



BUTTERFLY VALVES CATALOGUE

YEAR 2020



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WHO WE ARE

S.I.V.I.T. Srl

The company was created in 2011 from a pool of professionals, highly customer oriented for small, medium and large companies.

We offer an *innovative and multi-purpose* use, ranging in various fields (such as chemical, petrochemical, food industry, gas lines etc.).

A close-up, black and white photograph of a mechanical component, likely a bearing or a part of a machine. The surface is highly reflective and shows concentric circular grooves. A red rectangular box is superimposed over the center of the image, containing white text. In the top right corner, there is a small white icon of a gear with a curved arrow pointing clockwise.

Quality and performance first and foremost

All the precision activities are executed in our workshops.
General machining are carried out by certified medium and small enterprises located very close to S.I.V.I.T. plant.
This choice was taken to supervise the production process and reduce as much as possible the environment's impact with the aim to encourage and promote Italian production, empathize the European quality and products excellence.



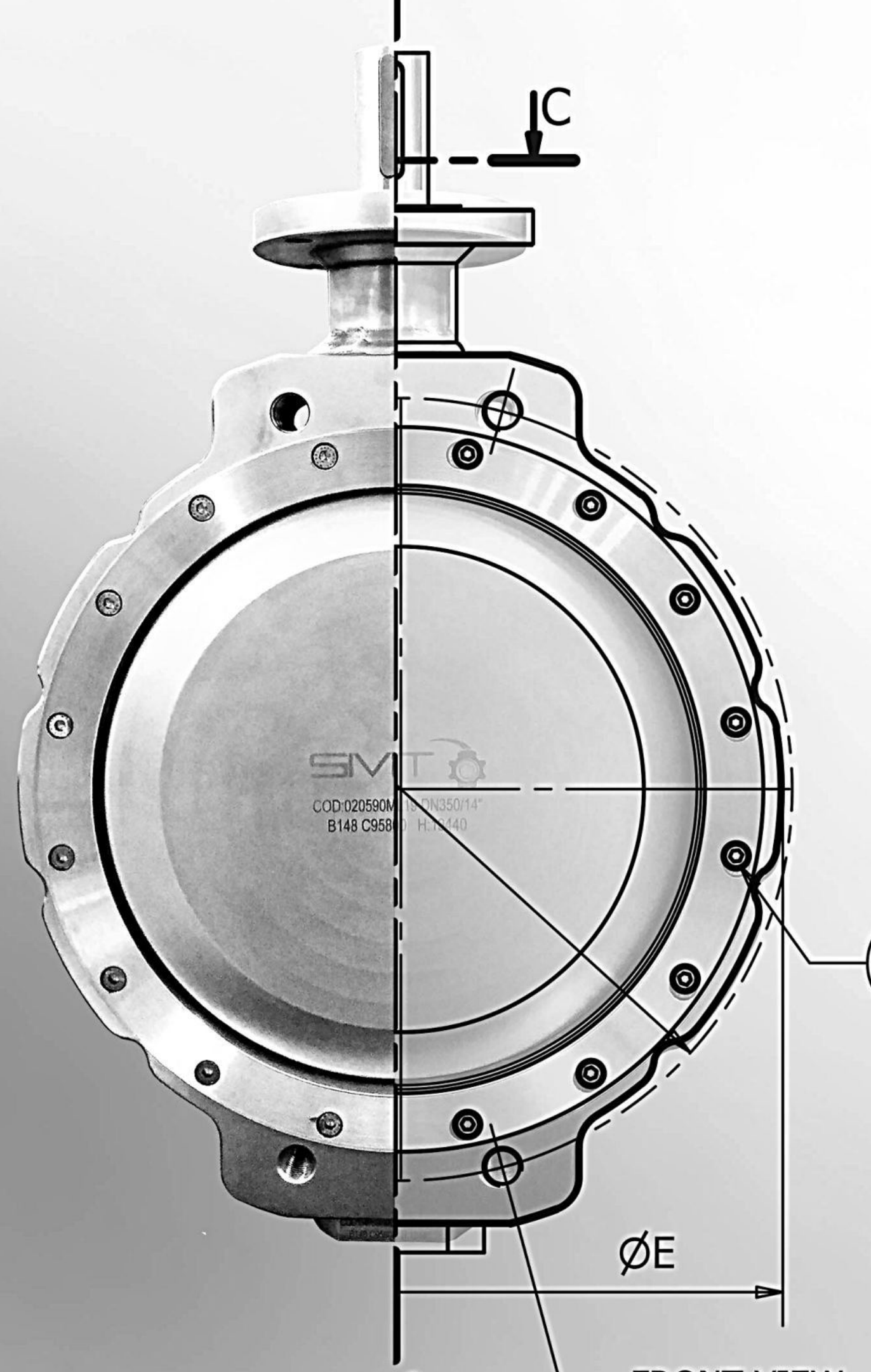
SIZES AND RATINGS

Sizes from 2"/DN 50 up to 24"/DN 600 (Bigger sizes available upon request).

Available Ratings:

PN 10/16/25/40

ANSI 150/300 (600 upon request)



CENTRIC

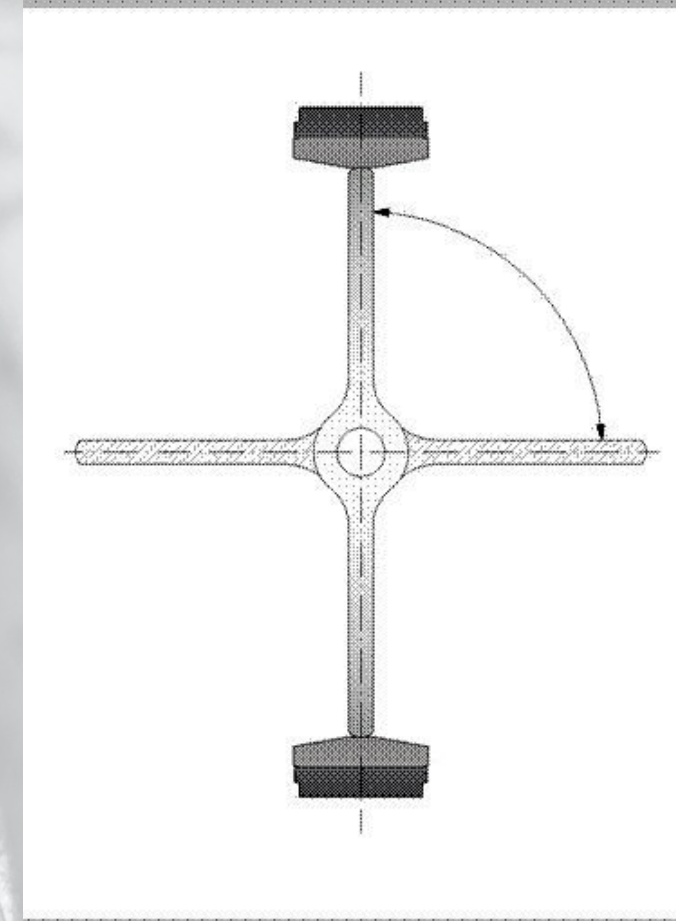


The Centric (lined) type butterfly are realized in special material for heavy duty application, sleeve available in Viton, NBR, EPDM and PTFE. Hydraulic, pneumatic or electric actuator available upon request.

LINED WORKING PRINCIPLES

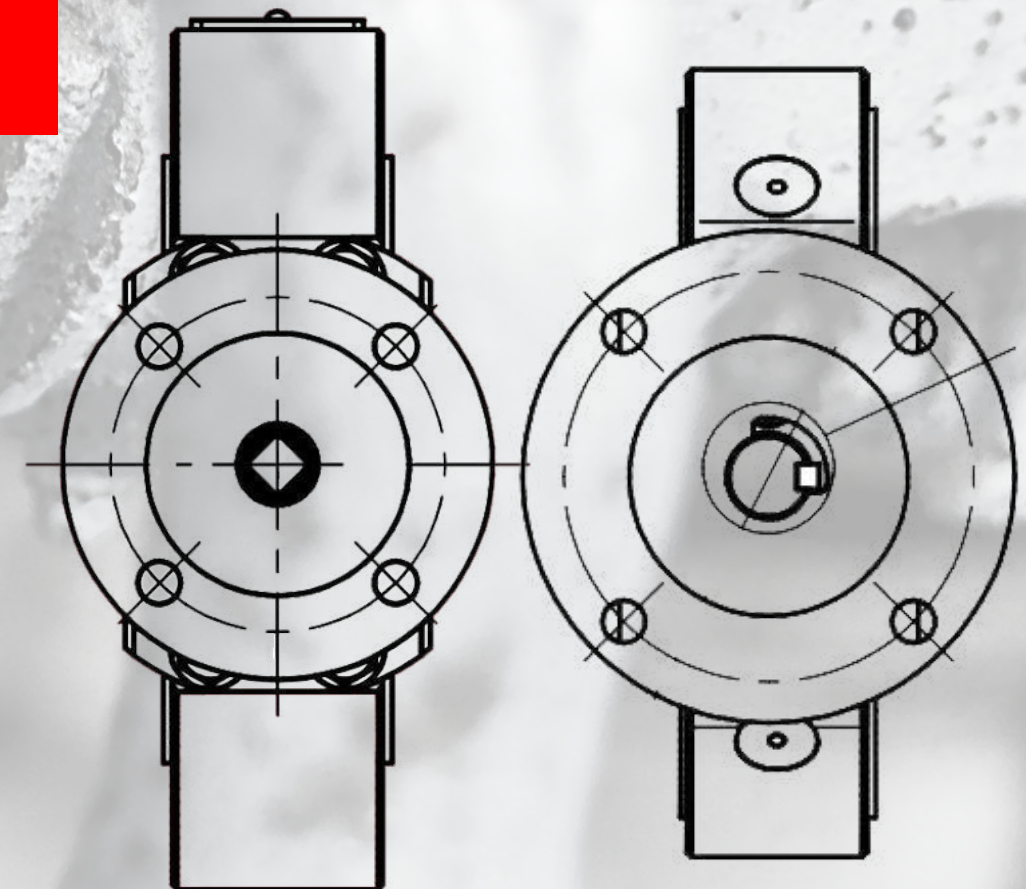
Class Ansi 150 PN 10/16

The rotation axe match all the main components, Body valve, Seat sleeve, and disc. The zero leakage is guaranteed by the interference between disc and seat.



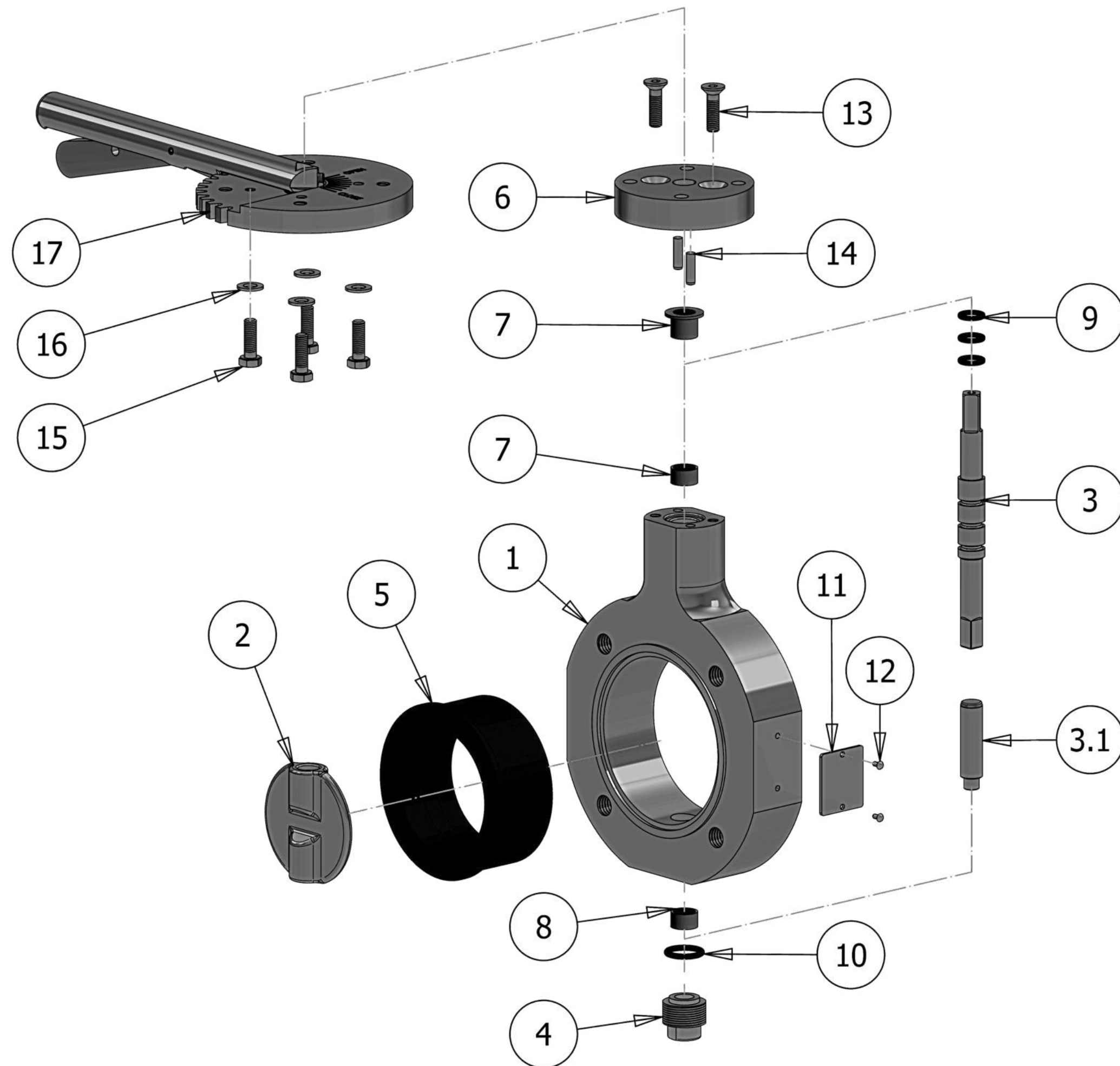
TOP MOUNTING

Shaft coupling depending on customer's requirements and it may be realized in different configuration than those shown. Flanges in accordance with ISO 5211.



