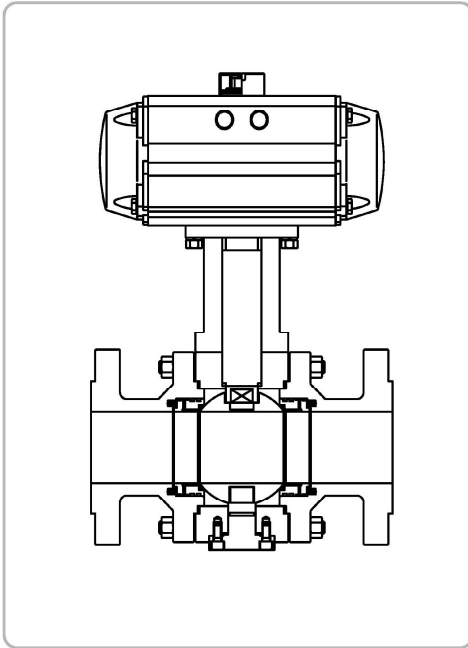


# BALL VALVE

## 3-PIECE TRUNNION MOUNTED TYPE

BALL VALVE



### 1. INTRODUCTION : TRUNNION MOUNTED TYPE

2200 Series : Trunnion mounted ball valve has been designed for application on process lines that require high temperature, high pressure and slurry compounds,

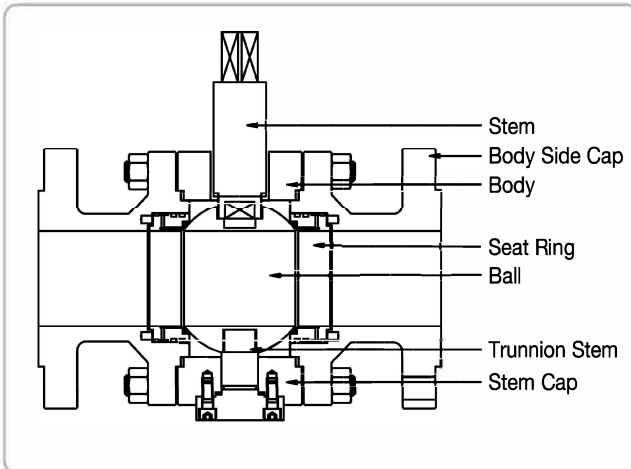
Wide selection of hard facing contributes to abrasion and stabilizes the process line by reducing the wearing and tearing during metallic slurry lines, The surface of both ball and seat maintains precise out-of-roundness and surface illumination allowing lesser torque,

It has been built for process lines that require tight shut-off,

Various design application of 3 piece and top entry type allows simple maintenance and repair,

#### NOTE

The sizes of serial valves connecting flange and butt-welding terminals can be designed according to the customer's conditions and requirements.



### 2. INNER STRUCTURE & PART-NAMES

#### Pressure Rating

Ansi Class 150, 300, 600, 900, 1500

#### End Connection

Flange End : FF, RF, RTJ, SW, BW, etc.

#### Material

Body : A216-WCB, A351-CF8/CF8M/CF3/CF3M, etc.

Trim : A276-304/316/304L/316L, etc.

Gasket : A240-316 + Graphite Spiral Wound, etc.

