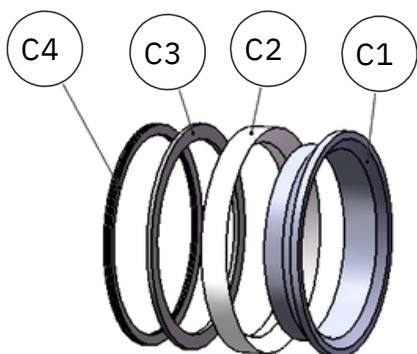
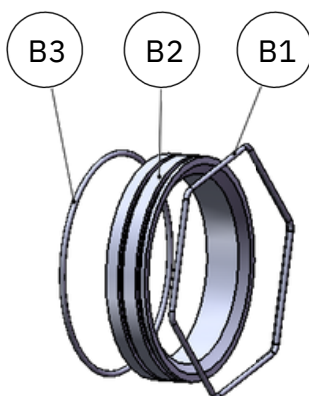
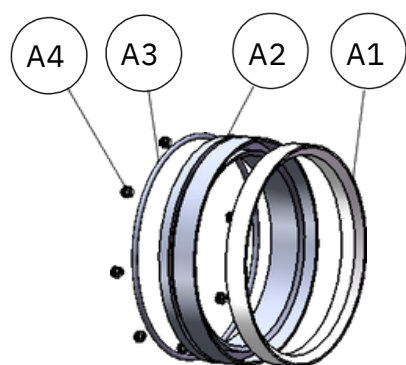




Seat A: Soft Seat

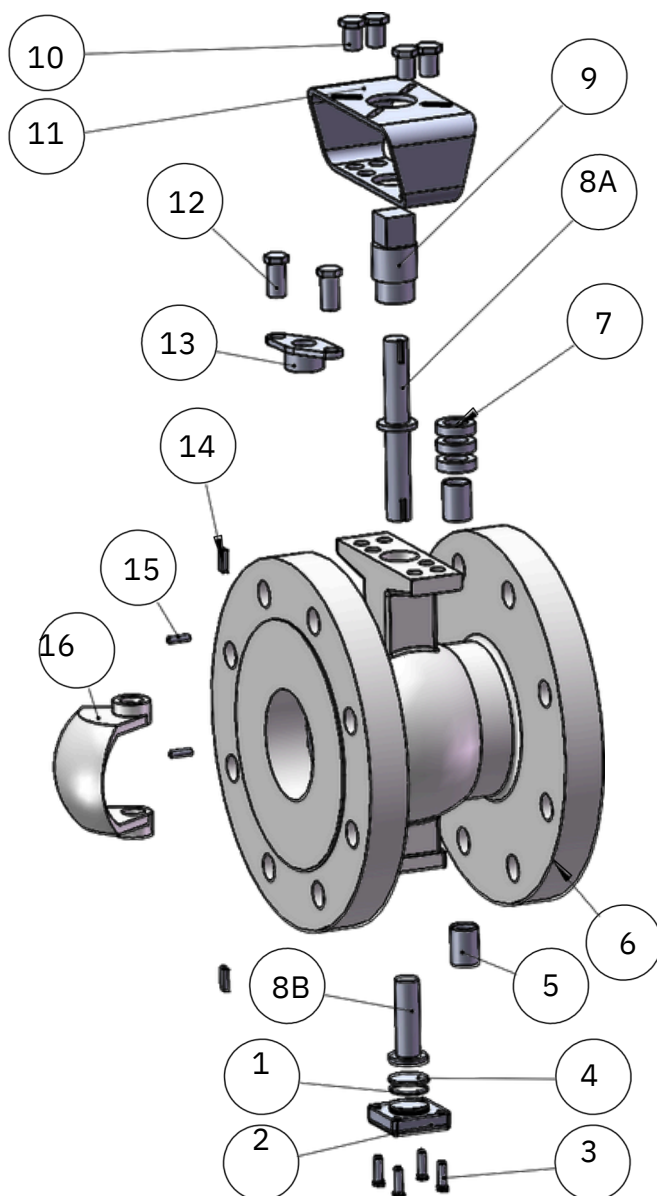
No	Part	Material
A1	Seat	PTFE
A2	Seat Holder	A182 F304/F316
A3	Seal(O ring)	FKM
A4	Spring	SS304/SS316

