

PTFE lined butterfly valves



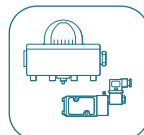
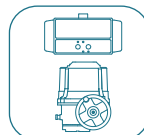
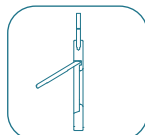
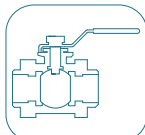
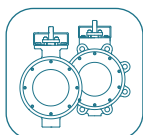
English

Fig.225 : Wafer

Fig.226 : Lug



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General information

Applications

Water and sewage
Chemical and petrochemical industry
Pharmaceutical/sanitary industry
Food and beverage industry
Paper industry
Colouring, Varnish, Dyeing industries



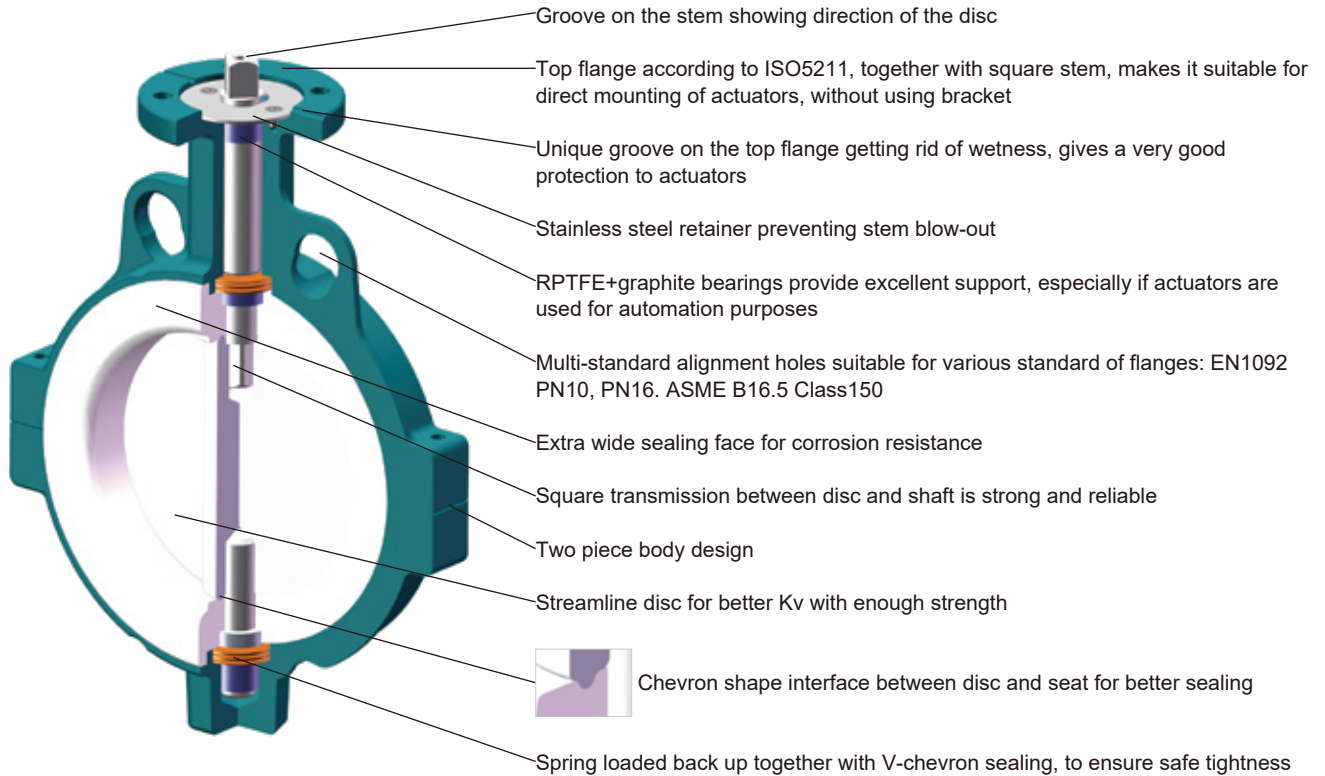
Specifications

Connection:	Fig.225 wafer, Fig.226 lug
Nominal diameter:	DN50-DN800
Standard differential pressure:	DN50-DN500 - 10bar DN600-DN800 - 6bar
Flange accommodation:	EN1092 PN10, PN16. ASME B16.5 Class150
Face to face:	EN558 Series 20, API609 Table 1
Top flange:	ISO5211
Body:	Ductile iron, carbon steel, stainless steel
Disc:	PTFE, PFA, SS304, SS316, SS316L, EN 1.4410, EN 1.4529
Seat:	PTFE + EPDM backup: T≤110 °C PTFE + FPM backup: T≤130 °C PTFE + Silicone bar: T≤160 °C

