



Flow-Tek®

Subsidiary of BRAY INTERNATIONAL, Inc.

SERIES M1

Severe Service
Metal Seated Ball Valves
NPS ½" to 36", DN15 to DN900
Up to ASME Class 4500
Cast & Forged Construction

HIGH PERFORMANCE
SEVERE SERVICE
Metal Seated Ball Valves

HIGH PERFORMANCE **SEVERE SERVICE**

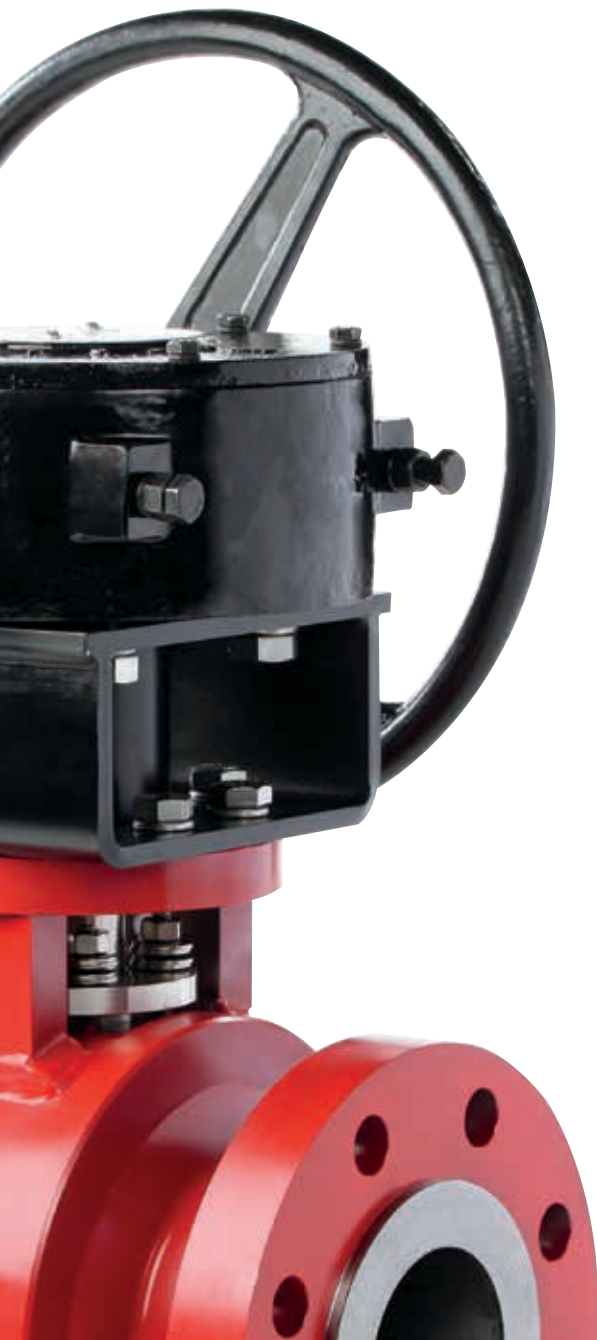
Metal Seated Ball Valves

Flow-Tek's High Performance Series M1 Severe Service Metal Seated Ball Valves are suitable for the harshest applications. These products are customized as required for specific applications.

Each M1 valve is engineered for the customer's specific application and is backed by a specialized and trained service department.

Flow-Tek's technical engineers are industry leaders with exclusive metal seated ball valve experience. Since the early 1980's, Flow-Tek has successfully found solutions and created performance improvements for our customers. Our M1 valves have the very best improvements and features that will outperform other *metal seated ball valves* in the market. Flow-Tek is dedicated to continuous improvement and innovation in design and service to meet the customer's technical and commercial needs.

Flow-Tek's global sales, manufacturing and purchasing facilities allow us to produce the most technically advanced valves designed with the highest quality and workmanship at competitive pricing. Combined with our extensive service network, we are able to assist with any of your valve needs.



QUALITY, SAFETY, AND PERFORMANCE

Flow-Tek's Severe Service Division provides high quality designs and manufacturing focusing on professional customer service. As a result of our continual commitment to quality, our facilities have achieved ISO 9001:2008 for the design and manufacture of severe service ball valves.