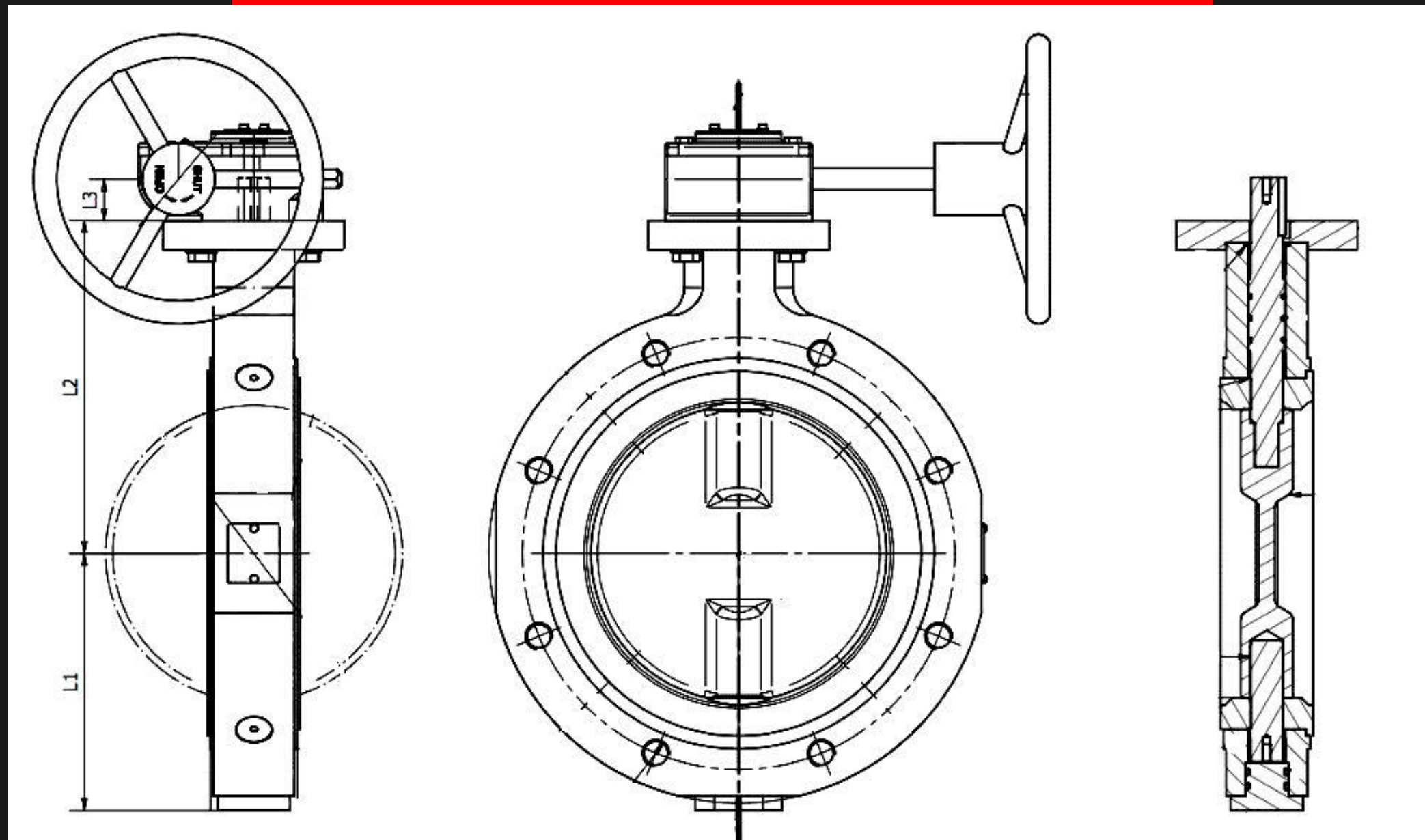
WE MANUFACTURE

CENTRIC (LINED)



PARTS LIST	
POS.	DESCRIPTION
1	BODY
2	DISC
3	UPPER STEM
3.1	LOWER STEM
4	BLIND PLUG
5	SLEEVE SEAT
6	FLANGE
7	UPPER BUSHING
8	LOWER BUSHING
9	UPPER O-RING
10	LOWER O-RING
11	ID PLATE
12	RIVET
13	COUNTERSUNK HEAD SCREW (FLANGE)
14	PIN (FLANGE)
15	HEX. BOLT (COMMAND)
16	WASHER (COMMAND)
17	HAND LEVER

VALVE DIMENSION



Dimensions are in mm, the data might change, S.I.V.I.T Srl reserves the right to make changes or technical improvements without prior notice.

DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
L1	54	72	82	92	102	120	133	166	201	234	268	299	355	393	464
L2	13	135	150	160	180	195	210	240	279	315	330	365	397	437	522
L3	33	43	46	46	52	56	56	60	68	78	80	102	113	126	153

TORQUE VALUES

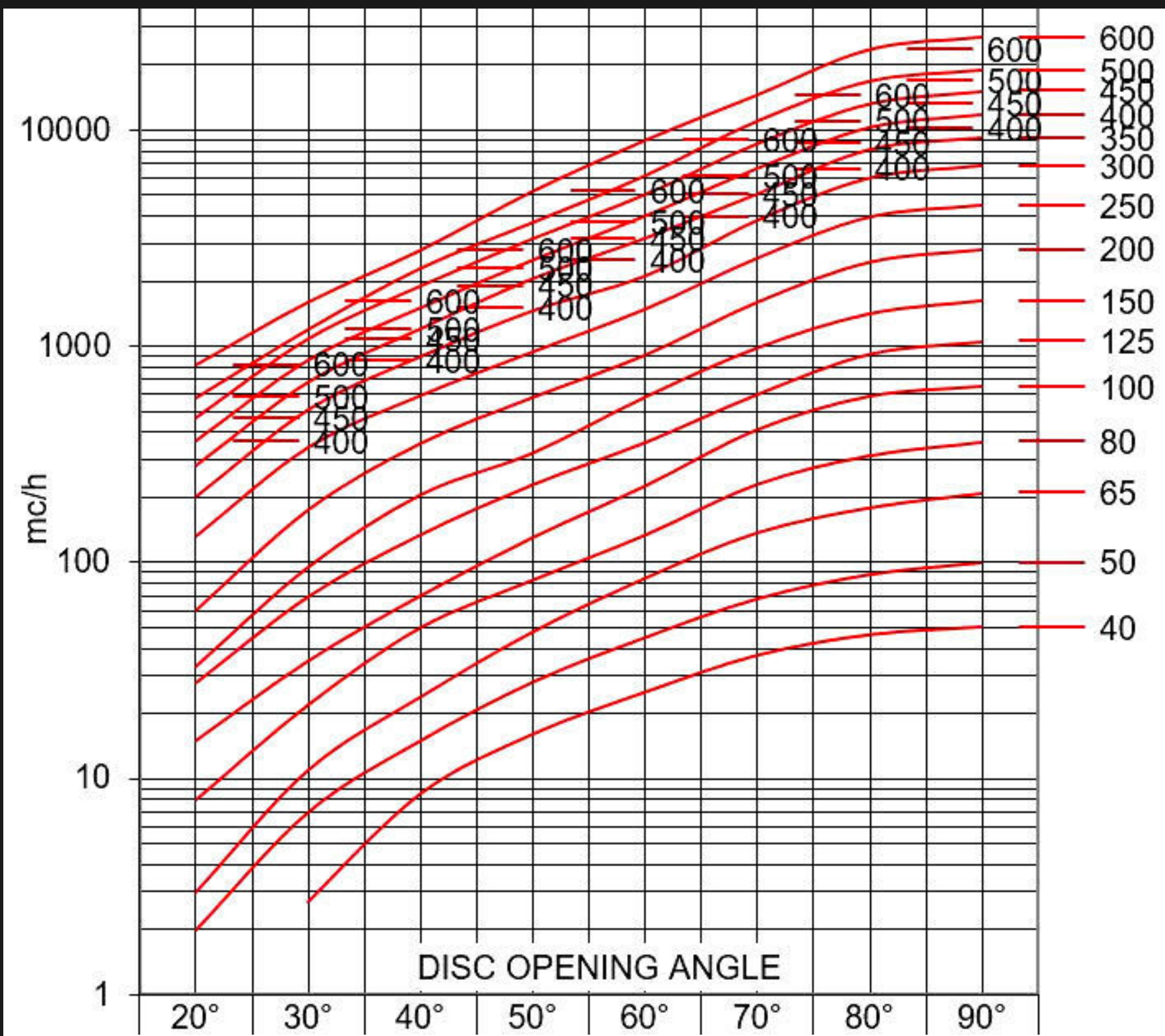
DN		Breakaway torque (Nm)
40	1½"	35
50	2"	35
65	2½"	40
80	3"	40
100	4"	50
125	5"	62
150	6"	94
200	8"	209
250	10"	242
300	12"	308
350	14"	500
400	16"	600
450	18"	800
500	20"	1200
600	24"	1900

The torque values in the above table are in Nm.

FLANGE BOLTING DIMENSION

PN 6	DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	FF	33	43	46	46	52	56	56	60	68	78	78	102	114	127	154
	ØL	100	110	130	150	170	200	225	280	335	395	445	495	550	600	705
	NxØ	4*Ø14	4*Ø14	4*Ø14	4*Ø18	4*Ø18	4*Ø18	4*Ø18	4*Ø18	4*Ø18	4*Ø22	4*Ø22	4*Ø22	4*Ø22	4*Ø22	4*Ø26
	NxM	4*M12	4*M12	4*M12	4*M16	4*M16	8*M16	8*M16	8*M16	12*M16	12*M20	12*M20	16*M20	16*M20	20*M20	20*M24
PN 10	DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	FF	33	43	46	46	52	56	56	60	68	78	78	102	114	127	154
	ØL	110	125	154	160	180	210	240	195	350	400	460	515	565	620	725
	NxØ	4*Ø18	4*Ø18	4*Ø18	4*Ø18	4*Ø18	4*Ø18	4*Ø22	4*Ø22	4*Ø22	4*Ø22	4*Ø22	4*Ø26	4*Ø26	4*Ø26	4*Ø30
	NxM	4*M16	4*M16	8*M16	8*M16	8*M16	8*M16	8*M20	8*M20	12*M20	12*M20	16*M20	16*M24	20*M24	20*M24	20*M27
PN 16	DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	FF	33	43	46	46	52	56	56	60	68	78	78	102	114	127	154
	ØL	110	125	145	160	180	210	240	295	355	410	470	525	585	650	770
	NxØ	4*Ø18	4*Ø18	4*Ø18	4*Ø18	4*Ø18	4*Ø18	4*Ø22	4*Ø22	4*Ø26	4*Ø26	4*Ø26	4*Ø30	4*Ø30	4*Ø33	4*Ø33
	NxM	4*M16	8*M16	8*M16	8*MM16	8*M16	8*M16	8*M20	12*M20	12*M24	12*M24	16*M24	16*M27	20*M27	20*M30	20*M33
#150	DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	FF	33	43	46	46	52	56	56	60	68	78	78	102	114	127	154
	ØL	114,3	120,7	139,7	152,4	190,5	215,9	241,3	298,5	362	431,8	476,3	539,8	577,9	635	749,3
	NxØ	4*7/8"	4*3/4"	4*3/4"	4*3/4"	4*3/4"	4*7/8"	4*7/8"	4*7/8"	4*1"	4*1"	4*1" 1/8	4*1"1/8	4*1"1/4	4*1"1/4	4*1"3/8
	NxM	4*3/4"	4*5/8"	4*5/8"	4*5/8"	8*5/8"	8*3/4"	8*3/4"	8*3/4"	12*7/8"	12*7/8"	12*1"	16*1"	16*1"1/8	20*1"1/8	20*1"1/8

Kv VALUE (m³/h)



The flow factor "Kv" is defined as the flow of water, through a valve at temperatures between 5-40 ° C, in cubic meters per hour (m³ / h) at a pressure drop of 1 bar. This factor depends on the diameter of the valve, the shutter angle of aperture and its design.

