

## 2/2-way Butterfly Valve with cast iron body and SS disk



- Heavy duty top bushing absorbs side thrust load
- Through shaft design
- Engineered to ISO Standard
- Lockable handle for security
- Lugged or wafer types

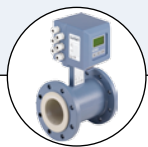
Type 2671 can be combined with...



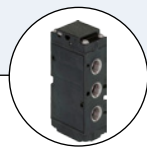
**Actuator & positioner**  
For full control



**Type 3004**  
Electric actuator for hazardous areas



**Type 8055**  
Magflow meter



**Type 0475 Slave**  
Pilot for dirty, dusty areas & applications

For processing and manufacturing applications. Permanent and continuous leak tightness delivered by spherical contact between disk and liner. The wetted parts are the stainless steel disk and liner seal.

Features:

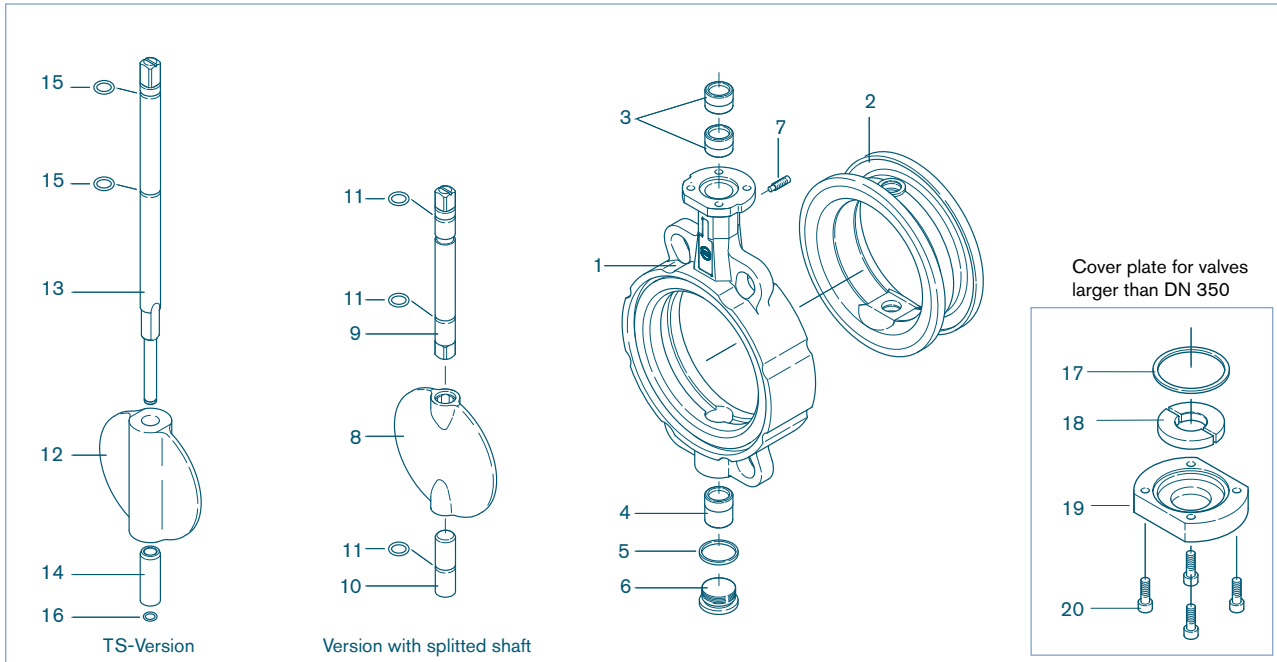
- Tight sealing with flow in either direction
- The valve body and disc are accurately machined which results in low operating torque, long service life and reliability
- Triple shaft bearings prevent shaft deflection and guarantee optimum guidance even after many years of operational service
- Four flange mounting holes ensure correct valve location
- Can be installed in any desired position.
- Maintenance-free; simple to disassemble

### Applications

- Water wastewater applications
- Food & beverage
- Chemical and petrochemical
- General manufacturing