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Design features, seat options



Seat options

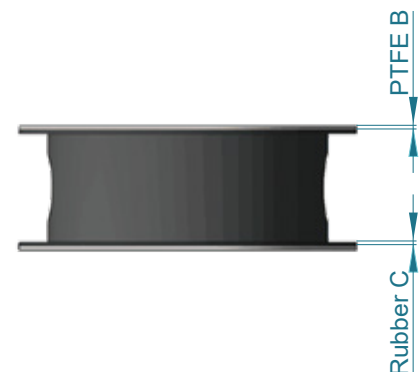
Integrated seat - PTFE with EPDM/FPM backup

PTFE with EPDM backup seat: Temperature $\leq 110^{\circ}\text{C}$.

PTFE with FPM backup seat: Temperature $\leq 130^{\circ}\text{C}$.

PTFE seat is resistant to chemically toxic and high corrosion, but we specially recommend you to use PTFE with FPM backup or PTFE with silicone bar seat if the media is oil or similar.

Below you can find PTFE and rubber thickness of the integrated seat.

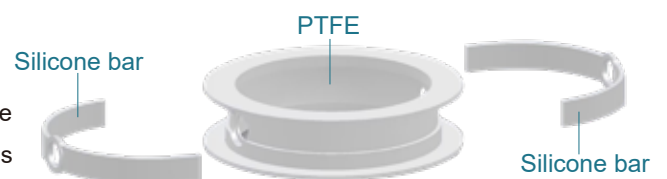


Size	PTFE thickness B [mm]	Rubber thickness C [mm]	Size	PTFE thickness B [mm]	Rubber thickness C [mm]
DN50	2	2	DN250	2.5	3
DN65	2	2	DN300	2.5	3
DN80	2	2	DN350	2.8	3
DN100	2.3	2.2	DN400	3	3
DN125	2.4	2.6	DN450	3	3
DN150	2.4	2.6	DN500	3.5	3.5
DN200	2.4	2.6	DN600	3.5	3.5