	20°	30°	40°	50°	60°	70°	80°	90°
40		2,7	8,5	16	25	37	46	50
50	2	7	15	28	45	68	88	100
65	3	11	24	48	85	138	180	210
80	8	22	50	83	134	230	312	360
100	15	35	70	130	225	410	585	650
125	28	70	135	230	360	600	920	1050
150	33	95	205	320	580	980	1410	1620
200	60	175	355	580	910	1600	2450	2800
250	132	340	590	940	1480	2550	3950	4480
300	200	505	890	1450	2100	3800	5960	6800
350	280	680	1200	2050	3150	5050	8100	9200
400	365	860	1500	2490	3980	6600	10200	11700
450	465	1080	1900	3150	5050	8700	13300	15200
500	580	1200	2300	3740	6150	11000	16800	18900
600	820	1600	2780	5200	8940	14500	23500	26800

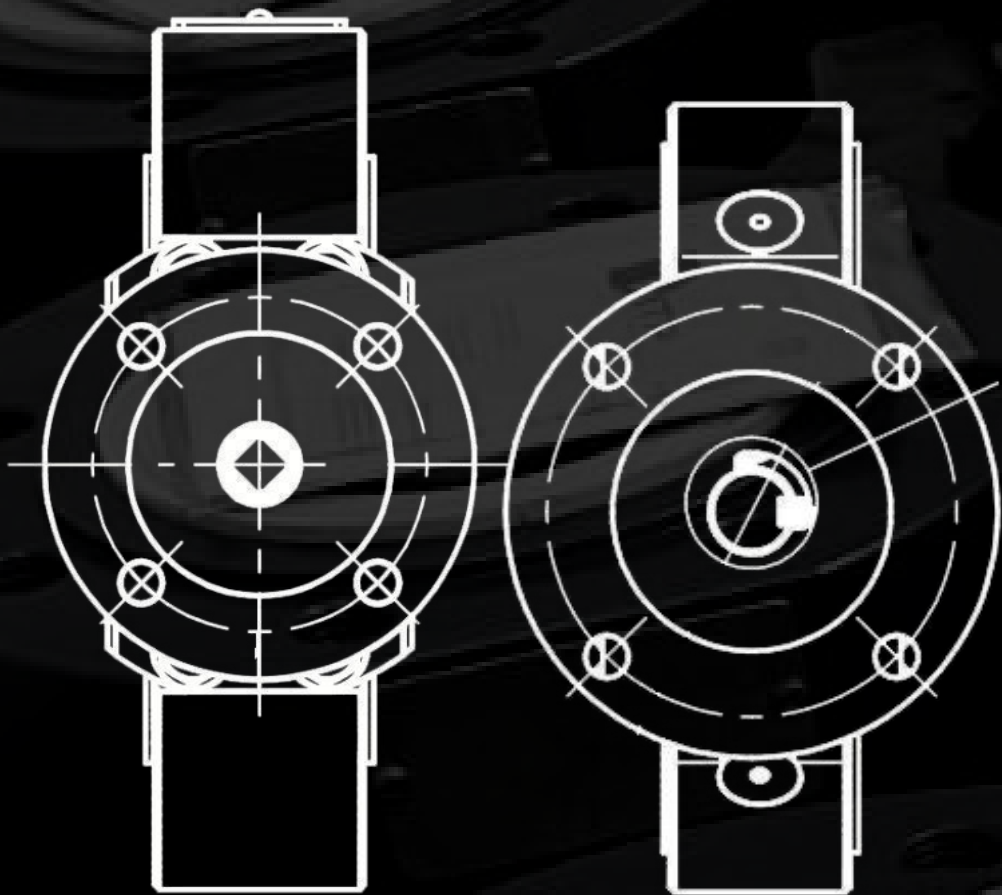


WE MANUFACTURE

GENERAL INFORMATION

Class Ansi 150/300 PN 16/25/40

- Interception (ON OFF) and regulation of gaseous media and liquid
- Curve flow almost equivalent percentage (almost a full bore)
- Double eccentric disc and shaft
- No maintenance required
- Long life even under the most critical conditions



TOP MOUNTING

Shaft finished depending on the requirements of implementing, on request may be made different than those shown above. Flanges in according with ISO 5211.

DOUBLE OFFSET



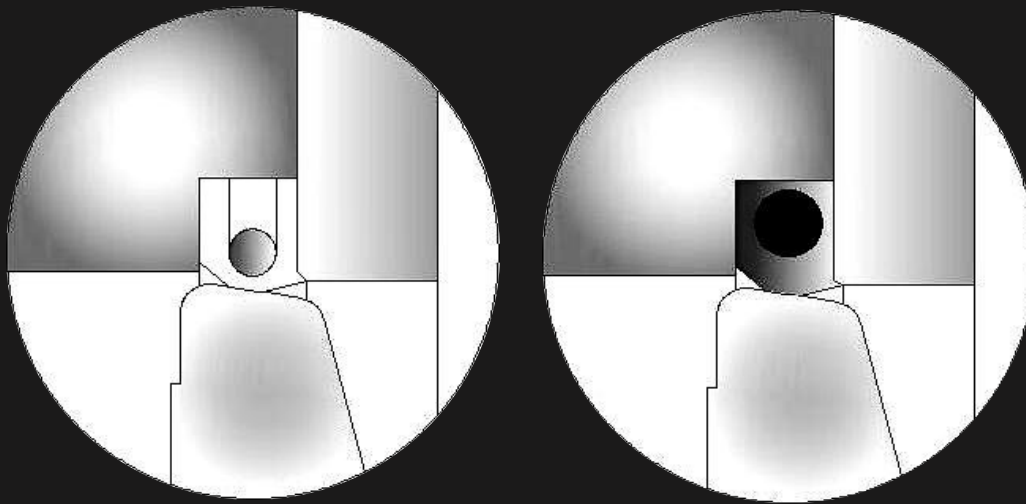
The solution to double eccentricity has the advantage of the "perfect seal", and thanks to the interchangeability of the seals, they are perfectly adapted to the major areas of application.

TORQUE extremely reduced in the drive.

4 DIFFERENT SEATS TYPE TO COVER ALL THE MAIN APPLICATION

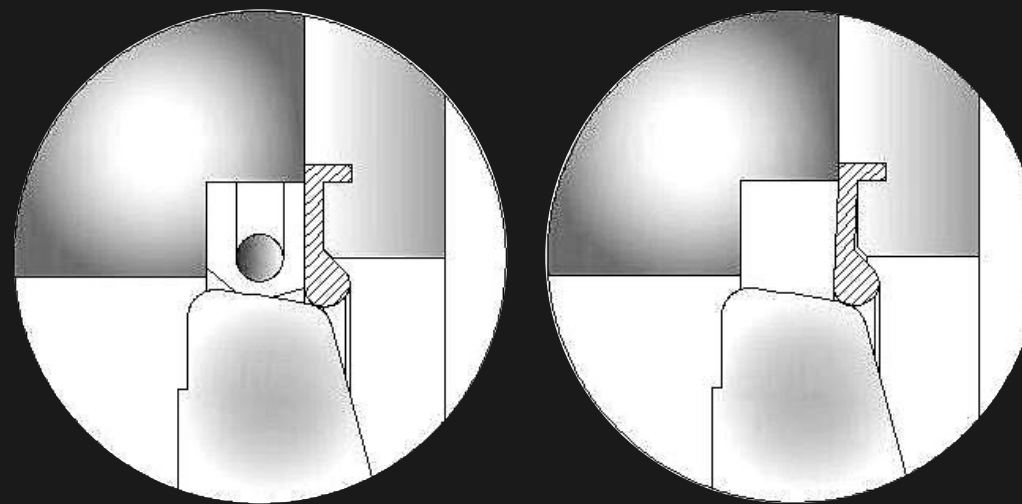
• SOFT SEAT

(NBR, EPDM, FKM, PTFE, RPTFE)



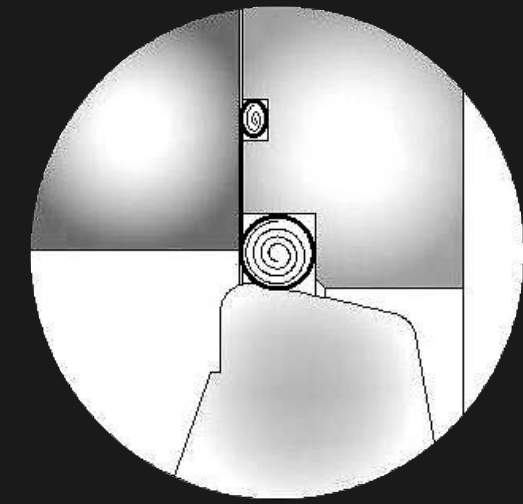
• SOFT SEAT with FIRESAFE Ring

(NBR, EPDM, FKM, PTFE, RPTFE)



Once destroyed the seal, the firesafe ring tends to bend under the pressure of the retaining ring and the seal is assured up to the time of the next maintenance

• METAL SEAT (Helicoflex)

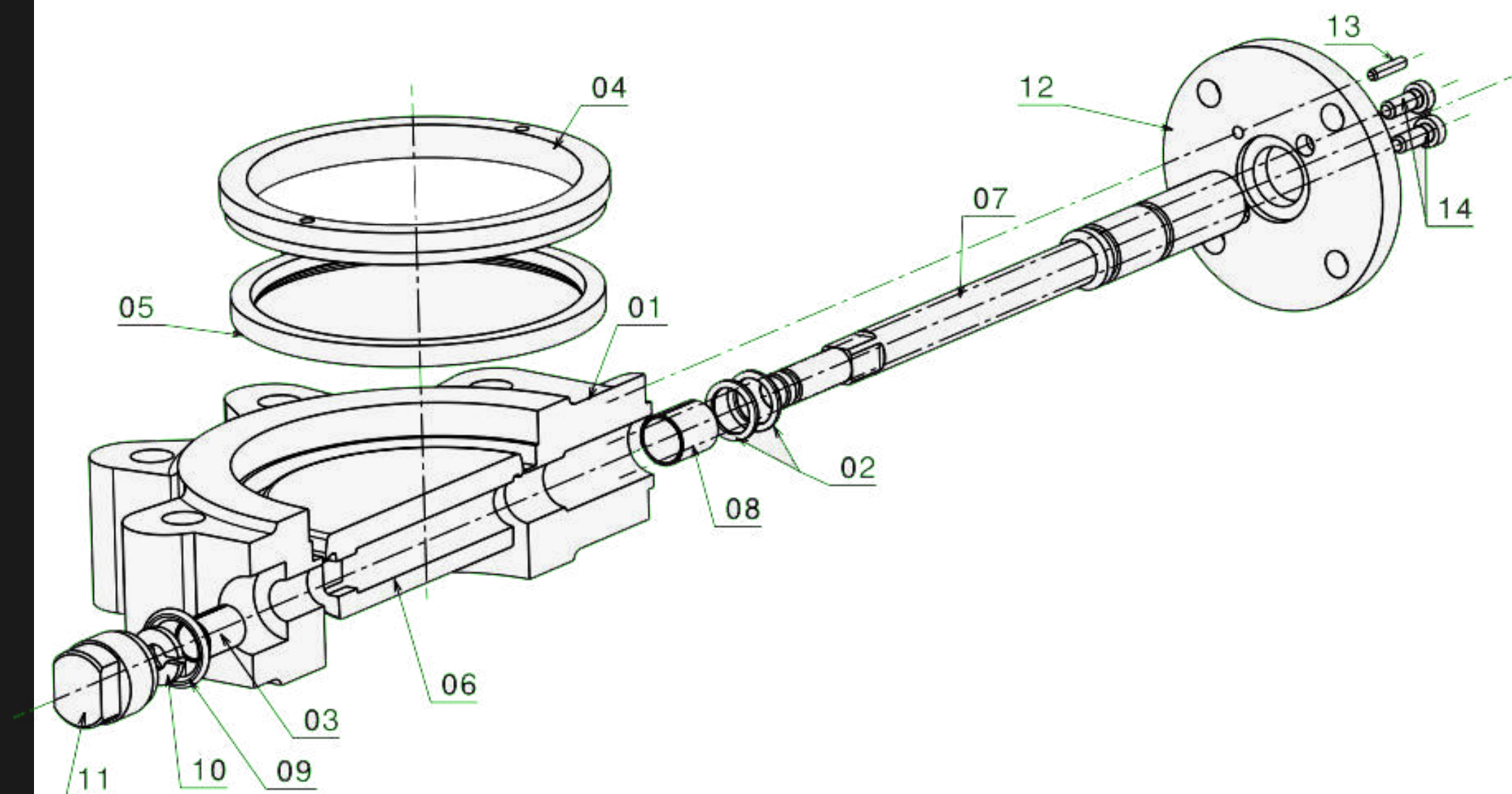


N.B. The valves are designed and tested bidirectionally, but for their design double offset recommend a preferential flow direction for maximum efficiency.

SS SIVIT STANDARD TYPE

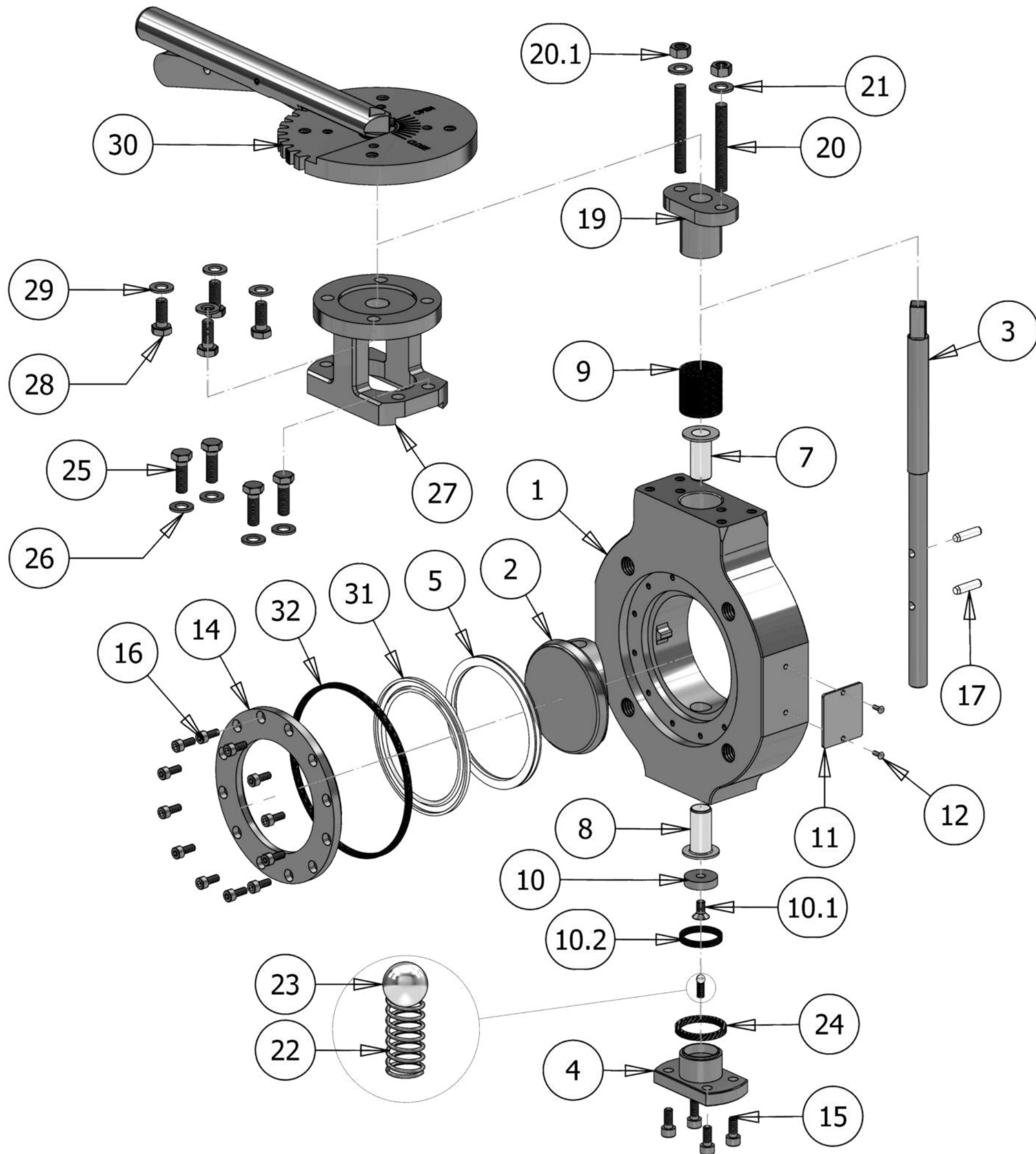


PARTS LIST	
POS.	DESCRIPTION
1	BODY
2	RING
3	SELF- LUBRICATING BEARING
4	RING NUT
5	RENFORCED SEALING RING
6	DISK
7	STEM
8	SELF- LUBRICATING BEARING
9	RING
10	SPLIT RINGS
11	BLIND PLUG
12	FLANGE
13	PIN
14	SCREW





