolts and nuts

11 1/4° and 22 1/2° elbows are also available

Tees



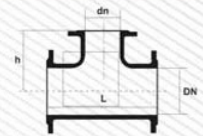
PN 10 - 16 - 25

Double Socketed Tees with Flanged Branch Unit: mm

Nominal Size DN	Body			Branch	
	A	E	L	Nominal Size dn	h
250	150	85	200	100	270
			315	200	290
			375	250	300
300	150	85	205	100	300
			320	200	320
			435	300	340
350	150	85	205	100	330
			325	200	350
			495	350	380
400	150	85	210	100	380
			325	200	380
			560	400	420
500	150	85	215	100	420
			230	200	440
			565	400	480
600	150	90	680	500	500
			340	200	500
			570	400	540
700	150	90	800	600	580
			345	200	525
			575	400	555
800	150	90	925	700	600
			350	200	585
			580	400	615
900	150	90	1045	800	645
			1045	800	675
			355	200	645
1000	150	90	590	400	675
			1170	600	705
			1170	900	750
1200	170	95	360	200	705
			595	400	735
			1290	600	765
1400	170	95	1290	1000	825
			840	600	885
			1070	800	915
1600	170	95	1300	1000	945
			1030	600	980
			1260	800	1010
1800	200	110	1495	1000	1040
			1040	600	1090
			1275	800	1120
2000	200	110	1505	1000	1150
			1740	1200	1180
			1055	600	1200
2200	220	110	1285	800	1230
			1520	1000	1260
			1750	1200	1290
2400	220	110	1065	600	1310
			1530	1000	1370
			1995	1400	1430
2600	220	110	1080	600	1420
			1775	1200	1510
			2470	1800	1600
2800	220	110	1090	600	1530
			1785	1200	1620
			2480	1800	1710
3000	220	110	1100	600	1640
			2030	1400	1750
			2725	2000	1850

FORGING reserve the right to introduce modification in the interests of technical progress.

1. Special lengths (L) are available on request



PN 10 - 16 - 25

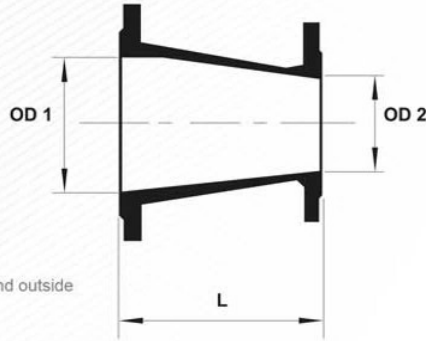
All Flanged Tees Unit: mm

Nominal Size DN	Body		Branch	
	L	Nominal Size dn	h	
250	450	100	225	
	450	200	300	
	700	250	350	
300	450	100	250	
	450	200	300	
	800	300	425	
350	500	100	275	
	500	200	300	
	850	350	450	
400	550	100	300	
	550	200	325	
	900	400	400	
500	600	100	350	
	600	200	400	
	700	400	400	
600	1000	500	400	
	700	200	450	
	750	400	500	
700	1100	600	550	
	700	200	525	
	870	400	555	
800	1200	700	600	
	750	200	585	
	910	400	615	
900	1350	800	645	
	1350	800	675	
	750	200	645	
1000	1500	900	705	
	1500	900	750	
	770	200	705	
1200	1650	1000	825	
	1240	600	885	
	1470	800	915	
1400	1700	1000	945	
	1550	600	980	
	1760	800	1010	
1600	2015	1000	1040	
	1600	600	1090	
	1835	800	1120	
1800	2065	1000	1150	
	2300	1200	1180	
	1655	600	1200	
2000	1885	800	1230	
	2120	1000	1260	
	2350	1200	1290	
2200	1705	600	1310	
	2170	1000	1370	
	2635	1400	1430	
2400	1560	600	1420	
	2220	1200	1510	
	2880	1800	1600	
2600	1620	600	1530	
	2280	1200	1620	
	2940	1800	1710	
2800	1680	600	1640	
	2560	1400	1760	
	3220	2000	1850	

Double Flanged Reducer

DN 150 - 3000
PN 10 - 16 - 25

Material: Carbon Steel
Welding procedure: Approved WPS
Coating: Electro Static Epoxy Powder inside and outside