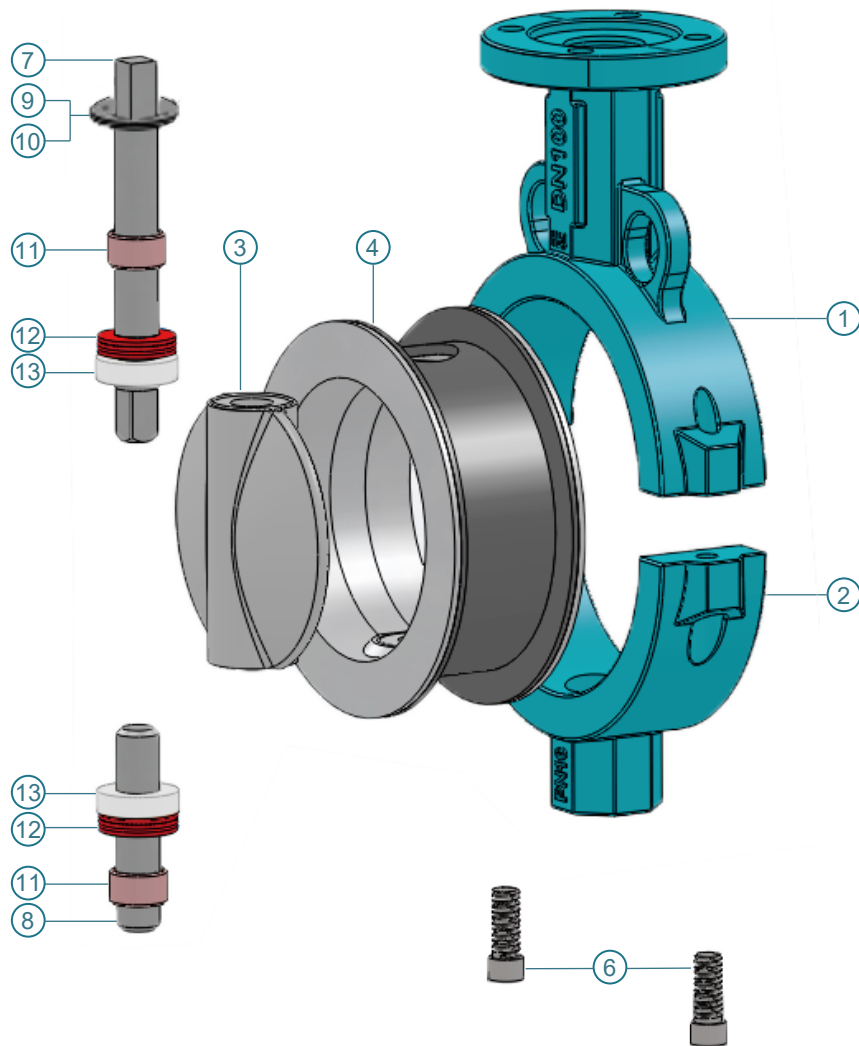
Split seat - PTFE with Silicone bar

PTFE with Silicone bar seat: Temperature $\leq 160^{\circ}\text{C}$.

PTFE and Silicone can be separated from each other. The average PTFE thickness is 4~5mm which can maximizly reduce the media's penetration.

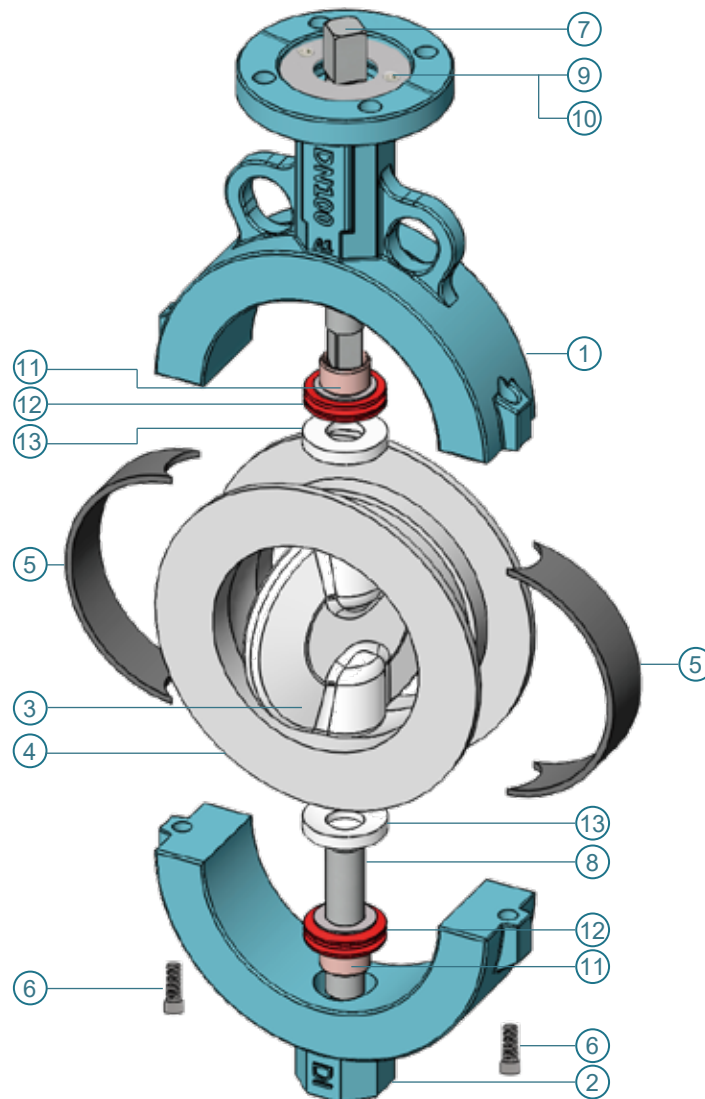


Material part list - Valve with PTFE + rubber backup seat



No.	Part name	Material	Specification	No.	Part name	Material
1/2	Body	Ductile iron	EN1563 JS1030	6	Body bolt	SS304
		Carbon steel	ASTM A216 WCB	7/8	Stem	SS420
		Stainless steel	ASTM A351 CF8M	9	Preventing plate	SS304
3	Disc	Stainless steel	ASTM A351 CF8	10	Screw	SS304
			ASTM A351 CF8M	11	Bearing	RPTFE with graphite
		Alloy steel	1.4469 (SAF2507)	12	Spring	Spring steel
			1.4462 (SAF2205)	13	Packing ring	PTFE
		PTFE	PTFE coated CF8M			
PFA	PFA coated CF8M					
4	Seat	PTFE with EPDM backup	-20°C~+110°C			
		PTFE with FPM backup	-20°C~+130°C			

