

CHECK VALVE

Cast Steel • Bolted Bonnet • Butterfly



PROFI Check Valve
Cast Steel, Bolted Bonnet Type

DESIGN

PROFI check valves are designed and manufactured to provide maximum service life and highest reliability. All check valves are designed to meet the requirements of American Petroleum Institute (API) standards API Spec. 6D and British Standard (BS) BS 1868, and conform to American Society of Mechanical Engineers (ASME) standard ASME B16.34.

PROFI check valves are available in various material trims and body/bonnet materials to meet every customer's specific needs.

MATERIALS

Standard body/bonnet materials include nine grades of carbon, low alloy, and stainless steels. For special applications, other grades of alloy and stainless steel can be supplied according to customers' requirements.

Full range of material trims, including optional packing and gasket materials, are available in order to provide customers with the complete valve trim selection. Valves are also available in full bore and reduced bore designs to meet any customer needs.

AVAILABLE MODIFICATIONS

PROFI Check Valves are offered with various modifications, which include:

- Trim changes
- End connection modification
- Gasket selection
- External hinge and lever
- Oxygen and Chlorine cleaning and packaging
- Customer specific coatings
- Weld end bore option
- Pressure seal bolted bonnet, welded bonnet

FEATURES

Operation

PROFI Check Valves come with field proven and reliable mechanism that ensure pressure blockage in one direction.

Internal and External Hinges

For check valve with 12" or smaller bore, external hinge with outside lever and weight is available as an option. All check valves are offered with internal hinge as a standard.

Seat Ring Design

Seat ring design and material selection allows heavy duty application while ensuring full pressure containment when required. Seat is welded or screwed to the body for easy servicing.

Body and Bonnet Connection

For check valve up to 600LB class, flat graphite gasket (with stainless steel coil spring) is offered as standard. Ring joint with steel gasket is for 900LB class and above check valve.

Bolted Bonnet and Butterfly Types

Bolted bonnet and butterfly types are available as standard offering for check valve. Welded and pressure seal bonnet design are available for services that require frequent cycling with high pressure and temperature variations.

End Connections

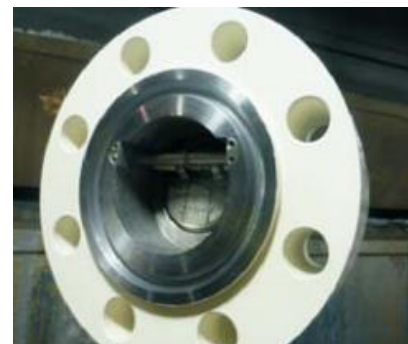
Various end connections are available. Common options include Raised Face (RF) and Ring Type Joint (RTJ) Flange and butt weld ends. Other type of end connection is available upon request.

Eye Bolts

Eye Bolts comes as a standard for all check valves to ensure safe handling and installation.

HCU Weighted Mechanical Accumulator

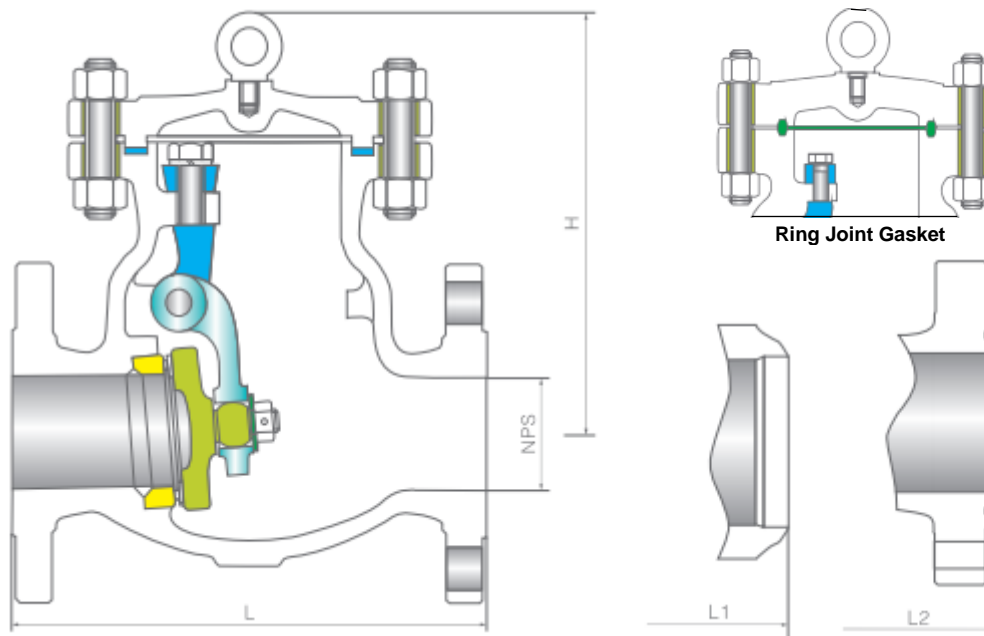
This is to assist or dampen the closing of the check valve disc. By using the Hydraulic Control Unit (HCU), the check valve opens at a lower flow rate.



