

Neway offers four series of floating ball valves:

- BA Series, one piece, side-entry, cast steel
- B Series, two-piece, side-entry, cast steel
- BB Series, two-piece, side-entry, forged steel
- BC Series, three-piece, side-entry, forged steel

NEWAY floating ball valves function in service ranging from -50°C to 200°C (from -58°F to 392°F), with size which varies from 1/2 inch to 12 inch (15mm~300mm) and pressure range of ASME Class150~Class 2500 (2.0Mpa~25.0Mpa). Our floating ball valves are capable of fulfilling sour service requirements stated in NACE MR0175.



Pneumatic Actuator Ball valve



Pneumatic Actuated Ball Valve



1PC Cast Steel Design



Stainless Steel



3 PC Floating Ball Valve



2PC Forged Steel Design

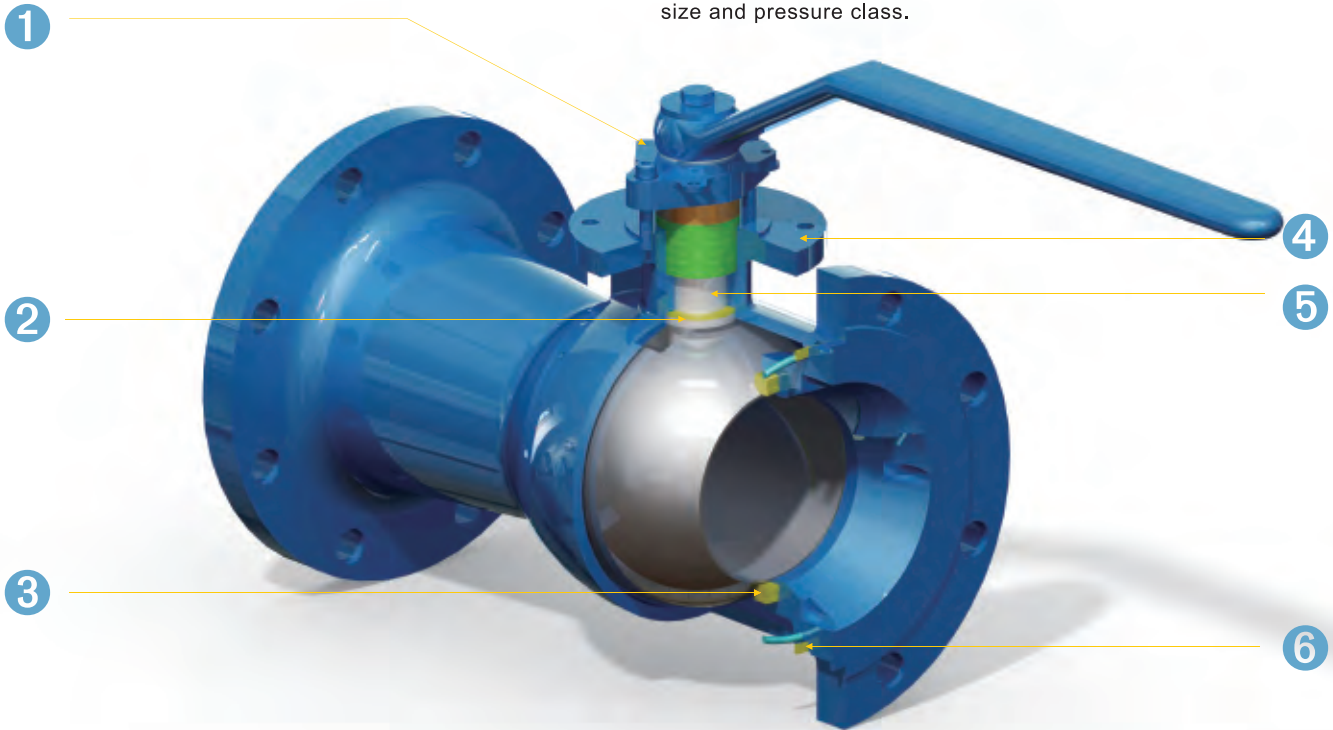


Hastelloy Ball Valve



2PC Cast Steel Design

This is an illustrated of typical regular port, uni-body, floating type ball valve to exhibit the basic design concept. The actual design of a valve may be slightly different from this illustration depending on its size and pressure class.