Material part list - Valve with PTFE + silicone bar seat



No.	Part name	Material	Specification	No.	Part name	Material
1/2	Body	Ductile iron	EN1563 JS1030	6	Body bolt	SS304
		Carbon steel	ASTM A216 WCB	7/8	Stem	SS420
		Stainless steel	ASTM A351 CF8M	9	Preventing plate	SS304
3	Disc	Stainless steel	ASTM A351 CF8	10	Screw	SS304
			ASTM A351 CF8M	11	Bearing	RPTFE with graphite
		Alloy steel	1.4469 (SAF2507)	12	Spring	Spring steel
			1.4462 (SAF2205)	13	Packing ring	PTFE
		PTFE	PTFE coated CF8M			
		PFA	PFA coated CF8M			
4	Seat	PTFE				
5	Rubber back	Silicone	-20°C~+160°C			

Dimensions

Fig.225 wafer type

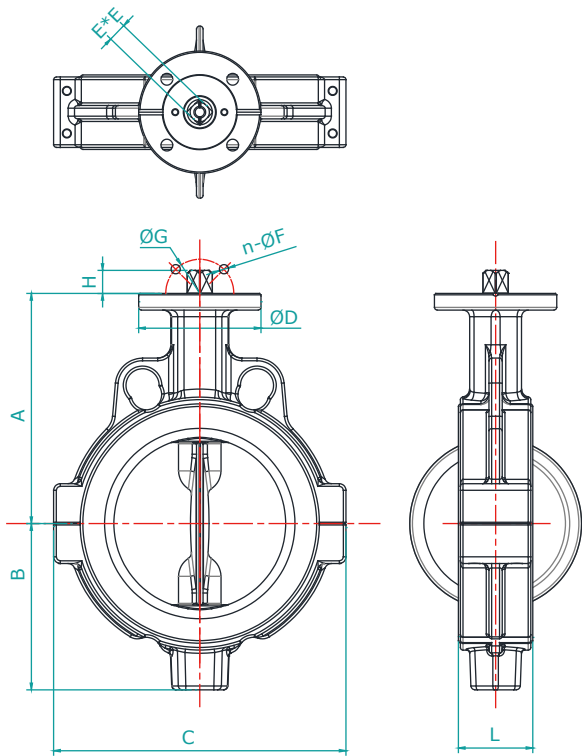
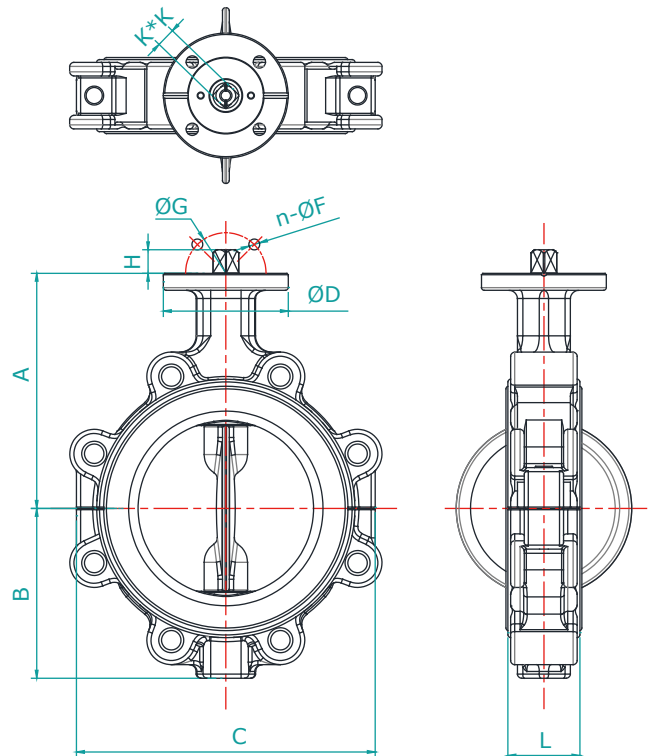