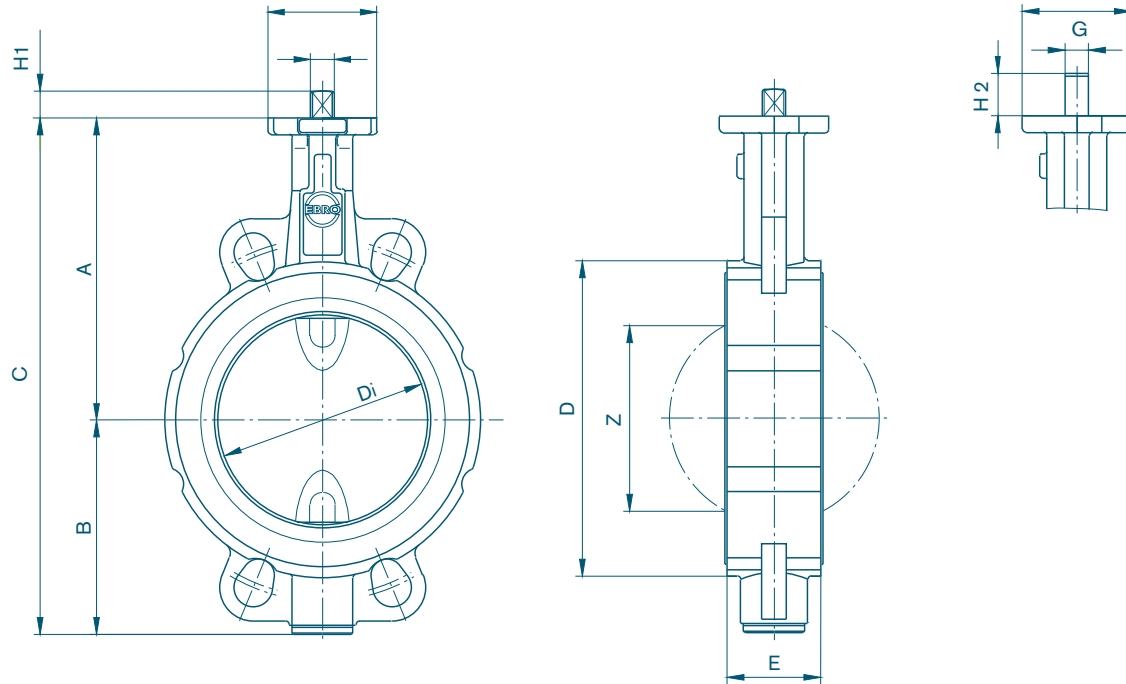
Technical data	
<b>Material</b>	
Body	Cast iron
Disk	Stainless steel
Liner	EPDM (standard; others on request)
<b>Nominal Diameter</b>	
Wafer	DN 20 - DN 1200 (DN 20 only PN10/16)
Lugged	DN 20 - DN 600 (DN 20 only PN10/16)
<b>Face-to-face</b>	EN 558 Series 20 (DIN 3202 T3 K1) ISO 5752 Series 20 API 609 Table 1 BS 5155 Series 4 NF E 29-305.1 (lugged)
<b>Flange accommodation</b>	DIN 2501 PN 6/10/16, ANSI B 16.5, Class 150 MSS SP44 Class 150, AWWA C 207 AS 2129 Table D and E, BS 10 Table D and E JIS B 2211-5 K, JIS B 2212-10 K
<b>Lap-joint flange</b>	DIN 2641 and DIN2642
<b>Weld-on flange</b>	DIN 2576
<b>Flange surface design</b>	DIN 2526 Form A-E, ANSI RF
<b>Top flange</b>	EN ISO 5211 NF E 29-402
<b>Marking</b>	DIN EN 19
<b>Temperature range</b>	-10 °C to + 120 °C (pressure, media and material dependent)
<b>Operating pressure</b>	16 Bar
<b>Differential Pressure</b>	Maximum differential 16 bar
<b>Vacuum</b>	0.2 bar absolute (pressure and media dependent)

