

# SHANGHAI CIPHY INDUSTRY CO.,LTD.

## ANSI CLASS 150/300

### CARBON STEEL OR STAINLESS STEEL

### V-PORT BALL VALVE FLANGED ENDS

#### MODEL NO: SLAXRF-VP



#### BALL VALVE PRODUCT'S SIZE:

PRESSURE GRADE	FROM	TO
CLASS 150	1"	10"
CLASS 300	1"	10"

#### DESIGN DESCRIPTION:

- \* BOLTED CAP,
- \* V-PORT
- \* CONNECTION: FLANGED ENDS
- \* SOFT SEAL, AVAILABLE METAL SEAL.

#### WORKING PRESSURE AND TEMPERATURE

WORKING TEMPERATURE		
MATERIAL	CELSIUR SCALE	FAHRENHEIT
CARBON STEEL	-29 <sup>0</sup> C~425 <sup>0</sup> C	6 <sup>0</sup> F~822 <sup>0</sup> F
STAINLESS STEEL	-40 <sup>0</sup> C~550 <sup>0</sup> C	15 <sup>0</sup> F~1047 <sup>0</sup> F

#### GENERAL DESIGN SPECIFICATIONS:

ITEM	CLASS 150/300
MANUFACTURE	FACTORY STD
PRESSURE-TEMPERATURE RATINGS	ANSI B16.34
FACE TO FACE	FACTORY STD
END FLANGE	ANSI B16.5
INSPECTION AND TEST	API 598

#### TEST PRESSURE TO API 598:

ANSI	SHELL (WATER)		SEAT (WATER)		SEAT (AIR)	
150	3.1MPA	450PSI	2.2MPA	315PSI	2.2MPA	315PSI
300	7.8MPA	1125PSI	5.6MPA	815PSI	5.6MPA	815PSI

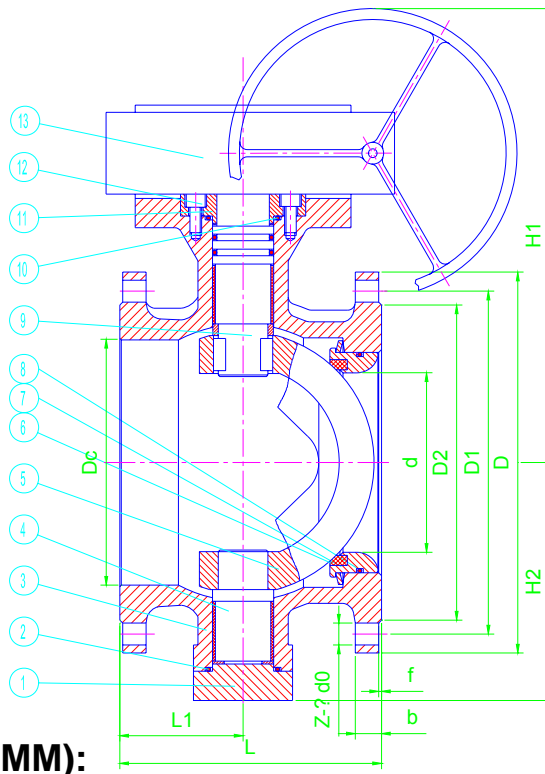
#### RELATION BETWEEN CORRESPONDING OPEN AND FLOW COEFFICIENT Cv:

SIZE		RELATIVE OPEN DEGREE					
		10%	30%	50%	70%	90%	100%
DN	INCH	FLOW VOLUME COEFFICIENT Cv					
25	1	0.5	2	5.2	10	19	28
40	1-1/2	1.2	5.7	15	30	54	81
50	2	1.9	8.8	23	46	83	125
65	2-1/2	3.2	14	39	76	138	208
80	3	4.4	20	54	106	192	290
100	4	7	33	86	170	308	465
125	5	10	46	122	240	436	658
150	6	13	60	157	310	564	850
200	8	21	97	255	503	915	1380
250	10	33	152	401	792	1440	2170

#### PARTS AND MATERIAL (ASTM):

NO.	PARTS NAME	MATERIALS				
1	LOWER CAP	ASTM A216-WCB	A351-CF8	A351-CF8M	A351-CF3	A351-CF3M
2	GASKET	RPTFE/GRAPHITE				
3	BODY	ASTM A216-WCB	A351-CF8	A351-CF8M	A351-CF3	A351-CF3M
4	LOWER STEM	ASTM A182-F6	A182-F304	A182-F316	A182-F304L	A182-F316L
5	V BALL	ASTM A105+ENP	A182-F304	A182-F316	A182-F304L	A182-F316L
6	SEAT SEAL RING	PTFE/RPTFE/NYLON				
7	METAL SEAT	A105+ENP	F304	F316	F304L	F316L
8	O-RING	EPDM/NBR/VITON				
9	STEM	ASTM A182-F6	A182-F304	A182-F316	A182-F304L	A182-F316L
10	O-RING	EPDM/NBR/VITON				
11	COMPRESSION PLATE	ASTM A182-F6	A182-F304	A182-F316	A182-F304L	A182-F316L
12	CAP STUD	ASTM A193 B7	ASTM A193 B8M			
13	GEAR	DUCTILE IRON				

OTHER MATERIALS ARE AVAILABLE UPON REQUEST.



**DIMENSIONS LIST(UNIT:MM):**

CLASS 150													
49	INCH	L	L1	D	D1	D2	b	f	Z-φd	Dc	H	H1	WEIGHT(kg)
60	1	102	51	108	79.5	51	11.5	1.6	4-15	38	200	57	11
75	1-1/2	114	57	127	98.5	73	14.5	1.6	4-15	49	205	63	14
89	2	124	62	152	120.5	92	16	1.6	4-19	60	225	92	20
113	2-1/2	145	72.5	178	139.5	105	17.5	1.6	4-19	75	235	100	24
140	3	165	82.8	190	152.5	127	19.5	1.6	4-19	89	260	108	33
164	4	194	97	229	190.5	157	24	1.6	8-19	113	270	117	49
205	5	210	105	254	216	186	24	1.6	8-22	140	320	140	59
259	6	229	114.5	279	241.5	216	25.5	1.6	8-22	164	340	177	80
200	8	243	121.5	343	298.5	270	29	1.6	8-22	205	390	200	108
250	10	297	148.5	406	362	324	31	1.6	12-25	259	420	252	145
CLASS 300													
25	1	102	51	124	89	51	17.5	1.6	4-19	38	200	57	13
40	1-1/2	114	57	156	114.5	73	21	1.6	4-22	49	205	63	16
50	2	124	62	165	127	92	22.5	1.6	8-19	60	225	92	22
65	2-1/2	145	72.5	190	149	105	25.5	1.6	8-22	75	235	100	26
80	3	165	82.8	210	168.5	127	29	1.6	8-22	89	260	108	37
100	4	194	97	254	200	157	32	1.6	8-22	113	270	117	55
125	5	210	105	279	235	186	35	1.6	8-22	140	320	140	65
150	6	229	114.5	318	270	216	37	1.6	12-22	164	340	177	95
200	8	243	121.5	381	330	270	41.5	1.6	12-25	205	390	200	138
250	10	297	148.5	445	387.5	324	48	1.6	16-29	259	420	252	185

**\* We hereby reserve the rights of any alternative dimension that would help to improve our valve's quality and working efficiency**



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