Unit: mm

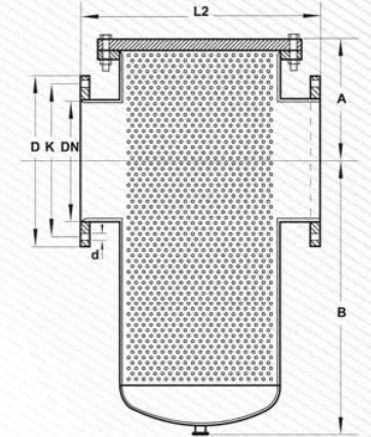
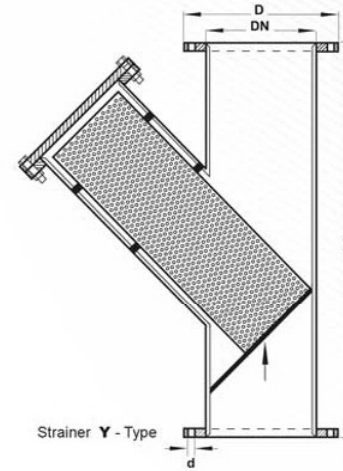
Larger Diameter OD 1	Smaller Diameter OD 2	L ⁽¹⁾
150	80	180
	100	
	125	
200	100	200
	125	
	150	
250	150	220
	200	
	250	
300	200	250
	250	
	300	
350	250	300
	300	
	350	
400	300	350
	350	
	400	
500	400	450
	500	
	600	
600	500	450
	600	
	700	
700	600	500
	700	
	800	
750	600	500
	700	
	800	
800	700	600
	800	
	900	
900	800	600
	900	
	1000	

Unit: mm

Larger Diameter OD 1	Smaller Diameter OD 2	L ⁽¹⁾
1000	700	650
	800	
	900	
1200	900	750
	1000	
	900	
1400	1000	750
	1200	
	1000	
1600	1200	800
	1400	
	1200	
1800	1400	800
	1600	
	1400	
2000	1600	1030
	1800	
	1600	
2200	1800	1090
	2000	
	1600	
2400	1800	1150
	2000	
	1600	
2600	1800	1210
	2000	
	2200	
	2400	
	2200	
3000	2600	1400
	2600	

FORGING reserve the right to introduce modification in the interests of technical progress.
1. Special lengths (L) are available on request

Steel Flanged Inline Strainer



Description	Material
1.Body	steel st37
2.Cover	steel st37
3.Screen	s steel 304
4.Bolt and nut	galvanized steel Gr. 8.8
5.Ball coke	bronze

Flange connection according to DIN 2501-2362-2633
Coating Electro Static Epoxy Powder inside and outside

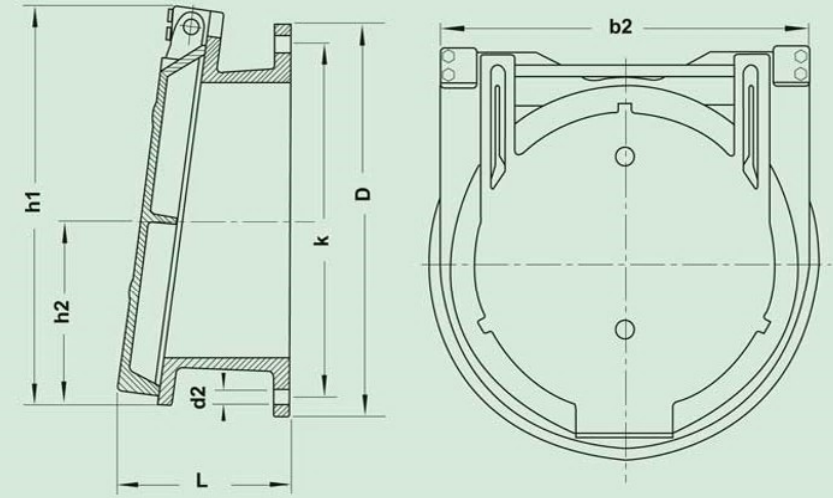
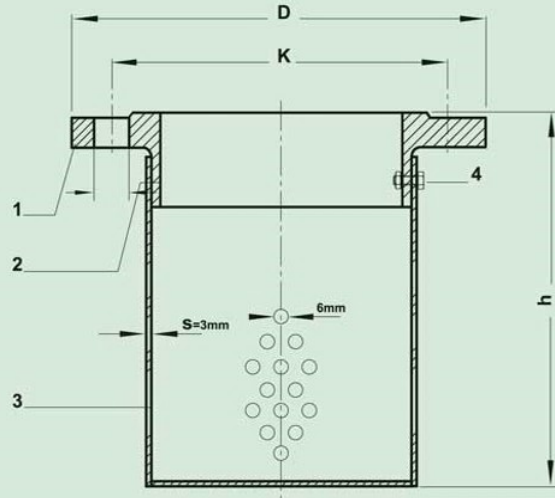
Unit: mm

