

Series 70

CAST STEEL CHECK VALVE

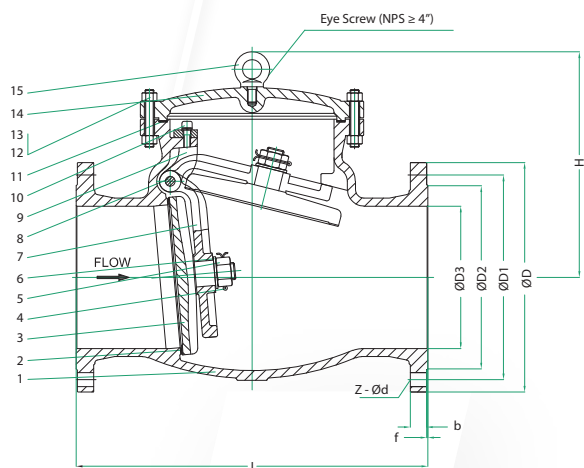


Features / Design

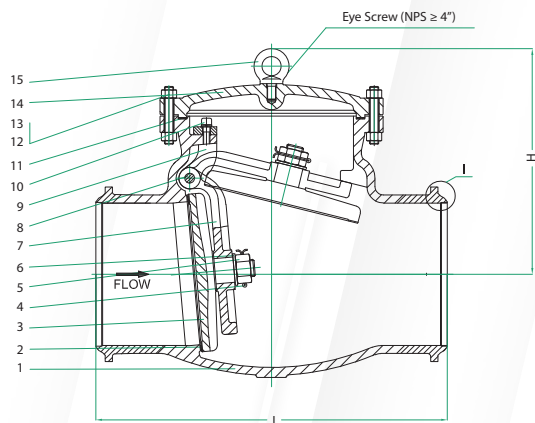


- 1.- Cast Steel, Bolted Cover, Std. Swing Check & Renewable⁽¹⁾ Seats design.
- 2.- Sizes 2" to 24", Class 150# to 2500#.
- 3.- Basic design API 594 Category B & ASME B16.34.
- 4.- Butt Weld ends according to ASME B16.25⁽⁵⁾
- 5.- Flanged ends dimensions ASME B16.5 ($\varnothing \leq 24"$), ASME B16.47 ($\varnothing > 24"$).
- 6.- Shell W.T.⁽²⁾ acc. to API 594, ASME B16.34.
- 7.- Face to face acc. to ASME B16.10.
- 8.- Inspection & Testing API 598.
- 9.- All trim available upon request.
- 10.- Compliance according to MSS SP 25
- 11.- Nace MR 0175 & MR 0103 (Optional)
- 12.- Stop Check is according to API 623 (request drawing see desing)

Design for Flanged Ends

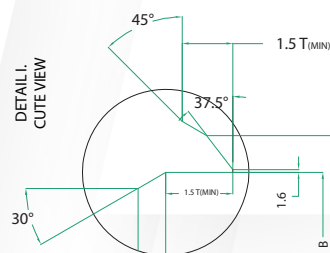


Design for Butt Weld Ends



Standar Material List⁽³⁾

NO.	DESCRIPTION	MATERIAL	
		TRIM 5	TRIM 10
1	BODY	ASTM 216 WCB	A351 CF8M
2	SEAT	A216 WCB + STL6#	A351 CF8M
3	DISC	A216 WCB + 13%Cr	A182 F316
4	COTTER PIN	STAINLESS STEEL	STAINLESS STEEL
5	RETAINING NUT	A194 2H	A194 8
6	DISC WASHER	CARBON STEEL	CARBON STEEL
7	HINGE	A216 WCB	A351 CF8M
8	HINGE PIN	CARBON STEEL	CARBON STEEL
9	YOKE	A216 WCB	A351 CF8M
10	SCREW	CARBON STEEL	CARBON STEEL
11	GASKET	SS304 + GRAPHITE ⁽⁴⁾	SS316 + GRAPHITE ⁽⁴⁾
12	STUD	A193 B7	A193 B8
13	NUT	A194 2H	A194 8
14	COVER	A216 WCB	A351 CF8M
15	EYE SCREW	CARBON STEEL	CARBON STEEL



NOTES:

- (1) Valve also available with renewable seats, please consult with TFV.
- (2) Wall Thickness.
- (3) Material list as example, other materials and trims available; please contact us.
- (4) Flexible Graphite.
- (5) Share us the schedule of you need.



