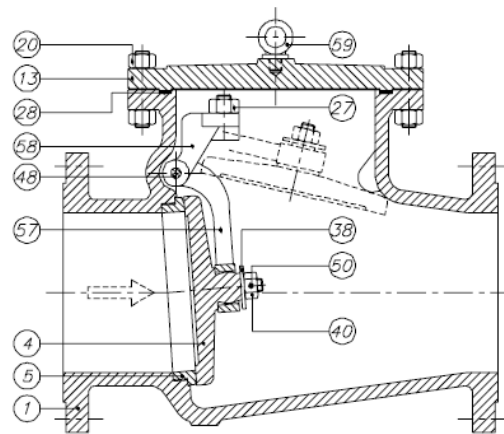


GENERAL FEATURES:

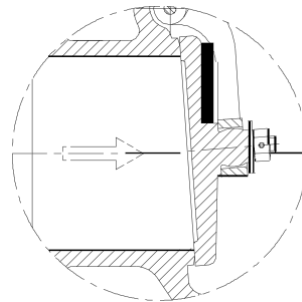
- Check valve
- ANSI class 300
- Diam. 2" ~ 20"



DESIGN STANDARDS	
Valve design	BS 1868 & API 6D, ASME B16.34, MSS SP-42
End to end dimensions	ASME B16.10 & ISO 5752
Flanged dimensions	ASME B16.5 & ISO 7005-1 Part. 1, ASME B16.47, BS 3293, MSS SP-44
Buttweld dimensions	ASME B16.25
Visual inspection	MSS SP-55
Marking	MSS SP-25 & ISO 5209
TESTS AND CERTIFICATES	
Pressure testing	API 598 & ISO 5208, BS 6755 Part. 1, MSS SP-61



Stainless Steel Construction



Item	Description	Materials			
		Carbon Steel	Carbon Steel (Low Temp.)	Alloy Steel	Stainless Steel
1	Body	A 216 Gr. WCB	A 352 Gr. LCB	A 217 Gr. C5	A 351 Gr. CF8M
4	Disc	A 105 + ER410	A 182 Gr. F304	A 182 Gr. F6a	A 182 Gr. F316
5	Seat ring	A 105 + Stellite	A 182 Gr. F304	A 182 Gr. F6a + Stellite	----
13	Cover	A 216 Gr. WCB /	A 352 Gr. LCB /	A 217 Gr. C5	A 351 Gr. CF8M
		A 515 Gr. 70	A 182 Gr. F304		
20	Cover bolt & nut	A 193 Gr. B7 / A 194 Gr. 2H			
27	Bracket stud & nut	A 193 Gr. B8 / A 194 Gr. 8			A 193 Gr. B8M /
					A 194 Gr. 8M
28	Gasket	SS 304 / graphite			SS 316 / graphite
38	Washer	AISI 410	AISI 304	AISI 410	AISI 316
40	Disc nut	AISI 304			AISI 316
48	Hinge pin	A 182 Gr. F6a	A 182 Gr. F304	A 182 Gr. F6a	A 182 Gr. F316
50	Split pin	AISI 304			AISI 316
57	Hinge	A 216 Gr. WCB /	A 352 Gr. LCB	A 217 Gr. C5	A 351 Gr. CF8M
		A 515 Gr. 70			
58	Hinge bracket	A 216 Gr. WCB /	A 352 Gr. LCB	A 217 Gr. C5	A 351 Gr. CF8M
		A 515 Gr. 70			
59	Lifting hook	A 105			