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APPLICABLE STANDARDS

Check Valve Design	API Spec. 6D, BS 1868, ASME B16.34
Face-to-Face Dim.	ASME B16.10
End Flanges	ASME B16.5
Butt Weld Ends	ASME B16.25
Inspection and Testing	API Std. 598, API Spec. 6D

DESIGN FEATURES

- Bolted bonnet split body and cap
- Swing type with anti-rotation feature
- Renewable seat rings
- Internal disc shaft
- Horizontal and vertical service
- Flanged or butt weld ends

VALVE COMPONENTS

Part Name	ASTM Material		
	Carbon Steel - WCB	1-1/4 Cr – 1/2 Mo	Carbon Steel - LCB
Body	A216-WCB	A217-WC6	A352-LCB
Bonnet Cap	A216-WCB	A217-WC6	A352-LCB
Disc *	A105 + Cr13	A182-F11 + HF	A350-LF2 + Cr13
Hinge	A216-WCB	A217-WC6	A352-LCB
Support	A216-WCB	A217-WC6	A352-LCB
Seat Ring	A105 + Cr13 A105 + HF **	A182-F11 + HF	A350-LF2 + Cr13 A350-LF2 + HF ***
Hinge Pin	A276-420	A276-304	A276-420
Disc Washer	Carbon Steel	A276-304	Carbon Steel
Disc Nut	Carbon Steel	A197-7	Carbon Steel
Disc Nut Pin	Carbon Steel	A276-420	Carbon Steel
Bonnet Gasket	Graphite + 304 (Coiled Spring Construction)		
Bonnet Stud	A193-B7	A193-B16	A320-L7
Bonnet Nut	A194-2H	A197-7	A194-4
Eyebolt ****	Carbon Steel		

* Cast steel disc for NPS 4" and bigger ** HF is for 900LB and above valve *** HF is for 1500LB and above valve **** For NPS 6" and bigger

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VALVE DIMENSIONS AND WEIGHT- 150LB

Size		L (RF) / L1 (BW)		L2 (RTJ)		H		Weight (KG)	
in	mm	in	mm	in	mm	in	mm	RF / RTJ	BW
2	50	8.00	203	8.50	216	6.00	152	14	10
2-1/2	65	8.50	216	9.00	229	6.50	165	20	12
3	80	9.50	241	10.00	254	6.88	175	25	17
4	100	11.50	292	12.00	305	8.00	204	40	29
6	150	14.00	356	14.50	368	11.50	293	71	57
8	200	19.50	495	20.00	505	13.88	353	118	96
10	250	24.50	622	25.00	635	15.38	390	177	143
12	300	27.50	699	28.00	711	17.00	432	263	227
14	350	31.00	787	31.50	800	18.75	475	353	295
16	400	34.00	864	34.50	876	20.62	525	542	468
18	450	38.50	978	39.00	991	22.88	582	632	552
20	500	38.50	978	39.00	991	24.62	627	855	755
24	600	51.00	1295	51.50	1308	34.75	883	970	831
26	650	51.00	1295	-	-	35.88	910	1275	1120
28	700	57.00	1448	-	-	37.00	940	1600	1420
30	750	60.00	1524	-	-	38.62	980	1990	1760
36	900	77.00	1956	-	-	48.00	1220	2760	2230