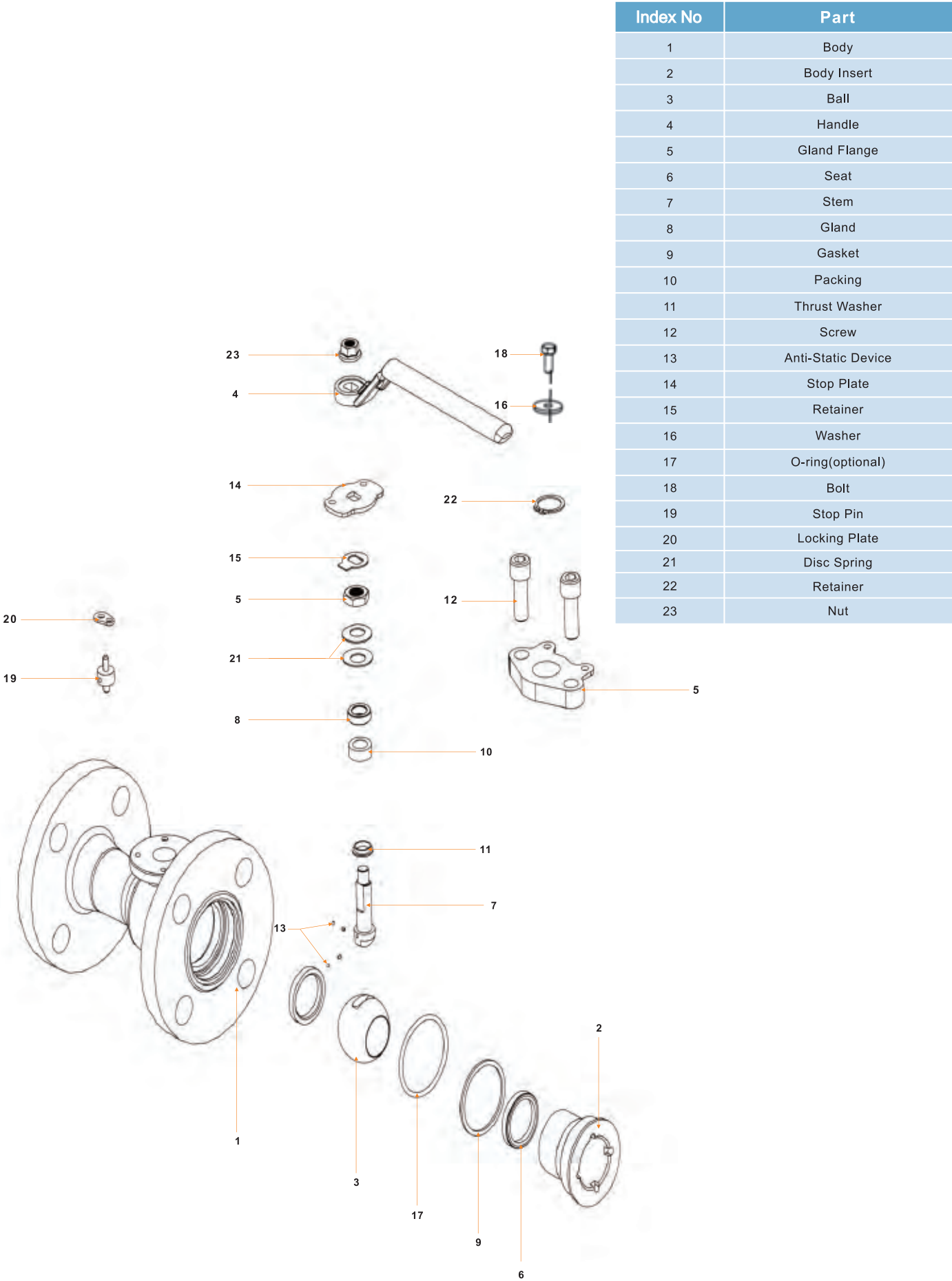


2x1-1/2 BA 1 R

- 1 Reliable Flow Locking Device: Valve is equipped with an integral locking device to secure flow.
- 2 Blow-out proof stem: The lower end of the stem is T-shaped structured, protected by boss of body, which assures stem retention against any pressure.
- 3 Fire Safe Design: Metal to metal sealing shuts off valve flow when soft sealing materials are destroyed by fire.
- 4 ISO5211 connection dimension: actuator installation is simplified by using connection dimension recognized in international standards.
- 5 Double "D" Stem Head: ensures handle lever will always be mounted correctly, parallel to the media flow, indicating valve open and closed positions.
- 6 Emission-free Gasket: Low-emission graphite is employed in gasket to eliminate leakage.

