

OMEAX

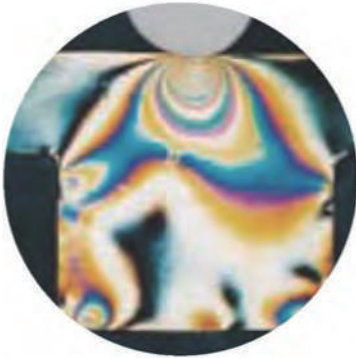
Specialist in industrial valves

Centric butterfly valve

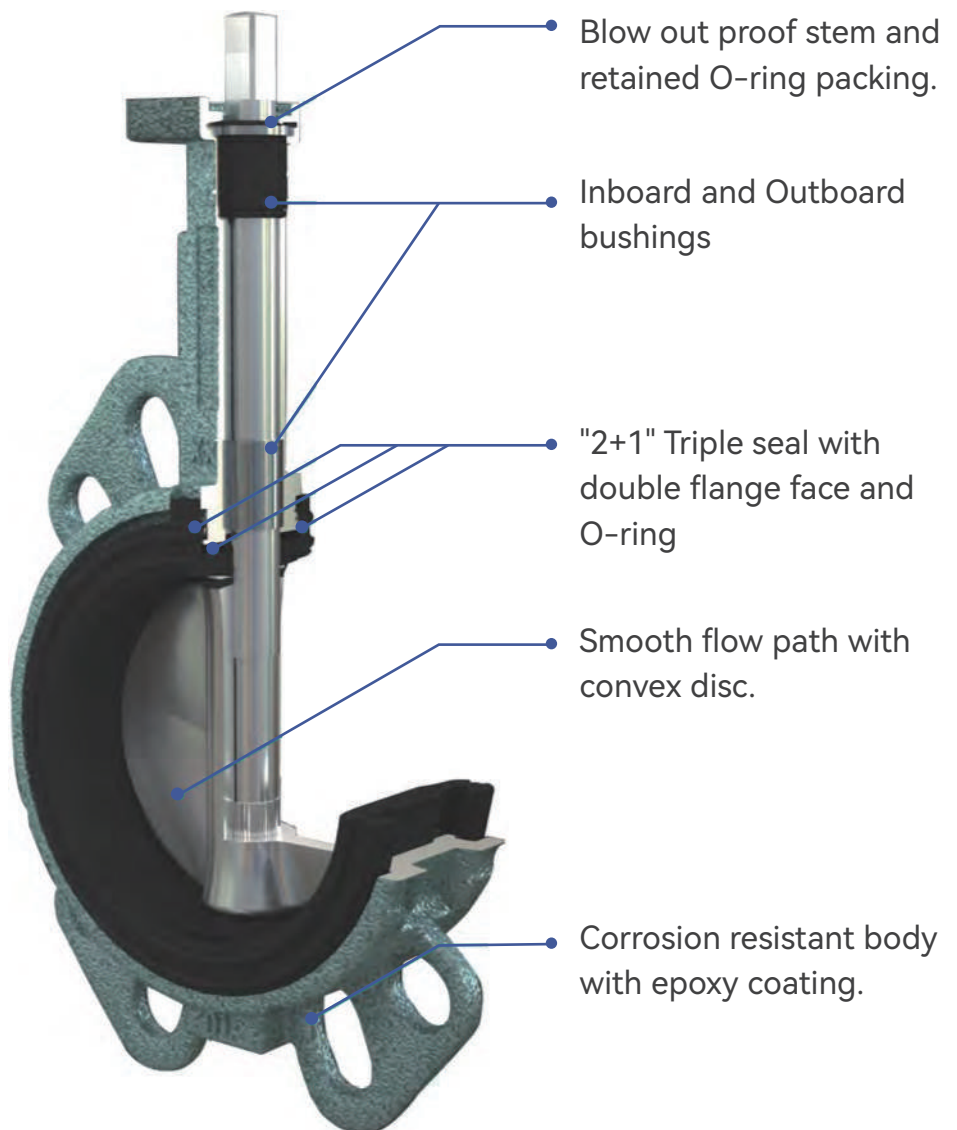
Mercure (R series)



Presentation



Triple seat retention
anti-extrusion
with tongue and groove at
flange face and
additional central body
support
maximizing seat stability