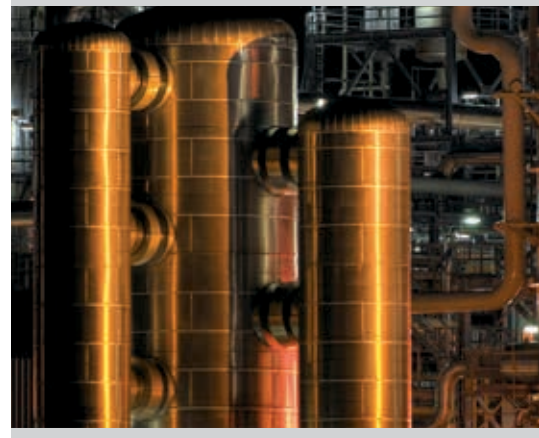
We recognize that the safety performance of our product is critical to our customers, therefore, all major part components are traceable to reassure our customers of consistent reliability throughout its life cycle. Our Severe Service products are certified to the requirements of Annex III, Module H of the PED 97/23/EC.

At Flow-Tek we understand that safety correlates with our success and that good Health Safety Environment management equates to good business management. Safety is integrated into our foundation aspiring to prevent and eliminate all work related injuries to our employees and reducing harm to our environment.





INDUSTRIES SERVED



REFINING

HEAVY OIL UPGRADING & HYDROCRACKING

- Catalyst Addition & Withdrawal
- Pump Isolation
- Overhead Vapor Isolation & Control
- Low, Medium, & High Control Letdown Stations

DELAYED COKING

- Coke Drum Feed and Bypass Isolation
- Overhead Vapor Line
- Cutting Water Pump Isolation
- Steam Stripping, Quench Water and Drain Valves

REFORMING (CCR)

- Catalyst Lockhopper Isolation & Vent
- Regenerator Isolation
- Catalyst Addition/Withdrawal

FLUIDIZED CATALYTIC CRACKING (FCC)

- Catalyst Handling
- Slurry Isolation & Control Steam
- Regeneration Dump
- Heavy Oil
- Flue Gas
- Cyclone

POWER GENERATION

- Above & Below Seat Drains
- Ash Handling
- Attenuator/Desuperheater Spray Block
- Boiler Drains
- Boiler Feed Pump Isolation

- Continuous Boiler Blowdown
- Recirculation
- Feedwater Isolation
- Main Steam Stop
- Soot Blower

- Startup Vents/Drains
- Steam Dump
- Turbine Bypass Systems
- Turbine Drain





MINING

HIGH PRESSURE SLURRY TRANSPORTATION SYSTEMS

- Pump Discharge Isolation
- Pipeline Isolation Stations
- Instrument Isolation
- Vents & Drains
- Pigging Stations
- Choke Stations
- Concentrators

PRESSURE ACID LEACH & PRESSURE OXIDATION

- Acid Injection
- Oxygen Injection
- Steam Injection
- HP Water Injection
- Oxidized Slurry Isolation
- Slurry Drains & Vents
- Autoclave Isolation (Feed/Discharge)
- Feed Pump Isolation
- Blowback Vessel Isolation

CHEMICAL/PETROCHEMICAL

- Polyethylene
- Ethane Cracking
- DSIDA/Glyphosate
- PDH

- EDC/VCM Furnace
- Polypropylene
- Acetic Acid & PTA
- Polysilicon
- Molecular Sieve

SYNFUELS

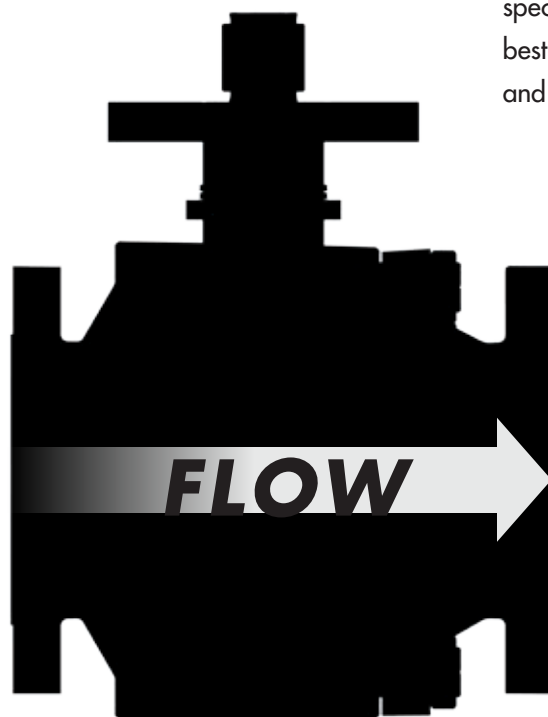
- Coal Gasification
- Coal Liquefaction



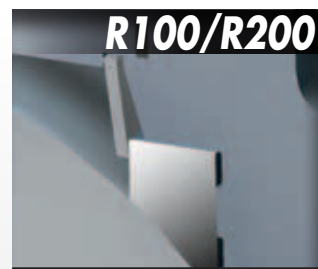
APPLICATION SPECIFIC VALVE MODELS



HIGH PRESSURE SEATS**



LOW PRESSURE SEATS



Flow-Tek's Series M1 Valves offer application specific trims customized specifically for each application, giving the best solution for long-term tight isolation and lowest maintenance operations.