Seat B: Metal Seat

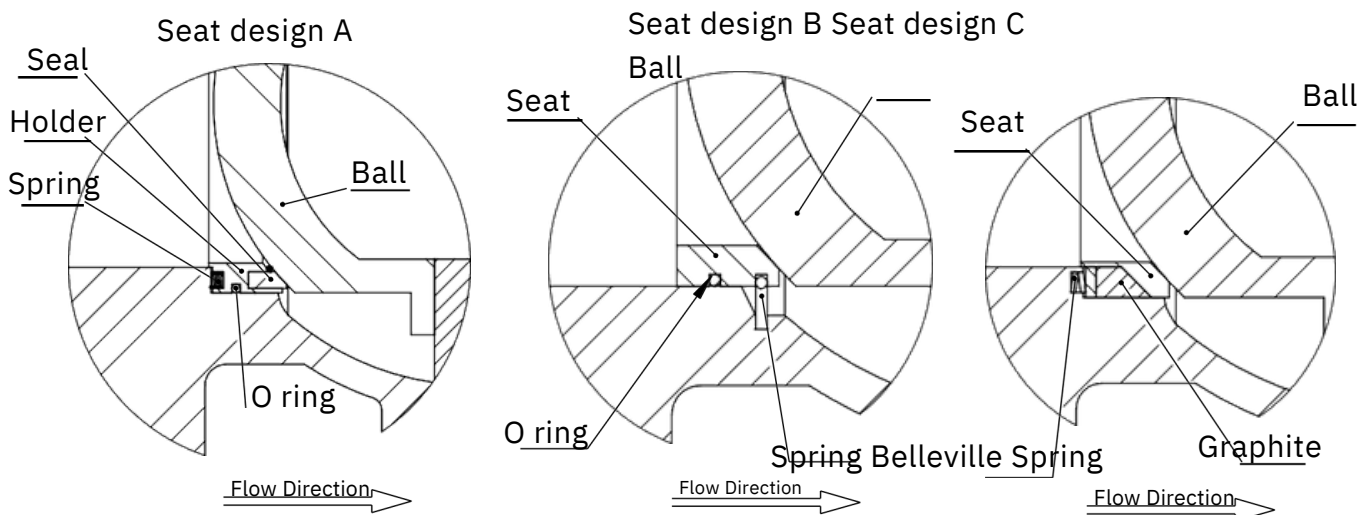
No	Part	Material
B1	Holding Spring	17-7PH
B2	Seat	A182 F304/F316+STL
B3	Seal(O ring)	FKM

Seat C: Metal Seat

No	Part	Material
C1	Seat	A182 F304/F316+STL
C2	Seal	Graphite
C3	Spring Holder	Steel
C4	Belleville Spring	SS304/SS316



No	Part	Material		
		WCB Body	CF8 Body	CF8M Body
1	Stand Seal	FKM	FKM	FKM
2	Stand	A216 WCB	A351 CF8	A351 CF8M
3	Screw	A193 B7	A193 B8	A193 B8M
4	Gasket	PTFE+CS	PTFE+SS	PTFE+SS
5	Bushing	PTFE+SS	PTFE+SS	PTFE+SS
6	Body	A216 WCB	A351 CF8	A351 CF8M
7	Packing	PTFE	PTFE	PTFE
8A	Upper Shaft	17-4PH	17-4PH	17-4PH
8B	Lower Shaft	SS420	A182 F304	A182 F316
9	Adapter	Steel	Steel	Steel
10	Screw	A193 B7	A193 B7	A193 B7
11	Mount	Carbon Steel	Carbon Steel	Carbon Steel
12	Gland Screw	A193 B7	A193 B8	A193 B8M
13	Gland	A216 WCB	A351 CF8	A351 CF8M
14	Shaft Key	SS1045	SS304	SS316



Applicable condition

	Seat A	Seat B	Seat C
Max working Pressure	<=20bar(or Class 150,PN10,PN16)		
Temperature Range(°c)	-29~180	-29~220	-29~425