STEM TO DISC CONNECTIONS



Splined NPS1 $\frac{1}{4}$ -NPS8



Square NPS10-NPS12



Multi Faceted NPS14 and above

Presentation

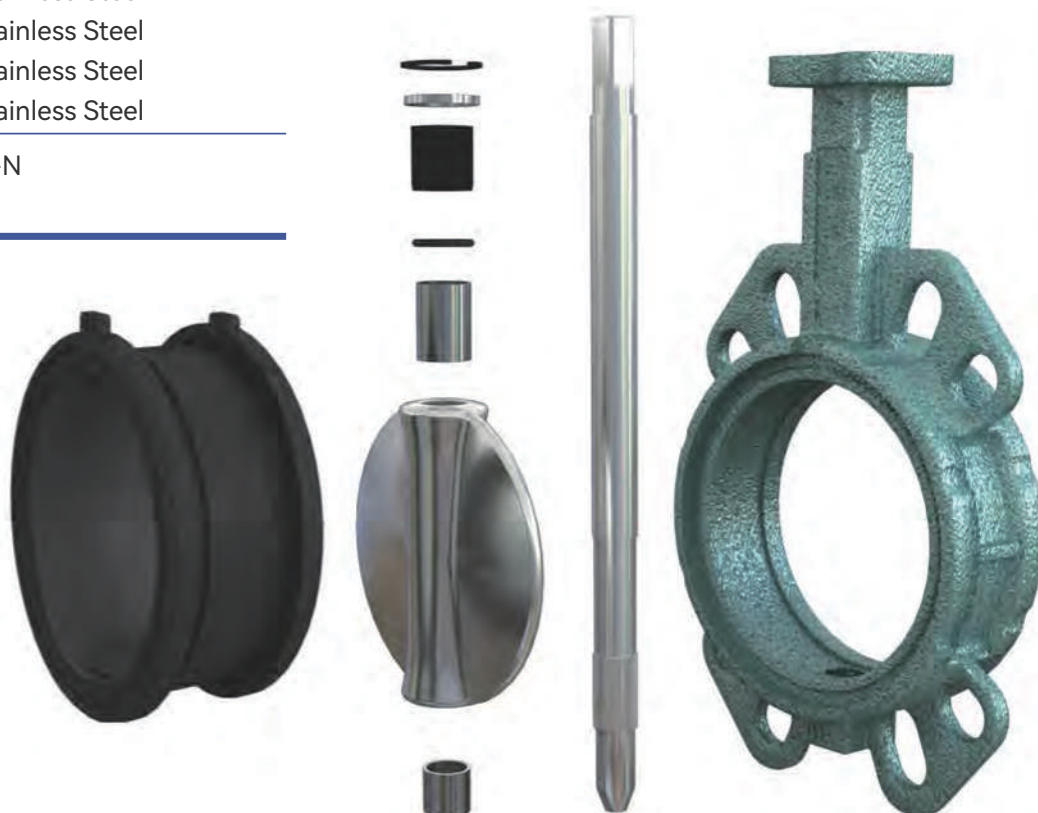
STANDARD MATERIALS SELECTION

NAME	MATERIAL
Body	Cast Iron Ductile Iron
Disc	Epoxy Coated Ductile Iron 316 Stainless Steel 304 Stainless Steel Duplex Stainless Steel Super Duplex Stainless Steel Aluminum Bronze
Stem	416 Stainless Steel 420 Stainless Steel 304 Stainless Steel 316 Stainless Steel
Seat	BUNA-N EPDM