SX FIRESAFE TYPE



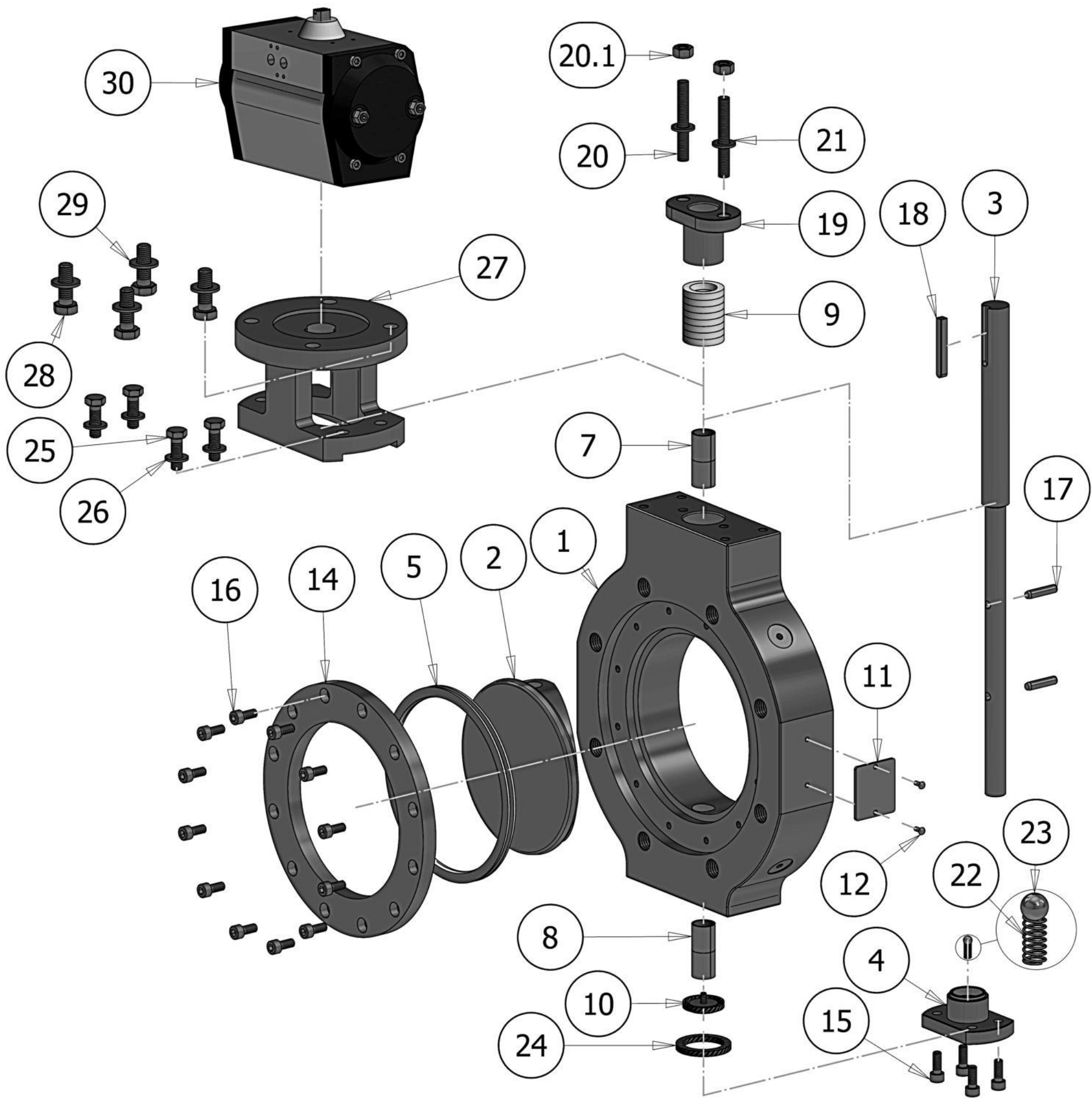
PARTS LIST	
POS.	DESCRIPTION
1	BODY
2	DISC
3	STEM
4	BLINDPLUG
5	SOFT SEAT
7	UPPER BUSHING
8	LOWER BUSHING
9	UPPER PACKING
10	ANTIBLOWOUT
10.1	SCREW (ANTIBLOWOUT)
10.2	SPIRAL WOUND GASKET (ANTIBLOWOUT)
11	ID PLATE
12	RIVET
14	RETAINING RING
15	SOCKET HEAD CAP SCREW (BLIND PLUG)
16	SOCKET HEAD CAP SCREW (RET. RING)
17	PIN (DISC/STEM)
19	GLANDPLUG
20	STUD (GLANDPLUG)
20.1	HEX. NUT (GLANDPLUG)
21	WASHER (GLANDPLUG)
22	ANTI-STATIC SPRING
23	ANTI-STATIC BALL
24	SPIRAL WOUND GASKET (BLINDPLUG)
25	HEX. BOLT (BRACKET)
26	WASHER (BRACKET)
27	BRACKET
28	HEX. BOLT (COMMAND)
29	WASHER (COMMAND)
30	HAND LEVER
31	FIRESAFE RING
32	SPIRAL WOUND GASKET (RET. RING)



SF FUGITIVE EMISSION TYPE

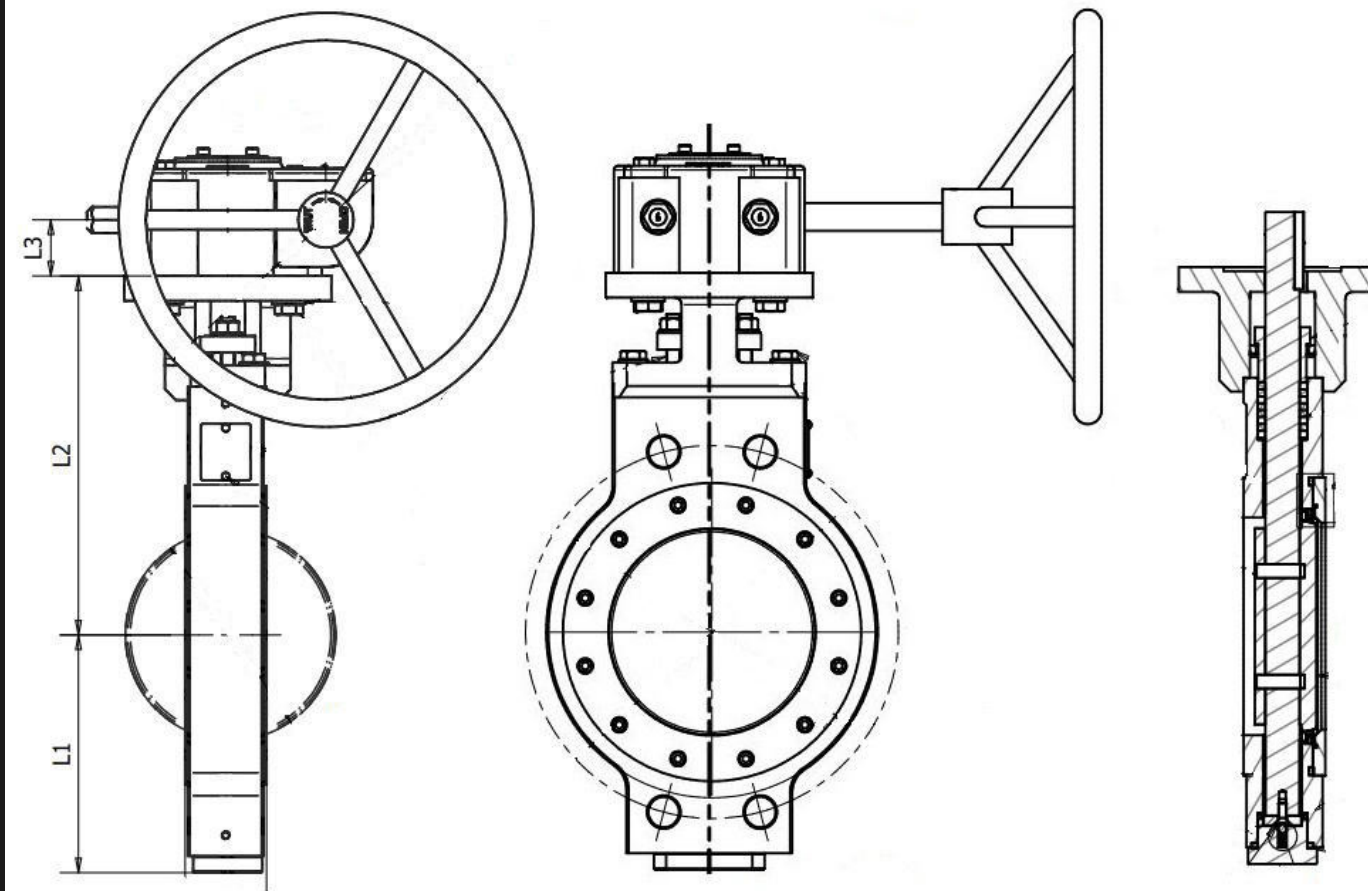


POS.	PARTS LIST DESCRIPTION
1	BODY
2	DISC
3	STEM
4	BLIND PLUG
5	SOFTSEAT
7	UPPER BEARING
8	LOWER BEARING
9	UPPER PACKING
10	ANTI-BLOWOUT DEVICE
11	ID PLATE
12	RIVET
14	RETAINING RING
15	SOCKET HEAD CAP SCREW (BLIND PLUG)
16	SOCKET HEAD CAP SCREW (RET. RING)
17	HEX. BOLT (GLAND PLUG)
18	KEY
19	GLAND PLUG
20	STUD (GLAND PLUG)
20.1	NUT (GLAND PLUG)
21	WASHER (GLAND PLUG)
22	ANTI-STATIC SPRING
23	ANTI-STATIC BALL
24	SPIRAL WOUND GASKET (BLIND PLUG)
25	LOWER BUSHING
26	WASHER (BRACKET)
27	BRACKET
28	HEX. BOLT (COMMAND)
29	WASHER (COMMAND)
30	COMMAND



VALVE DIMENSION

Dimensions are in mm, the data might change, S.I.V.I.T Srl reserves the right to make changes or technical improvements without prior notice.



ASME 150	DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	L1	100	105	125	150	165	185	215	240	285	300	340	380	410	495
	L2	165	175	180	210	245	260	290	335	370	400	470	500	570	650
	L3	25	25	25	30	30	40	45	45	60	60	75	75	90	100
ASME 300	DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	L1	110	125	150	160	180	195	235	260	300	330	370	400	445	525
	L2	170	180	195	220	260	280	300	345	380	425	500	530	590	660
	L3	25	25	25	30	30	40	45	45	60	60	75	75	90	120
ASME 600	DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	L1	120	140	165	180	215	220	260	300	335	390	415	450	490	565
	L2	185	200	215	240	280	300	325	370	400	460	525	560	600	675
	L3	35	35	35	40	40	50	60	60	75	75	90	90	120	150

