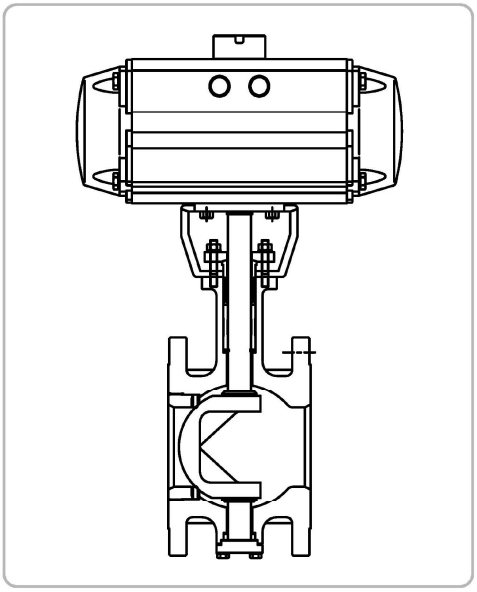
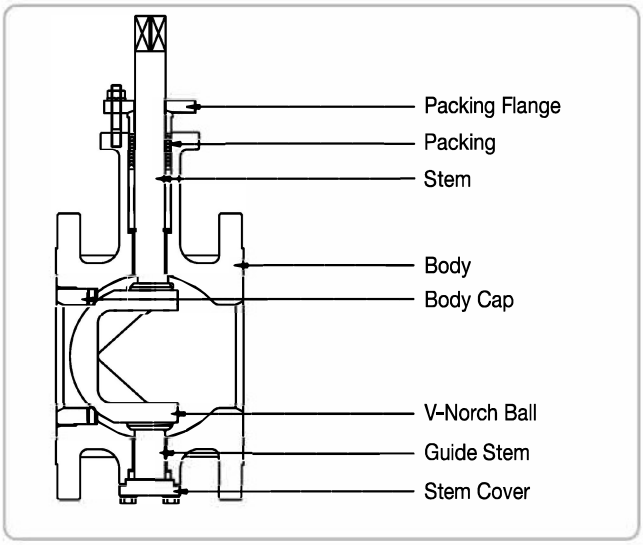
BALL VALVE

GENERAL & V-NOTCH SEGMENT TYPE



1. INTRODUCTION : GENERAL & V-NOTCH SEGMENT TYPE

2300 Series : The ball of Model 2300 series segment ball valve has been designed with a "V" cut and through this unique "V" cut, modulation has been made possible as a ball valve.
"V" cut guarantees even flow of fluids to control pulp & paper and precise amount of fluids.
The end of the ball was created with an ideal cutting angle that has been proven effective in controlling the flow of pulp, paper and slurry.



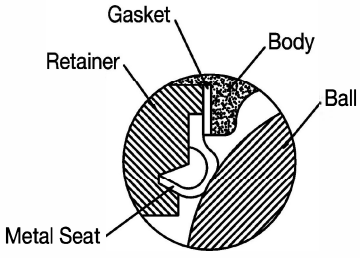
2. INNER STRUCTURE & PART-NAMES

Pressure Rating
Ansi Class 150, 300, 600, 900, 1500

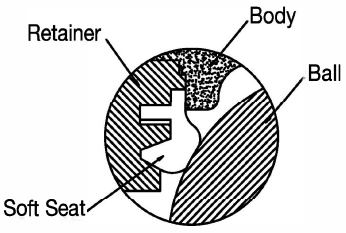
End Connection
Flange End : FF, RF, RTJ, SW, BW, etc.

Material
Body : A216-WCB, A351-CF8/CF8M/CF3/CF3M, etc.
Trim : A276-304/316/304L/316L, etc.
Gasket : A240-316 + Graphite Spiral Wound, etc.