PRESSURE RATINGS

BIDIRECTIONAL BUBBLE-TIGHT SHUT OFF DEAD-END SERVICE

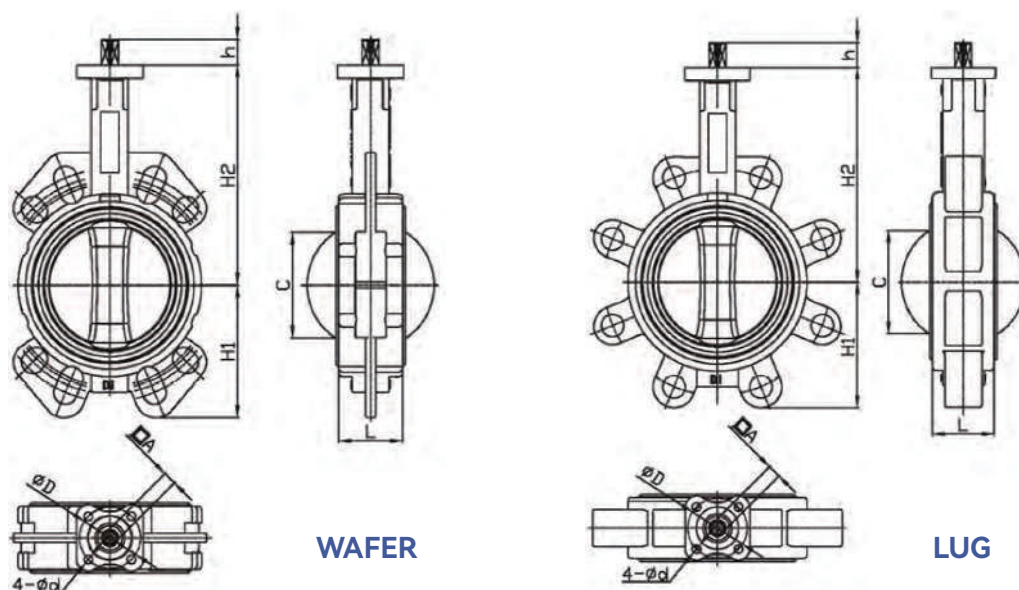
NPS1¼-NPS72(DN32-DN1800)	250psi(17.2Bar)
NPS80-NPS96(DN2000-DN2400)	150psi(10.3Bar)



DESIGN STANDARD

Design Standard	ISO 10631 GB/T 12238 API 609 BS EN593 DIN 3345 JIS B2032
Face to Face	ISO 5752 GB/T 12221 ASME B16.10 BS EN558-1 DIN 3032 JIS B2002
Flange Standard	ISO 7005 GB/T 17214 ASME B16.1 ASME B16.5 BS EN1092 GB/T 9113 DIN 2501 JIS 2211-2212
Top Flange	ISO 5211 GB/T 12223
Pressure Test	ISO 5208 GB/T 13927 API 598 BS EN 12266 DIN 17480 JIS B2003

Presentation



WAFFER

LUG

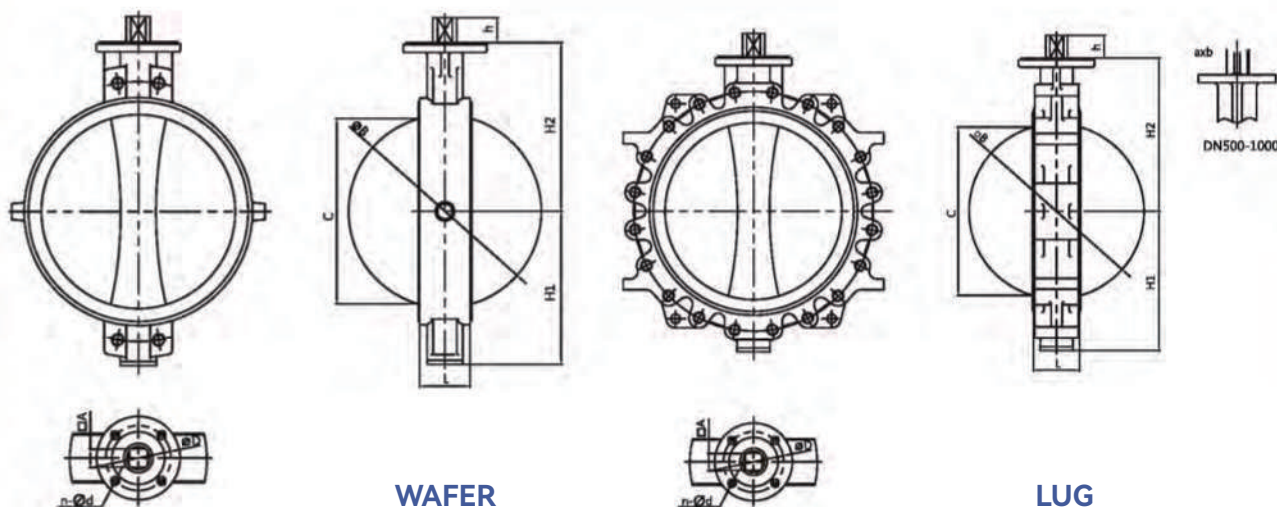
METRIC DIMENSIONS:Millimeters

DN32-DN300 Wafer/Lug with alignment holes								
Size	L	H1	H2	h	A	D	d	ISO5211
DN32/DN40	33	56	126.5	22	11	50	7	F05
DN50	43	62	140	22	11	50	7	F05
DN65	46	69	156	22	11	50	7	F05
DN80	46	92	160	22	11	50	7	F05
DN100	52	107	182	22	11	50	7	F05
DN125	56	122	195	22	14	70	8.5	F07
DN150	56	134	210	22	14	70	8.5	F07
DN200	60	166	237	22	17	70	8.5	F07
DN250	68	207	262.5	28	22	102	11	F10
DN300	78	234	300	28	22	102/125	11/13	F10/F12