MODEL	SEALING SYSTEM			SEAT CHARACTERISTICS	MEDIA USE	APPLICABLE INDUSTRIES
	UNI-	BI-	*DB&B			
R100	●	●		Solids resistant design, Low to High Temperature	Light to Medium Catalyst Slurry, Saturated and Superheated Steam, General Hydrocarbons, Pressure Acid-Leaching and Pressure Oxidation Services over 450 °F (232 °C)	- Refining - Power - Mining - Chemical - Synfuels
R200	●			Solids proof design, Low to High Temperature	Heavy Catalyst Slurry, Fouling Hydrocarbons, Coking	- Refining - Chemical
M100	●	●		Solids resistant design, Low Temperature	Slurry Transport, Erosive and Abrasive. Pressure Acid-Leaching and Pressure Oxidation Services under 450 °F (232 °C)	Mining
M120	●	●	●	Solids resistant design, double-block and bleed system, Low Temperature	Slurry Transport, Erosive and Abrasive	Mining

*Double Block and Bleed

**Exact configurations may vary for specific designs

SPECIFICATIONS

Valve	ASME B16.34
Design:	ASME Section VIII - Div 1, Appendix 2
Sizes:	½ - 36 in. (DN 15 - 900) Custom and larger sizes available upon request
Pressure Ratings:	ASME 150 - 4500 Custom higher pressures upon request.
Temperature:	Standard design rated up to 1100 °F (593 °C), can be customized for higher temperatures
End Connections:	Raised Face and Ring Type Joint (ASME B16.5 and DIN 2501) Butt welds (ASME B16.25) Hubs Socket weld (ASME B16.11) Custom Ends available
End-To-End:	ASME B16.10 (Long Pattern)
Testing:	MSS SP-61, API 598, ANSI/FCI Class VI Custom Tests available



Butt Weld



Hub



Ring Type Joint
Flange



Raised Face
Flange



FEATURES & BENEFITS

1. BALL-TO-SEAT INTERFACE

Wide sealing surfaces lower dynamic contact stress between the ball and seat during operation and extend the valve's life cycle. These sliding surfaces utilize qualified hard coatings for specific applications.

- **QUALIFIED PROPRIETARY COATINGS**

Maximum sealing life achieved through widest sealing surfaces and advanced coating technology.

- **SEALING SYSTEM**

Series M1 valves feature trims that are designed to isolate flow direction (unidirectional) and/or reverse flow direction (bidirectional).

2. LOCKING SPRING (R100/R200)

A large spring washer stabilizes and locks the seat in place. These springs uniformly produce a consistent load around the entire seat ring and maintain a seal by loading the primary seat ring to the valve body.

3. LOAD SPRING

A large spring ring energizes the ball and seats at low pressures creating a tight low pressure seal and compensating for the thermal growth at elevated temperatures.

4. BLOWOUT-PROOF STEM

Featuring a highly corrosion resistant super alloy, blowout proof, one-piece design. The stem design meets API 608 & 6D.