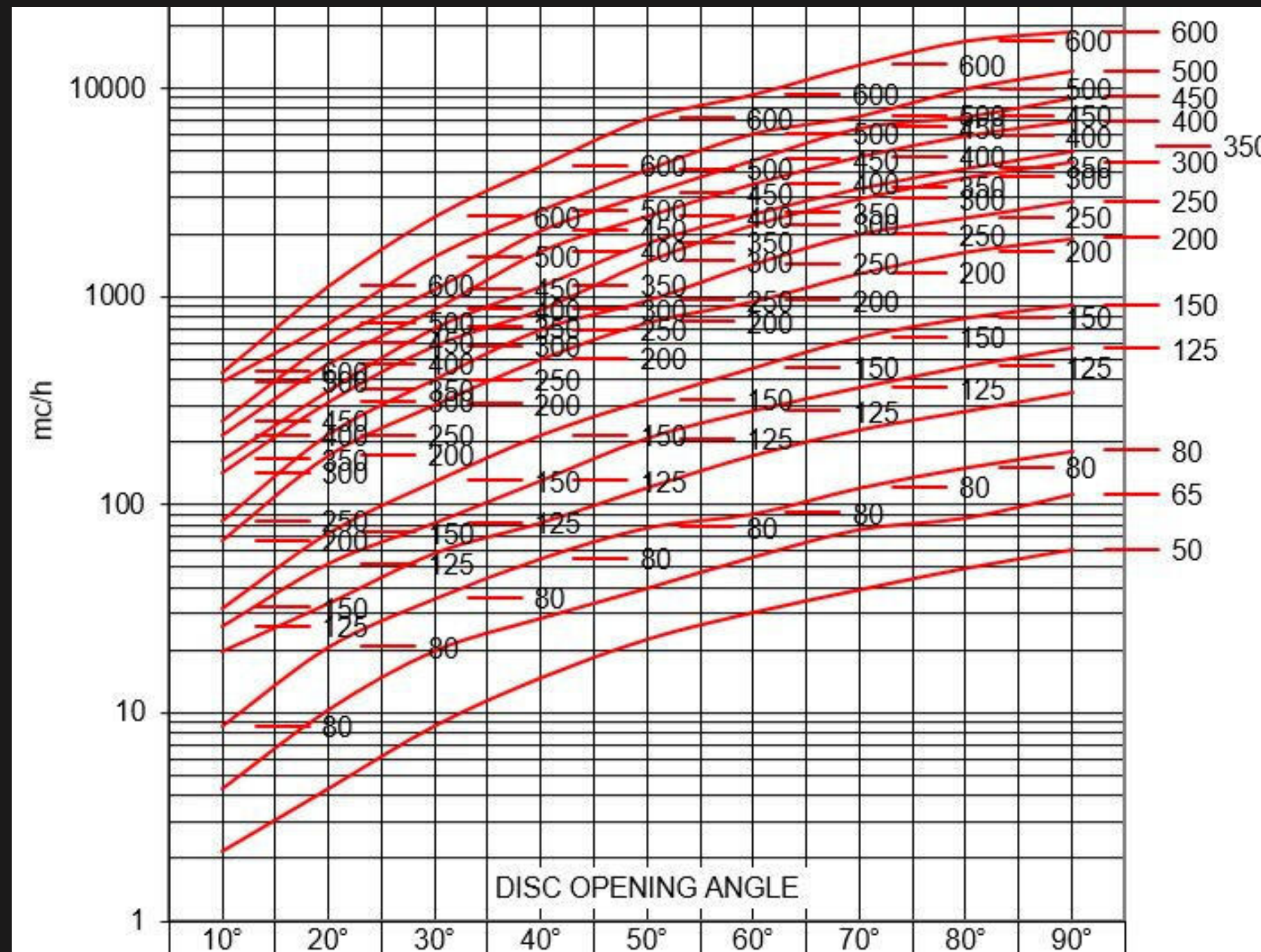
FLANGE BOLTING DIMENSION

PN 16	DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	FF	43	46	46	52	56	56	60	68	78	78	102	114	127	154
	ØL	125	145	160	180	210	240	295	355	410	470	525	585	650	770
	NxØ	4*Ø18	4*Ø18	4*Ø18	4*Ø18	4*Ø18	4*Ø22	4*Ø22	4*Ø26	4*Ø26	4*Ø26	4*Ø30	4*Ø30	4*Ø33	4*Ø33
	NxM	8*M16	8*M16	8*MM16	8*M16	8*M16	8*M20	12*M20	12*M24	12*M24	16*M24	16*M27	20*M27	20*M30	20*M33
PN25	DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	FF	43	46	48	54	59	59	73	83	92	117	133	149	159	181
	ØL	125	145	160	190	220	250	310	370	430	490	550	600	660	770
	NxØ	4*Ø18	4*Ø18	4*Ø18	4*Ø22	4*Ø26	4*Ø26	4*Ø26	4*Ø30	4*Ø30	4*Ø33	4*Ø36	4*Ø36	4*Ø36	4*Ø39
	NxM	4*M16	8*M16	8*M16	8*M20	8*M24	8*M24	12*M24	12*M27	16*M27	16*M30	16*M33	20*M33	20*M33	20*M36
PN 40	DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	FF	43	46	48	54	59	59	73	83	92	117	133	149	159	181
	ØL	125	145	160	190	220	250	320	385	450	510	585	610	670	795
	NxØ	4*Ø18	4*Ø18	4*Ø18	4*Ø22	4*Ø26	4*Ø26	4*Ø30	4*Ø33	4*Ø33	4*Ø36	4*Ø39	4*Ø39	4*Ø42	4*Ø48
	NxM	4*M16	8*M16	8*M16	8*M20	8*M24	8*M24	12*M27	12*M30	16*M30	16*M33	16*M36	20*M36	20*M39	20*M45
#150	DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	FF	43	46	48	54	57	57	64	71	81	92	102	114	127	154
	ØL	120,7	139,7	152,4	190,5	215,9	241,3	298,5	362	431,8	476,3	539,8	577,9	635	749,3
	NxØ	4*3/4"	4*3/4"	4*3/4"	4*3/4"	4*7/8"	4*7/8"	4*7/8"	4*1"	4*1"	4*1" 1/8	4*1"1/8	4*1"1/4	4*1"1/4	4*1"3/8
	NxM	4*5/8"	4*5/8"	4*5/8"	8*5/8"	8*3/4"	8*3/4"	8*3/4"	12*7/8"	12*7/8"	12*1"	16*1"	16*1"1/8	20*1"1/8	20*1"1/8
#300	DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	FF	43	46	48	54	59	59	73	83	92	117	133	149	159	181
	ØL	127	149,2	168,3	200	235	269,9	330,2	387,4	450,8	514,4	571,5	628,6	685,8	812,8
	NxØ	4*3/4"	4*7/8"	4*7/8"	4*7/8"	4*7/8"	4*7/8"	4*1"	4*1"1/8	4*1"1/4	4*1"1/4	4*1"3/8	4*1"3/8	4*1"3/8	4*1"5/8
	NxM	8*5/8"	8*3/4"	8*3/4"	8*3/4"	8*3/4"	12*3/4"	12*7/8"	16*1"	16*1"1/8	20*1"1/8	20*1"1/4	24*1"1/4	24*1"1/4	24*1"1/2

Kv VALUE

(PN16/ANSI150)

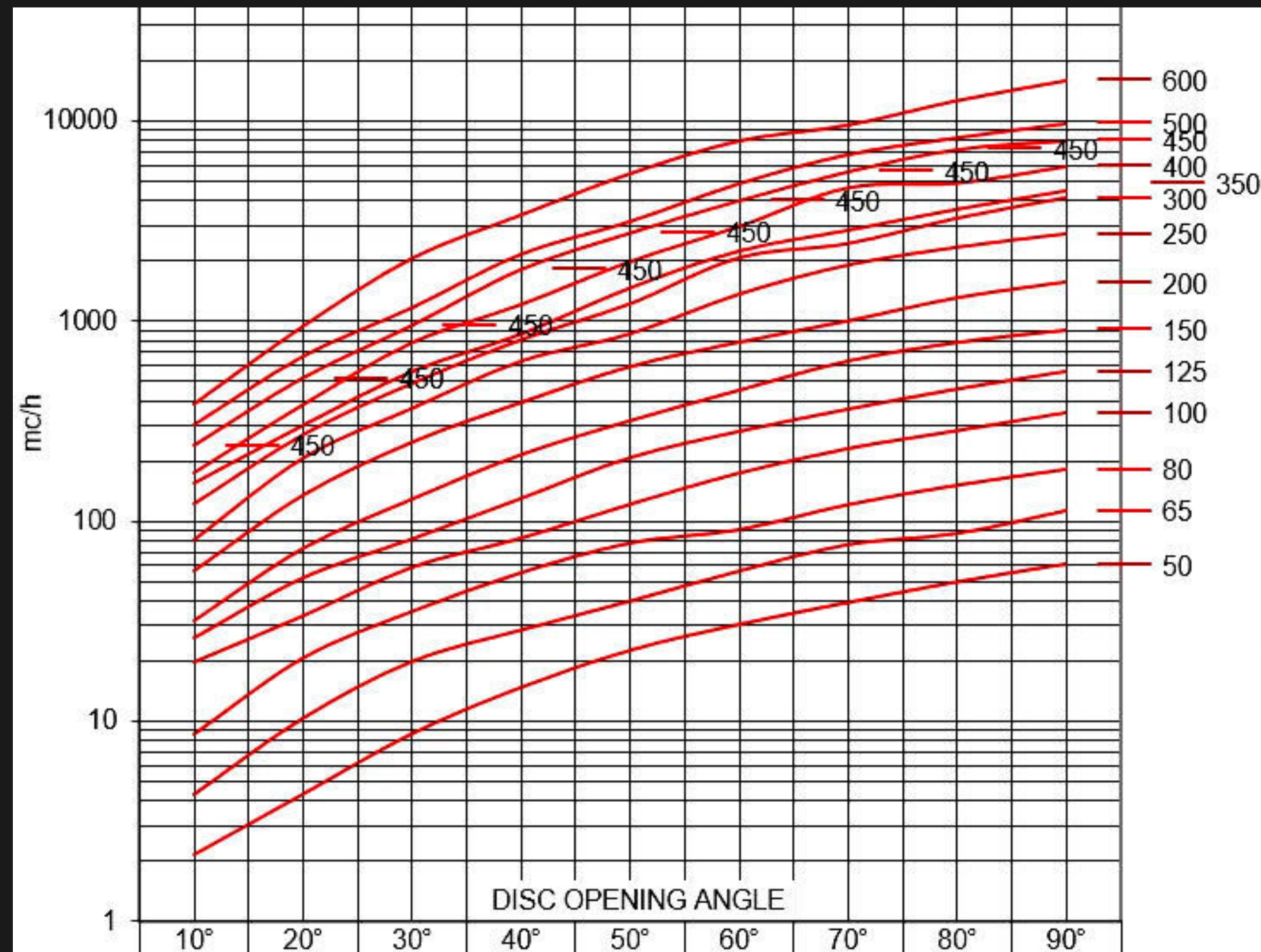
The flow factor "Kv" is defined as the flow of water, through a valve at temperatures between 5-40 ° C, in cubic meters per hour (m³ / h) at a pressure drop of 1 bar. This factor depends on the diameter of the valve, the shutter angle of aperture and its design.



	10°	20°	30°	40°	50°	60°	70°	80°	90°
50	2	4	9	15	22	30	39	49	61
65	4	10	20	29	40	56	76	87	112
80	9	21	35	55	78	91	121	151	182
100	20	34	59	82	121	173	229	281	346
125	26	52	81	130	208	281	363	458	562
150	32	74	130	216	320	454	636	787	908
200	67	173	303	502	753	952	1298	1644	1903
250	83	216	398	692	952	1427	1990	2379	2855
300	143	311	580	865	1471	2206	2941	3720	4412
350	164	355	709	1125	1817	2509	3330	4152	5017
400	216	476	865	1644	2422	3460	4671	5882	6920
450	251	597	1081	2076	3114	4541	6488	7353	9083
500	389	744	1557	2595	4066	6055	7353	9948	12110
600	433	1125	2422	4239	7180	9342	12975	16868	18684

Kv VALUE

(PN40/ANSI300)



The flow factor "Kv" is defined as the flow of water, through a valve at temperatures between 5-40 ° C, in cubic meters per hour (m³ / h) at a pressure drop of 1 bar. This factor depends on the diameter of the valve, the shutter angle of aperture and its design.

	10°	20°	30°	40°	50°	60°	70°	80°	90°
50	2	4	9	15	22	30	39	49	61
65	4	10	20	29	40	56	76	87	112
80	9	21	35	55	78	91	121	151	182
100	20	34	59	82	121	173	229	281	346
125	26	52	81	130	208	281	363	458	562
150	32	74	130	216	320	454	636	787	908
200	56	134	247	389	588	779	995	1298	1557
250	81	208	368	631	865	1362	1903	2336	2725
300	121	268	484	800	1211	2054	2422	3244	4109
350	156	303	562	865	1471	2249	2855	3633	4498
400	173	381	779	1211	1990	2984	4671	4931	5969
450	238	519	952	1817	2768	4022	5623	7266	8045
500	303	666	1168	2163	3157	4887	6834	8304	9775
600	389	952	2076	3417	5493	8001	9602	12716	16003

TORQUE

(PN16/ANSI150)

PN16/ANSI 150 (differential pressure in bar)													
VALVE SIZE		SOFT SEATED				FIRE SAFE DESIGNED				METAL SEATED			
INCH	MM	$\Delta p=5$	$\Delta p=1$ 0	$\Delta p=1$ 5	$\Delta p=2$ 0	$\Delta p=5$	$\Delta p=1$ 0	$\Delta p=1$ 5	$\Delta p=2$ 0	$\Delta p=5$	$\Delta p=1$ 0	$\Delta p=1$ 5	$\Delta p=2$ 0
2"	50	27	30	32	33	43	46	47	48	53	59	60	61
2½"	65	29	31	33	36	45	48	49	50	58	61	62	64
3"	80	30	33	35	41	48	50	51	53	61	64	66	67
4"	100	37	44	50	59	65	71	74	77	82	90	94	97
5"	125	52	59	64	83	77	89	91	97	87	109	116	123
6"	150	62	77	90	97	94	100	106	114	120	127	135	146
8"	200	96	135	142	164	144	159	176	194	184	202	224	247
10"	250	157	199	239	277	211	247	290	323	269	314	370	411
12"	300	217	284	351	418	265	341	416	500	336	433	531	635
14"	350	327	424	541	687	470	617	763	911	598	784	971	1158
16"	400	444	604	769	1009	587	822	969	1145	747	1046	1233	1457
18"	450	613	822	1007	1308	822	1057	1291	1585	1046	1345	1644	2017
20"	500	784	1238	1345	1879	939	1233	1585	1937	1366	1793	2305	2818
24"	600	1366	1879	2348	2818	1699	2220	2764	3330	2092	2732	3373	4099

The torque values in the above table are in Nm.