IMPERIAL DIMENSIONS:Inches

NPS1¼-NPS12 Wafer/Lug with alignment holes								
Size	L	H1	H2	h	A	D	d	ISO5211
NPS1¼/NPS1½	1.30	2.20	4.98	0.87	0.43	1.97	0.28	F05
NPS2	1.69	2.44	5.51	0.87	0.43	1.97	0.28	F05
NPS2.5	1.81	2.72	6.14	0.87	0.43	1.97	0.28	F05
NPS3	1.81	3.62	6.30	0.87	0.43	1.97	0.28	F05
NPS4	2.05	4.21	7.17	0.87	0.43	1.97	0.28	F05
NPS5	2.20	4.80	7.68	0.87	0.55	2.76	0.33	F07
NPS6	2.20	5.28	8.27	0.87	0.55	2.76	0.33	F07
NPS8	2.36	6.54	9.33	0.87	0.67	2.76	0.33	F07
NPS10	2.68	8.15	10.33	1.10	0.87	4.02	0.43	F10
NPS12	3.07	9.21	11.81	1.10	0.87	4.02/4.92	0.43/0.51	F10/F12

Presentation



WAFFER

LUG

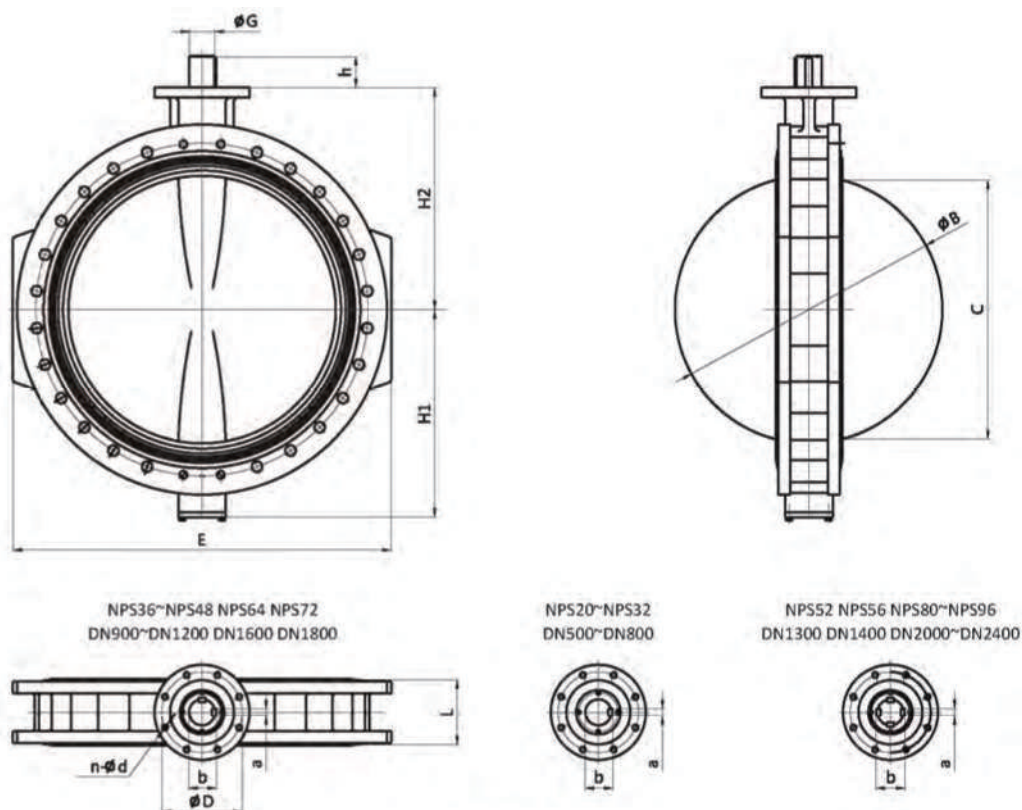
METRIC DIMENSIONS: Millimeters

DN350-DN1000 Wafer/Lug with alignment holes													
Size	L	H1	H2	h	A	ϕB	C	ϕG	a	b	ϕD	n- ϕd	ISO5211
DN350	78	270	300	36	27	$\phi 338$	329	-	-	-	$\phi 125$	4- $\phi 14$	F12
DN400	102	300	345	43	32	$\phi 390$	376	-	-	-	$\phi 140$	4- $\phi 18$	F14
DN450	114	330	375	49	36	$\phi 437$	422	-	-	-	$\phi 140$	4- $\phi 18$	F14
DN500	127	385	425	65	-	$\phi 485$	468	$\phi 60$	18	64	$\phi 165$	4- $\phi 22$	F16
DN600	154	438	495	70	-	$\phi 585$	565	$\phi 60$	18	64	$\phi 165$	4- $\phi 22$	F16
DN700	165	518	570	80	-	$\phi 680$	660	$\phi 70$	20	74.5	$\phi 254$	8- $\phi 18$	F25
DN750	165	545	610	80	-	$\phi 730$	710	$\phi 70$	20	74.5	$\phi 254$	8- $\phi 18$	F25
