ENGINEERING RE-DEFINED

SATURN®
VALVES

Mevada Engineering Works Pvt. Ltd.

CAST STEEL GATE VALVE
CAST STEEL GLOBE VALVE
CAST STEEL SWING CHECK VALVE
WAFER NON SLAM CHECK VALVE
WAFER SWING TYPE / SPRING LOADED CHECK VALVE

ISO 9001
BUREAU VERITAS
Certification

6D-0847

50 Years
OF SERVICE

Swing Check Valve

Bolted Bonnet, Flanged Carbon, Alloy and Stainless Steel

SATURN® VALVES

SIZE	CLASS	MODEL NO.
DN 40-400 (11/2"-16")	150	CH-2-S-F-A1
DN 40-200 (11/2"- 8")	300	CH-2-S-F-A2
DN 40-200 (11/2"- 8")	600	CH-2-S-F-A3

Features

- Swing type having Free & Positive Rotation of Disc via Hanger/Hinge Support Having Excellent Bearing Qualities
- Parts Are Easily Accessible From Top For Servicing & carrying out In-line maintenance
- Renewable seats & Seals Helps to replace the damage seals and provides added life to the valve
- Full bore assures NO PRESSURE DROP across the valve

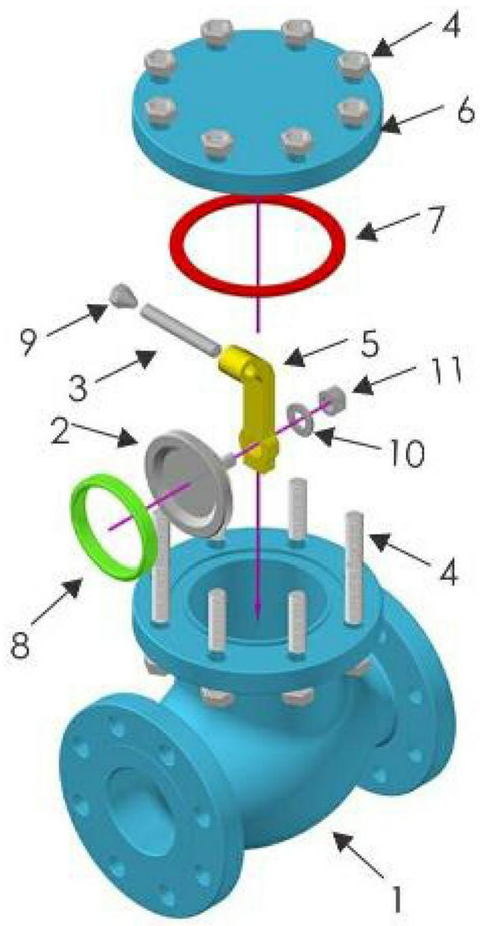
STANDARDS COMPLIANCE

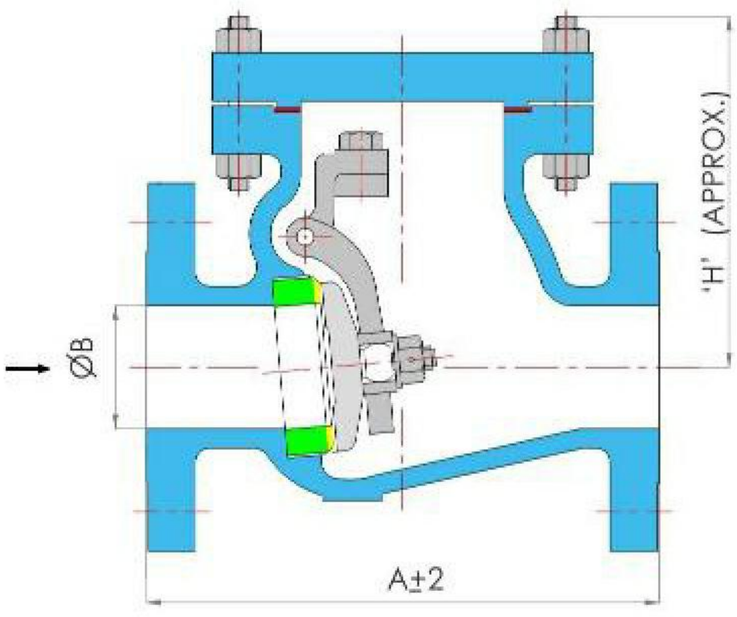
- Valve Design BS1868, ASME B 16.34
- End to End ASME B16.10 & ISO 5752
- Flanged Dimensions ASME B16.5 & ISO 7005-1 Part. 1
- Buttweld Dimensions ASME B16.25
- Visual Inspection MSS SP- 55
- Marking MSS SP-25 & ISO 5209