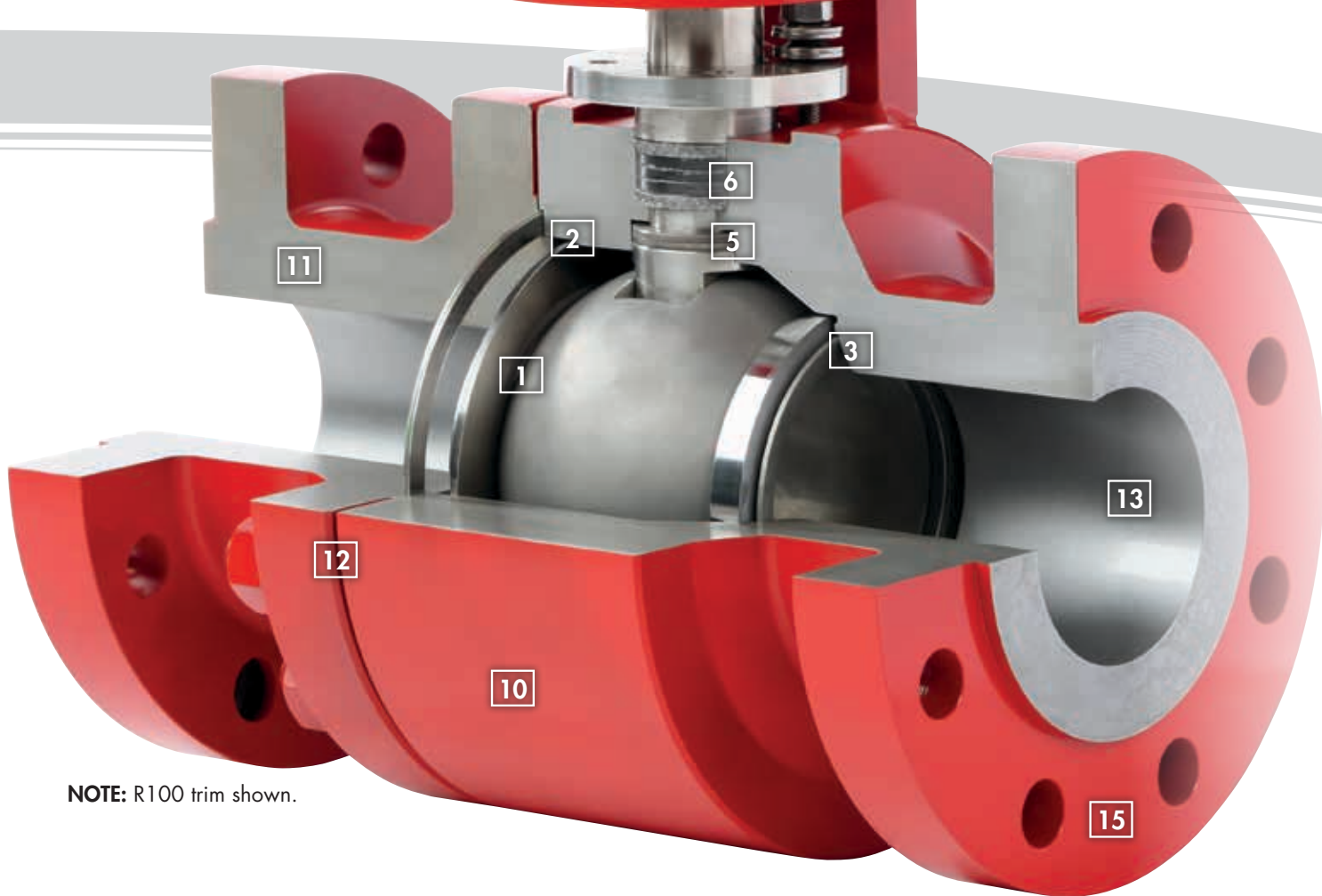
5. INNER STEM BEARINGS

Two coated inner stem bearing rings are used as thrust bearings for rotational movement. Gall resistant coatings are used to maximize bearing life. These rings are flat-lapped for low friction operation.

6. ZERO EMISSION LIVE LOADED PACKING

Zero emission packing rings are used to reduce the carbon footprint of the M1 valve in conjunction with spring washers to compensate for packing consolidations at elevated temperatures and high pressure conditions.





NOTE: R100 trim shown.

7. OUTER STEM BUSHING

To eliminate side loading caused by valve cycling and/or valve orientation, this bushing ring maintains concentric alignment on the valve stem.

8. STEM BUSHING INSERT

Gall resistant materials to withstand high cycles.

9. MOUNTING FLANGE

A large, robust mounting flange is built into the valve body to support heavy operators, and is critical to the drive train sealing feature.

10. VALVE CONSTRUCTION

Series M1 valve bodies are offered in both forged and cast material grades to meet or exceed specifications. Available in two piece or three piece construction.

11. WALL THICKNESS

Series M1 valves are designed to have additional corrosion allowances that exceeds ASME B16.34 minimum standards to ensure the highest safeguards against corrosive and erosive service environments.

12. BODY JOINT

The bolted connection is designed to meet and exceed ASME Section VIII, Div 1, Appendix 2 criteria.

- Series M1 valves rated up to ASME 1500 utilize a large cross-sectional spiral wound gasket.
- Series M1 valves rated ASME 2500 and higher utilize our proprietary seal ring.