Fig.226 lug type

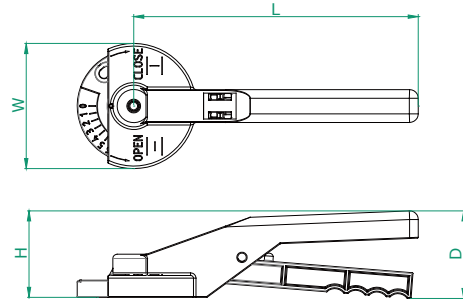


SIZE		A	B	C	D	E	n	F	G	H	L
DN	INCH										
50	2"	136	74	117	65	11	4	7	50	13.5	43
65	2 1/2"	138	82	126	65	11	4	7	50	13.5	46
80	3"	138	90	142	65	11	4	7	50	13.5	46
100	4"	158	116	178	90	14	4	10	70	17.5	52
125	5"	174	133	202	90	14	4	10	70	17.5	56
150	6"	190	146	234	90	17	4	10	70	18.5	56
200	8"	229	180	286	125	22	4	14	102	24.5	60
250	10"	269	217	350	125	22	4	14	102	24.5	68
300	12"	300	254	402	125	27	4	14	102	26.5	78
350	14"	335	275	470	140	27	4	14	125	30.5	78
400	16"	410	305	595	175	27	4	21	140	30.5	102
450	18"	440	338	645	175	36	4	21	140	39	114
500	20"	495	375	700	175	46	4	21	140	49	127
600	24"	562	444	825	210	46	4	22	165	49	152
700	28"	624	520	895	300	φ63.1	8	18	254	90	163
800	32"	672	591	1015	300	φ63.1	8	18	254	90	188

Valve with hand lever

Fig.500 Aluminium hand lever

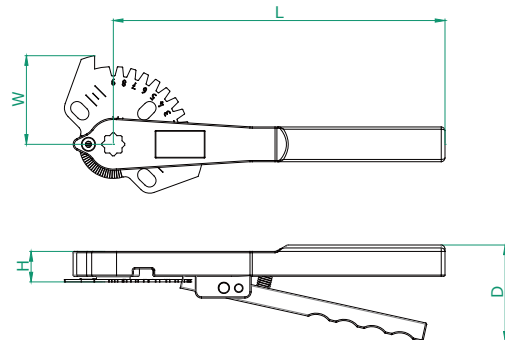
- Excellent design and comfortable operating 90° in 10 positions. The lever is fixed by screw on top of stem to avoid the lever getting loose by operation or vibrations. For safety, the hand lever can be locked in position by bolt/nut or a locker.
- Material is AL-Si alloy, which has better performance than Al-Mg and Al-Zn alloy.
- Electrophoresed surface treatment, which has stronger adhesion than traditional painting and much better resistance to corrosion.



Valve Size	D	H	L	W	Stem drive	[kg]
DN50-DN80	56	65	195	74	F05 - 11×11	0.28
DN100-DN125	78	82	269	101	F07 - 14×14	0.63
DN150	78	82	269	101	F07 - 17×17	0.63

Fig.503 GGG40 and CF8M hand lever

- GGG40 and CF8M hand lever have the same shape and share the same angle place and locker.
- GGG40 hand lever has strong electrophoresed surface treatment. CF8M hand lever is with precise casting which has very smooth surface.
- Locker and plate in stainless steel SS316 and spring in SS321.
- Good design and comfortable operating 90° in 10 positions, but also adjustable screw to choose any position for regulation.
- The lever is fixed by screw on top of stem and not by side of stem, to avoid the lever getting loose by operation or vibrations. For safety, the hand lever can be locked in position by bolt/nut or a padlock.



Valve Size	D	H	L	W	Stem drive	[kg]
DN50-DN80	53	23	195	60	F05 - 11×11	0.8
DN100-DN125	77	30	267	73	F07 - 14×14	1.2
DN150	77	30	267	73	F07 - 17×17	1.2