Dimensions (inches)

ASME CLASS 150#

SIZE	L (in)	D (in)	D1 (in)	D2 (in)	B (in)	F (in)	N-Ø (in)	Thickness (in)	Weight (in)	H (in)
2"	7,99	5,98	4,75	3,62	0,56	0,06	4 - 3/4	0,34	6	5
3"	9,49	7,48	6,00	5,00	0,69	0,06	4 - 3/4	0,41	11	6
4"	11,50	9,02	7,50	6,19	0,88	0,06	8 - 3/4	0,44	18	9
6"	15,98	10,98	9,50	8,50	0,94	0,06	8 - 7/8	0,47	32	11
8"	19,49	13,50	11,75	10,62	1,06	0,06	8 - 7/8	0,50	54	14
10"	24,49	15,98	14,25	12,75	1,12	0,06	12 - 1	0,56	80	15
12"	27,48	19,02	17,00	15,00	1,19	0,06	12 - 1	0,63	119	16
14"	30,98	20,98	18,75	16,25	1,31	0,06	12 - 1-1/8	0,66	160	21
16"	34,02	23,50	21,25	18,50	1,38	0,06	16 - 1-1/8	0,69	246	23
18"	38,50	25,00	22,75	21,00	1,50	0,06	16 - 1-1/2	0,72	287	26
20"	38,50	27,28	25,00	23,00	1,62	0,06	20 - 1-1/2	0,75	388	28
24"	50,98	32,01	29,50	27,25	1,81	0,06	20 - 1-3/8	0,81	440	32

ASME CLASS 300#

SIZE	L (in)	D (in)	D1 (in)	D2 (in)	B (in)	F (in)	N-Ø (in)	Thickness (in)	Weight (in)	H (in)
2"	267,00	165,00	127,00	127,00	20,60	1,50	8 - 19	9,7	16	141
3"	318,00	210,00	168,10	168,10	26,90	1,50	8 - 22	11,9	29	174
4"	356,00	254,00	200,20	200,20	30,20	1,50	8 - 22	12,7	46	232
6"	444,00	318,00	269,70	269,70	35,10	1,50	12 - 22	16,0	82	322
8"	533,00	381,00	330,20	330,20	39,60	1,50	12 - 25.5	17,5	136	375
10"	622,00	444,00	387,40	387,40	46,00	1,50	16 - 29	19,1	204	429
12"	711,00	521,00	450,00	450,00	49,30	1,50	16 - 32	20,6	302	470
14"	838,00	584,00	514,40	514,40	52,30	1,50	20 - 32	22,4	405	570
16"	864,00	648,00	571,50	571,50	55,60	1,50	20 - 35	23,9	625	620
18"	978,00	711,00	628,60	628,60	58,70	1,50	24 - 35	25,4	730	690
20"	1016,00	775,00	685,80	685,80	62,00	1,50	24 - 35	26,9	985	740
24"	1346,00	914,00	812,80	812,80	68,30	1,50	24 - 41	30,2	1115	820

NOTE:
 * Please consult with Tfv.
 (5) Butt weld schedule 40, for others please check with Tfv.

Dimensions (inches)