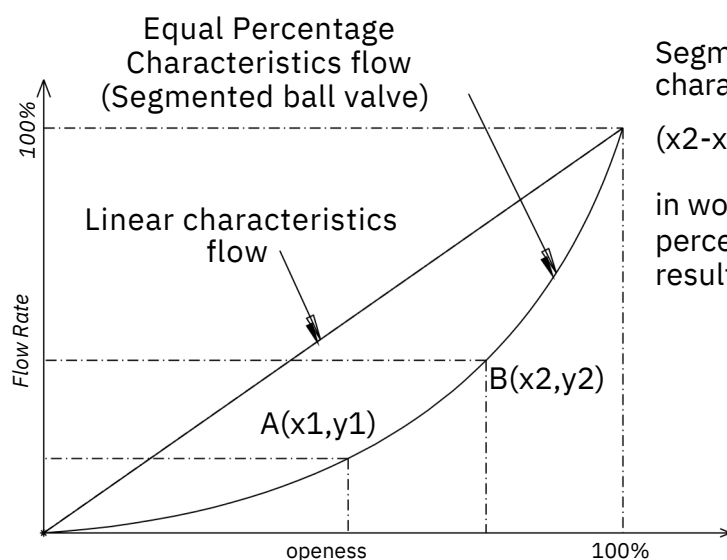
Max allowed Leakage Rate

	Seat A	Seat B	Seat C
DN25/NPS1	0.15 cc/min	1.5 cc/min	
DN32/NPS1 1/4	0.19 cc/min	1.9 cc/min	
DN40/NPS 1 1/2	0.24 cc/min	2.4 cc/min	
DN50/NPS2	0.30 cc/min	3 cc/min	
DN65/NPS2 1/2	0.39 cc/min	3.9 cc/min	
DN80/NPS3	0.48 cc/min	4.8 cc/min	
DN100/NPS4	0.60 cc/min	6 cc/min	
DN125/NPS5	0.75 cc/min	7.5 cc/min	
DN150/NPS6	0.90 cc/min	9 cc/min	
DN200/NPS8	1.20 cc/min	12 cc/min	
DN250/NPS10	1.50 cc/min	15 cc/min	

Standard Compliance:
Seat A:
FCI70.2/B16.104/ISA75.02

Seat B,Seat C:
10xISO5208 Rate D

Equal Percentage Curve flow characteristics

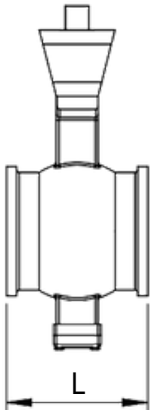
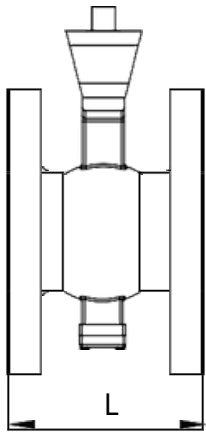


Segmented ball valve has a Equal percentage characteristics feature:

$$(x_2 - x_1) / x_1 = (y_2 - y_1) / y_1$$

in words, it means
percentage of openness change
result in same percentage of flow rate.

FTF,Weight,Torque,Cv



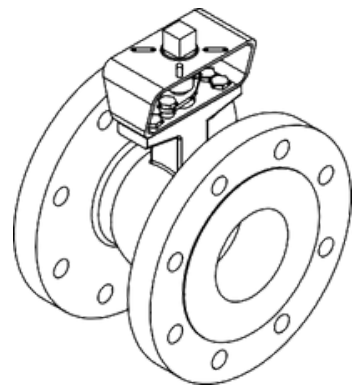
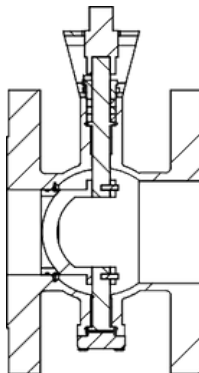
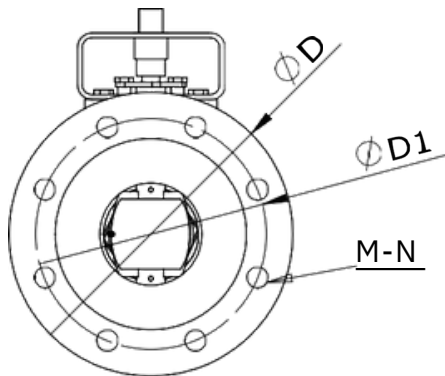
Size		FTF:L(mm) (See note 1)		Est. Weight(kg) (See note 2)		Stem Torque (N.m) (see note 3)	Cv (at max angle)
25	1	50	102	3	4	35	36
32	1 1/4	60	102	4	5.5	40	56
40	1 1/2	60	114	4.5	6	68	94
50	2	75	124	5.5	8	90	152
65	2 1/2	100	145	6.5	9	100	262
80	3	100	165	11	14	140	358
100	4	115	194	16	21	150	460
125	5	129	194	17	23	200	906
150	6	160	229	30	37	300	1424
200	8	200	243	45	58	500	2176
250	10	240	297	68	85	900	3532