DN800	190	567	640	80	-	$\phi 773$	749	$\phi 70$	20	74.5	$\phi 254$	8- $\phi 18$	F25
DN900	203	650	700	100	-	$\phi 876$	852	$\phi 80$	22	85	$\phi 254$	8- $\phi 18$	F25
DN1000	216	715	750	100	-	$\phi 976$	952	$\phi 80$	22	85	$\phi 298$	8- $\phi 22$	F30

IMPERIAL DIMENSIONS: Inches

NPS14-NPS40 Wafer/Lug with alignment holes													
Size	L	H1	H2	h	A	ϕB	C	ϕG	a	b	ϕD	n- ϕd	ISO5211
NPS14	3.07	10.63	11.81	1.42	1.06	$\phi 13.31$	12.95	-	-	-	$\phi 4.92$	4- $\phi 0.55$	F12
NPS16	4.02	11.81	13.58	1.69	1.26	$\phi 15.35$	14.80	-	-	-	$\phi 5.50$	4- $\phi 0.71$	F14
NPS18	4.49	12.99	14.76	1.93	1.42	$\phi 17.20$	16.61	-	-	-	$\phi 5.50$	4- $\phi 0.71$	F14
NPS20	5.00	15.16	16.73	2.56	-	$\phi 19.09$	18.43	$\phi 2.36$	0.71	2.52	$\phi 6.50$	4- $\phi 0.87$	F16
NPS24	6.06	17.24	19.49	2.76	-	$\phi 23.03$	22.24	$\phi 2.36$	0.71	2.52	$\phi 6.50$	4- $\phi 0.87$	F16
NPS28	6.50	20.39	22.44	3.15	-	$\phi 26.77$	25.98	$\phi 2.76$	0.79	2.93	$\phi 10.00$	8- $\phi 0.71$	F25
NPS30	6.50	21.46	24.02	3.15	-	$\phi 28.74$	27.95	$\phi 2.76$	0.79	2.93	$\phi 10.00$	8- $\phi 0.71$	F25
NPS32	7.48	22.32	25.20	3.15	-	$\phi 30.43$	29.49	$\phi 2.76$	0.79	2.93	$\phi 10.00$	8- $\phi 0.71$	F25
NPS36	7.99	25.59	27.56	3.94	-	$\phi 34.49$	33.54	$\phi 3.15$	0.87	3.35	$\phi 10.00$	8- $\phi 0.71$	F25
NPS40	8.50	28.15	29.53	3.94	-	$\phi 38.43$	37.48	$\phi 3.15$	0.87	3.35	$\phi 11.73$	8- $\phi 0.87$	F30