ASME CLASS 600#

SIZE	L (in)	D (in)	D1 (in)	D2 (in)	B (in)	F (in)	N-Ø (in)	Thickness (in)	Weight (in)	H (in)
2"	11,50	6,50	5,00	3,62	1,00	0,25	4 - 3/4	0,4	11	7
3"	14,02	8,27	6,62	5,00	1,25	0,25	8 - 3/4	0,5	20	8
4"	17,01	10,75	8,50	6,18	1,50	0,25	8 - 7/8	0,6	32	11
6"	22,01	14,02	11,50	8,50	1,88	0,25	8 - 7/8	0,8	57	14
8"	25,98	16,50	13,75	10,62	2,19	0,25	12 - 1	1,0	94	17
10"	30,98	20,00	17,00	12,75	2,50	0,25	12 - 1	1,1	141	20
12"	32,99	22,01	19,25	15,00	2,62	0,25	12 - 1-1/8	1,3	209	23
14"	35,00	23,74	20,75	16,25	2,75	0,25	16 - 1-1/8	1,4	279	26
16"	39,02	27,01	23,75	18,50	3,00	0,25	16 - 1-1/2	1,5	429	29
18"	42,99	29,25	25,75	21,00	3,25	0,25	20 - 1-1/2	1,6	502	32
20"	47,01	32,01	28,50	23,00	3,50	0,25	20 - 1-3/8	1,8	679	34
24"	55,00	37,01	33,00	27,25	4,00	0,25	21 - 1-3/8	2,0	770	38

NOTE:

* Please consult with TFV.

(5) Buttweld schedule 40, for others please check with TFV.

Dimensions (Millimeters)

ASME CLASS 150#

SIZE	L (mm)	D (mm)	D1 (mm)	D2 (mm)	B (mm)	F (mm)	N-Ø (mm)	Thickness (mm)	Weight (mm)	H (mm)
2"	203,00	152,00	120,60	91,90	14,20	1,50	4 - 19	8,6	14	133
3"	241,00	190,00	152,40	127,00	17,50	1,50	4 - 19	10,4	25	158
4"	292,00	229,00	190,50	157,20	22,40	1,50	8 - 19	11,2	40	225
6"	406,00	279,00	241,30	215,90	23,90	1,50	8 - 22	11,9	71	288
8"	495,00	343,00	298,40	269,70	26,90	1,50	8 - 22	12,7	118	358
10"	622,00	406,00	362,00	323,80	28,40	1,50	12 - 25.5	14,2	177	390
12"	698,00	483,00	431,80	381,00	30,20	1,50	12 - 25.5	16,0	263	416
14"	787,00	533,00	476,20	412,80	33,30	1,50	12 - 29	16,8	353	523
16"	864,00	597,00	539,80	469,90	35,10	1,50	16 - 29	17,5	542	596
18"	978,00	635,00	577,80	533,40	38,10	1,50	16 - 32	18,3	632	658
20"	978,00	693,00	635,00	584,20	41,10	1,50	20 - 32	19,1	855	706
24"	1295,00	813,00	749,30	692,20	46,00	1,50	20 - 35	20,6	970	815

ASME CLASS 300#

SIZE	L (mm)	D (mm)	D1 (mm)	D2 (mm)	B (mm)	F (mm)	N-Ø (mm)	Thickness (mm)	Weight (mm)	H (mm)
2"	267,00	165,00	127,00	91,90	20,60	1,50	8 - 19	9,7	16	141
3"	318,00	210,00	168,10	127,00	26,90	1,50	8 - 22	11,9	29	174
4"	356,00	254,00	200,20	157,00	30,20	1,50	8 - 22	12,7	46	232
6"	444,00	318,00	269,70	215,90	35,10	1,50	12 - 22	16,0	82	322
8"	533,00	381,00	330,20	269,70	39,60	1,50	12 - 25.5	17,5	136	375
10"	622,00	444,00	387,40	323,80	46,00	1,50	16 - 29	19,1	204	429
12"	711,00	521,00	450,00	381,00	49,30	1,50	16 - 32	20,6	302	470
14"	838,00	584,00	514,40	412,80	52,30	1,50	20 - 32	22,4	405	570
16"	864,00	648,00	571,50	469,90	55,60	1,50	20 - 35	23,9	625	620
18"	978,00	711,00	628,60	533,40	58,70	1,50	24 - 35	25,4	730	690
20"	1016,00	775,00	685,80	584,20	62,00	1,50	24 - 35	26,9	985	740
24"	1346,00	914,00	812,80	692,20	68,30	1,50	24 - 41	30,2	1115	820

NOTE:

* Please consult with TFV.