13. VALVE BORES

Bore sizes are based on ASME B16.34 Appendix A Table A-1. Custom or reduced bore sizes are available.

14. STEM KEYS

Keys are engaged in a 'closed' keyway slot to eliminate disengagement from the valve stem and are positioned in-line with ball bore (flow path).

15. END CONNECTIONS

Series M1 valves are available in raised face, ring joint, butt weld, socket weld, and hub-type configurations.

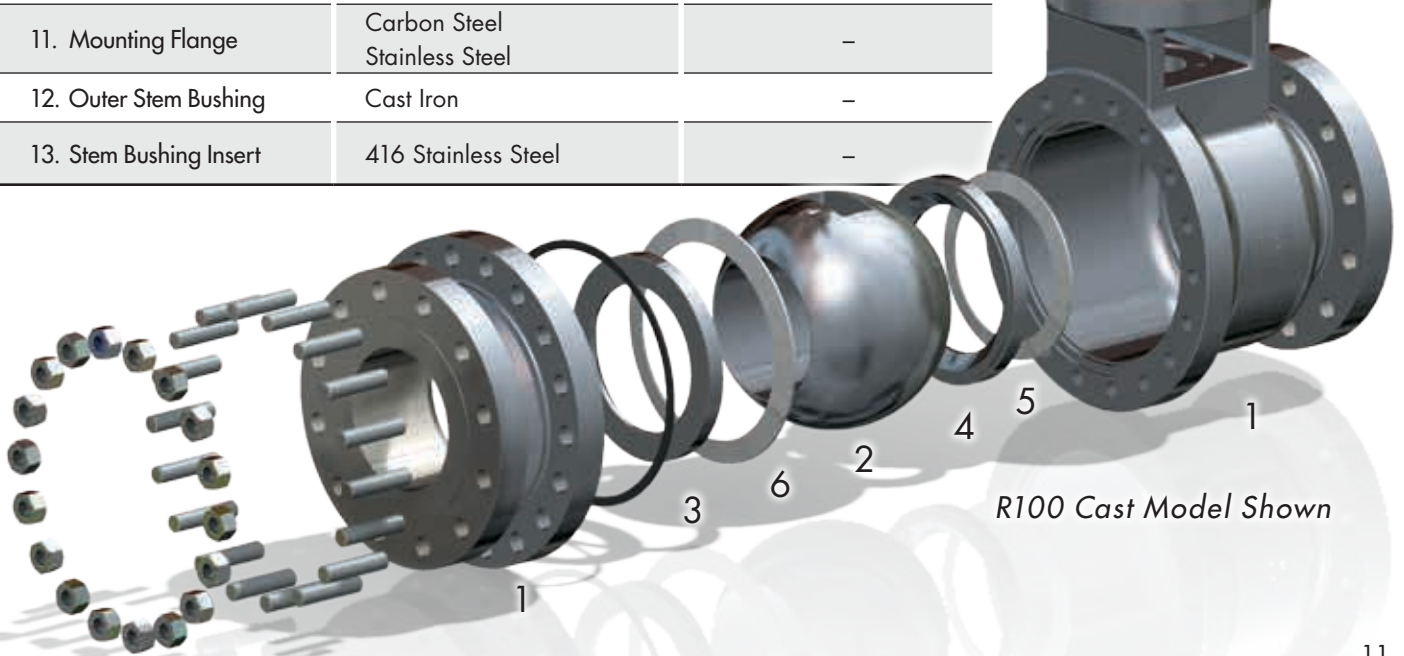
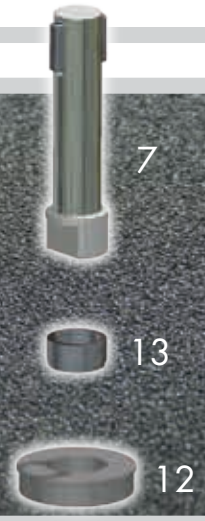
MATERIALS OF CONSTRUCTION