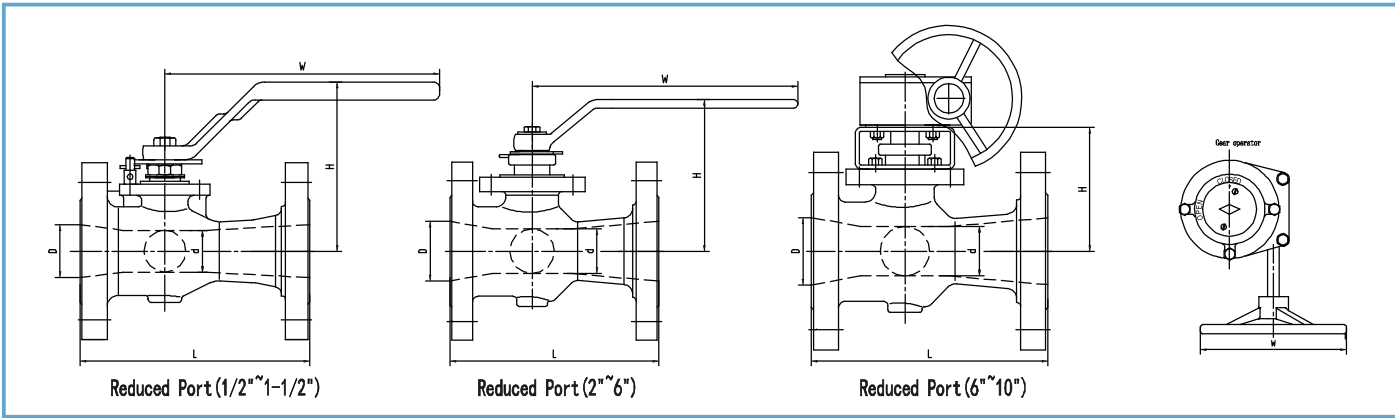
APPLICATIONS

Refinery Petrochemical Paper
Chemical Pharmaceutical Food and Beverage



No	Part	Carbon Steel (Non-Sour)	Stainless Steel	Carbon Steel (Sour Service)	Low Temperature Carbon Steel
1	Body	ASTM A216-WCB	ASTMA351-CF8M	ASTM A216-WCB	ASTM A352-LCB
2	Body Insert	ASTM A216-WCB	ASTM A351-CF8M	ASTM A216-WCB	ASTM A352-LCB
3	Ball	ASTM A182 F6a	ASTMA182-F316	ASTM A182 F6a	ASTMA182-F316
4	Handle	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
5	Gland Flange	ASTM A216-WCB	ASTMA351-CF8	ASTM A216-WCB	ASTM A352-LCB
6	Seat	PTFE	PTFE	PTFE	PTFE
7	Stem	ASTMA182-F6a	ASTMA182-F316	ASTM A182-F6a	ASTMA182-F316
8	Gland	ASTM A276-304L	ASTM A276-304L	ASTM A276-304L	ASTM A276-304L
9	Gasket	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite
10	Packing	Graphite	Graphite	Graphite	Graphite
11	Thrust Washer	PTFE	PTFE	PTFE	PTFE
12	Screw	ASTMA193-B7	ASTM A193-B8 CI2	ASTMA193-B7M	ASTMA320-L7M
13	Anti-Static Device	S.S.	S.S.	S.S.	S.S.
14	Stop Plate	Carbon Steel	S.S.	Carbon Steel	Carbon Steel
15	Retainer	S.S.	S.S.	S.S.	S.S.
16	Washer	Carbon Steel	S.S.	Carbon Steel	Carbon Steel
17	O-ring(optional)	Viton A	Viton A	Viton A	HNBR
18	Bolt	Carbon Steel	S.S.	Carbon Steel	Carbon Steel
19	Stop Pin	Carbon Steel	S.S.	Carbon Steel	Carbon Steel
20	Locking Plate	Carbon Steel	S.S.	Carbon Steel	S.S.
21	Disc Spring	Carbon Steel	S.S.	Carbon Steel	Carbon Steel
22	Retainer	Carbon Steel	S.S.	Carbon Steel	Carbon Steel
23	Nut	Carbon Steel	S.S.	Carbon Steel	Carbon Steel

ISO5211 connection dimension: actuator installation is simplified by using connection dimension recog nized in international standards.