TORQUE

(PN40/ANSI300)

PN40/ANSI 300 (differential pressure in bar)													
VALVE SIZE		SOFT SEATED				FIRE SAFE DESIGNED				METAL SEATED			
INCH	MM	$\Delta p=2.5$	$\Delta p=3.5$	$\Delta p=4.0$	$\Delta p=5.1$	$\Delta p=2.5$	$\Delta p=3.5$	$\Delta p=4.0$	$\Delta p=5.1$	$\Delta p=2.5$	$\Delta p=3.5$	$\Delta p=4.0$	$\Delta p=5.1$
2"	50	42	43	44	45	54	57	58	59	68	71	73	74
2½"	65	43	45	46	47	57	59	60	62	71	74	75	79
3"	80	46	49	50	52	61	63	64	71	77	79	80	89
4"	100	68	72	75	82	90	96	106	112	112	121	132	140
5"	125	90	97	105	116	115	125	131	141	144	153	164	176
6"	150	116	127	135	142	141	150	160	173	176	188	201	217
8"	200	184	199	215	232	237	256	275	288	297	320	345	361
10"	250	329	366	389	433	410	442	468	500	512	553	585	624
12"	300	508	568	613	657	769	833	929	1089	961	1041	1161	1361
14"	350	961	1161	1201	1321	1249	1388	1596	1734	1441	1601	1841	2001
16"	400	1321	1441	1601	1761	1734	2012	2289	2428	2001	2321	2642	2802
18"	450	1608	1921	2081	2241	2359	2740	3122	3435	2722	3163	3605	3963
20"	500	2348	2519	2775	2989	3138	3736	4259	4632	2810	4536	5171	5625
24"	600	3415	3842	4227	4525	4483	5379	6052	6724	5443	6532	7249	8165

The torque values in the above table are in Nm.

TRIPLE OFFSET



TRIPLE OFFSET WORKING PRINCIPLES

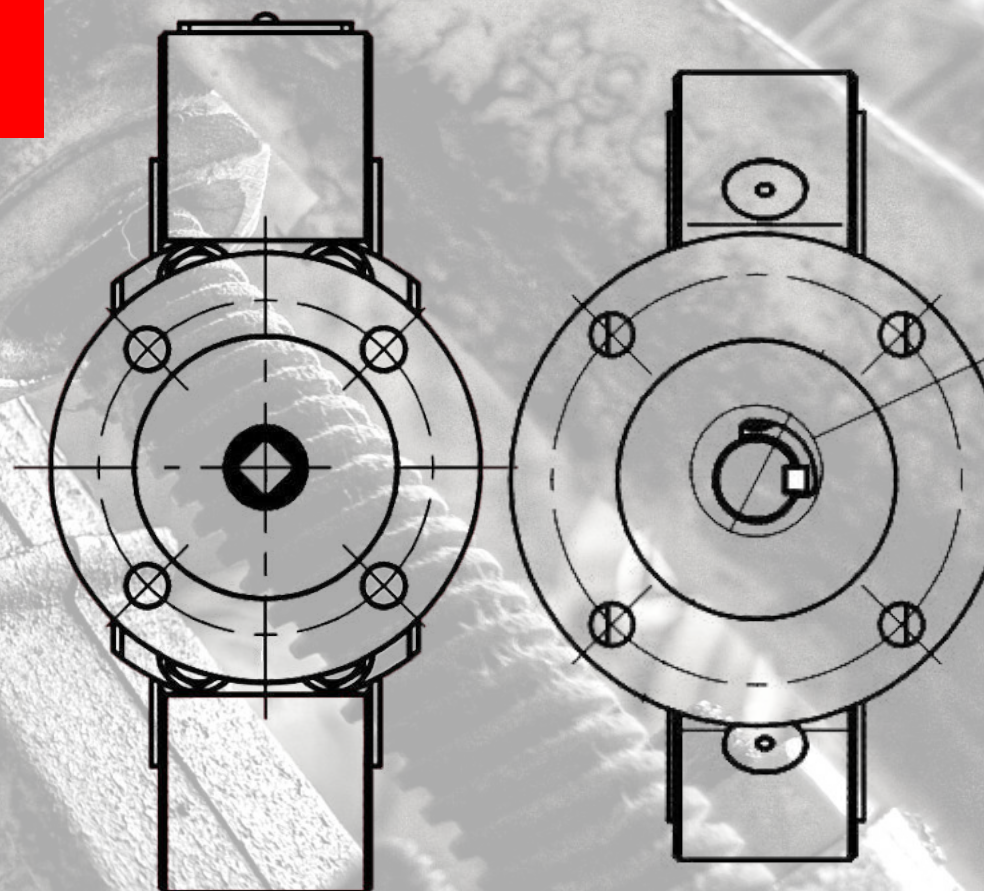
Class Ansi 150/300 PN16/25/40

The center of rotation is offset from the sealing surface, from the central axis of the valve and also a third eccentricity due to the sealing seat elliptical conic section whose axis is inclined with respect to the pipe axis, this allows to have a good interference in the closing phase chafing or risks of bonding and the use of materials resistant to high temperatures.

Triple off set butterfly valve mainly used for heavy duty application where a metal on metal seat is required.

TOP MOUNTING

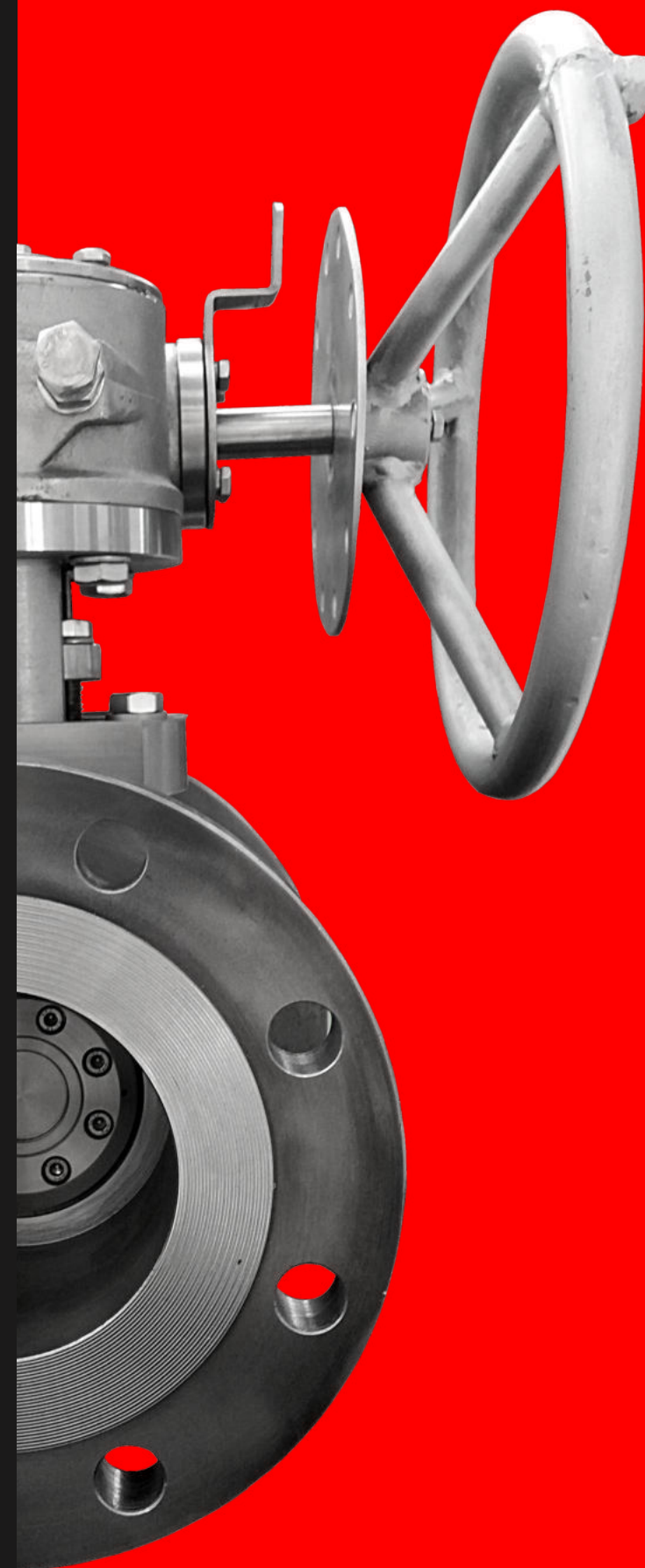
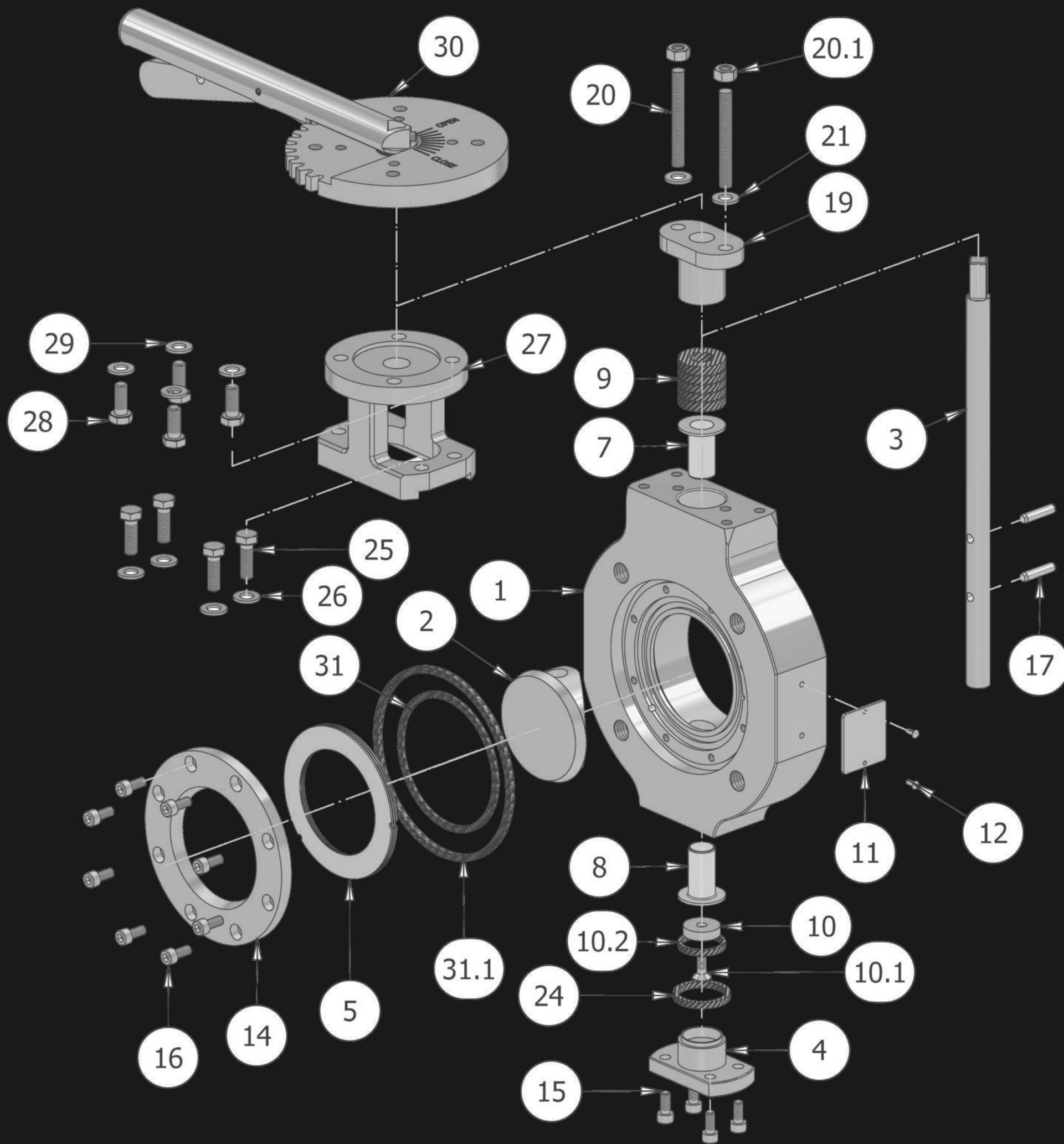
Shaft finished depending on the requirements of implementing, on request may be made different than those shown above. Flanges in accordance with ISO 5211