Presentation



U-SECTION

METRIC DIMENSIONS: Millimeters

DN500-DN2400 U-section with alignment holes													
Size	L	H1	H2	E	H	ϕB	C	ϕG	a	b	ϕD	n- ϕd	ISO5211
DN500	127	385	425	750	65	$\phi 485$	468	$\phi 60$	18	64	$\phi 165$	4- $\phi 22$	F16
DN600	154	438	495	864	70	$\phi 585$	565	$\phi 60$	18	64	$\phi 165$	4- $\phi 22$	F16
DN700	165	518	570	960	80	$\phi 680$	660	$\phi 70$	20	74.5	$\phi 254$	8- $\phi 18$	F25
DN750	165	545	610	1010	80	$\phi 730$	710	$\phi 70$	20	74.5	$\phi 254$	8- $\phi 18$	F25
DN800	190	567	640	1084	80	$\phi 773$	749	$\phi 70$	20	74.5	$\phi 254$	8- $\phi 18$	F25
DN900	203	650	700	1194	100	$\phi 876$	852	$\phi 80$	22	85	$\phi 254$	8- $\phi 18$	F25
DN1000	216	715	750	1320	100	$\phi 976$	952	$\phi 80$	22	85	$\phi 298$	8- $\phi 22$	F30
DN1100	254	812	820	1450	120	$\phi 1080$	1050	$\phi 100$	28	106	$\phi 298$	8- $\phi 22$	F30
DN1200	254	860	870	1520	120	$\phi 1175$	1147	$\phi 100$	28	106	$\phi 298$	8- $\phi 22$	F30
DN1300	276	935	960	1680	120	$\phi 1276$	1232	$\phi 100$	28	112	$\phi 298$	8- $\phi 22$	F30
DN1400	279	975	1015	1730	140	$\phi 1386$	1358	$\phi 120$	32	134	$\phi 298$	8- $\phi 22$	F30
DN1500	254	1110	1130	1830	180	$\phi 1487$	1895	$\phi 130$	32	138	$\phi 406$	8- $\phi 39$	F40
DN1600	254	1190	1200	1960	180	$\phi 1570$	1560	$\phi 130$	32	138	$\phi 406$	8- $\phi 39$	F40
DN1800	356	1275	1290	2170	200	$\phi 1743$	1704	$\phi 150$	36	158	$\phi 406$	8- $\phi 39$	F40
DN2000	406	1450	1465	2440	205	$\phi 1945$	1890	$\phi 160$	40	178	$\phi 483$	12- $\phi 39$	F48
DN2200	406	1505	1565	2610	205	$\phi 2120$	2090	$\phi 160$	40	178	$\phi 483$	12- $\phi 39$	F48
DN2400	406	1590	1675	2820	205	$\phi 2300$	2270	$\phi 160$	40	178	$\phi 483$	12- $\phi 39$	F48

Presentation

IMPERIAL DIMENSIONS:Inches

NPS20-NPS96 U-section with alignment holes													
Size	L	H1	H2	E	H	φB	C	φG	a	b	φD	n-φd	ISO5211
NPS20	5.00	15.16	16.73	29.53	2.56	φ19.09	18.43	φ2.36	0.71	2.52	φ6.50	4-φ0.87	F16
NPS24	6.06	17.24	19.49	34.02	2.76	φ23.03	22.24	φ2.36	0.71	2.52	φ6.50	4-φ0.87	F16
NPS28	6.50	20.39	22.44	37.80	3.15	φ26.77	25.98	φ2.76	0.79	2.93	φ10.00	8-φ0.71	F25
NPS30	6.50	21.46	24.02	39.76	3.15	φ28.74	27.95	φ2.76	0.79	2.93	φ10.00	8-φ0.71	F25
NPS32	7.48	22.32	25.20	42.68	3.15	φ30.43	29.49	φ2.76	0.79	2.93	φ10.00	8-φ0.71	F25
NPS36	7.99	25.59	27.56	47.01	3.94	φ34.49	33.54	φ3.15	0.87	3.35	φ10.00	8-φ0.71	F25
NPS40	8.50	28.15	29.53	51.97	3.94	φ38.43	37.48	φ3.15	0.87	3.35	φ11.73	8-φ0.87	F30
NPS44	10.00	31.97	32.28	57.09	4.72	φ42.52	41.34	φ3.94	1.10	4.17	φ11.73	8-φ0.87	F30
NPS48	10.00	33.86	34.25	59.84	4.72	φ46.26	45.16	φ3.94	1.10	4.17	φ11.73	8-φ0.87	F30
NPS52	10.87	36.81	37.80	66.14	4.72	φ50.24	48.50	φ3.94	1.10	4.41	φ11.73	8-φ0.87	F30
NPS56	10.98	38.39	39.96	68.11	5.51	φ54.57	53.46	φ4.72	1.26	5.28	φ11.73	8-φ0.87	F30
NPS60	10.00	43.70	44.49	72.05	7.09	φ58.54	74.61	φ5.12	1.26	5.43	φ15.98	8-φ1.54	F40
NPS64	10.00	46.85	47.24	77.17	7.09	φ61.81	61.42	φ5.12	1.26	5.43	φ15.98	8-φ1.54	F40
NPS72	14.02	50.20	50.79	85.43	7.87	φ68.62	67.09	φ5.91	1.42	6.22	φ15.98	8-φ1.54	F40
NPS80	15.98	57.09	57.68	96.06	8.07	φ76.57	74.41	φ6.30	1.57	7.01	φ18.90	12-φ1.54	F48
NPS88	15.98	59.25	61.61	102.76	8.07	φ83.46	82.28	φ6.30	1.57	7.01	φ18.90	12-φ1.54	F48
NPS96	15.98	62.60	65.94	111.02	8.07	φ90.55	89.37	φ6.30	1.57	7.01	φ18.90	12-φ1.54	F48