ITEM	STANDARD		OPTIONAL
1. Body & Closure	Forged	A105 Carbon Steel, A182 F316 Austenitic Stainless Steel A182 F9 Alloy Steel	A182 F347 & F347H Titanium Duplex & Super Duplex Stainless Steel
	Cast	A216 Gr WCB A351 Gr CF8M A217 Gr C12 Alloy Steel	A351 Gr CF8C
2. Ball	410 Stainless Steel 316 Stainless Steel		Inconel, Incolloys, Titanium Duplex Stainless Steel, 17-4 PH Stainless Steel
	Thermally Sprayed Coatings		
	HVOF Chromium Carbide HVOF Tungsten Carbide Fused Carbides		Metallic Ceramics Cobalt Based Carbides
3. Primary Seat Ring	410 Stainless Steel 316 Stainless Steel		Inconel, Incolloys, Titanium Duplex Stainless Steel, 17-4 PH Stainless Steel
	Thermally Sprayed Coatings		
	HVOF Chromium Carbide HVOF Tungsten Carbide Fused Carbides		Metallic Ceramics Cobalt Based Carbides
4. Spring Seat Ring	410 Stainless Steel 316 Stainless Steel		Inconel, Incolloys, Titanium Duplex Stainless Steel, 17-4 PH Stainless Steel
	Thermally Sprayed Coatings		
	HVOF Chromium Carbide HVOF Tungsten Carbide Fused Carbides		Metallic Ceramics Cobalt Based Carbides
5. Spring	Inconel 718		17-4 PH Stainless Steel
6. Locking Spring	316 Stainless Steel		Inconel, Incolloys, Duplex Stainless Steel, 17-4 PH Stainless Steel



ITEM	STANDARD	OPTIONAL
7. Stem	A638 Gr 660	Inconel, Incolloys, Titanium 17-4 PH Stainless Steel Duplex Stainless Steel
8. Inner Stem Bearings	410 Stainless Steel	Titanium
	316 Stainless Steel	Duplex Stainless Steel
	Thermally Sprayed Coatings	
	HVOF Chromium Carbide HVOF Tungsten Carbide Fused Carbides	Metallic Ceramics Cobalt Based Carbides
9. Gland Flange	316 Stainless Steel	–
10. Zero Emission Packing	Graphite	PTFE, PEEK
11. Mounting Flange	Carbon Steel Stainless Steel	–
12. Outer Stem Bushing	Cast Iron	–
13. Stem Bushing Insert	416 Stainless Steel	–



R100 Cast Model Shown

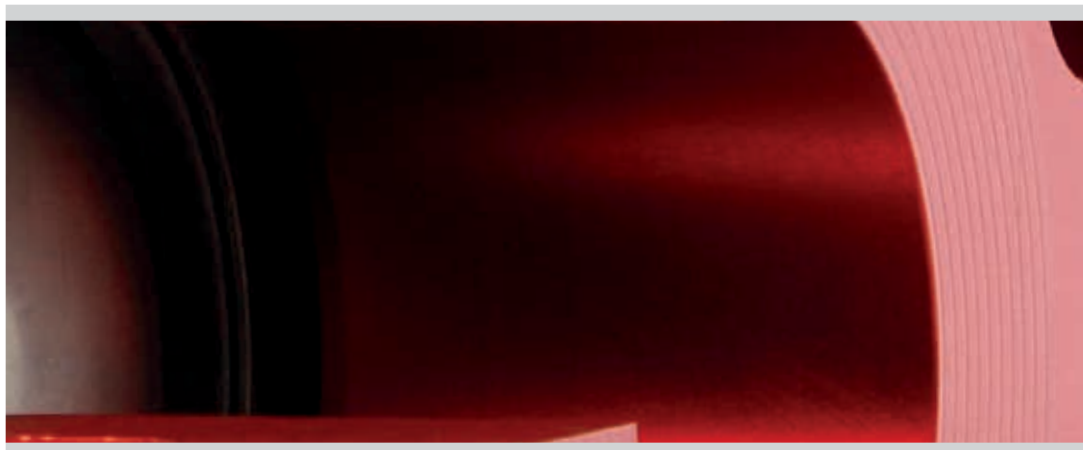
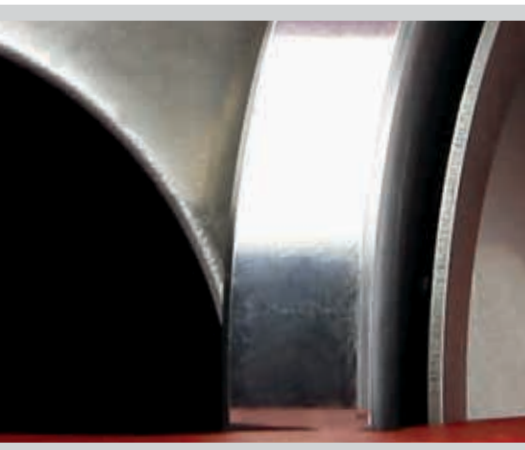
PRESSURE/TEMP RATINGS