VALVE DIMENSIONS AND WEIGHT- 300LB

Size		L (RF) / L1 (BW)		L2 (RTJ)		H		Weight (KG)	
in	mm	in	mm	in	mm	in	mm	RF / RTJ	BW
2	50	10.50	267	11.12	283	6.00	152	16	11
2-1/2	65	11.50	292	12.12	308	6.50	165	23	12
3	80	12.50	318	13.12	333	6.88	175	29	18
4	100	14.00	356	14.62	371	8.00	204	46	31
6	150	17.50	445	18.12	460	11.50	292	82	61
8	200	21.00	533	21.62	549	13.88	353	136	103
10	250	24.50	622	25.12	638	15.38	390	204	155
12	300	28.00	711	28.62	727	17.00	432	302	245
14	350	33.00	838	33.62	854	18.75	475	405	315
16	400	34.00	864	34.62	879	20.62	525	625	503
18	450	38.50	978	39.12	994	22.88	582	730	593
20	500	40.00	1016	40.75	1035	24.62	627	985	812
24	600	53.00	1346	53.88	1368	34.75	883	1115	895
26	650	53.00	1346	54.00	1372	35.88	910	1465	1205
28	700	59.00	1490	60.00	1524	37.00	940	1840	1525
30	750	62.75	1594	63.75	1619	38.62	980	2290	1895
36	900	82.00	2083	-	-	48.00	1220	3180	2395

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VALVE DIMENSIONS AND WEIGHT- 600LB

Size		L (RF) / L1 (BW)		L2 (RTJ)		H		Weight (KG)	
in	mm	in	mm	in	mm	in	mm	RF / RTJ	BW
2	50	11.50	292	11.62	295	7.38	187	32	30
2-1/2	65	13.00	330	13.12	333	7.88	200	42	38
3	80	14.00	356	14.12	359	8.25	210	59	50
4	100	17.00	432	17.12	435	10.06	256	112	101
6	150	22.00	559	22.12	562	12.94	329	215	165
8	200	26.00	660	26.12	663	14.31	363	385	311
10	250	31.00	787	31.12	790	18.25	464	613	490
12	300	33.00	838	33.12	841	19.13	486	870	728
14	350	35.00	889	35.12	892	22.50	572	938	768
16	400	39.00	991	39.12	994	26.00	660	1350	1120
18	450	43.00	1092	43.12	1095	28.00	711	2019	1725
20	500	47.00	1194	47.25	1200	31.00	787	2390	2015
24	600	55.00	1397	55.38	1407	34.00	864	3009	2330

VALVE DIMENSIONS AND WEIGHT- 900LB

Size		L (RF) / L1 (BW)		L2 (RTJ)		H		Weight (KG)	
in	mm	in	mm	in	mm	in	mm	RF / RTJ	BW
2	50	14.50	368	14.62	371	9.50	241	37	21
2-1/2	65	16.50	419	16.62	422	10.00	254	54	25
3	80	15.00	381	15.12	384	11.00	279	68	34
4	100	18.00	457	18.12	460	12.50	318	109	58
6	150	24.00	610	24.12	613	18.12	460	195	115
8	200	29.00	737	29.12	740	22.00	559	321	194
10	250	33.00	838	33.12	841	24.00	610	481	290
12	300	38.00	965	38.12	968	26.50	673	711	461
14	350	40.50	1029	40.88	1038	29.38	746	956	597
16	400	44.50	1130	44.88	1140	32.00	813	1468	950
18	450	48.00	1219	48.50	1232	33.50	851	1870	1210
20	500	52.00	1321	52.50	1334	38.75	984	2316	1533
24	600	-	-	-	-	-	-	-	-

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VALVE DIMENSIONS AND WEIGHT- 1500LB