PN 10							
DN	D	K	d	A	B	L1	L2
200	340	295	23	270	400	650	500
250	400	350	23	305	420	700	550
300	445	400	23	410	470	700	600
350	505	460	23	450	560	750	650
400	565	515	27	500	600	870	700
500	670	620	27	540	700	1040	800
600	780	725	30	675	900	1360	950
700	895	840	30	730	1000	1560	1100
800	1015	950	34	860	1100	1740	1250
900	1115	1050	34	1020	1400	1930	1400
1000	1230	1160	36	1130	1500	2600	1600

Unit: mm

PN 16							
DN	D	K	d	A	B	L1	L2
200	340	295	23	270	400	650	500
250	400	355	27	305	420	700	550
300	455	410	27	410	470	700	600
350	520	470	27	450	560	750	650
400	580	525	30	500	600	870	700
500	715	650	34	540	700	1040	800
600	840	770	36	675	900	1360	950
700	910	840	36	730	1000	1560	1100
800	1025	950	40	860	1100	1740	1250
900	1125	1050	40	1020	1400	1930	1400
1000	1255	1170	43	1130	1500	2600	1600

FORGING reserve the right to introduce modification in the interests of technical progress.



Steel Flanged Suction Strainer

Flange Connection: DIN 2501-2632 / DIN EN 1092-1

DN 200-1400

PN 10

Description	Material
1.Flange	steel st37
2.Pipe connector	steel st37
3.Basket	s steel 304
4.Bolt and nut	s steel A2

Unit: mm

DN	200	250	300	350	400	500	600	700	800	900	1000	1200	1400
D	340	400	445	505	565	670	780	895	1015	1115	1230	1455	1670
K	295	350	400	460	515	620	795	840	950	1050	1160	1380	1590
d	23	23	23	23	27	27	30	30	34	34	36	40	43
h	400	450	450	500	500	700	800	900	1000	1000	1200	1500	1500

FORGING reserve the right to introduce modification in the interests of technical progress.

Unit: mm

DN	D	K	d2	Holes No.	L	h1	h2	b2
200	340	295	22	8	200	290	140	290
250	395	350	22	12	210	330	155	340
300	445	400	22	12	230	400	175	370
350	505	460	22	16	250	420	195	410
400	565	515	26	16	260	510	240	480
500	670	620	26	20	290	600	290	590
600	780	725	30	20	320	750	355	700
700	895	840	30	24	330	850	410	720
800	1015	950	33	24	370	950	460	930
900	1115	1050	33	28	380	1100	520	1020
1000	1230	1160	36	28	380	1210	560	1110
1200	1455	1380	39	32	390	1440	675	1320
1400	1575	1590	42	36	440	1670	790	1520
1600	1915	1820	48	40	560	1890	900	1730
1800	2115	2020	48	44	650	2190	1030	1940
2000	2325	2230	48	48	700	2290	1110	1940

FORGING reserve the right to introduce modification in the interests of technical progress.

NOTE:



FORGING

دفتر مرکزی و کارخانه: تهران / ابتدای جاده قدیم قم
بعد از کارخانه ایران ترانسفو / انتهای خیابان آسیاب قرمز
تلفن: ۴-۵۵۲۰۱۸۷۱ (۰۲۱) / ۴-۵۵۲۲۸۲۲۱ (۰۲۱)
فاکس: ۵۵۲۲۸۲۲۵ (۰۲۱)
forgingforging@gmail.com

HEAD OFFICE & FACTORY: End of Asiab
Ghermez St. / Old Qom Road / Tehran / IRAN
TEL: (+98)21 55228221-4 / 55201871-4
FAX: (+98)21 55228225
@ forging_co
www.FORGING co.ir