(5) Buttweld schedule 40, for others please check with TFV.

Dimensions (Millimeters)

ASME CLASS 600#

SIZE	L (mm)	D (mm)	D1 (mm)	D2 (mm)	B (mm)	F (mm)	N-Ø (mm)	Thickness (mm)	Weight (mm)	H (mm)
2"	292,00	165,00	127,00	91,90	25,40	6,40	8 - 19	11,2	24	173
3"	356,00	210,00	168,10	127,00	31,80	6,40	8 - 22	12,7	44	200
4"	432,00	273,00	215,90	157,00	38,10	6,40	8 - 25.5	16,0	70	290
6"	559,00	356,00	292,10	215,90	47,80	6,40	12 - 29	19,1	125	358
8"	660,00	419,00	349,20	269,70	55,60	6,40	12 - 32	25,4	207	439
10"	787,00	508,00	431,80	323,80	63,50	6,40	16 - 35	28,7	310	505
12"	838,00	559,00	489,00	381,00	66,50	6,40	20 - 35	31,8	460	578
14"	889,00	603,00	527,00	412,80	69,80	6,40	20 - 38	35,1	615	658
16"	991,00	686,00	603,20	469,90	76,20	6,40	20 - 41	38,1	945	746
18"	1092,00	743,00	654,00	533,40	82,60	6,40	20 - 45	41,4	1105	801
20"	1194,00	813,00	723,90	584,20	88,90	6,40	24 - 45	44,5	1495	870
24"	1397,00	940,00	838,20	692,20	101,60	6,40	24 - 51	50,8	1695	970

NOTE:
 * Please consult with TFV.
 (5) Butt weld schedule 40, for others please check with TFV.