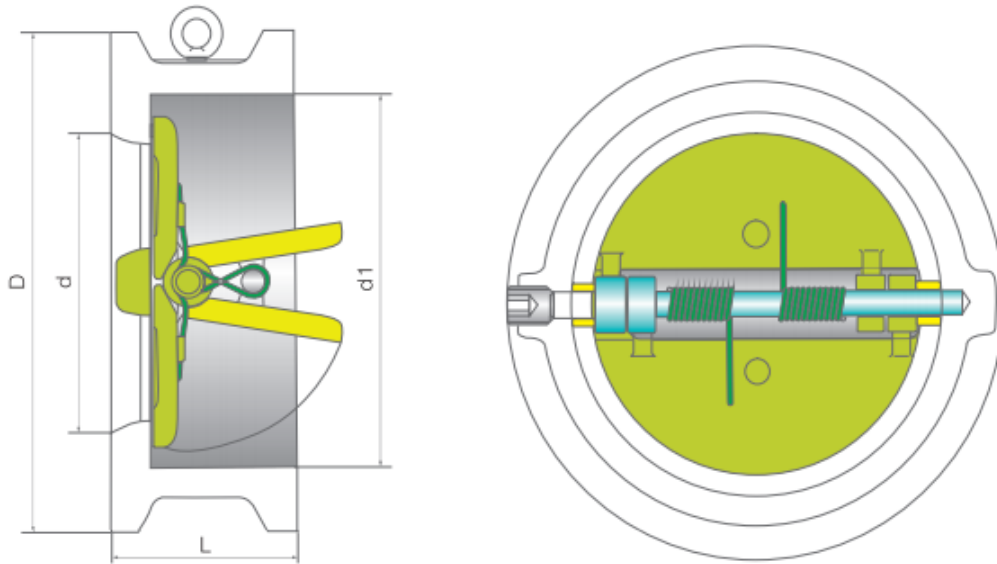
Size		L (RF) / L1 (BW)		L2 (RTJ)		H		Weight (KG)	
in	mm	in	mm	in	mm	in	mm	RF / RTJ	BW
2	50	14.50	368	14.62	371	9.50	241	40	29
2-1/2	65	16.50	419	16.62	422	10.00	254	63	47
3	80	18.50	470	18.62	473	13.00	330	70	49
4	100	21.50	546	21.62	549	14.75	375	115	84
6	150	27.75	705	28.00	711	18.88	480	250	152
8	200	32.75	832	33.12	841	23.50	597	470	310
10	250	39.00	991	39.38	1000	26.00	660	740	470
12	300	44.50	1130	45.12	1146	29.12	740	1100	710
14	350	49.50	1257	50.25	1276	30.88	784	1410	910
16	400	54.50	1384	55.38	1407	32.88	835	1600	1100

VALVE DIMENSIONS AND WEIGHT- 2500LB

Size		L (RF) / L1 (BW)		L2 (RTJ)		H		Weight (KG)	
in	mm	in	mm	in	mm	in	mm	RF / RTJ	BW
2	50	17.75	451	17.88	454	10.75	273	50	35
2-1/2	65	20.00	508	20.25	514	13.25	337	76	55
3	80	22.75	578	23.00	584	13.75	349	85	68
4	100	26.50	673	26.88	683	15.12	384	165	115
6	150	36.00	914	36.50	927	19.50	495	460	225
8	200	40.25	1022	40.88	1038	24.62	625	900	580
10	250	50.00	1270	50.88	1292	28.00	711	1300	860
12	300	56.00	1422	56.88	1445	25.62	651	1800	1150
14	350	-	-	-	-	-	-	-	-
16	400	-	-	-	-	-	-	-	-

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APPLICABLE STANDARDS

Check Valve Design	API Std. 594, API Spec. 6D, ASME B16.34
Face-to-Face Dim.	ASME B16.10
End Flanges	ASME B16.5
Inspection and Testing	API Std. 598, API Spec. 6D

DESIGN FEATURES

- One piece body
- Butterfly swing type
- Dual plate disc design
- Replaceable split disc
- Horizontal and vertical service
- Flange ends is available upon request