Cv Value

DN40-DN2400 (NPS1½-NPS96) Cv Value					
Size	Cv Value	Size	Cv Value	Size	Cv Value
DN40/NPS1½	98	DN350/NPS14	9250	DN1100/NPS44	101123
DN50/NPS2	115	DN400/NPS16	12350	DN1200/NPS48	124679
DN65/NPS2.5	223	DN450/NPS18	16200	DN1300/NPS52	169638
DN80/NPS3	335	DN500/NPS20	19435	DN1400/NPS56	174215
DN100/NPS4	620	DN600/NPS24	28234	DN1500/NPS60	229480
DN125/NPS5	1020	DN700/NPS28	37719	DN1600/NPS64	261919
DN150/NPS6	1490	DN750/NPS30	45435	DN1800/NPS72	339384
DN200/NPS8	2780	DN800/NPS32	52314	DN2000/NPS80	366790
DN250/NPS10	4580	DN900/NPS36	67155	DN2200/NPS88	511330
DN300/NPS12	6720	DN1000/NPS40	82974	DN2400/NPS96	608450

Cv value of DN32 and DN40 is same.

Presentation

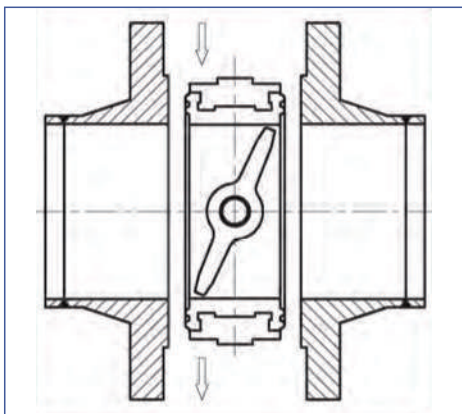
Valve Torque

Size	0.35MPa/3.5bar/50psi		0.6MPa/6bar/86psi		1.0MPa/10bar/150psi		1.6MPa/16bar/250psi	
	N.m	Lbf.inch	N.m	Lbf.inch	N.m	Lbf.inch	N.m	Lbf.inch
DN40/NPS1½	-	-	9	101.7	9	101.7	10	113
DN50/NPS2	-	-	13	115	14	124	15	133
DN65/NPS2.5	-	-	20	177	20	177	22	195
DN80/NPS3	-	-	24	212	25	221	27	239
DN100/NPS4	-	-	40	354	40	354	41	363
DN125/NPS5	-	-	43	381	45	398	50	442
DN150/NPS6	-	-	65	575	76	673	83	735
DN200/NPS8	-	-	143	1265	162	1434	170	1504
DN250/NPS10	-	-	304	2690	321	2841	340	3009
DN300/NPS12	-	-	382	3381	423	3743	450	3982
DN350/NPS14	-	-	400	3539	500	4424	650	5751
DN400/NPS16	-	-	500	4424	600	5309	750	4977
DN450/NPS18	-	-	650	5751	800	7078	1000	8848
DN500/NPS20	720	6373	880	7789	1100	9736	-	-
DN600/NPS24	1050	9294	1300	11506	1600	14162	-	-
DN700/NPS28	1680	14870	2050	18145	2500	22128	-	-
DN750/NPS30	1850	16375	2250	19915	2850	25226	-	-
DN800/NPS32	2030	17968	2450	21685	3200	28324	-	-
DN900/NPS36	3115	27571	3800	33634	4600	40715	-	-
DN1000/NPS40	4250	37617	5200	46026	6500	57532	-	-
DN1100/NPS44	4920	43548	6000	53107	8500	75235	-	-
DN1200/NPS48	6300	55762	8500	75235	10500	92937	-	-
DN1300/NPS52	8100	71694	10500	92937	12800	113294	-	-
DN1400/NPS56	9030	79926	12110	107187	15000	132767	-	-
DN1500/NPS60	14200	125686	16500	146044	21000	185874	-	-
DN1600/NPS64	19000	168171	22500	199150	28000	247831	-	-
DN1800/NPS72	23000	203576	27000	238980	32000	283236	-	-
DN2000/NPS80	32000	283236	40000	354045	50000	442556	-	-
DN2200/NPS88	41000	362896	52000	460259	-	-	-	-
DN2400/NPS96	50000	442556	65000	575323	-	-	-	-

Presentation

INSTALLATION GUIDELINES

Flanges must allow enough space for installation without pinching the liner



The disc should be partially open in the position shown.