Based on ASME B16.34 Standard Class

Carbon Steel - A105 - A216 Gr WCB - A350 Gr LF2

Temp °F	Working Pressures by Class, psig							Temp °C	Working Pressures by Class, bar						
	150	300	600	900	1500	2500	4500		150	300	600	900	1500	2500	4500
-20 to 100	285	740	1,480	2,220	3,705	6,170	11,110	-29 to 38	19.6	51.1	102.1	153.2	255.3	425.5	765.9
200	260	680	1,360	2,035	3,395	5,655	10,185	100	17.7	46.6	93.2	139.8	233.0	388.3	699.0
300	230	655	1,310	1,965	3,270	5,450	9,815	150	15.8	45.1	90.2	135.2	225.4	375.6	676.1
400	200	635	1,265	1,900	3,170	5,280	9,505	200	13.8	43.8	87.6	131.4	219.0	365.0	657.0
500	170	605	1,205	1,810	3,015	5,025	9,040	250	12.1	41.9	83.9	125.8	209.7	349.5	629.1
600	140	570	1,135	1,705	2,840	4,730	8,515	325	9.3	38.7	77.4	116.1	193.6	322.6	580.7
650	125	550	1,100	1,650	2,745	4,575	8,240	350	8.4	37.6	75.1	112.7	187.8	313.0	563.5
700	110	530	1,060	1,590	2,665	4,425	7,960	375	7.4	36.4	72.7	109.1	181.8	303.1	545.5
750	95	505	1,015	1,520	2,535	4,230	7,610	400	6.5	34.7	69.4	104.2	173.6	289.3	520.8
800 (1)	80	410	825	1,235	2,055	3,430	6,170	425 (1)	5.5	28.8	57.5	86.3	143.8	239.7	431.5
850 (1)	65	320	640	955	1,595	2,655	4,785	450 (1)	4.6	23.0	46.0	69.0	115.0	191.7	345.1

(1) Permissible, but not recommended for prolonged use above 800 °F (427 °C)



Low Alloy Steel - A182 Gr F9 - A217 Gr C12

Temp °F	Working Pressures by Class, psig							Temp °C	Working Pressures by Class, bar						
	150	300	600	900	1500	2500	4500		150	300	600	900	1500	2500	4500
-20 to 100	290	750	1,500	2,250	3,750	6,250	11,250	-29 to 38	20.0	51.7	103.4	155.1	258.6	430.9	775.7
200	260	750	1,500	2,250	3,750	6,250	11,250	100	17.7	51.5	103.0	154.6	257.6	429.4	773.0
300	230	730	1,455	2,185	3,640	6,070	10,925	150	15.8	50.3	100.3	150.6	250.8	418.2	752.8
400	200	705	1,410	2,115	3,530	5,880	10,585	200	13.8	48.6	97.2	145.8	243.4	405.4	729.8
500	170	665	1,330	1,995	3,325	5,540	9,965	250	12.1	46.3	92.7	139.0	231.8	386.2	694.8
600	140	605	1,210	1,815	3,025	5,040	9,070	325	9.3	41.4	82.6	124.0	206.6	344.3	619.6
650	125	590	1,175	1,765	2,940	4,905	8,825	350	8.4	40.3	80.4	120.7	201.1	335.3	603.3
700	110	570	1,135	1,705	2,840	4,730	8,515	375	7.4	38.9	77.6	116.5	194.1	323.2	581.8
750	95	530	1,065	1,595	2,660	4,430	7,970	400	6.5	36.5	73.3	109.8	183.1	304.9	548.5
800	80	510	1,015	1,525	2,540	4,230	7,610	425	5.5	35.2	70.0	105.1	175.1	291.6	524.7
850	65	485	975	1,460	2,435	4,060	7,305	450	4.6	33.7	67.7	101.4	169.0	281.8	507.0
900	50	450	900	1,350	2,245	3,745	6,740	475	3.7	31.7	63.4	95.1	158.2	263.9	474.8
950	35	375	755	1,130	1,885	3,145	5,655	500	2.8	28.2	56.5	84.7	140.9	235.0	423.0
1,000	20	255	505	760	1,270	2,115	3,805	538	1.4	17.5	35.0	52.5	87.5	145.8	262.4
1,050	20(a)	170	345	515	855	1,430	2,570	575	1.4(a)	10.5	20.9	31.4	52.3	87.1	156.8
1,100	20(a)	115	225	340	565	945	1,695	600	1.4(a)	7.2	14.4	21.5	35.9	59.8	107.7
1,150	20(a)	75	150	225	375	630	1,130	625	1.4(a)	5.0	9.9	14.9	24.8	41.4	74.5
1,200	20(a)	50	105	155	255	430	770	650	1.4(a)	3.5	7.1	10.6	17.7	29.5	53.2