Class 150 Dimension and Weight

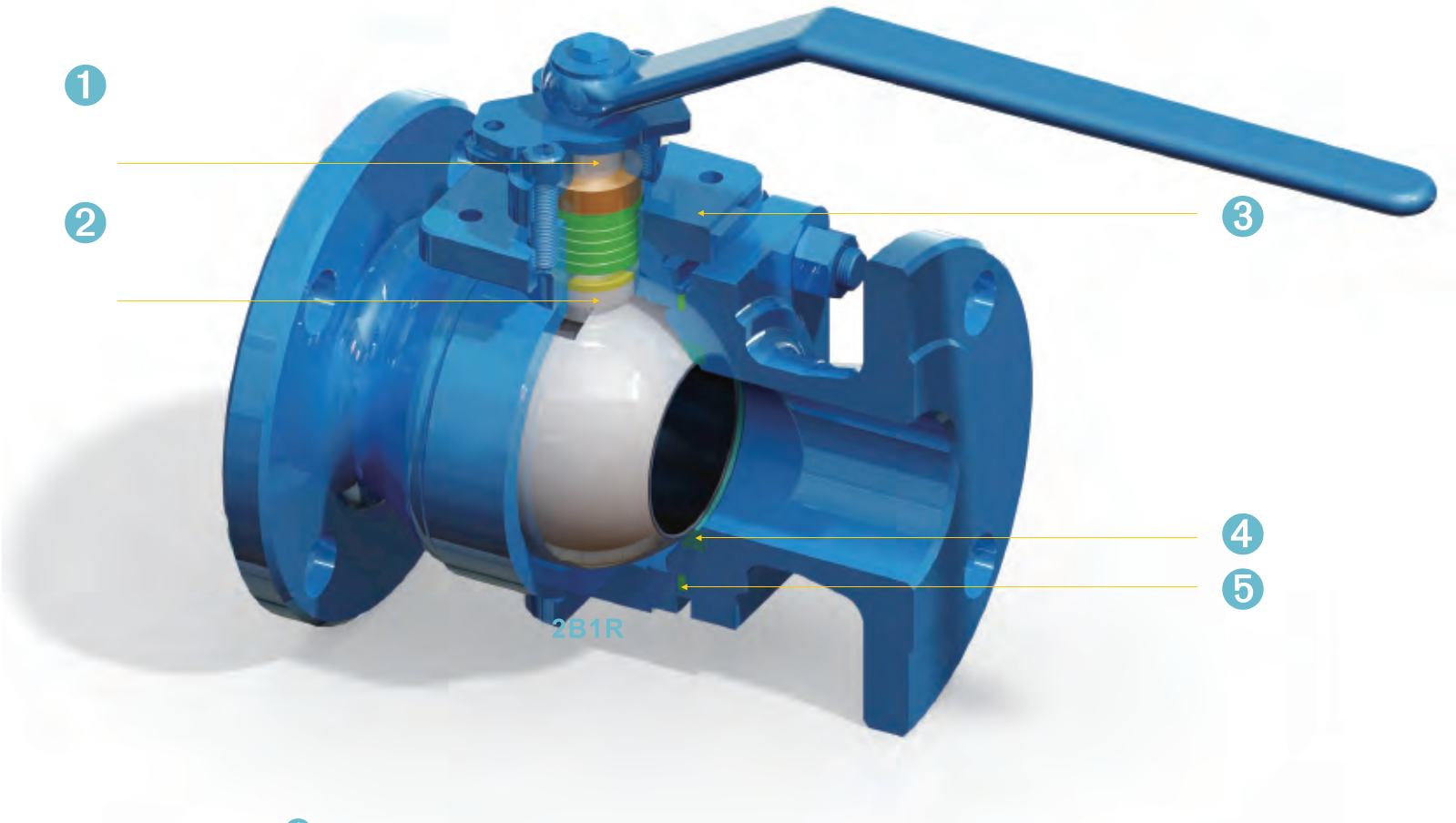
Size		d		D		L		H		W		Weight	
NPS	DN	in	mm	in	mm	in	mm	in	mm	in	mm	lb	Kg
1/2*3/8	15*10	0.37	10	0.50	13	4.25	108	1.75	44.50	4.72	145	3.3	1.5
3/4*1/2	20*15	0.50	13	0.75	19	4.61	117	2.11	53.50	5.51	165	5.5	2.5
1*3/4	25*20	0.75	19	1.00	25	5.00	127	2.42	61.50	5.51	165	6.6	3.0
1-1/2*1	40*25	1.18	30	1.50	38	6.50	165	3.15	80	6.30	215	11.0	5.0
2*1-1/2	50*40	1.50	38	2.00	51	7.01	178	4.17	106	10.43	265	19.2	8.7
2-1/2*2	65*50	2.00	51	2.50	64	7.52	191	4.72	120	10.43	265	27.3	12.4
3*2-1/2	80*65	2.50	64	3.00	76	7.99	203	5.67	144	10.43	285	36.8	16.7
4*3	100*80	3.00	76	4.00	102	9.02	229	6.54	166	11.81	300	53.8	24.4
6*4	150*100	4.50	114	6.00	152	10.51	267	8.39	213	15.75	*300	110.2	50.0
8*6	200*150	6.00	152	8.00	203	11.50	292	20.71	526	11.81	*400	222.7	101.0
10*8	250*200	7.36	187	10.00	254	12.99	330	21.65	550	16	*400	330.7	150.0