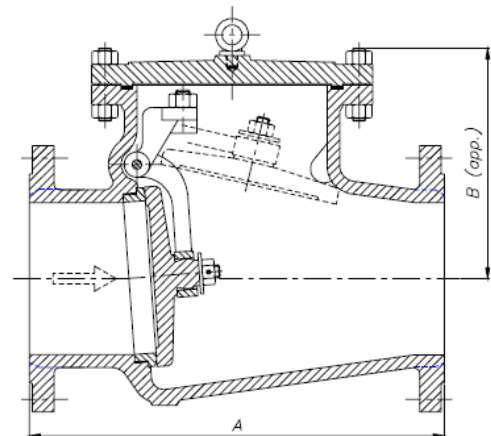
Subject to changes

05/07/2015

API 600 Trim N°	Nominal Trim	Stem / Backseat	Seating Surface Body / Gate
1	F6	13Cr	13Cr
2	304	18Cr-8Ni	18Cr-8Ni
3	F310	25Cr-20Ni	25Cr-20Ni
4	Hard F6	13Cr	Hard 13Cr
5	Hardfaced	13Cr	Co-Cr A
5A	Hardfaced	13Cr	Ni-Cr
6	F6 and Cu-Ni	13Cr	13Cr and Cu-Ni
7	F6 and Hard F6	13Cr	13Cr and Hard 13Cr
8	F6 and Hardfaced	13Cr	13Cr and Co-Cr A
8A	F6 and Hardfaced	13Cr	13Cr and Ni-Cr
9	Monel	Ni-Cu Alloy	Ni-Cu Alloy
10	316	18Cr-8Ni-Mo	18Cr-8Ni-Mo
11	Monel and Hardfaced	Ni-Cu Alloy	Ni-Cu Alloy and Trim 5 or 5A
12	316 and Hardfaced	18Cr-8Ni-Mo	18Cr-8Ni-Mo and Trim 5 or 5A
13	Alloy 20	19Cr-29Ni	19Cr-29Ni
14	Alloy 20 and Hardfaced	19Cr-29Ni	19Cr-29Ni and Trim 5 or 5A
15	Hardfaced	18Cr-8Ni	Co-CRr A
16	Hardfaced	18Cr-8Ni-Mo	Co-CRr A
17	Hardfaced	18Cr-10Ni-Cb	Co-CRr A
18	Hardfaced	19Cr-29Ni	Co-CRr A

DIMENSIONS: (mm)

Diam.	DN	A (RF/BW)	B	Kg
2"	50	268	158	21
2 1/2"	65	292	167	35
3"	80	318	188	43
4"	100	356	259	60
5"	125	400	281	85
6"	150	444	319	131
8"	200	533	401	213
10"	250	622	483	384
12"	300	711	555	449
14"	350	838	585	680
16"	400	864	615	840
18"	450	978	643	1025
20"	500	1016	681	1180



PRESSURE-TEMPERATURE CHART:

Temp. °C	Materials			
	A216 WCB Bar	A352 LCB Bar	A217 C5 Bar	A351 CF8M (**) Bar
-29 ~ 38	51,0	47,9	51,7	49,6
95	46,5	45,1	51,3	42,7
150	45,1	44,1	49,3	38,6
205	43,8	42,7	48,6	35,5
260	41,3	40,3	45,8	33,1
315	37,9	36,9	41,7	31,0
345	36,9	36,2	40,7	30,7
375	36,9		39,3	29,6
400	34,8		36,5	29,3
425	28,2		35,1	28,9
450	18,6		33,4	28,9
485	11,7		25,5	28,6
510	7,2		18,9	26,5
540	3,4		13,8	24,1
565			10,0*	23,8*
595			6,9*	21,0*
620			4,1*	16,2*
650			2,4*	12,7*
675				10,0*
705				7,9*
735				6,5*
760				5,2*
790				4,1*
815				2,8*

* For weld end valves only. Flanged end ratings terminate at 540 °C

** A351 CF8M at temperatures over 538 °C (1000 °F) to be used only if Carbon contents is 0,04% or higher

Cv VALUE: (US Gallons/min) - **Kv VALUE:** (m³/h)

Diam.	DN	Cv	Kv
2"	50	125	108
2 1/2"	65	190	164
3"	80	280	242
4"	100	490	424
5"	125	800	692
6"	150	1150	995
8"	200	2250	1946

Diam.	DN	Cv	Kv
10"	250	3400	2941
12"	300	4900	4239
14"	350	6100	5277
16"	400	8700	7526
18"	450	11550	9991
20"	500	14000	12110

Type	Class	Execution	Material	Trim
VC	150	BB	A	8

Type	
VC	Gate valve
VG	Globe valve
VR	Check valve

Class	
150	ANSI 150
300	ANSI 300
600	ANSI 600

Execution	
BB	Bolted bonnet
BC	Bolted cover

Material	
A	A 216 Gr. WCB
L	A 352 Gr. LCB
I	A 351 Gr. CF8M
X	A 217 Gr. C5

Trim n°	
	1 ~ 18