Wafer Type Material Specifications



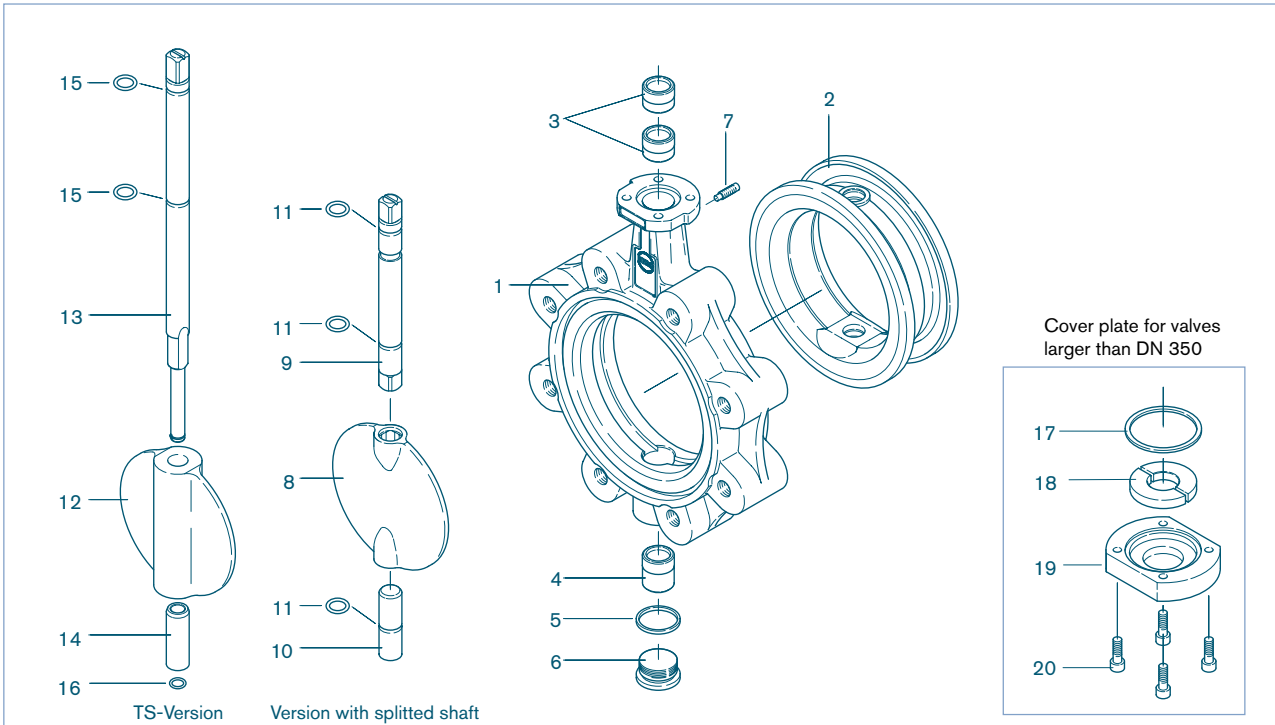
Pt.	Description	Material	Material-No.	ASTM	Pt.	Description	Material	Material-No.	ASTM
1	Body	Aluminiumalloy	G-AISI9Cu3	3.2163	9/10	Shafts	Stainless Steel	X39CrMo17-1	1.4122
			G-AISI10Mg	3.2381				X14CrMoS17	1.4104
		Grey Cast Iron	GG-25	0.6025				X5CrNiMo17-12-2	1.4401
		Nodular Cast Iron	GGG-40	0.7040				Hastelloy	2.4883
			GGG-40.3	0.7043			Aluminium Bronze	CuAl10Ni	2.0975
		Carbon Steel	GS-C25	1.0619	11	O-ring	NBR	Acrylonitrile butadiene rubber	
		Stainless Steel	G-X5CrNiMo19-11-2	1.4408			FPM	Fluorocarbon caoutchouc	
		Aluminium Bronze	G-CuAl10Ni	2.0975	12	TS-disc			
2	Seat	NBR	Acrylonitrile butadiene rubber				Nodular Cast Iron	GGG-40	0.7040
		EPDM	Ethylene propylene caoutchouc				Stainless Steel	G-X5CrNiMo19-11-2	1.4408
		CSM	Chlorsulphonated polyethylene				Aluminium Bronze	G-CuAl10Ni	2.0975
		FPM	Fluorocarbon caoutchouc				Coating	Halar, Rilsan	
		VSI	Silicon rubber				Surface		
		AU	Polyurethane elastomer				Quality	electropolished, mirror finished	
3/4	Bearing bush	Brass	MS 58	2.0401	13	TS-shaft	Stainless Steel	X14CrMoS17	1.4104
		Polyamide	PA 66					X39CrMo17-1	1.4122
		PTFE	Polytetrafluorethylen					X5CrNiMo17-12-2	1.4401
5	Seal DIN 7603	Copper	Cu				Aluminium Bronze	CuAl10Ni	2.0975
6	Plug screw DIN 908	Stainless Steel	G-X5CrNiMo19-11-2	1.4408	14	Sleeve	Stainless Steel	X5CrNi18-10	1.4301
7	Set screw DIN 915	Steel	45 H galvanised		15	O-ring	NBR	Acrylonitrile butadiene rubber	
		Stainless Steel	A4-70				FPM	Fluorocarbon caoutchouc	
8	Disc	Steel	St 52.3	1.0570	16	Retainin ring	Stainless Steel	X39CrMo17-1	1.4122
		Stainless Steel	G-X5CrNiMo19-11-2	1.4301	17	O-ring	NBR	Acrylonitrile butadiene rubber	
			G-X6CrNiMo18-10	1.4408	18	Shaft retainer	Brass	MS 58	2.0401
			X2CrNiMo17-12-2	1.4404	19	Cover plate	Grey Cast Iron	GG-25	0.6025
			X6CrNiMoTi17-12-2	1.4571	20	Screw	Steel	45 H galvanised	
			G-X2CrNiMoN26-7-4	1.4469			Stainless Steel	A2-70	B8
			Hastelloy	2.4883				A4-70	B8M
		Aluminium Bronze	G-CuAl10Ni	2.0975					
		Coating	Halar, Rilsan						
		Surface							
		Quality	electropolished, mirror finished						