How to Order

BODY DESIGN (SERIES)	BONNET DESIGN	DISC DESIGN	SPECIAL FEATURES	MATERIAL		ENDS	CLASS	SIZE ⁽⁹⁾	OPERATION	
				BODY	TRIM*					
70 Check Valve API 594 Renewable Seat	B Bolted Bonnet	W Swing Check	NN None	01 Bronze Aluminum ASTM B148 UNS C95200	01 OBSOLETE	FRF Flanged RF ASME B16.5	0 ANSI 150#	02 2"	NN	None
		S Stop Check	NT NACE MR0103		02 SS304 / BM + SS304 / BM+SS304		3 ANSI 300#	2.5 2 1/2"	HO	HANDWHEEL OPERATOR (ONLY APPLY ON STOP CHECK VALVE)
		T Tilting Check	NF NACE MR0175	02 Bronze Aluminum ASTM B148 UNS C95300	03 SS310 / BM + SS310 / BM+SS310	FRA Flanged RF ASME B16.47 SERIES A	6 ANSI 600#	03 3"		
		I Piston Check	NM NACE MR103 & MR0175	03 Bronze Aluminum ASTM B148 UNS C95600	04 SS410 / BM+13CR-H / BM+13CR-H	FRB Flanged RF ASME B16.47 SERIES B	9 ANSI 900#	04 4"		
			FA Fire Safe API 6FD	04 Bronze Aluminum ASTM B148 UNS C95500	05 SS410 / BM+HF / BM+HF		1 ANSI 1500#	05 5"	GO	GEARBOX OPERATOR (ONLY APPLY ON STOP CHECK VALVE)
			FM Fire Safe API 6FD & NACE MR0103	05 Bronze Aluminum ASTM B148 UNS C95800	5A SS410 / BM+NiCr Alloy/ BM+NiCr Alloy	RTA Flanged RTJ ASME B16.47 SERIES A	2 ANSI 2500#	06 6"		
			FN Fire Safe API 6DF & NACE MR0175	20 A216 Gr WCB	06 SS410 / BM+13Cr / BM+Monel	RTB Flanged RTJ ASME B16.47 SERIES B	4 ANSI 4500#	08 8"		
			CP Complete (Full) Port	21 A216 Gr WCC	07 SS410 / BM+13CR / BM+13CR-H	RTJ Flanged RTJ ASME B16.5		10 10"		
			CM Complete (Full) Port & NACE MR0103	22 A352 Gr LCB ⁽⁶⁾	08 SS410 / BM+13CR / BM+HF	FFF Flanged FF ASME B16.1		12 12"		
			DF FULL PORT & API 6D	23 A352 Gr LC3 ⁽⁶⁾	8A SS410 / BM+13CR / BM+NiCr Alloy	BST ButtWeld SCH STD ASME B16.25/ ASME B36.10		14 14"		
71 Check Valve API 603 / ASME B16.34 Integral Seat		OX Oxygen Service	FD Fire Safe API 6FD, NACE MR0103/ MR0175	24 A217 Gr WC1	09 Monel / Monel / Monel	BXS ButtWeld Extra Strong wall thickness ASME B16.25/ ASME B36.10		16 16"		
		6D API 6D	SD Dead Weight NonSlam (Counter-Weight)	25 A217 Gr WC6 ⁽⁷⁾	10 SS316 / BM + SS316 / BM+SS316	BXX ButtWeld doble Extra Strong wall thickness ASME B16.25/ ASME B36.10		18 18"		
		SH Hydraulic NonSlam	DT API 6D & NACE MR0103	26 A217 Gr WC9 ⁽⁷⁾	11 Monel/Monel+HF/ Monel+HF o Monel/Monel+NiCr Alloy/ Monel+NiCr Alloy	B10 ButtWeld SCH 10 ASME B16.25/ ASME B36.10		20 20"		
		SD Dead Weight NonSlam (Counter-Weight)	DS API 6D & NACE MR0175	27 A217 Gr C5 ⁽⁷⁾	12 SS316 / BM + SS316 / BM+HF o SS316 / BM + SS316 / BM+NiCr Alloy	B20 ButtWeld SCH 20 ASME B16.25/ ASME B36.10		24 24"		
		HS Wet H2S Resistant Steels (Category 1) NACE MR0103	HI HIC RESISTANT STEELS (CATEGORY 2)	28 A217 Gr C12 ⁽⁶⁾	13 Alloy 20 / Alloy 20 / Alloy 20	B30 ButtWeld SCH 30 ASME B16.25/ ASME B36.10				
				29 A217 Gr C12A	14 ALLOY 20 / ALLOY 20 / BM + HF o ALLOY 20 / ALLOY 20 / BM + NiCr Alloy	B40 ButtWeld SCH 40 ASME B16.25/ ASME B36.10				
				30 A351 Gr CF8M ⁽⁸⁾	15 SS304 / BM+HF / BM + HF	B60 ButtWeld SCH 60 ASME B16.25/ ASME B36.10				
				31 A351 Gr CF3M ⁽⁸⁾	16 SS316 / BM + HF / BM+HF					
				32 A351 Gr CF8 ⁽⁸⁾						
				33 A351 Gr CF3 ⁽⁸⁾						
				34 A351 Gr CF8M /CF3M ⁽¹⁰⁾						
				35 A351 Gr CF8 / CF3 ⁽¹⁰⁾						
				36 A351 Gr CG8M						
				37 A351 Gr CG3M						
				38 A351 Gr CF10						
				39 V A351 Gr CF10M						
				ASTM A494 M35-1 (UNS N04400)						
				ASTM A351 CN7M (Alloy 20)						
				ASTM A494-CW12MW (Hastelloy C276)						
				ASTM A351 CD3MN (Duplex 2205)						