3. SEAT STYLE & INSTRUCTION

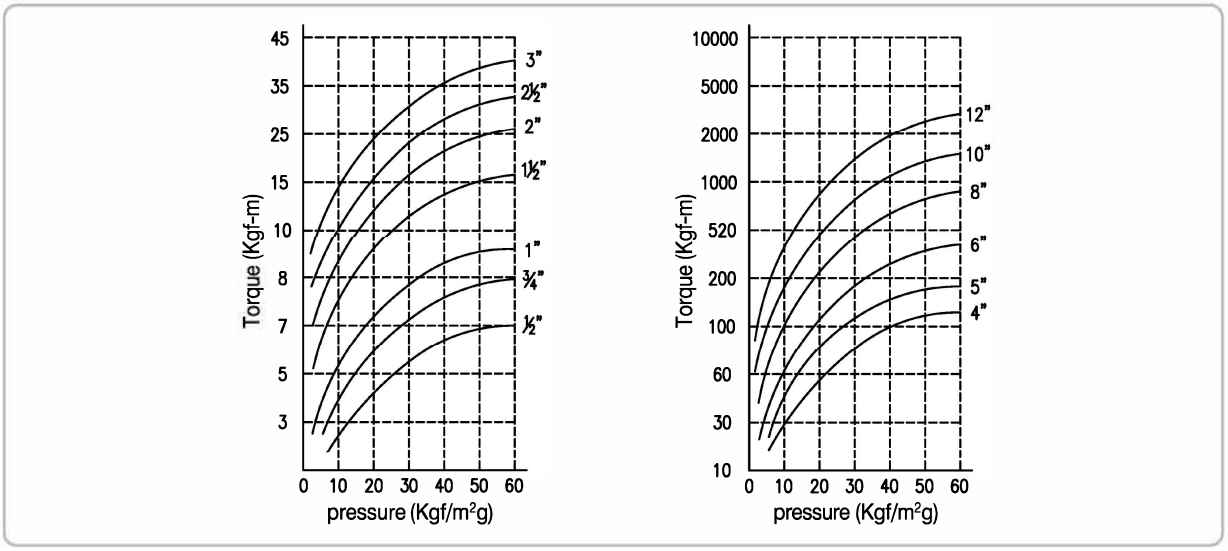


Metal Seat Type



Soft Seat Type

4. VALVE TORQUE CURVE (Kgf.m)



1) Superb Flow Characteristics :
Precise contouring of the ball provides a very close equal percentage flow characteristic.

2) High Rangeability :
This tough design with low operating torque enables the valve to be used with higher rangeability application than many other globe valves.

3) Interchangeability :
Unlike flanged ball valves, VALMAC's design is excellent in most services. Control balls, sizes 2" to 12" can be used in services from ANSI 150 to 300 Lb. This enables the customer to minimize stocks of control ball valves by size.

4) Low Dead Band :
Clamped actuator levers with a splined valve shaft aid in minimizing lost motion and improves control accuracy.

5) Low & High Temperature Capability :
Many construction materials and close machine tolerances gives the HAV Valve design the versatility to be used for applications over a wide temperature range.

5. STANDARD SIZE & Cv VALUE

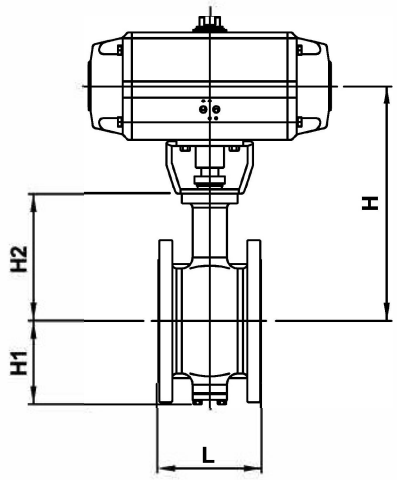
Valve Size		Reactive Travel (%)						Valve Size		Reactive Travel (%)					
inch	mm	10	30	50	70	90	100	inch	mm	10	30	50	70	90	100
1/2	15	0.21	0.45	1.04	2.25	5.04	7.51	4	100	14.26	31.03	67.83	148.44	324.6	480.2
3/4	20	0.51	1.20	2.50	5.31	4.52	17.05	5	125	22.17	48.52	106.04	231.94	507.3	750.1
1	25	0.92	1.97	4.28	9.25	21.00	30.25	6	150	31.95	89.87	152.76	333.92	730.4	1080.4
1 1/2	40	2.00	4.37	9.55	20.87	45.65	68.00	8	200	56.77	124.15	271.53	593.73	1298.5	1920.3
2	50	3.55	7.76	16.97	37.11	81.1	120.0	10	250	88.72	194.04	424.26	927.77	2028.7	3000.1
2 1/2	65	5.55	12.13	26.52	57.98	126.8	188.0	12	300	127.75	279.38	610.94	1336.4	2921.5	4320.2
3	80	7.99	17.46	38.18	83.50	182.6	270.4	14	350	-	-	-	-	-	-

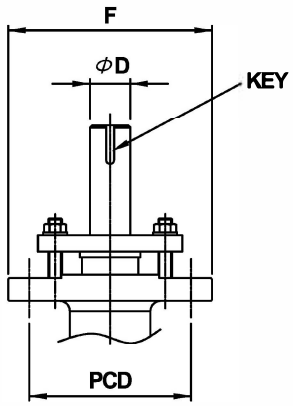
* Note 1) Fluid : Water 2) Pressure Drop : 1Lb/in^2

BALL VALVE

GENERAL & V-NOTCH SEGMENT TYPE

6. STANDARD EXTERNAL DIMENSIONS





6-1. KEY SIZE

Unit : mm

	F	ϕD	PCD	KEY
1/2 ~ 1 1/2 inch	100X40	ϕ15	80	5x5x20L
3 ~ 4 inch	110X50	ϕ20	80	6x6x30L
5 ~ 6 inch	ϕ125	ϕ25	102	8x7x30L

	F	ϕD	PCD	KEY
8 ~ 10 inch	ϕ175	ϕ35/ϕ40	140	10x8x40L
12 inch	ϕ175	ϕ45	140	14x9x50L

6-2. DIMENSIONS

Unit : mm

NPS (inch)		1/2	3/4	1	1 1/2	2	1/2	3	4	5	6	8	10	12
DN (mm)		15	20	25	40	50	65	80	100	125	150	200	250	300
L	150Lb	108	117	127	165	178	190	203	229	356	394	457	533	610
	300Lb	140	152	165	190	216	241	283	305	381	403	502	568	648
H		212.5	212.5	220	230	240	260	276	289	389	305	496	551	602
h1		57.5	57.5	55	65	75	85	101	117	139	155	196	234	280
h2		79.5	79.5	85.5	95	100	110	129	145	167	183	234	284	324

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