Wafer Type Dimensions [mm]



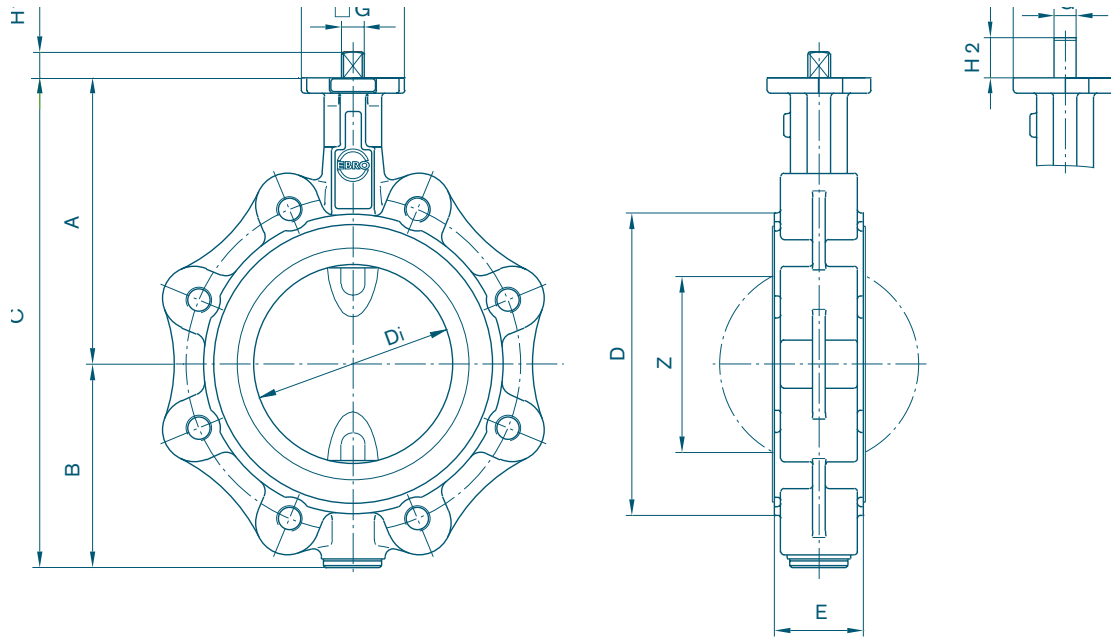
DN [MM]	Size [in]	A	B	C	D	Di	E	F	Flange	G	H1	H2	Z	Weight [Kg]	
														2pc shaft	TS shaft
20	¾	104	45	149	59	31.5	33	54	F04	11	12	19	-	1.3	-
25	1	104	45	149	63	31.5	33	54	F04	11	12	19	-	1.3	-
32	1¼	104	50	154	68	31.5	33	54	F04	11	12	19	-	1.4	-
40	1½	113	66	179	80	38	33	54	F04	11	12	19	22	1.8	-
50	2	126	84	210	95	48.5	43	54	F04	11	12	19	25	2.2	-
65	2½	134	93	227	115	63.5	46	54	F04	11	12	19	45	2.9	-
80	3	157	104	261	138	78.5	46	65	F05	14	16	25	65	4	4.5
100	4	167	115	282	158	98.5	52	65	F05	14	16	25	85	5.2	5.8
125	5	180	127	307	188	123.5	56	65	F05	14	16	25	111	6.9	7.5
150	6	203	150	353	212	148	56	90	F07	17	19	30	139	9.5	11
200	8	228	176	404	268	199	60	90	F07	17	19	30	190	13.2	15
250	10	266	212	478	320	248	68	125	F10	22	24	39	240	22.5	25.5
300	12	291	237	528	370	296	78	125	F10	22	24	39	287	31.5	35
350	14	332	269	601	408	338	78	150	F12	*	*	-	330	39.4	45
400	16	363	314	677	470	388	102	150	F12	*	*	-	378	58.7	64.5
450	18	397	335	732	530	430.5	114	210	F16	*	*	-	417	91	95.5
500	20	437	405	842	574	494.5	127	210	F14/ F16	*	*	-	474	107	113.5
600	24	498	469	967	675	590	154	300	F16/ F25	*	*	-	563	171	198
700	28	581	507	1088	772	680	165	300	F16/ F25	*	*	-	660	251	304
800	32	630	556	1186	874	780	190	300	F25	*	*	-	757	355	375
900	36	696	617	1313	973	880	203	300	F25	*	*	-	860	456	498
1000	40	771	675	1446	1070	980	216	350	F30	*	*	-	956	570	718
1200	48	880	810	1690	1510	1170	254	350	F30	*	*	-	1154	-	1156