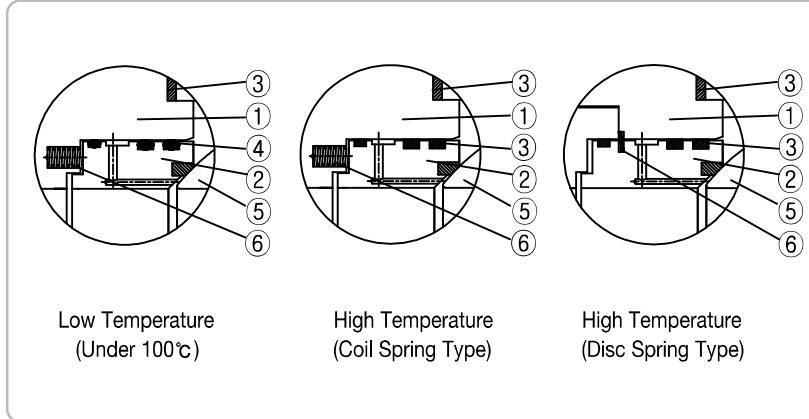
#### Flow Direction

FTC : Flow action to Close

# BALL VALVE

## 2-PIECE FLOATING & TRUNNION TYPE

### 3. SEAT TYPE



No	Part Name	Materials
1	Body	A351-CF8/CF8M etc.
2	Seat	A351-CF8M+HF etc.
3	Gasket	Graphite etc.
4	O-Ring	Viton etc.
5	Ball	A351-CF8M+HF etc.
6	Spring	In Conell

BALL VALVE

### 4. TRUNNION MOUNTED BALL VALVE TORQUE

NPS (inch) Class (Lb)	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20
	150	87	112	133	214	380	540	1050	1290	1560	2730	3700	4930
300	120	153	178	377	650	866	1630	2150	2470	3360	4950	6700	9230
600	225	283	340	638	890	1520	2650	3150	3720	6660	7650	11250	19240
900	304	382	424	863	1630	2480	3850	4880	5790	9860	13110	20640	29000
1500	476	573	688	1351	2120	3850	5950	7250	8820	1503	19930	32030	45690
Size(mm) Pressure(Mpa)	50	65	80	100	125	150	200	250	300	350	400	450	500
	1.6	87	112	133	214	380	540	1050	1290	1560	2730	3700	4930
2.5 ~ 4.0	120	153	178	377	650	866	1630	2150	2470	3360	4950	6700	9230
6.4	225	283	340	638	890	1520	2650	3150	3720	6660	7650	11250	19240
10.0	304	382	424	863	1630	2480	3850	4880	5790	9860	13110	20640	29000

### 5. STANDARD SIZE & Cv VALUE

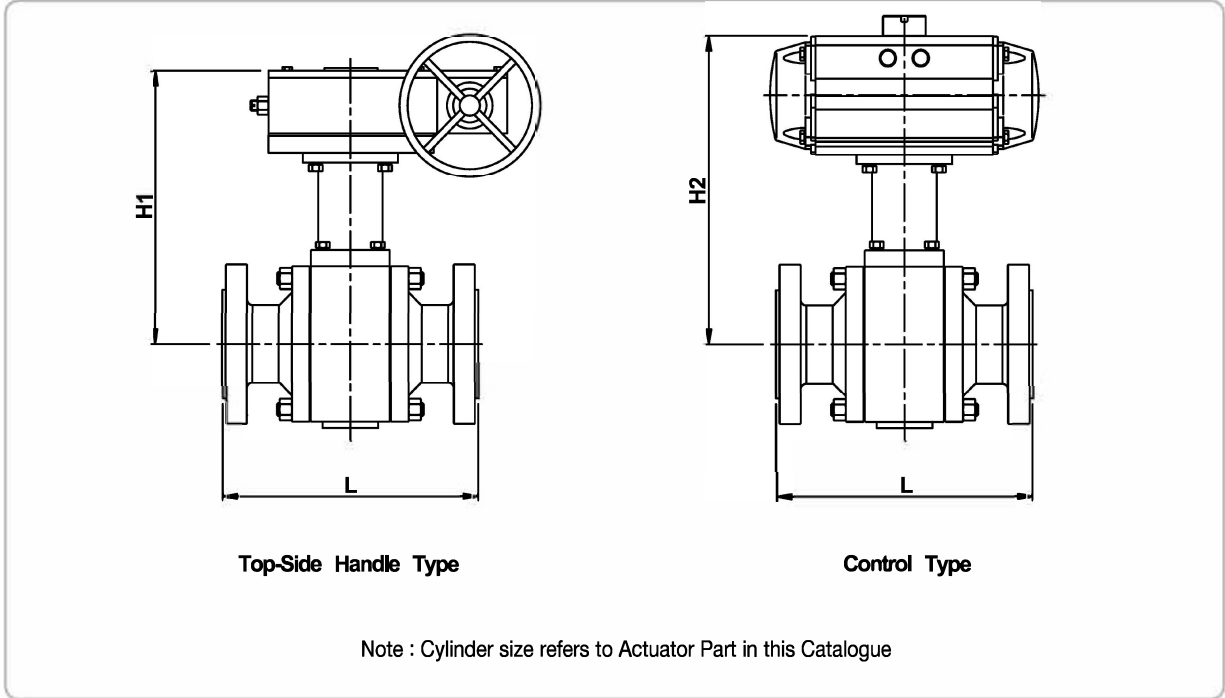
Valve Type		2 Way Ball For Trunnion Mounted Type												
Size	inch	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20
	mm	50	65	80	100	125	150	200	250	300	350	400	450	500
Cv Value (Full)		480	750	1300	2300	3600	5400	10000	16000	24000	31400	43000	-	-