VALVE COMPONENTS

Part Name	ASTM Material		
	Carbon Steel - WCB	1-1/4 Cr – 1/2 Mo	Carbon Steel - LCB
Body	A216-WCB	A351-CF8M	A352-LCB
Plate	A216-WCB + Cr13	A351-CF8M + HF	A352-LCB + Cr13
Stop Pin	A276-420	A276-304	A276-420
Back Spring	A313-304	A313-316	A313-304
Hinge Pin	A276-420	A276-304	A276-420
Eyebolt *		Carbon Steel	

* For NPS 8" and bigger

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VALVE DIMENSIONS AND WEIGHT- 150LB

Size		L		D		d		d1		Weight
in	mm	in	mm	in	mm	in	mm	in	mm	Kg
2	50	2.38	60	4.00	102	2.00	51	2.25	57	2
2-1/2	65	2.62	67	4.88	124	2.50	65	2.88	73	3
3	80	2.88	73	5.38	137	3.25	80	3.50	89	4
4	100	2.88	73	6.75	171	4.00	102	4.25	108	6
6	150	3.88	99	8.62	219	6.00	152	6.25	160	13
8	200	5.00	127	10.88	276	8.00	203	8.26	210	25
10	250	5.75	146	13.25	337	10.00	254	10.50	267	39
12	300	7.12	181	16.00	406	12.00	305	12.12	310	54
14	350	7.25	184	19.62	498	13.75	350	14.00	356	80
16	400	7.50	191	20.12	511	15.75	400	16.00	405	117
18	450	8.00	203	21.50	546	17.75	450	18.00	455	138
20	500	8.62	219	23.75	603	19.75	500	19.88	505	163
24	600	8.75	222	28.12	714	23.62	600	23.75	605	331

VALVE DIMENSIONS AND WEIGHT- 300LB

Size		L		D		d		d1		Weight
in	mm	in	mm	in	mm	in	mm	in	mm	Kg
2	50	2.38	60	4.25	108	2.00	51	2.25	57	3
2-1/2	65	2.62	67	5.00	127	2.50	65	2.88	73	4
3	80	2.88	73	5.75	146	3.25	80	3.50	89	6
4	100	2.88	73	7.00	178	4.00	102	4.25	108	8
6	150	3.88	99	9.88	251	6.00	152	6.25	160	18
8	200	5.00	127	12.00	305	8.00	203	8.26	210	31
10	250	5.75	146	14.12	359	10.00	254	10.50	267	51
12	300	7.12	181	16.50	419	12.00	305	12.12	310	77
14	350	8.75	222	19.00	483	13.75	350	14.00	356	117
16	400	9.12	232	21.12	536	15.75	400	16.00	405	190
18	450	10.38	264	23.38	594	17.75	450	18.00	455	200
20	500	11.50	292	25.62	651	19.75	500	19.88	505	265
24	600	12.50	318	30.38	772	23.62	600	23.75	605	410

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VALVE DIMENSIONS AND WEIGHT- 600LB

Size		L		D		d		d1		Weight
in	mm	in	mm	in	mm	in	mm	in	mm	Kg
2	50	2.38	60	4.38	111	2.00	51	2.25	57	4
2-1/2	65	2.62	67	5.00	127	2.50	64	2.88	73	5
3	80	2.88	73	5.75	146	3.00	76	3.50	89	8
4	100	3.12	79	7.50	191	4.00	102	4.25	108	11
6	150	5.38	137	10.38	264	6.00	152	6.38	162	26
8	200	6.50	165	12.50	318	7.88	200	8.38	213	55
10	250	8.38	213	15.62	397	9.88	250	10.50	267	95
12	300	9.00	229	17.88	454	12.00	305	12.25	311	140
14	350	10.75	273	19.25	489	13.25	337	14.00	356	223
16	400	12.00	305	22.12	562	15.25	387	15.75	400	360