Class 300 Dimension and Weight

Size		d		D		L		H		W		Weight	
NPS	DN	in	mm	in	mm	in	mm	in	mm	in	mm	lb	Kg
1/2*3/8	15*10	0.37	10	0.50	13	5.51	140	1.75	44.50	4.72	145	6.2	2.8
3/4*1/2	20*15	0.50	13	0.75	19	5.98	152	2.11	53.50	5.51	165	7.9	3.6
1*3/4	25*20	0.75	19	1.00	25	6.50	165	2.42	61.50	5.51	165	10.6	4.8
1-1/2*1	40*25	1.18	30	1.50	38	7.48	190	3.15	80	6.30	215	21.2	9.6
2*1-1/2	50*40	1.50	38	2.00	51	8.50	216	4.17	106	10.43	265	24.3	11.0
2-1/2*2	65*50	2.00	51	2.50	64	9.49	241	4.72	120	10.43	265	33.3	15.1
3*2-1/2	80*65	2.50	64	3.00	76	11.14	283	5.67	144	10.43	285	49.6	22.5
4*3	100*80	3.00	76	4.00	102	12.01	305	6.54	166	11.81	300	81.6	37.0
6*4	150*100	4.50	114	6.00	152	15.87	403	8.39	213	11.81	*300	159.8	72.5
8*6	200*150	5.67	144	8.00	203	16.50	419	20.71	526	15.75	*400	275.6	125.0
10*8	250*200	7.36	187	10.00	254	17.99	457	21.65	550	15.75	*400	451.9	205.0