WE MANUFACTURE

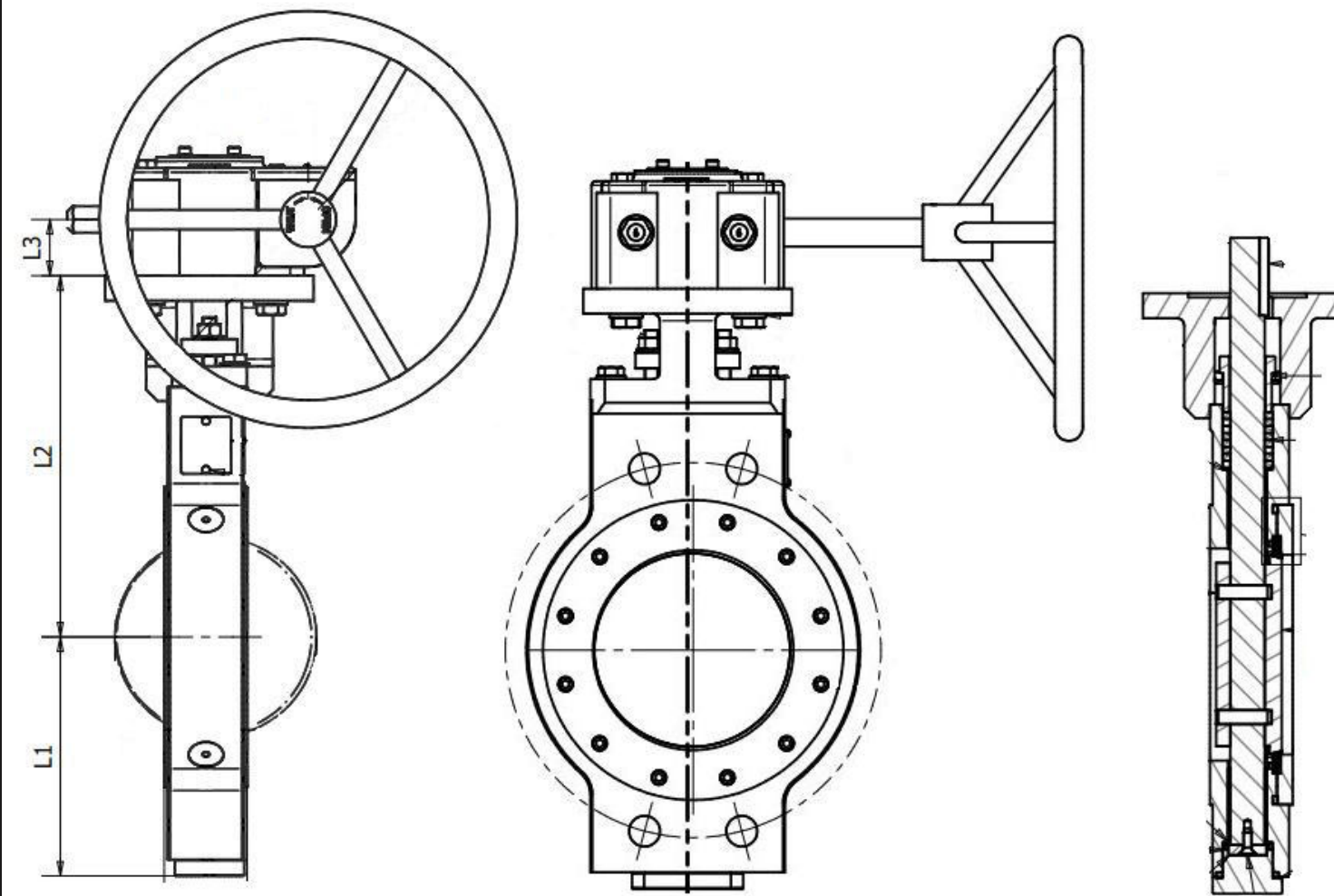


TRIPLE OFFSET



PARTS LIST	
POS.	DESCRIPTION
1	BODY
2	DISC
3	STEM
4	BLINDPLUG
5	LAMELLAR SEAT
7	UPPER BUSHING
8	LOWER BUSHING
9	UPPER PACKING
10	ANTIBLOWOUT
10.1	SCREW (ANTIBLOWOUT)
10.2	SPIRAL WOUND GASKET (ANTIBLOWOUT)
11	ID PLATE
12	RIVET
14	RETAINING RING
15	SOCKET HEAD CAP SCREW (BLIND PLUG)
16	SOCKET HEAD CAP SCREW (RET. RING)
17	PIN (DISC/STEM)
19	GLANDPLUG
20	STUD (GLAND PLUG)
20.1	HEX. NUT (GLAND PLUG)
21	WASHER (GLAND PLUG)
24	SPIRAL WOUND GASKET (BLIND PLUG)
25	HEX. BOLT (BRACKET)
26	WASHER (BRACKET)
27	BRACKET
28	HEX. BOLT (COMMAND)
29	WASHER (COMMAND)
30	HAND LEVER
31	SPIRAL WOUND GASKET (SEAT)
31.1	SPIRAL WOUND GASKET (RET. RING)

VALVE DIMENSION

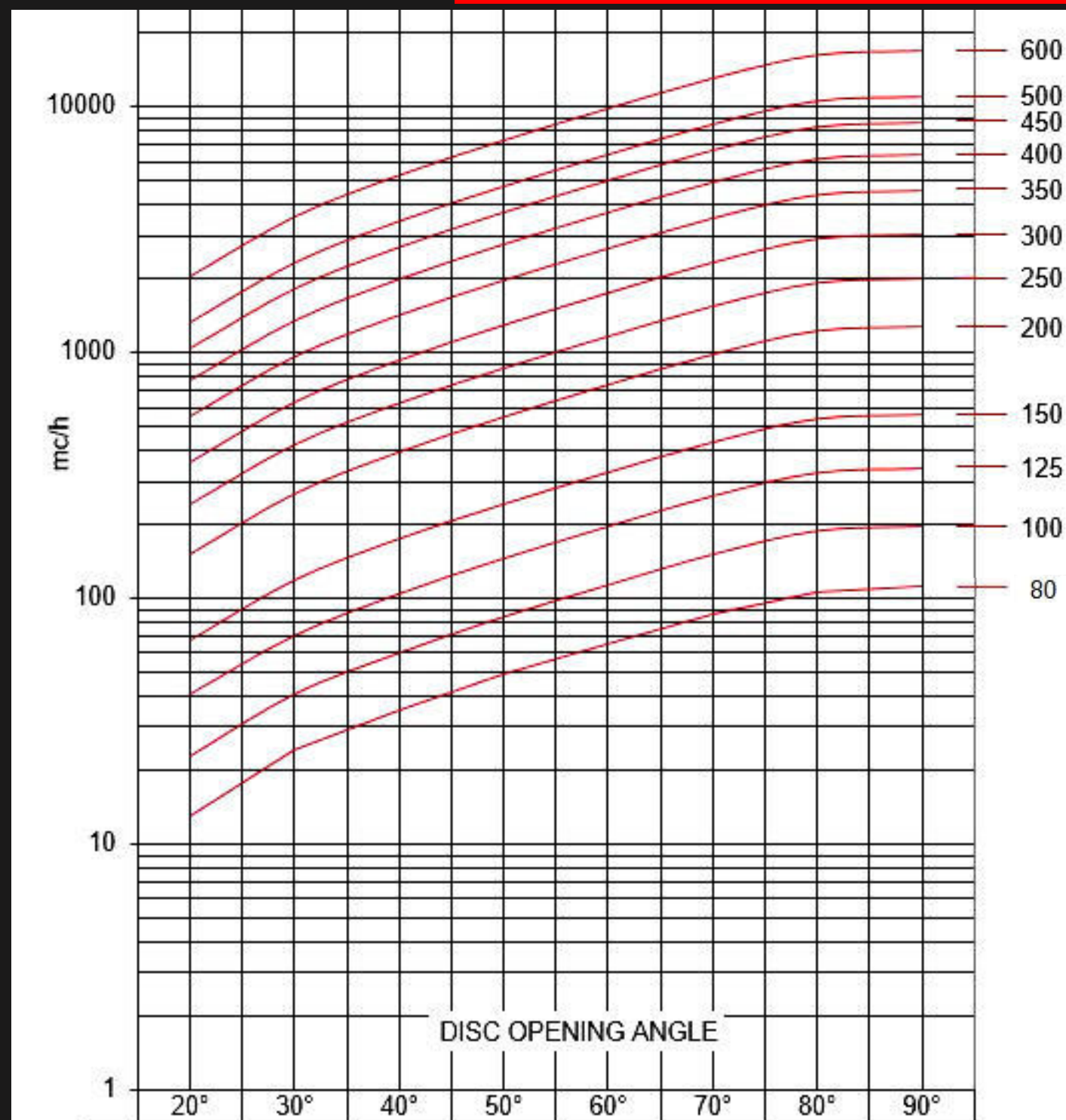


DN	80	100	125	150	200	250	300	350	400	450	500	600
L1	125	150	165	185	215	240	285	300	340	380	410	495
L2	180	210	245	260	290	335	370	400	470	500	570	650
L3	25	30	30	40	45	45	60	60	75	75	90	100
DN	80	100	125	150	200	250	300	350	400	450	500	600
L1	150	160	180	195	235	260	300	330	370	400	445	525
L2	195	220	260	280	300	345	380	425	500	530	590	660
L3	25	30	30	40	45	45	60	60	75	75	90	120
DN	80	100	125	150	200	250	300	350	400	450	500	600
L1	165	180	215	220	260	300	335	390	415	450	490	565
L2	215	240	280	300	325	370	400	460	525	560	600	675
L3	35	40	40	50	60	60	75	75	90	90	120	150

FLANGE BOLTING DIMENSION

PN 25	DN	80	100	125	150	200	250	300	350	400	450	500	600
	FF	48	54	59	59	73	83	92	117	133	149	159	181
	ØL	160	190	220	250	310	370	430	490	550	600	660	770
	NxØ	4*Ø18	4*Ø22	4*Ø26	4*Ø26	4*Ø26	4*Ø30	4*Ø30	4*Ø33	4*Ø36	4*Ø36	4*Ø36	4*Ø39
	NxM	8*M16	8*M20	8*M24	8*M24	12*M24	12*M37	16*M27	16*M30	16*M33	20*M33	20*M33	20*M36
PN 40	DN	80	100	125	150	200	250	300	350	400	450	500	600
	FF	48	54	59	59	73	83	92	117	133	149	159	181
	ØL	160	190	220	250	320	385	450	510	585	610	670	795
	NxØ	4*Ø18	4*Ø22	4*Ø26	4*Ø26	4*Ø30	4*Ø33	4*Ø33	4*Ø36	4*Ø39	4*Ø39	4*Ø42	4*Ø48
	NxM	8*M16	8*M20	8*M24	8*M24	12*M27	12*M30	16*M30	16*M33	16*M36	20*M36	20*M39	20*M45
#150	DN	80	100	125	150	200	250	300	350	400	450	500	600
	FF	48	54	57	57	64	71	81	92	102	114	127	154
	ØL	152,4	190,5	215,9	241,3	298,5	362	431,8	476,3	539,8	577,9	635	749,3
	NxØ	4*3/4"	4*3/4"	4*7/8"	4*7/8"	4*7/8"	4*1"	4*1"	4*1" 1/8	4*1"1/8	4*1"1/4	4*1"1/4	4*1"3/8
	NxM	4*5/8"	8*5/8"	8*3/4"	8*3/4"	8*3/4"	12*7/8"	12*7/8"	12*1"	16*1"	16*1"1/8	20*1"1/8	20*1"1/8
#300	DN	80	100	125	150	200	250	300	350	400	450	500	600
	FF	48	54	59	59	73	83	92	117	133	149	159	181
	ØL	168,3	200	235	269,9	330,2	387,4	450,8	514,4	571,5	628,6	685,8	812,8
	NxØ	4*7/8"	4*7/8"	4*7/8"	4*7/8"	4*1"	4*1"1/8	4*1"1/4	4*1"1/4	4*1"3/8	4*1"3/8	4*1"3/8	4*1"5/8
	NxM	8*3/4"	8*3/4"	8*3/4"	12*3/4"	12*7/8"	16*1"	16*1"1/8	20*1"1/8	20*1"1/4	24*1"1/4	24*1"1/4	24*1"1/2
#600	DN	80	100	125	150	200	250	300	350	400	450	500	600
	FF	54	64	78	78	102	117	140	155	178	200	216	232
	ØL	168,3	215,9	266,7	291,1	349,2	431,8	489	527	603,2	654	723,9	838,2
	NxØ	4*Ø7/8"	4*1"	4*1"1/8	4*1"1/8	4*1"1/4	4*1"3/8	4*1"3/8	4*1"1/2	4*1"5/8	4*1"3/4	4-1"3/4	4*2"
	NxM	8*3/4"	8*7/8"	8*1"	12*1"	12*1"1/8	16*1"1/4	20*1"1/4	20*1"3/8	20*1"1/2	20*1"5/8	24*1"5/8	24*1"7/8

Kv VALUE (m³/h)



The flow factor "Kv" is defined as the flow of water, through a valve at temperatures between 5-40 ° C, in cubic meters per hour (m³ / h) at a pressure drop of 1 bar. This factor depends on the diameter of the valve, the shutter angle of aperture and its design.

	20°	30°	40°	50°	60°	70°	80°	90°
80	13	24	35	49	65	86	107	112
100	23	41	60	84	113	150	187	195
125	41	71	105	146	197	262	326	340
150	67	118	174	241	325	431	538	560
200	152	267	394	546	737	978	1219	1270
250	240	420	620	860	1160	1540	1920	2000
300	360	630	930	1290	1740	2310	2880	3000
350	552	966	1426	1978	2668	3542	4416	4600
400	768	1344	1984	2752	3712	4928	6144	6400
450	1044	1827	2697	3741	5046	6699	8352	8700
500	1320	2310	3410	4730	6380	8470	10560	11000
600	2040	3570	5270	7310	9860	13090	16320	17000

TORQUE

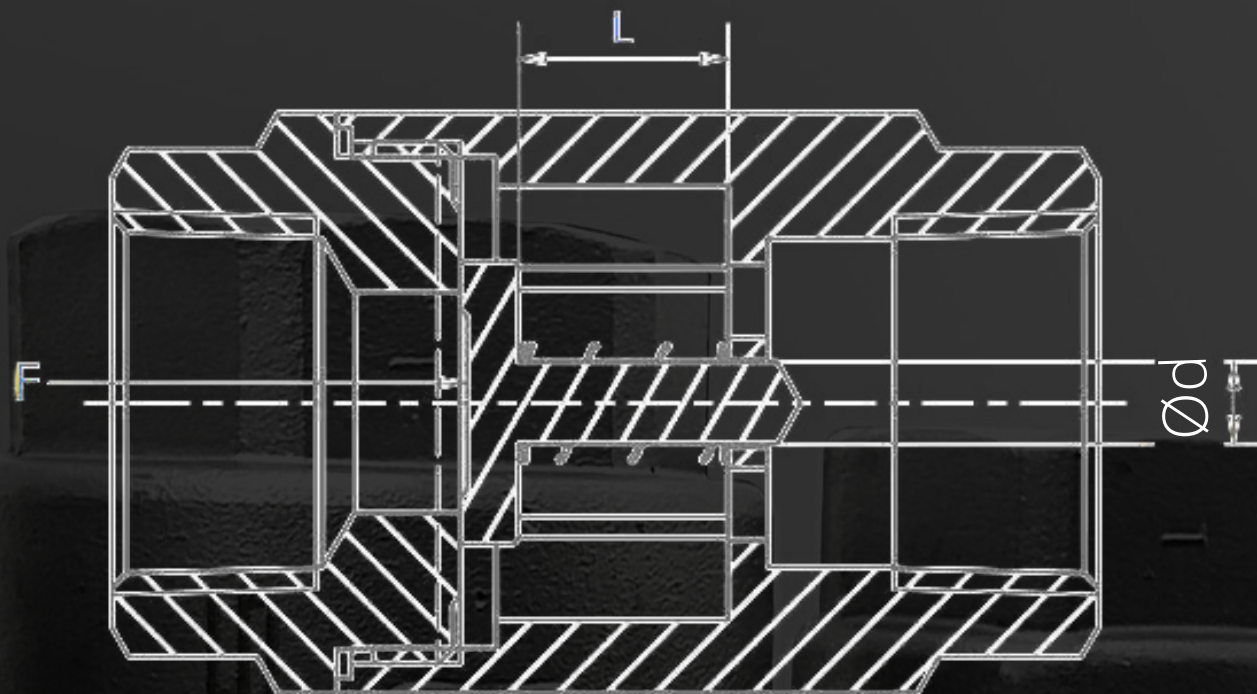
DN	Max. differential pressure Δp in bar for butterfly valve in closed position								
	10	16	20	25	30	35	40	45	50
80	47	70	85	102	121	140	157	176	193
100	79	114	137	165	194	223	251	280	309
125	132	185	221	266	311	355	400	445	490
150	274	373	439	521	603	685	768	850	932
200	290	464	580	725	870	1015	1160	1305	1450
250	488	750	925	1144	1363	1581	1800	2019	2238
300	795	1107	1315	1575	1835	2095	2355	2615	2875
350	1286	1817	2171	2614	3057	3500	3943	4386	4829
400	1450	2230	2750	3400	4050	4700	5350	6000	6650

The torque values in the above table are in Nm.