VALVE DIMENSIONS AND WEIGHT- 900LB

Size		L		D		d		d1		Weight
in	mm	in	mm	in	mm	in	mm	in	mm	Kg
2	50	2.75	70	5.50	140	2.00	51	2.25	57	8
2-1/2	65	3.25	83	6.38	162	2.50	64	2.88	73	11
3	80	3.25	83	6.50	165	3.00	76	3.50	89	14
4	100	4.00	102	8.00	203	4.00	102	4.25	108	20
6	150	6.25	159	11.25	286	6.00	152	6.38	162	42
8	200	8.12	206	14.00	356	7.88	200	8.38	213	84
10	250	9.50	241	17.00	432	9.88	251	10.50	267	145
12	300	11.50	292	19.50	495	12.00	305	12.25	311	220
14	350	-	-	-	-	-	-	-	-	-
16	400	-	-	-	-	-	-	-	-	-

CHECK VALVE

Pressure-Temperature Ratings



ASME B16.34 MATERIAL GROUPS			
Group 1.1	A105 ^{e)}	A216-WCB ^{e)}	
Group 1.2	A216-WCC ^{e)}	A352-LCC ^{a)}	
Group 1.3	A352-LCB ^{a)}		
Group 1.9	A217-WC6 ^{d)}		
Group 1.10	A217-WC9 ^{d)}		
Group 1.13	A217-C5		
Group 2.1	A182-F304	A351-CF8	A351-CF3 ^{b)}
Group 2.2	A182-F316	A352-CF8M	A351-CF3M ^{c)}

Notes:

- a) Not to be used over 650°F (343°C)
- b) Not to be used over 800°F (427°C)
- c) Not to be used over 1000°F (538°C)
- d) Not to be used over 1100°F (593°C)
- e) Permissible but not recommended for prolonged uses above 800°F (427°C)

ASME B16.34 Maximum Allowable Non-Shock Pressure (Psi) – ANSI Class 150LB and 300LB

Temperature		ANSI Class 150LB								ANSI Class 300LB							
°F	°C	Group 1.1	Group 1.2	Group 1.3	Group 1.9	Group 1.10	Group 1.13	Group 2.1	Group 2.2	Group 1.1	Group 1.2	Group 1.3	Group 1.9	Group 1.10	Group 1.13	Group 2.1	Group 2.2
-20 to 100	-20 to 38	285	290	265	290	290	290	275	275	740	750	695	750	750	750	720	720
200	93	260	260	250	260	260	260	230	230	640	750	655	750	750	745	600	620
300	149	230	230	230	230	230	230	205	205	655	730	640	720	730	715	540	560
400	204	200	200	200	200	200	200	190	190	635	705	620	695	705	705	495	515
500	260	170	170	170	170	170	170	170	170	600	665	585	665	665	665	465	480
600	316	140	140	140	140	140	140	140	140	550	605	535	605	605	605	435	450
650	343	125	125	125	125	125	125	125	125	535	590	525	590	590	590	430	445
700	371	110	110		110	110	110	110	110	535	570		570	570	570	425	430
750	399	95	95		95	95	95	95	95	505	505		530	530	530	415	425
800	427	80	80		80	80	80	80	80	410	410		510	510	510	405	420
850	454				65	65	65	65	65				485	485	485	395	420
900	482				50	50	50	50	50				450	450	370	390	415
950	510				35	35	35	35	35				320	375	275	380	385
1000	538				20	20	20	20	20				215	260	200	320	350
1050	566				20*	20*	20*	20*	20*				145	175	145	310	345
1100	593				20*	20*	20*	20*	20*				95	110	100	255	305

Test Pressure Per API 598 (Psi) – ANSI Class 150LB and 300LB

Hydro. Shell Test	450	450	450	450	450	450	450	450	450	1125	1125	1050	1125	1125	1125	1100	1100
Hydro. Seat Test	315	320	295	320	320	320	305	320	320	815	825	765	825	825	825	795	795
Air Seal Test	80 ± 20								80 ± 20								

*For welding end valve only. Flanged end rating terminates at 1000°F

CHECK VALVE

Pressure-Temperature Ratings



ASME B16.34 Maximum Allowable Non-Shock Pressure (Psi) – ANSI Class 600LB and 900LB