*Gearbox operated

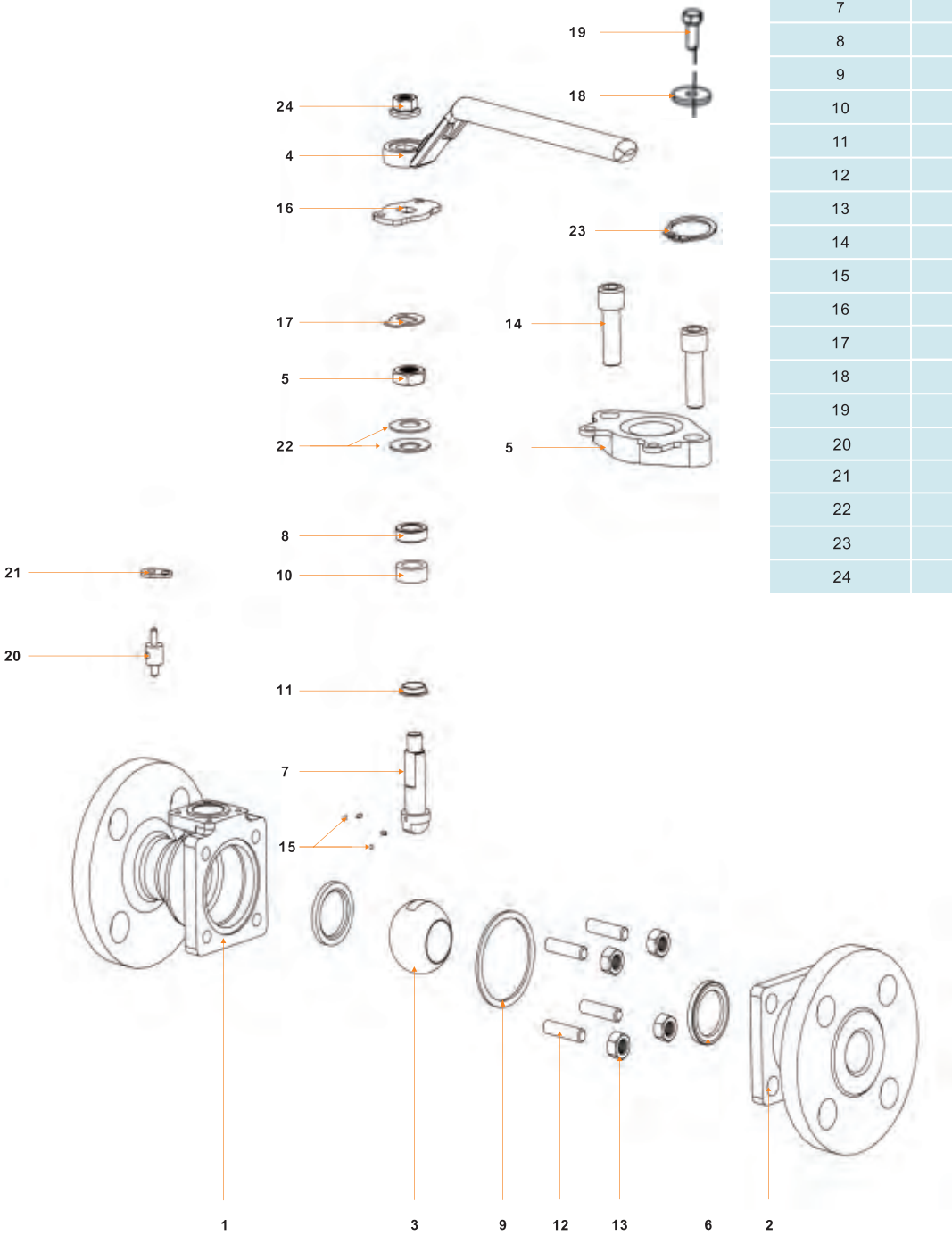
This is an illustrated of typical full port, split body, floating type ball valve to exhibit the basic design concept. The actual design of a valve may be slightly different from this illustration depending on its size and pressure class.



- 1 Double "D" Stem Head: ensures handle lever will always be mounted correctly, parallel to the media flow, indicating valve open and closed positions.
- 2 Blow-out proof stem: The lower end of the stem is T-shaped structured, protected by boss of body, which assures stem retention against any pressure.
- 3 ISO5211 connection dimension: actuator installation is simplified by using connection dimension recog nized in international standards.
- 4 Fire Safe Design: Metal to metal sealing shuts off valve flow when soft sealing materials are destroyed by fire.
- 5 Emission-free Gasket: Low-emission graphite is employed in gasket to eliminate leakage.