BODY DESIGN (SERIES)	BONNET DESIGN		DISC DESIGN	SPECIAL FEATURES	MATERIAL		ENDS	CLASS	SIZE ⁽⁹⁾		OPERATION					
					BODY	TRIM*										
70 Check Valve API 594 Renewable Seat	B	Bolted Bonnet	W	Swing Check	44	A351 Gr CF8C	17	SS347 / BM + HF / BM + H	B80	Buttweld SCH 80 ASME B16.25/ ASME B36.10	0	ANSI 150#	02	2"	NN	None
			S	Stop Check	45	ASTM A351 CN3MN (Duplex)	18	ALLOY 20 / BM + HF / BM + HF	B00	Buttweld SCH 100 ASME B16.25/ ASME B36.10	3	ANSI 300#	2.5	2 1/2"	HO	HANDWHEEL OPERATOR (ONLY APPLY ON STOP CHECK VALVE)
71 Check Valve API 603 / ASME B16.34 Integral Seat			T	Tilting Check	46	ASTM A351 CD4MCu / A890 5A (Super Duplex 2507)	19	Nickel alloy / BM + Nickel alloy / BM + Nickel alloy	B12	Buttweld SCH 120 ASME B16.25/ ASME B36.10	6	ANSI 600#	03	3"	GO	GEARBOX OPERATOR (ONLY APPLY ON STOP CHECK VALVE)
			I	Piston Check	47	ASTM A494- N12MV (Hastelloy B2)	20	Nickel alloy / Nickel alloy / Nickel alloy+HF	B14	Buttweld SCH 140 ASME B16.25/ ASME B36.10	9	ANSI 900#	04	4"		
					48	ASTM A494-CY40	21	Nickel alloy / Nickel alloy + HF / Nickel alloy +HF	B16	Buttweld SCH 160 ASME B16.25/ ASME B36.10	1	ANSI 1500#	05	5"		
					49	ASTM B564 N08800 (Inconel 800)	22	SS321 / SS321 / SS321	XSF	BW SCH XS- Flanged RF ASME B16.5	2	ANSI 2500#	06	6"		
					50	ASTM A494 M35-2 (UNS N05500)	23	SS321 / SS321 / SS321 + HF	STF	BW SCH STD- Flanged RF ASME B16.5	4	ANSI 4500#	08	8"		
					51	ASTM A351 CK3MCuN	24	SS321 / SS321+HF / SS321 + HF	XXF	BW SCH XXS- Flanged RF ASME B16.5			10	10"		
					52	ASTM B367 C2 (TITANIUM)	26	Full Bronze-Aluminum	10F	BW SCH 10- Flanged RF ASME B16.5			12	12"		
					53	ASTM A995 CD3MWCuN6A (Super Duplex F55)	30	ALLOY 625 / BM + ALLOY 625 / BM + ALLOY 625	20F	BW SCH 20- Flanged RF ASME B16.5			14	14"		
					54	ASTM A494 CUSMCuC (Incoloy 825)	31	HASTELLOY C276/ BM + HASTELLOY C276 / BM + HASTELLOY C276	30F	BW SCH 30- Flanged RF ASME B16.5			16	16"		
					55	ASTM A494-CW6MC (Alloy 625)	32	ALLOY 825 / BM + ALLOY 825 / BM + ALLOY 825	40F	BW SCH 40- Flanged RF ASME B16.5			18	18"		
					56	ASTM A494-CZ100 (Alloy 200)	33	ALLOY 625 / BM + ALLOY 625 / BM +HF	60F	BW SCH 60- Flanged RF ASME B16.5			20	20"		
					57	A351 Gr CF10M	34	HASTELLOY C276 / BM + HASTELLOY C276 / BM + HF	80F	BW SCH 80- Flanged RF ASME B16.5			24	24"		
					58	ASTM A217 WC5	35	ALLOY 825 / BM + ALLOY 825 / BM + HF	00F	BW SCH 100- Flanged RF ASME B16.5						
					59	ASTM A182 F321	36	ALLOY 625 / BM + HF / BM +HF	12F	BW SCH 120- Flanged RF ASME B16.5						
					60	ASTM A395	37	HASTELLOY C276 / BM + HF / BM + HF	14F	BW SCH 140- Flanged RF ASME B16.5						
					61	GS-C25	38	ALLOY 825 / BM + HF / BM + HF	16F	BW SCH 160- Flanged RF ASME B16.5						
					62	ASTM 310 (HK)	39	ALLOY 2507 / BM + ALLOY 2507 / BM + ALLOY 2507	XSJ	BW SCH XS- Flanged RTJ ASME B16.5						
							40	SS347 / BM + SS347/ BM + SS347								
							41	SS347 / BM + SS347/								