Temperature		ANSI Class 600LB								ANSI Class 900LB							
°F	°C	Group 1.1	Group 1.2	Group 1.3	Group 1.9	Group 1.10	Group 1.13	Group 2.1	Group 2.2	Group 1.1	Group 1.2	Group 1.3	Group 1.9	Group 1.10	Group 1.13	Group 2.1	Group 2.2
-20 to 100	-20 to 38	1480	1500	1390	1500	1500	1500	1440	1440	2220	2250	2085	2250	2250	2250	2160	2160
200	93	1350	1500	1315	1500	1500	1490	1200	1240	2025	2250	1970	2250	2250	2235	1800	1860
300	149	1315	1455	1275	1455	1455	1430	1080	1120	1970	2185	1915	2165	2185	2150	1620	1680
400	204	1270	1410	1235	1410	1410	1410	995	1025	1900	2115	1850	2080	2115	2115	1490	1540
500	260	1200	1330	1165	1330	1330	1330	930	965	1795	1995	1745	1995	1995	1995	1395	1535
600	316	1095	1210	1065	1210	1210	1210	875	900	1640	1815	1600	1815	1815	1815	1310	1355
650	343	1075	1175	1045	1175	1175	1175	860	890	1610	1765	1570	1765	1765	1765	1290	1330
700	371	1065	1135		1135	1135	1135	850	870	1600	1705		1705	1705	1705	1275	1305
750	399	1010	1010		1065	1065	1065	830	855	1510	1510		1595	1595	1585	1245	1280
800	427	825	825		1015	1015	1015	805	845	1235	1235		1525	1525	1525	1210	1265
850	454				975	975	965	790	835				1460	1460	1450	1190	1255
900	482				900	900	740	780	830				1350	1350	1110	1165	1245
950	510				640	755	550	765	775				955	1130	825	1145	1160
1000	538				430	520	400	640	700				650	790	595	965	1050
1050	566				290	350	290	615	685				430	525	430	925	1030
1100	593				190	220	200	515	610				290	330	300	770	915

Test Pressure Per API 598 (Psi) – ANSI Class 600LB and 900LB

Hydro. Shell Test	2225	2250	2100	2250	2250	2250	2175	2175	3350	3375	3150	3375	3375	3375	3250	3250
Hydro. Seat Test	1630	1650	1530	1650	1650	1650	1585	1585	2445	2475	2295	2475	2475	2475	2380	2380
Air Seal Test	80 ± 20								80 ± 20							

ASME B16.34 Maximum Allowable Non-Shock Pressure (Psi) – ANSI Class 1500LB and 2500LB

Temperature		ANSI Class 1500LB								ANSI Class 2500LB							
°F	°C	Group 1.1	Group 1.2	Group 1.3	Group 1.9	Group 1.10	Group 1.13	Group 2.1	Group 2.2	Group 1.1	Group 1.2	Group 1.3	Group 1.9	Group 1.10	Group 1.13	Group 2.1	Group 2.2
-20 to 100	-20 to 38	3705	3750	3470	3570	3750	3750	3600	3600	6170	6250	5785	6250	6250	6250	6000	6000
200	93	3375	3750	3280	3570	3750	3725	3000	3095	5625	6250	5480	6250	6250	6205	5000	5160
300	149	3280	3640	3190	3610	3640	3580	2700	2795	5470	6070	5315	6015	6070	5965	4500	4660
400	204	3170	3530	3085	3465	3530	3530	2485	2570	5280	5880	5145	5775	5880	5880	4140	4280
500	260	2995	3325	2910	3325	3325	3325	2330	2390	4990	5540	4850	5540	5540	5540	3880	3980
600	316	2735	3025	2665	3025	3025	3025	2185	2255	4560	5040	4440	5040	5040	5040	3640	3760
650	343	2685	2940	2615	2940	2940	2940	2150	2220	4475	4905	4355	4905	4905	4905	3580	3700
700	371	2665	2840		2840	2840	2840	2125	2170	4440	4730		4730	4730	4730	3540	3620
750	399	2520	2520		2660	2660	2640	2075	2135	4200	4200		4430	4430	4400	3460	3560
800	427	2060	2060		2540	2540	2540	2015	2110	3430	3430		4230	4230	4230	3360	3520
850	454				2435	2435	2415	1980	2090				4060	4060	4030	3300	3480
900	482				2245	2245	1850	1945	2075				3745	3745	3085	3240	3460
950	510				1595	1885	1370	1910	1930				2655	3145	2285	3180	3220
1000	538				1080	1305	995	1605	1750				1800	2170	1655	2675	2915
1050	566				720	875	720	1545	1720				1200	1455	1200	2570	2865
1100	593				480	550	495	1285	1525				800	915	830	2145	2545