Lugged Type Material Specifications



Pt.	Description	Material	Material-No.	ASTM	Pt.	Description	Material	Material-No.	ASTM		
1	Body	Nodular Cast Iron	GGG-40 GGG-40.3	0.7040 0.7043	60-40-18	9/10 Shafts	Stainless Steel	X14CrMoS17 X5CrNiMo17-12-2 Hastelloy	1.4104 1.4401 2.4883	430F 316 Hastelloy	
2	Seat	NBR	Acrylonitrile butadiene rubber		11	O-ring	NBR	Acrylonitrile butadiene rubber			
	EPDM	Ethylene propylene caoutchouc				FPM	Fluorocarbon caoutchouc				
	CSM	Chlorsulphonated polyethylene			12	TS-disc	Nodular Cast Iron	GGG-40	0.7040	60-40-18	
	FPM	Fluorocarbon caoutchouc					Stainless Steel	G-X5CrNiMo19-11-2	1.4408	CF8M	
	VSI	Silicon rubber					Aluminium Bronze	G-CuAl10Ni	2.0975	C 95800	
	AU	Polyurethane elastomer					Coating	Halar, Rilsan			
3/4	Bearing bush	Brass	MS 58	2.0401	B45		Surface				
		Polyamide	PA 66				Quality			electropolished, mirror finished	
		PTFE	Polytetrafluorethylen			13	TS-shaft	Stainless Steel	X14CrMoS17 X39CrMo17-1 X5CrNiMo17-12-2	1.4104 1.4122 1.4401	430F 316
5	Seal DIN 7603	Copper	Cu		Copper						
6	Plug screw DIN 908	Stainless Steel	G-X5CrNiMo19-11-2	1.4408	CF8M	14	Sleeve	Stainless Steel	X5CrNi18-10	1.4301	304
7	Set screw DIN 915	Steel	45 H galvanised		B8M	15	O-ring	NBR	Acrylonitrile butadiene rubber		
		Stainless Steel	A4-70				FPM	Fluorocarbon caoutchouc			
8	Disc	Steel	ST 52.3	1.0570	572-50	16	Retaining ring	Stainless Steel	X39CrMo17-1	1.4122	
		Stainless Steel	X5CrNi18-10	1.4301	304						
			G-X5CrNiMo19-11-2	1.4408	CF8M	17	O-Ring	NBR	Acrylonitrile butadiene rubber		
			X2CrNiMo17-12-2	1.4404	316 L						
			X6CrNiMoTi17-12-2	1.4571	316 Ti	18	Shaft retainer	Brass	MS 58	2.0401	B45
			G-X2CrNiMoN26-7-4	1.4469	F 51						
			Hastelloy	2.4883	Hastelloy	19	Cover plate	Grey Cast Iron	GG-25	0.6025	40 B
			Aluminium Bronze	G-CuAl10Ni	2.0975	C 95800					
			Coating	Halar, Rilsan							
			Surface								
			Quality	electropolished, mirror finished							
						20	Screw	Steel	45 H galvanised		
								Stainless Steel	A2-70 A4-70		B8 B8M