Note 1: Flange ended Valve FTF conform to ISA S75.04,

Wafer ended valve conform to Manufacturer's design

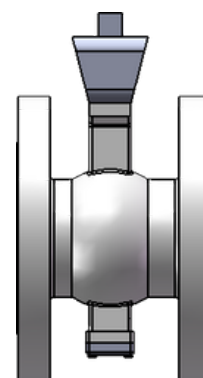
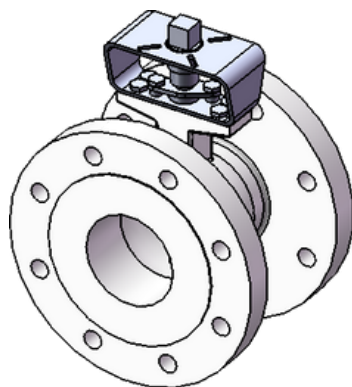
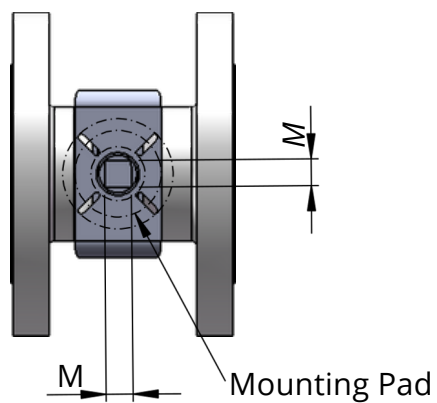
Note 2: Estimated weight is subject to change without prior notice

Note 3 : Torque is measured under 2.2Mpa differential pressure, 30% safety factor is already included.



Flange Drilling

Size		ANSI B16.5 Class 150			ISO/EN/DIN 1092_1/PN10			ISO/EN/DIN 1092_1/PN16			JIS10K		
DN	NPS	Ø D	Ø D1	M-N	Ø D	Ø D1	M-N	Ø D	Ø D1	M-N	Ø D	Ø D1	M-N
25	1	110	79.4	4-5/8"	115	85	4-14	115	85	4-14	115	85	4-14
32	1 1/4	115	88.9	4-5/8"	140	100	4-18	140	100	4-18	140	100	4-18
40	1 1/2	125	98.4	4-5/8"	150	110	4-18	150	110	4-18	150	110	4-18
50	2	150	120.7	4-3/4"	165	125	4-18	165	125	4-18	165	125	4-18
65	2 1/2	180	139.7	4-3/4"	185	145	4-18	185	145	4-18	185	145	4-18
80	3	190	152.4	4-3/4"	200	160	8-18	200	160	8-18	200	160	8-18
100	4	230	190.5	8-3/4"	220	180	8-18	220	180	8-18	220	180	8-18
125	5	255	215.9	8-7/8"	250	210	8-18	250	210	8-18	250	210	8-18
150	6	280	241.3	8-7/8"	285	240	8-18	285	240	8-18	285	240	8-18
200	8	345	298.5	8-7/8"	340	295	8-22	340	295	12-22	340	295	12-22
250	10	405	362.0	12-1"	395	350	12-22	405	355	12-26	405	355	12-26



Stem End with square drive

Size	DN25 1"	DN32 1 1/4"	DN40 1 1/2"	DN50 2"	DN65 2 1/2"	DN80 3"	DN100 4"	DN125 5"	DN150 6"	DN200 8"	DN250 10"
MXM(mm)	14x14	14x14	14x14	14x14	14x14	17x17	17x17	22x22	27x27	27x27	27x27
ISO5211 Pad	F05XF07	F05XF07	F05XF07	F05XF07	F05XF07	F07XF10	F07XF10	F07XF10	F10XF12	F10XF12	F12XF14

Valve Body Pressure temperature rating