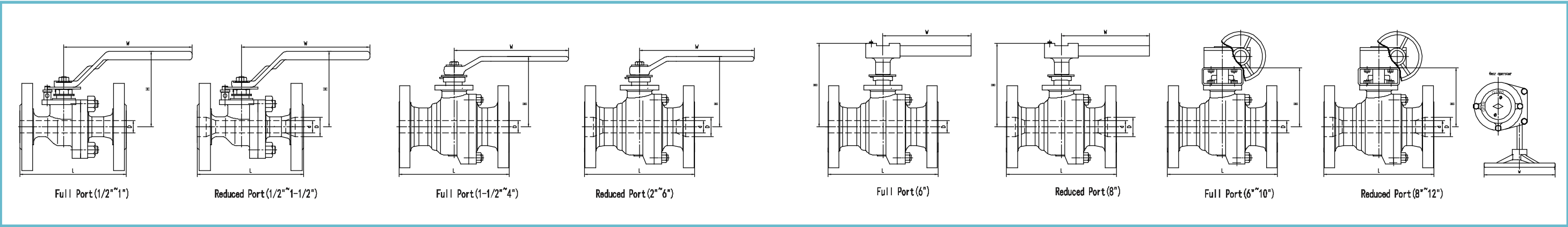
APPLICATIONS

- Refinery
- Petrochemical
- Power
- Chemical
- Pharmaceutical



Index No	Part
1	Body
2	Bonnet
3	Ball
4	Handle
5	Gland Flange
6	Seat
7	Stem
8	Gland
9	Gasket
10	Packing
11	Thrust Washer
12	Stud
13	Nut
14	Screw
15	Anti-Static Device
16	Stop Plate
17	Retainer
18	Washer
19	Bolt
20	Stop Pin
21	Locking Plate
22	Disc Spring
23	Retainer
24	Nut

No	Part	Carbon Steel (Non-Sour)	Stainless Steel	Carbon Steel (Sour Service)	Low Temperature Carbon Steel
1	Body	ASTMA216-WCB	ASTMA351-CF8M	ASTMA216-WCB	ASTMA352-LCB
2	Bonnet	ASTMA216-WCB	ASTMA351-CF8M	ASTMA216-WCB	ASTMA352-LCB
3	Ball	ASTMA182 F6a	ASTMA182-F316	ASTMA182 F6a	ASTMA182-F316
4	Handle	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
5	Gland Flange	ASTMA216-WCB	ASTMA351-CF8	ASTMA216-WCB	ASTMA352-LCB
6	Seat	PTFE	PTFE	PTFE	PTFE
7	Stem	ASTMA182-F6a	ASTMA182-F316	ASTMA182-F6a	ASTMA182-F316
8	Gland	ASTMA276-304L	ASTMA276-304L	ASTMA276-304L	ASTMA276-304L
9	Gasket	Flexible Graphites≤1" 316 L+Graphite>1"	Flexible Graphites≤1" 316 L+Graphite>1"	Flexible Graphites≤1" 316 L+Graphite>1"	Flexible Graphites≤1" 316 L+Graphite>1"
10	Packing	Graphite	Graphite	Graphite	Graphite
11	Thrust Washer	PTFE	PTFE	PTFE	PTFE
12	Stud	ASTMA193-B7	ASTMA193-B8 Cl2	ASTMA193-B7M	ASTMA320-L7M
13	Nut	ASTMA194-2H	ASTMA194-8	ASTMA194-2HM	ASTMA194-7M
14	Screw	ASTMA193-B7	ASTMA193-B8 Cl2	ASTMA193-B7M	ASTMA320-L7M
15	Anti-Static Device	S.S.	S.S.	S.S.	S.S.
16	Stop Plate	Carbon Steel	S.S.	Carbon Steel	Carbon Steel
17	Retainer	S.S.	S.S.	S.S.	S.S.
18	Washer	Carbon Steel	S.S.	Carbon Steel	Carbon Steel
19	Bolt	Carbon Steel	S.S.	Carbon Steel	Carbon Steel
20	Stop Pin	Carbon Steel	S.S.	Carbon Steel	Carbon Steel
21	Locking Plate	S.S.	S.S.	S.S.	S.S.
22	Disc Spring	Carbon Steel	S.S.	Carbon Steel	Carbon Steel
23	Retainer	Carbon Steel	S.S.	Carbon Steel	Carbon Steel
24	Nut	Carbon Steel	S.S.	Carbon Steel	Carbon Steel



Class 150 Dimension and Weight

Full Port											
Size		D		L		H		W		Weight	
NPS	DN	in	mm	in	mm	in	mm	in	mm	lb	kg
1/2	15	0.50	13	4.25	108	3.35	85	6.50	165	4.0	1.8
3/4	20	0.75	19	4.62	117	3.54	90	6.50	165	4.4	2.0
1	25	1.00	25	5.00	127	4.27	108.5	8.46	215	7.9	3.6
1-1/2	40	1.50	38	6.50	165	5.24	133	10.43	265	15.9	7.2
2	50	2.00	51	7.00	178	5.87	149	10.43	265	24.5	11.1
2-1/2	65	2.50	64	7.50	190	6.48	164.5	11.22	285	30.9	14.0
3	80	3.00	76	8.00	203	7.22	183.5	11.81	300	48.5	22.0
4	100	4.00	102	9.00	229	8.46	215	17.72	450	88.2	40.0
6	150	6.00	152	15.50	394	13.52	343.5	55.12	**1400	202.8	92.0
6	150	6.00	152	15.50	394	11.30	287	15.75	*400	238.1	108.0
8	200	8.00	203	18.00	457	12.83	326	19.69	*500	429.9	195.0
10	250	10.00	254	21.00	533	14.49	368	19.69	*500	687.8	312.0