Lugged Type Dimensions [mm]



DN [MM]	Size [in]	A	B	C	D	Di	E	F	Flange	G	H1	H2	Z	Weight [Kg]	
														2pc shaft	TS shaft
20	¾	104	45	149	63	31.5	33	54	F04	11	12	19	-	2.1	-
25	1	104	45	149	63	31.5	33	54	F04	11	12	19	-	2.1	-
32	1¼	104	50	154	68	31.5	33	54	F04	11	12	19	-	2.1	-
40	1½	113	66	179	80	38	33	54	F04	11	12	19	22	4	-
50	2	126	84	210	95	48.5	43	54	F04	11	12	19	25	4.8	-
65	2½	134	93	227	115	63.5	46	54	F04	11	12	19	45	5.5	-
80	3	157	104	261	138	78.5	46	65	F05	14	16	25	65	8.6	9.1
100	4	167	115	282	158	98.5	52	65	F05	14	16	25	85	9.8	10.4
125	5	180	127	307	188	123.5	56	65	F05	14	16	25	111	10.1	10.7
150	6	203	150	353	210	148	56	90	F07	17	19	30	139	13.1	14.6
200	8	228	176	404	268	199	60	90	F07	17	19	30	190	18.8	20.6
250	10	266	212	478	320	248	68	125	F10	22	24	39	240	29.5	32.5
300	12	291	237	528	370	296	78	125	F10	22	24	39	287	37	40.5
350	14	332	269	601	408	338	78	150	F12	*	*	-	330	54.8	60.4
400	16	363	314	677	470	388	102	150	F12	*	*	-	378	81.5	87.3
450	18	397	335	732	530	430.5	114	210	F16	*	*	-	417	101.4	105.9
500	20	437	405	842	574	494.5	127	210	F14/F16	*	*	-	474	136.3	142.8
600	24	498	469	967	675	590	154	300	F16/F25	*	*	-	563	240.5	267.5

## Technical data

### Torque

- The torque values specified(MD) are based on liquid and lubricant media
- Powdery (non-lubricant) media Md x 1,3
- Dry gases/high viscous media Md x 1,2
- The values specified are based on the initial breakaway torque

Dynamic torque specification available upon request.

DN [mm]	Size [in]	Operating pressure [bar]			
		3	6	10	16
20	¾	–	–	5	–
25	1	–	–	5	–
32	1¼	–	–	5	–
40	1½	–	–	6	8
50	2	5	7	7	9
65	2½	7	9	15	18
80	3	8	10	18	24
100	4	9	18	28	37
125	5	15	22	45	59
150	6	36	45	110	125
200	8	59	76	140	200
250	10	150	180	200	240
300	12	200	240	280	360
350	14	350	540	610	700
400	16	420	620	750	850
450	18	720	746	860	1,500
500	20	900	1,100	2,255	3,690
600	24	1,050	2,100	3,000	5,830
700	28	1,560	2,240	3,450	8,100
800	32	2,070	3,800	6,600	11,200
900	36	2,700	4,900	7,100	14,500
1,000	40	4,600	6,780	11,500	24,400
1,200	48	7,800	12,000	21,000	44,000

## Technical data

### K<sub>v</sub> Values

- The K<sub>v</sub>-value (m<sup>3</sup>per hour) is the flow of water at a temperature of 5°C to 30°C (41 °F to 86 °F) at 1 bar.
- The K<sub>v</sub>-values specified are based on tests carried out by the Delfter Hydraulics Laboratories, the Netherlands.
- Permissible velocity of flow V<sub>max</sub> 4,5 m/s for liquids and V<sub>max</sub> 70 m/s for gases.
- The throttle function is linear at an angle 30°to 70°.
- Avoid cavitation!