Valve with gear box

Fig.520 Aluminium gear box

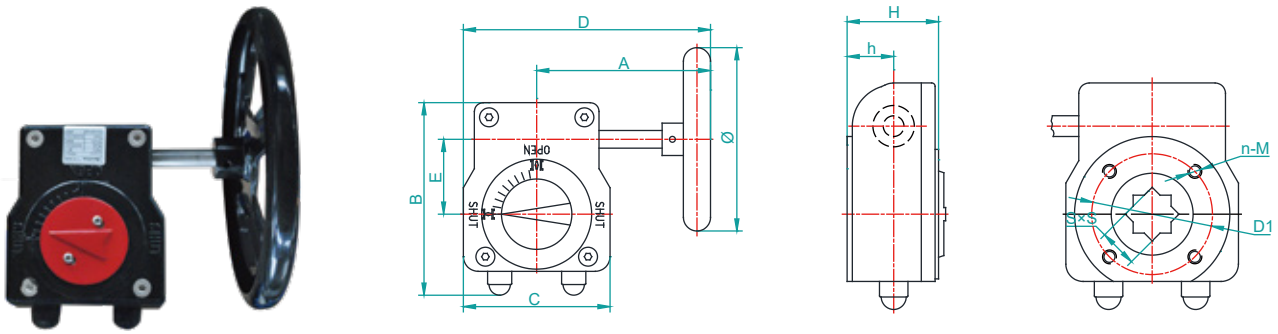
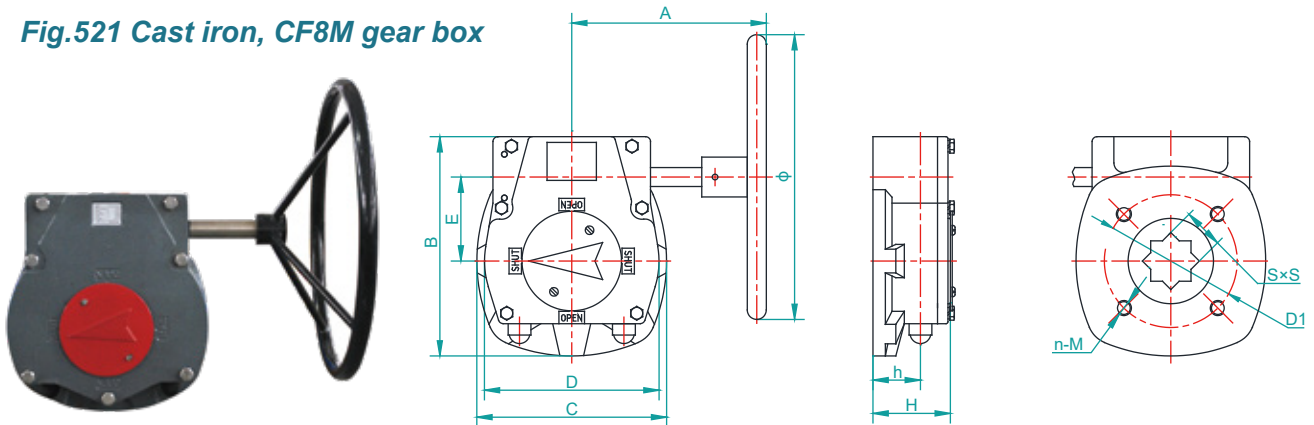


Fig.521 Cast iron, CF8M gear box



Valve		Gear Box																
Size	Torque [Nm]	Model	Output [Nm]	Ratio	Input [Nm]	A	B	C	D	E	Φ	h	H	D1	n-M	S	[kg]	Material
DN50	18-25	520-10	150	40:1	18.5	99	98	80	139	43	100	26	48	50+70	4-M6/4-M8	11 x 11	1.45	Housing: Aluminium/ CF8M Input shaft: SS410/ SS304/SS316 Gear: Ductile iron Alu-Bronze
DN65	20-27																	
DN80	40-48																	
DN100	50-65	520-15	250	37:1	34	115	115	100	165	50	120	27	54	70	4-M8	14 x 14	1.9	
DN125	80-110															17 x 17		
DN150	110-165															22 x 22		
DN200	250-350	520-50	750	45:1	83	220	155	146	293	60	300	38	71	102	4-M10	27 x 27	5.2	
DN250	350-400																	
DN300	460-580																	
DN350	800-1100	521-M14	1800	60:1	110	277	231	184	200	89	300	50	81	125	4-M12	27 x 27	14	
DN400	1100-1330													140	4-M16			
DN450	1700-2300	521-M14A	2500	70:1	130	287	252	210	216	101	400	50	81	165	4-M20	36 x 36	21	
DN500	2300-2900	521-M15	3400	68:1	165	357	296	248	252	123	400	50	91	165	4-M20	46 x 46	32	
DN600	2500-3250	521-M16	4400	88:1	169	382	354	313	315	153	500	50	93	165	8-M16	46 x 46	44	
DN700	3500-4500	521-M36	8000	210:1	180	448	380	286	310	138	500	73	130	254	8-M16	φ63.1	66	
DN800	5500-6500																	

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