Reduced Port													
Size		d		D		L		H		W		Weight	
NPS	DN	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3/4*1/2	20*15	0.50	13	0.75	19	4.62	117	3.35	85	6.50	165	6.6	3.0
1*3/4	25*20	0.75	19	1.00	25	5.00	127	3.54	90	6.50	165	8.8	4.0
1-1/2*1	40*25	1.00	25	1.50	38	6.50	165	4.27	108.5	8.46	215	15.4	7.0
2*1-1/2	50*40	1.50	38	2.00	51	7.00	178	5.24	133	10.43	265	29.8	13.5
3*2	80*50	2.00	51	2.50	64	8.00	203	5.87	149	10.43	265	44.1	20.0
4*3	100*80	3.00	76	4.00	102	9.00	229	7.22	183.5	11.81	300	83.8	38.0
6*4	150*100	4.00	102	6.00	152	15.50	394	8.46	215	17.72	450	158.7	72.0
8*6	200*150	6.00	152	8.00	203	18.00	457	13.52	343.5	55.12	**1400	231.5	105.0
8*6	200*150	6.00	152	8.00	203	18.00	457	11.30	287	15.75	*400	271.2	123.0
10*8	250*200	8.00	203	10.00	254	21.00	533	12.83	326	19.69	*500	480.6	218.0
12*10	300*250	10.00	254	12.00	305	24.00	610	14.49	368	19.69	*500	507.1	230.0

** T-Bar Operator
* Gear Operator

Class 300 Dimension and Weight

Full Port											
Size		D		L		H		W		Weight	
NPS	DN	in	mm	in	mm	in	mm	in	mm	lb	kg
1/2	15	0.50	13	5.50	140	3.35	85	6.50	165	6.6	3.0
3/4	20	0.75	19	6.00	152	3.54	90	6.50	165	8.8	4.0
1	25	1.00	25	6.50	165	4.27	108.5	8.46	215	15.4	7.0
1-1/2	40	1.50	38	7.50	190	5.24	133	10.43	265	30.9	14.0
2	50	2.00	51	8.50	216	5.87	149	10.43	265	39.7	18.0
2-1/2	65	2.50	64	9.50	241	6.48	164.5	11.22	285	63.9	29.0
3	80	3.00	76	11.12	283	7.22	183.5	11.81	300	88.2	40.0
4	100	4.00	102	12.00	305	10.75	273	32.09	**815	163.1	74.0
6	150	6.00	152	15.88	403	11.30	287	15.75	*400	238.1	108.0
8	200	8.00	203	19.75	502	13.23	336	19.69	*500	429.9	195.0
10	250	10.00	254	22.38	568	17.01	432	19.69	*500	687.8	312.0

Reduced Port													
Size		d		D		L		H		W		Weight	
NPS	DN	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
3/4*1/2	20*15	0.50	13	0.75	19	6.00	152	3.35	85	6.50	165	8.8	4.0
1*3/4	25*20	0.75	19	1.00	25	6.50	165	3.54	90	6.50	165	11.0	5.0
1-1/2*1	40*25	1.00	25	1.50	38	7.50	190	4.27	108.5	8.46	215	19.8	9.0
2*1-1/2	50*40	1.50	38	2.00	51	8.50	216	5.24	133	10.43	265	32.0	14.5
3*2	80*50	2.00	51	2.50	64	11.12	283	5.87	149	10.43	265	55.1	25.0
4*3	100*80	3.00	76	4.00	102	12.00	305	7.22	183.5	11.81	300	110.2	50.0
6*4	150*100	4.00	102	6.00	152	15.88	403	10.75	273	32.09	*815	211.6	96.0
8*6	200*150	6.00	152	8.00	203	19.75	502	11.30	287	15.75	*400	271.2	123.0
10*8	250*200	8.00	203	10.00	254	22.38	568	13.23	336	19.69	*500	480.6	218.0

** T-Bar Operator
* Gear Operator