BODY DESIGN (SERIES)	BONNET DESIGN	DISC DESIGN	SPECIAL FEATURES	MATERIAL		ENDS	CLASS	SIZE ⁽⁹⁾		OPERATION
				BODY	TRIM*					
70 Check Valve API 594 Renewable Seat	B Bolted Bonnet	W Swing Check			42 ALLOY 2507 / BM + ALLOY 2507 / BM + HF	STJ FBW SCH STD- Flanged RTJ ASME B16.5	0 ANSI 150#	02 2"	NN None	
		S Stop Check			43 ALLOY 2507 / BM + HF/ BM + HF	XXJ BW SCH XXS- Flanged RTJ ASME B16.5	3 ANSI 300#	2.5 2 1/2"	HO HANDWHEEL OPERATOR (ONLY APPLY ON STOP CHECK VALVE)	
71 Check Valve API 603 / ASME B16.34 Integral Seat		T Tilting Check			44 SS304H / SS304H / SS304H	10J BW SCH 10- Flanged RTJ ASME B16.5	6 ANSI 600#	03 3"		
		I Piston Check			45 SS304H / SS304H / HF	20J BW SCH 20- Flanged RTJ ASME B16.5	9 ANSI 900#	04 4"		
					46 SS304H / HF / HF	30J BW SCH 30- Flanged RTJ ASME B16.5	1 ANSI 1500#	05 5"		
					47 UNS N08810 / UNS N08810 / HF	40J BW SCH 40- Flanged RTJ ASME B16.5	2 ANSI 2500#	06 6"	GO GEARBOX OPERATOR (ONLY APPLY ON STOP CHECK VALVE)	
					48 SS321 / SS321H+HF/ SS321H+HF	60J BW SCH 60- Flanged RTJ ASME B16.5	4 ANSI 4500#	08 8"		
					49 TRIM 49 (PIN in ASTM B564 N08810 (Incoloy 800), Disc in ASTM B564 N08810 (Incoloy 800)+STL, Seats in ASTM B564 N08810 (Incoloy 800) +STL,	80J BW SCH 80- Flanged RTJ ASME B16.5		10 10"		
					50 TRIM 50 (PIN in ASTM B564 N08810 (Incoloy 800), Disc in ASTM B564 N08810 (Incoloy 800)), Seats in ASTM B564 N08810 (Incoloy 800)),	00J BW SCH 100- Flanged RTJ ASME B16.5		12 12"		
					51 ASTM B381 Gr.2/ASTM B381 Gr.2/ ASTM B381 Gr.2	12J BW SCH 120- Flanged RTJ ASME B16.5		14 14"		
					52 Trim Fully Bronze B150 C63200,	14J BW SCH 140- Flanged RTJ ASME B16.5		16 16"		
					53 TRIM 53 (Stem in IN718, Wedge in ASTM A182 F316, Seat in STL)	16J BW SCH 160- Flanged RTJ ASME B16.5		18 18"		
					54 TRIM 54 (Stem in ASTM 310 (HK), Wedge in ASTM 310 (HK), Seat in A182 F310 (HK))	BCU Butweld Special SCH according to Customer specification ⁽⁹⁾		20 20"		
						XSA BW SCH XS- Flanged RF ASME B16.47 Series A		24 24"		
						STA BW SCH STD- Flanged RF ASME B16.47 Series A				
						XXA BW SCH XXS- Flanged RF ASME B16.47 Series A				
						10A BW SCH 10- Flanged RF ASME B16.47 Series A				
						20A BW SCH 20- Flanged RF ASME B16.47 Series A				