# BALL VALVE

## 3-PIECE TRUNNION MOUNTED TYPE

### 6. STANDARD EXTERNAL DIMENSIONS

BALL VALVE



#### 6-1. STANDARD EXTERNAL DIMENSIONS : PN1.6MPa ( Class 150Lb )

Unit : mm

NPS	inch	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20
DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500
Face To Face	L	178	190	203	305	356	394	457	533	610	686	762	864	914
Center to Top-Face	H1	174	248	258	322	395	457	595	630	728	883	1154	1224	1294
	H2	269	379	389	479	552	666	804	839	972	1127	1459	1529	1559

#### 6-2. STANDARD EXTERNAL DIMENSIONS : PN2.5 / 4.0MPa ( Class 300Lb )

Unit : mm

NPS	inch	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20
DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500
Face To Face	L	216	241	283	305	381	403	502	568	648	762	838	914	991
Center to Top-Face	H1	209	248	295	322	386	386	527	698	750	883	975	1080	1154
	H2	269	379	452	579	595	595	736	942	994	1188	1280	1480	1554

Note : Face to face dimensions conform to IEC 534-3 : 1976 Specifications.

# BALL VALVE

## 3-PIECE TRUNNION MOUNTED TYPE

### 6-3. STANDARD EXTERNAL DIMENSIONS : PN6.4MPa ( Class 400Lb )

Unit : mm

NPS	inch	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600
Face To Face	L	292	330	356	406	495	597	673	762	826	902	978	1054	1232
Center to Top-Face	H1	247	293	332	373	443	483	613	795	839	953	1045	1150	1275
	H2	269	379	452	579	595	595	736	942	994	1188	1280	1480	1554

BALL VALVE

### 6-4. STANDARD EXTERNAL DIMENSIONS : PN10.0MPa ( Class 600Lb )

NPS	inch	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600
Face To Face	L	292	330	356	432	559	660	787	838	889	991	1092	1194	1397
Center to Top-Face	H1	247	293	332	386	475	515	670	833	870.5	997.5	1102	1220	1357
	H2	269	379	452	579	595	595	736	942	994	1188	1280	1480	1554

### 6-5. STANDARD EXTERNAL DIMENSIONS : PN15.0MPa ( Class 900Lb )

Unit : mm

NPS	inch	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600
Face To Face	L	368	419	381	457	610	737	838	965	1029	1130	1219	1321	1549
Center to Top-Face	H1	285	338	345	399	501	554	696	897	941	1067	1166	1284	1433
	H2	519	611	728	842	1014	1120	1124	1374	1490	1615	1760	1760	1760

Note : Face to face dimensions conform to IEC 534-3 : 1976 Specifications.