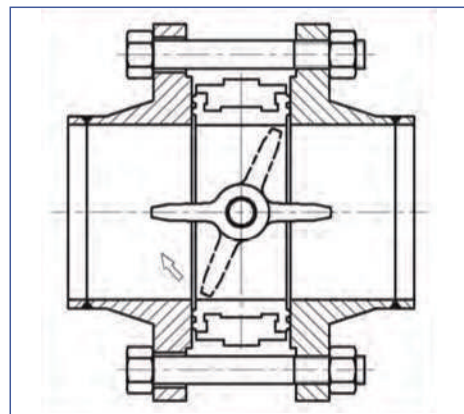
(NEVER IN CLOSED POSITION)

ATTENTION

Do not weld the flanges with valve installed as an assembly.

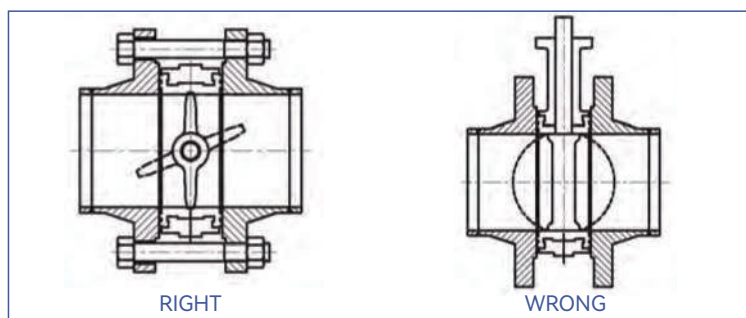
HEAT WILL DESTROY
THE LINER

Before tightening the flange bolts, open the valve completely and verify that operation is smooth and non-binding.



VALVE POSITION

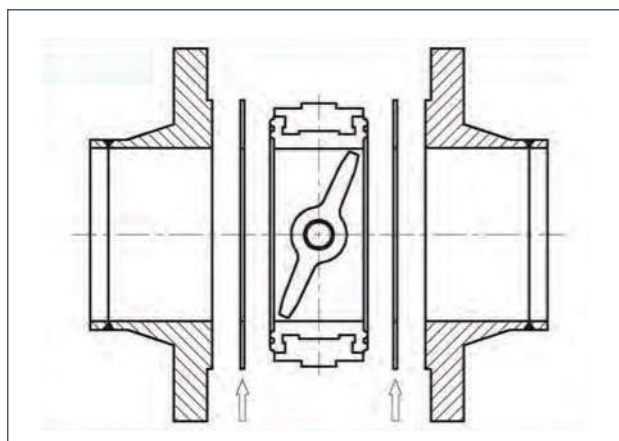
Preferred position is valve installed with shaft horizontal. However for sizes up to 12" in clean service, valves can be installed with the valve shaft in a vertical or horizontal position.



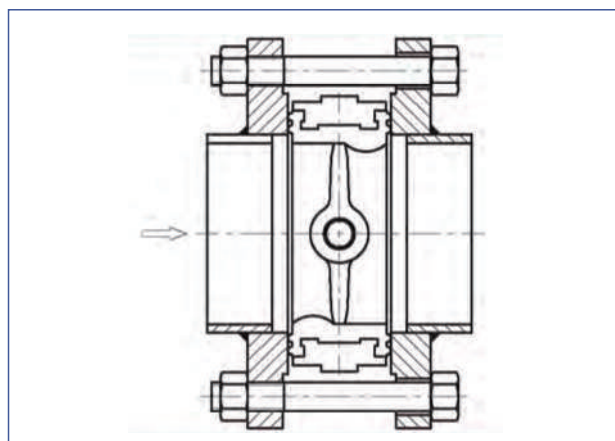
GENERAL PRECAUTIONS

- Other resilient items, such as gaskets or rubber expansion joints should not be in contact with the valve.
- Flange faces must be parallel. joining the body faces when bolts have been tightened.

Do not place gaskets between valve and flanges



Do not use flat flanges with the pipe assembled. This can deform the liner and cause binding, tearing, and premature failure.





Specialist in industrial valves

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