Test Pressure Per API 598 (Psi) – ANSI Class 1500LB and 2500LB

Hydro. Shell Test	5575	5625	5225	5625	5625	5625	5400	5400	9275	9375	8700	9375	9375	9375	9000	9000
Hydro. Seat Test	4080	4125	3820	4125	4125	4125	3960	3960	6790	6875	6365	6875	6875	6875	6600	6600
Air Seal Test	80 ± 20								80 ± 20							

QUALITY, TESTING, AND SERVICES

PROFI's End-to-End Support



PRODUCT QUALITY ASSURANCE

PROFI high performance Check Valves are designed to the latest edition of API Spec. 6D and/or API Std. 594 requirements. PROFI has the license to apply the API monogram to all of its valve products.

In addition, PROFI manufactures all valve products in accordance to with API Spec. Q1 and ISO 9000:2008 Quality System.

On top of the pressure testing requirement required by API, PROFI has the capability of conducting various additional test to meet customer requirements.

- Factory Acceptance Test (FAT)
- Supplementary extended hydrostatic or gas test
- Antistatic testing, torque functional test
- Valve endurance test
- Valve fire test on specific valve size

TESTING AND QUALIFICATIONS

PROFI's extensive testing, research and development program is geared to exceed the API specifications requirements and to meet specific customer requirements. PROFI high performance Check Valves have been designed and tested to various standards:

- **API Spec. 6D**
Stem backseat test, hydrostatic shell and seat tests, low pressure test, etc.
- **API Std. 598**
Valve Inspection and Testing.
- **API Std. 594**
Check Valves: Flanged, Lug, Wafer and Butt-welding.

FIELD SUPPORT AND SERVICES

PROFI's Service and Technical Team are on call 24-hours a day and 7 days a week to answer your on-site service needs. This team is highly skilled in providing field equipment installations, making field repairs, performing routine and schedule maintenances of your equipment.

Installation

PROFI service personnel are trained in equipment installation and in providing training to our customers. They are also available for a variety of special jobs, including workover, de-commissioning, equipment trim changes, and installation of new safety equipment.

Maintenance

Preventive maintenance and servicing help to minimize down time and extend the life of equipment. PROFI provides routine inspections and scheduled maintenance services which would reduce the operation burden of our customers.

Field Repair

As and when required, PROFI service personnel is well equipped to perform troubleshooting and on-site repair, without the need to ship the equipment to the onshore base.

Technical Support and Expertise

Full expert's supports in quality, engineering, and field installation are available to ensure customer successful operation.

REPAIR AND RECONDITIONING OF EQUIPMENT

From valves to risers, tubing spool to drilling adapters, a growing number of customers trust PROFI's Service and Technical Team for performing equipment repairs, remanufacturing, and recertification.

Repair

PROFI (with its subsidiary and parent company) owns a numbers of repair facilities that would be able to offer a full range of equipment repair services, and not just for PROFI products. Typical PROFI repair services include disassembly, inspection, engineering review / disposition, parts replacement or repair, reassembly and testing. Your repaired equipment will be brought back to the specified service level, and they comes with factory warranty and installation support.

Remanufacture

Remanufacture of equipment is able to bring equipment back to the service level required by customers. On top of the activity stated for repair, remanufacture includes re-machining, welding, or other manufacturing operations necessary to bring the equipment to useable condition.