BODY DESIGN (SERIES)	BONNET DESIGN	DISC DESIGN	SPECIAL FEATURES	MATERIAL		ENDS	CLASS	SIZE ⁽⁹⁾		OPERATION
				BODY	TRIM*					
70 Check Valve API 594 Renewable Seat	B Bolted Bonnet	W Swing Check				30A BW SCH 30- Flanged RF ASME B16.47 Series A	0 ANSI 150#	02	2"	NN None
		S Stop Check				40A BW SCH 40- Flanged RF ASME B16.47 Series A	3 ANSI 300#	2.5	2 1/2"	HO HANDWHEEL OPERATOR (ONLY APPLY ON STOP CHECK VALVE)
71 Check Valve API 603 / ASME B16.34 Integral Seat		T Tilting Check				60A BW SCH 60- Flanged RF ASME B16.47 Series A	6 ANSI 600#	03	3"	
		I Posion Check				80A BW SCH 80- Flanged RF ASME B16.47 Series A	9 ANSI 900#	04	4"	
							1 ANSI 1500#	05	5"	GO GEARBOX OPERATOR (ONLY APPLY ON STOP CHECK VALVE)
							2 ANSI 2500#	06	6"	
							4 ANSI 4500#	08	8"	
								10	10"	
								12	12"	
								14	14"	
								16	16"	
								18	18"	
								20	20"	
								24	24"	
						00A BW SCH 100- Flanged RF ASME B16.47 Series A				
						12A BW SCH 120- Flanged RF ASME B16.47 Series A				
						14A BW SCH 140- Flanged RF ASME B16.47 Series A				
						16A BW SCH 160- Flanged RF ASME B16.47 Series A				
						XSR BW SCH XS- Flanged RF ASME B16.47 Series B				
						STR BW SCH STD- Flanged RF ASME B16.47 Series B				
						XXR BW SCH XXS- Flanged RF ASME B16.47 Series B				
						10R BW SCH 10- Flanged RF ASME B16.47 Series B				
						20R BW SCH 20- Flanged RF ASME B16.47 Series B				
						30R BW SCH 30- Flanged RF ASME B16.47 Series B				
						40R BW SCH 40- Flanged RF ASME B16.47 Series B				
						60R BW SCH 60- Flanged RF ASME B16.47 Series B				



BODY DESIGN (SERIES)	BONNET DESIGN	DISC DESIGN	SPECIAL FEATURES	MATERIAL		ENDS	CLASS	SIZE ⁽⁹⁾		OPERATION
				BODY	TRIM*					
70 Check Valve API 594 Renewable Seat	B Bolted Bonnet	W Swing Check				80R BW SCH 80- Flanged RF ASME B16.47 Series B	0 ANSI 150#	02	2"	NN None
		S Stop Check					3 ANSI 300#	2.5	2 1/2"	HO HANDWHEEL OPERATOR (ONLY APPLY ON STOP CHECK VALVE)
71 Check Valve API 603 / ASME B16.34 Integral Seat		T Tilting Check				00R BW SCH 100- Flanged RF ASME B16.47 Series B	6 ANSI 600#	03	3"	
		I Posion Check					9 ANSI 900#	04	4"	
							1 ANSI 1500#	05	5"	GO GEARBOX OPERATOR (ONLY APPLY ON STOP CHECK VALVE)
						12R BW SCH 120- Flanged RF ASME B16.47 Series B	2 ANSI 2500#	06	6"	
							4 ANSI 4500#	08	8"	
								10	10"	
								12	12"	
						14R BW SCH 140- Flanged RF ASME B16.47 Series B		14	14"	
								16	16"	
								18	18"	
						16R BW SCH 160- Flanged RF ASME B16.47 Series B		20	20"	
								24	24"	
						B8S BW SCH 80S				
						B4S BW SCH 40S				
						B1S BW SCH 10S				

Example:

Swing Check Valve API 594, Bolted Cover, Body WCB, Trim 5, Flanged ANSI Class 150#, Size 6".

70BWNN2005FRF006

NOTES:

- * If there is not your feature in this chart, please contact us to give you the suitable figure
- * TRIM = Pin / Disc Seat / Seat.
- * HF = Hard Faced, usually Stellite 6; other upon request.
- * BM = Body Material.
- * Please contact us for more available sizes.
- (6) Low Temperature Service.
- (7) High Temperature Service.
- (8) Stainless Steel.
- (9) If Schedule is not according to ASME B16.25/ASME B36.10, please provide us your schedule
- (10) Dual Certified Material

*API 603 Light Wall Thickness ANSI / ASME B16.34

** API 594 Heavy Wall Thickness