TESTS AND CERTIFICATES

- Pressure testing API 598 & BS EN 12266-1
- Other ISO 9001:2008

No.	DESCRIPTION	MATERIAL				
		ASTM SPECIFICATION				
1	BODY	A 216 WCB	A 351 CF8	A 351 CF3	A 351 CF8M	A 351 CF3M
2	DISC	A276-410 OR WITH STL.	A 351 CF8	A 351 CF3	A 351 CF8M	A 351 CF3M
3	HINGE PIN	CARBON STEEL	STAINLESS STEEL			
4	STUD & NUTS	A 193 GR.B7/194 2H	A 193 GR.B7/A194 GR.2H OR B8/8			
5	HINGE	SS410	SS 304	SS304 L	SS316	SS316 L
6	COVER	A 216 WCB	A 351 CF8	A 351 CF3	A 351 CF8M	A 351 CF3M
7	GASKET	SS 304 SPW + GRAPHITE			SS 316 SPW + GRAPHITE	
8	SEAT RING	A276-410 OR WITH STL.	A 351 CF8	A 351 CF3	A 351 CF8M	A 351 CF3M
9	PLUG	A105	A182F304		A182F316	
10	DISC WASHER	CARBON STEEL	STAINLESS STEEL			
11	DISC NUT	CARBON STEEL	STAINLESS STEEL			





SIZE	B	CLASS 150		CLASS 300		CLASS 600	
		A	H	A	H	A	H
40	38	165	135	241	154	241	173
50	51	203	142	267	163	292	185
65	63	216	155	292	187	330	203
80	76	241	175	318	200	336	228
100	102	292	214	356	230	432	264
125	125	330	230	400	230	508	296
150	152	356	241	445	255	559	336
200	203	495	299	533	275	660	386
250	254	622	354	622	332		
300	306	699	395	711	409		
350	337	787	485				
400	387	864	493				
500	489	978	579				

ALL DIMENSIONS ARE IN MM

Design and dimensions are subject to change without prior notice

Manufacturing Range

®

TYPE	ASME CLASS	PIPE ENDS	SIZES																	
			15 1/2"	20 3/4"	25 1"	40 1 1/2"	50 2"	65 2 1/2"	80 3"	100 4"	125 5"	150 6"	200 8"	250 10"	300 12"	350 14"	400 16"	450 18"	500 20"	600 24"
Gate Valve	150	FLANGE				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	300	FLANGE				•	•	•	•	•	•	•	•	•	•					
	600	FLANGE				•	•	•	•	•	•	•								
Globe Valve	150	FLANGE				•	•	•	•	•	•	•	•	•	•	•	•			
	300	FLANGE				•	•	•	•	•	•	•	•	•	•					
	600	FLANGE				•	•	•	•	•	•	•								
Swing Check Valve	150	FLANGE				•	•	•	•	•	•	•	•	•	•	•	•			
	300	FLANGE				•	•	•	•	•	•	•	•							
	600	FLANGE				•	•	•	•	•	•	•								
NON SLAM CEHCK VALVE	150 & 300	WAFER	•	•	•	•	•	•	•	•	•	•								
SWING/SPRING LOADED CHECK VALVE	PN 16	WAFER			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

NOTE : 1) OPERATOR : HAND WHEEL & GEAR FOR GATE AND GLOBE VALVES
2) EXTENDED STEM IN & GATE & GLOBE VALVES CAN BE PROVIDED TO SUIT PIPING INSULATIONS.

API 600 Trim Material

API Trim No.	Trim Code	Stem/ Back Seat	Seating Surface	Disc/Wedge Surface	Service
1	F6	13% Cr 200-275 HBN MIN.	13% Cr 250 HBN MIN.	13% Cr 200 HBN MIN.	For Oil & oil vapors and general services with heat treated seats and wedges.Generally very low erosive or non-corrosive service between -100˚C and 320 ˚C.Steam, gas & general service to 370 ˚C. Oil & Oil vapor 480˚C.
2	304	SS 304	SS 304	SS 304	For moderate pressure in corrosive, low weosive service between -265 ˚C and 450 ˚C.
4	F6H	13% Cr 200-275 HBN MIN.	13% Cr (Hard) 200-275 HBN	13% Cr (Hard)	Seats 275 BHN min.As trim 1 but for medium pressure and more corrosive service.'
5	F6HF	13% Cr 200-275 HBN MIN.	F6+St.Gr.6 350 HBN MIN.	F6+St.Gr.6 350 HBN MIN.	High pressure slightly erosiveand corrosive service between -265˚C and 650˚C and higher pressure. Excellent for high pressure water and steam service.
8	F6HFS	13% Cr 200-275 HBN MIN.	13% Cr.+ Hard Facing 350 HBN MIN.	13% Cr.+ Hard Facing 350 HBN MIN.	For moderate pressure and more corrosive service. Steam,gas & general service to 540˚C.
10	316	SS 316	SS 316	SS 316	For superior resistance to corrosion for liquids and gase which are corrosive to SS410 upto 455˚C.Provides excellent resistance to corrosive media at high temperatures and toughness for service at Low temperatures.
12 or 12A	316HFS	SS 316	SS316+ Hard Facing 350 HBN MIN.	SS316+ Hard Facing 350 HBN MIN.	Same as trim no. 10 but for medium pressure and more corrosive services

Other trim combinations on demand ***HF : Hard facing Using Co or Ni. Cr welding alloy (Stellite)***

Note : Data provided in this chart for information purpose only. Always consult latest API publications to verify information and trim data.MEWPL recommends that customer's engineers analyse service requirement and specify the materials they consider for optimum for the serivice conditions. Temperatures shown will vary depending on service applications, pressure and media type.

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