For further values, please contact our engineers.

DN [mm]	Size [in]	Opening angle							
		20°	30°	40°	50°	60°	70°	80°	90°
20	¾	–	1	4	8	11	19	27	32
25	1	–	1,5	5	10	15	24	32	36
32	1¼	–	1,5	5	11	16	27	35	40
40	1½	–	2,2	8	15	21	33	43	50
50	2	1,2	8	13	22	38	50	65	85
65	2½	2	9	22	42	77	115	170	215
80	3	8	24	50	95	150	240	330	420
100	4	13	28	65	130	180	340	550	800
125	5	26	65	130	230	350	530	870	1,010
150	6	35	90	200	360	640	900	1,350	2,100
200	8	43	180	350	580	1,000	1,600	3,000	4,000
250	10	125	360	660	1,100	1,800	3,100	5,300	6,400
300	12	200	550	1,000	1,600	2,600	5,000	7,500	8,500
350	14	350	780	1,400	2,400	4,000	8,000	10,800	11,500
400	16	490	1,050	1,800	3,100	5,500	11,000	12,000	14,500
450	18	510	1,080	2,040	3,350	6,100	11,500	14,600	20,500
500	20	520	1,100	2,200	3,500	6,200	12,000	15,100	21,000
600	24	750	1,400	2,800	5,100	8,800	14,000	22,000	29,300
700	28	770	1,755	3,260	5,980	10,600	17,100	25,300	36,000
800	32	1,200	2,260	4,550	8,230	12,900	20,300	29,300	44,600
900	36	1,540	2,280	6,030	10,500	17,600	29,200	42,150	59,000
1,000	40	2,200	3,970	8,300	14,480	24,000	37,100	60,300	81,500
1,200	48	5,050	7,900	13,800	19,700	33,500	53,300	73,050	102,650

Ordering chart

Lugged butterfly valve connection

Connection	Orifice Diameter [mm]	Kv value [m <sup>3</sup> /h]	Pressure range	Body material	Disk material	Seal material	ID No.
	50	85	16 bar	Cast Iron	Stainless Steel	EPDM	AU44093
	65	215	16 bar	Cast Iron	Stainless Steel	EPDM	AU46270
	80	420	16 bar	Cast Iron	Stainless Steel	EPDM	AU44094
	100	800	16 bar	Cast Iron	Stainless Steel	EPDM	AU44095
	125	1010	16 bar	Cast Iron	Stainless Steel	EPDM	AU49076
	150	2100	16 bar	Cast Iron	Stainless Steel	EPDM	AU44096
	200	4000	16 bar	Cast Iron	Stainless Steel	EPDM	AU44097
	250	6400	16 bar	Cast Iron	Stainless Steel	EPDM	AU46872
	300	8500	10 bar	Cast Iron	Stainless Steel	EPDM	AU46379

Ordering chart

Wafer butterfly valve connection

Connection	Orifice Diameter [mm]	Kv value [m <sup>3</sup> /h]	Pressure range	Body material	Disk material	Seal material	ID No.
	50	85	16 bar	Cast Iron	Stainless Steel	EPDM	AU15180
	65	215	16 bar	Cast Iron	Stainless Steel	EPDM	AU10800
	80	420	16 bar	Cast Iron	Stainless Steel	EPDM	AU18140
	100	800	16 bar	Cast Iron	Stainless Steel	EPDM	AU13990
	125	1010	16 bar	Cast Iron	Stainless Steel	EPDM	AU18150
	150	2100	16 bar	Cast Iron	Stainless Steel	EPDM	AU13690
	200	4000	16 bar	Cast Iron	Stainless Steel	EPDM	AU18160
	250	6400	16 bar	Cast Iron	Stainless Steel	EPDM	AU18170
	300	8500	10 bar	Cast Iron	Stainless Steel	EPDM	AU44195