GENERAL INFORMATION

Class PN 64

- New design
- High operating pressure
- Minimum F/F dimension
- Improved strenght
- Easy maintenance
- Connection NPT GAS



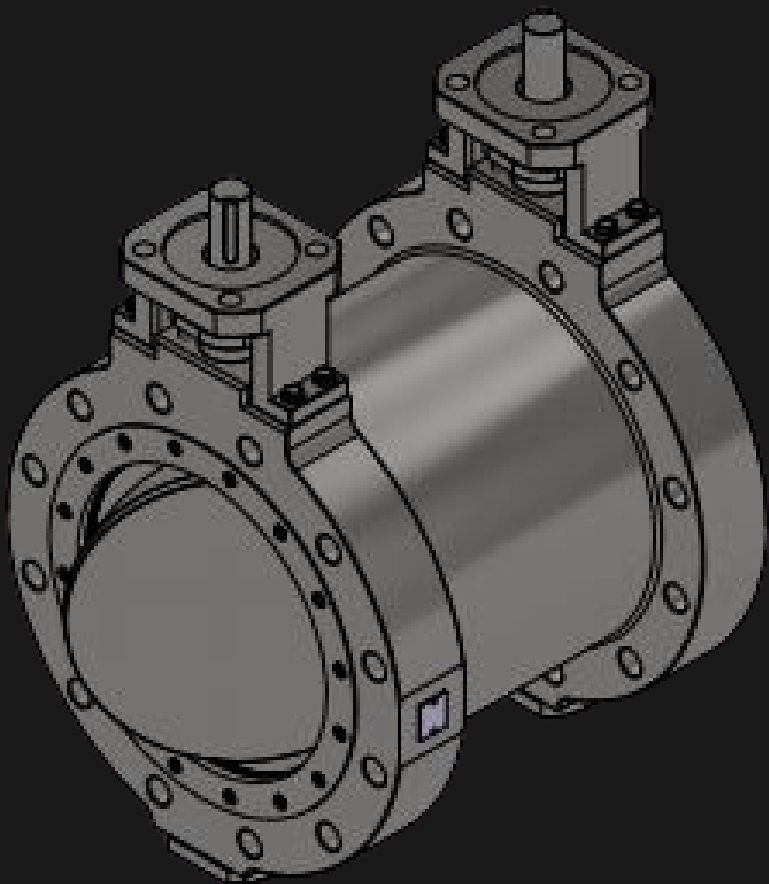
PN 64	DN	15	20	25	32	40
	L (mm)	11,5	14,5	15,5	22	26
	Ød (mm)	5,7	5,7	7	9	11
	F (N)	1	1,5	2,5	4,5	7

NON-RETURN VALVE



Non-return valve with screwed end connection; valve design with spring for installation in any position. Metal-to-metal seat. Application for liquids, gases and vapours (observe PED classification).

DOUBLE BLOCK AND BLEED



It includes options for high-pressure, critical processes, which are all manufactured in accordance with ASME standards.

GENERAL INFORMATION

Class Ansi 150/300

Double Block and Bleed Butterfly Valves consists of two sets of triple offset butterfly valve components arranged in series, within a single integral valve body, to provide an inline separation cavity when both valves are in the closed position.

ASME 150	DN	80	100	125	150	200	250	300	350	400
	L1	150	160	180	195	235	260	300	330	370
	L2	195	220	260	280	300	345	380	425	500
	L3	25	30	30	40	45	45	60	60	75
	FF	203	229	267	267	292	330	356	381	406
ASME 300	DN	80	100	125	150	200	250	300	350	400
	L1	165	180	215	220	260	300	335	390	415
	L2	215	240	280	300	325	370	400	460	525
	L3	35	40	40	50	60	60	75	75	90
	FF	282	305	403	403	418	457	502	762	838



WE
MANUFACTURE

Testing



S.I.V.I.T. subjects all its products (also those marketed on request) to internal tests using equipment such as:



ITALCONTROL TEST BENCH

Certified as suitable to test valves up to class 900 depending on the diameter.



LASER MARKING MACHINE

It serves to mark all the details of the valves, detailing the drawing number, type of material, casting, etc



HEXAGON MEASURING ARM

By which it is possible to measure the various parts of the valve to an accuracy of millimetre hundredths.





On request we subject our products to even more stringent tests (e.g. Fire safe) than those required by standard norms, in order to satisfy the client's requests.



With the aim to work in high quality from materials up to the Certification, hereafter our Certificates List:

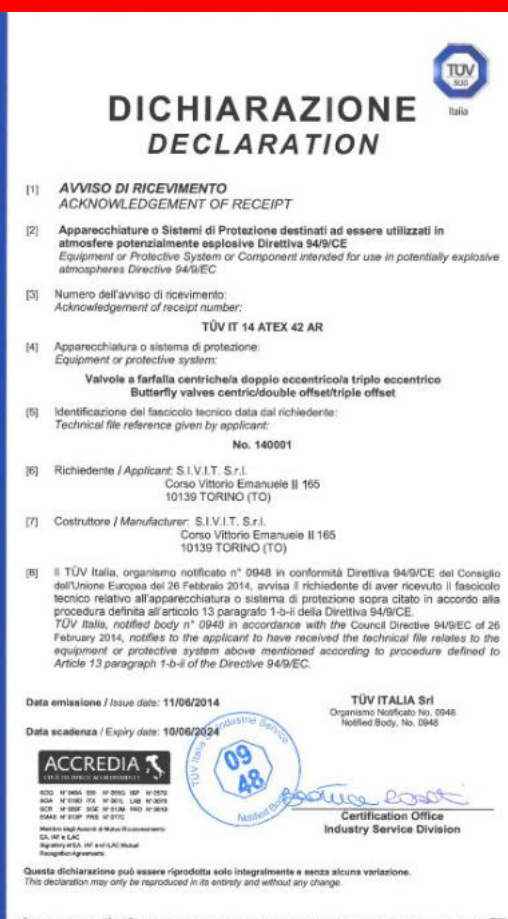
P.E.D. CERTIFICATE

UNI EN ISO 9001:2015

ATEX

FIRE SAFE API 607

FUGITIVE EMISSION





DN 100
BODY/DISC :
ASTM A350 LF2

DN 200
BODY/DISC :
ASTM A182 F316L

DN 200
BODY/DISC :
ASTM A350 LF2

ABS Group

Certificate no.:
REP 60-157-2020-IT

Project no:
FIRESAFE

Report date:
22/09/2020

Office:
Dalmine, Italy

Independent Third Party Inspection Certificate

Manufacturer identification		
Sede Legale / Unità Operativa Head Office / Plant Via Giuseppe Cavallo, 18 – 10078 Venaria Reale (TO)		
Product identification		
Type:	Valve type: SX	
Description	DOUBLE OFFSET BUTTERFLY VALVE - LUG TYPE DN100 ASME150 dwg SX0100015L	
Scope of Certification	Prototype test with reference to the requirements of FIRE SAFE ISO 10497:2010 / API 607	
Reference standard	Test	Result
ISO 10497 Ed. 07/10/2010 API 6D Ed. XXIV, 2014 API 607 Ed. VII, 2016 API 6FA Ed. IV, 2018 RSLA240F1	Fire safe test on double offset butterfly valve as per Type	SATISFACTORY
Test location:	S.I.V.I.T. S.r.l.	
Packing Material and sealing Configuration	Body/Terminal Material: ASTM A 350 LF2 Disc Material: ASTM A 350 LF2 Stem/shaft material: 17-4PH Seat Material: PTFE Retaining ring: ASTM A 350 LF2	
Examination result:	According with the above documents and requirements within specified; Fire Safe Test has been conducted with satisfactory on DOUBLE OFFSET BUTTERFLY DN200 ASME150 Figure qualified: valves DN 100-125-150 Class 150, 300 UNI PN10, PN16, PN25, PN40	
Test Report No.:	FIRE TEST REPORT N 200056.3 / 200056.3-2 bi-directional test in according to ISO 10497 point 4.1.2	
Test Procedure:	ISO 10497 Ed. 07/10/2010 API 6D Ed. XXIV, 2014 API 607 Ed. VII, 2016 API 6FA Ed. IV, 2018	

Statement prepared and submitted without prejudice by:

Antonio Borraccino
Technical Representative
ABS Group LTD

ABS Group EOP House The Regency Warrington Road, Birchwood Warrington Cheshire WA9 9JZ United Kingdom Tel: 44 (0)20-2073000 Email: info@absinspect.com or Technical.Representative@absinspect.com Via Monte Pascolo 5, Dalmine (BG) CAP 24044 – Italy Office Tel: +39 035 4171459
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Form IS-2
Reporting: SIZ-102-99-P04



ABS Group

Certificate no.:
REP 60-154-2020-IT

FIRESAFE
FIRESAFE

Project date:
21/09/2020

Office:
Daimline, Italy

Independent Third Party Inspection Certificate

Manufacturer identification		
Sede Legale / Unità Operativa Head Office / Plant Via Giuseppe Cavallo, 18 – 10078 Venaria Reale (TO)		
Product identification		
Type:	Valve type: SX	
Description	DOUBLE OFFSET BUTTERFLY VALVE - LUG TYPE DN200 ASME150 dwg SX0200015L	
Scope of Certification	Prototype test with reference to the requirements of FIRE SAFE ISO 10497:2010 / API 607	
Reference standard	Test	Result
ISO 10497 Ed. 07/10/2010 API 6D Ed. XXIV, 2014 API 607 Ed. VII, 2016 API 6FA Ed. IV, 2018 RSLAA200F1	Fire safe test on double offset butterfly valve as per type	SATISFACTORY
Test location:	S.I.V.I.T. S.r.l. Body/Terminal Material: ASTM A 182 F316L Disc Material: ASTM A 182 F316L Stem/shaft material: XM-19 Seat Material: PTFE Retaining ring: ASTM A 182 F316L	
Packing Material and sealing Configuration	According with the above documents and requirements within specified; Fire Safe Test has been conducted with satisfactory on DOUBLE OFFSET BUTTERFLY DN200 ASME150 Figure qualified: valves DN 200 and larger Class ISO 150, 300 UNI PN10, PN16, PN25, PN40	
Examination result:	FIRE TEST REPORT N° 200057.3 / 200057.3-2 bi-directional test in accordance to ISO 10497 Point 4.1.2	
Test Report No.:	ISO 10497 Ed. 07/10/2010 API 6D Ed. XXIV, 2014 API 607 Ed. VII, 2016 API 6FA Ed. IV, 2018	
Test Procedure:		

Statement prepared and submitted without prejudice by:

Antonio Borracone
Technical Representative
ABS Group LTD



ABS Group 50F House The Racine Winghorn Road, Birchwood Warrington Cheshire WA3 5BW United Kingdom Tel: 44 1825 287300 Email: abs@absfire.com / technical@absfire.com / fire@absfire.com
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 Form IS-2
 Register: SIZ 102-99-004

ABS Group

Certificate no.:
REP 60-155-2020-IT

Project no.
FIRESAFE

Report date:
21/09/2020

Office:
Dalmine, Italy

Independent Third Party Inspection Certificate

Manufacturer identification		
Sede Legale / Unità Operativa Head Office / Plant	S.I.V.I.T. S.r.l. Via Giuseppe Cavallo, 18 – 10078 Venaria Reale (TO)	
Product identification		
Type:	Valve type: SX	
Description	DOUBLE OFFSET BUTTERFLY VALVE - LUG TYPE DN200 ASME150 dwg SX020001SL	
Scope of Certification	Prototype test with reference to the requirements of FIRE SAFE ISO 10497:2010 / API 607	
Reference standard	Test	Result
ISO 10497 Ed. 07/10/2010 API 6D Ed. XXIV, 2014 API 607 Ed. VII, 2016 API 6FA Ed. IV, 2018 RSLAA2A0F1	Fire safe test on double offset butterfly valve as per Type	SATISFACTORY
Test location:	S.I.V.I.T. S.r.l.	
Packing Material and sealing Configuration	Body/Terminal Material: ASTM A 350 LF2 Disc Material: ASTM A 350 LF2 Stem/shaft material: 17-4PH Seal Material: PTFE Retaining ring: ASTM A 350 LF2	
Examination result:	According to the above documents and requirements within specified: Fire Safe Test has been conducted with satisfactory on DOUBLE OFFSET BUTTERFLY DN200 ASME150 Figure qualified: valves DN 200 and larger Class 150, 300 UNI PN10, PN16, PN25, PN40	
Test Report No.:	FIRE TEST REPORT N 200056.3 / 200056.3-2 bi-directional test in according to ISO 10497 Point 4.1.2	
Test Procedure:	ISO 10497 Ed. 07/10/2010 API 6D Ed. XXIV, 2014 API 607 Ed. VII, 2016 API 6FA Ed. IV, 2018	

Statement prepared and submitted without prejudice by:

Antonio Boraccino
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Form IS-2
Reporting: SZL 102-99-PDA



S.I.V.I.T. puts at your disposal a team of specialists ready to advise and support you in decisions with passion and professionalism.



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*Thanks
for your attention!*