(a) Flanged-end valve ratings terminate at 1,000°F (538 °C)

PRESSURE/TEMPERATURE RATINGS

Based on ASME B16.34 Standard Class

Stainless Steel - A182 Gr. F316 - A182 Gr. F316H - A351 Gr. CF8M

Temp °F	Working Pressures by Class, psig							Temp °C	Working Pressures by Class, bar						
	150	300	600	900	1500	2500	4500		150	300	600	900	1500	2500	4500
-20 to 100	275	720	1,440	2,160	3,600	6,000	10,800	-29 to 38	19.0	49.6	99.3	148.9	248.2	413.7	744.6
200	235	620	1,240	1,860	3,095	5,160	9,290	100	16.2	42.2	84.4	126.6	211.0	351.6	632.9
300	215	560	1,120	1,680	2,795	4,660	8,390	150	14.8	38.5	77.0	115.5	192.5	320.8	577.4
400	195	515	1,025	1,540	2,570	4,280	7,705	200	13.7	35.7	71.3	107.0	178.3	297.2	534.9
500	170	480	955	1,435	2,390	3,980	7,165	250	12.1	33.4	66.8	100.1	166.9	278.1	500.6
600	140	450	900	1,355	2,255	3,760	6,770	325	9.3	30.9	61.8	92.7	154.4	257.4	463.3
650	125	440	885	1,325	2,210	3,680	6,625	350	8.4	30.3	60.7	91.0	151.6	252.7	454.9
700	110	435	870	1,305	2,170	3,620	6,515	375	7.4	29.9	59.8	89.6	149.4	249.0	448.2
750	95	425	855	1,280	2,135	3,560	6,410	400	6.5	29.4	58.9	88.3	147.2	245.3	441.6
800	80	420	845	1,265	2,110	3,520	6,335	425	5.5	29.1	58.3	87.4	145.7	242.9	437.1
850	65	420	835	1,255	2,090	3,480	6,265	450	4.6	28.8	57.7	86.5	144.2	240.4	432.7
900	50	415	830	1,245	2,075	3,460	6,230	475	3.7	28.7	57.3	86.0	143.4	238.9	430.1
950	35	385	775	1,160	1,930	3,220	5,795	500	2.8	28.2	56.5	84.7	140.9	235.0	423.0
1,000	20	365	725	1,090	1,820	3,030	5,450	538	1.4	25.2	50.0	75.2	125.5	208.9	375.8
1,050	20(a)	360	720	1,080	1,800	3,000	5,400	575	1.4(a)	24.0	47.9	71.8	119.7	199.5	359.1
1,100	20(a)	305	610	915	1,525	2,545	4,575	600	1.4(a)	19.9	39.8	59.7	99.5	165.9	298.6
1,150	20(a)	235	475	710	1,185	1,970	3,550	625	1.4(a)	15.8	31.6	47.4	79.1	131.8	237.2
1,200	20(a)	185	370	555	925	1,545	2,775	650	1.4(a)	12.7	25.3	38.0	63.3	105.5	189.9
1,250	20(a)	145	295	440	735	1,230	2,210	675	1.4(a)	10.3	20.6	31.0	51.6	86.0	154.8
1,300	20(a)	115	235	350	585	970	1,750	700	1.4(a)	8.4	16.8	25.1	41.9	69.8	125.7
1,350	20(a)	95	190	290	480	800	1,440	725	1.4(a)	7.0	14.0	21.0	34.9	58.2	104.8
1,400	20(a)	75	150	225	380	630	1,130	775	1.4(a)	4.6	9.0	13.7	22.8	38.0	68.4
1,450	20(a)	60	115	175	290	485	875	800	1.2(a)	3.5	7.0	10.5	17.4	29.2	52.6
1,500	15(a)	40	85	125	205	345	620	816	1.0(a)	2.8	5.9	8.6	14.1	23.8	42.7

(a) Flanged-end valve ratings terminate at 1,000°F (538 °C)

Stainless Steel - A182 Gr. F347 - A182 Gr. F347H - A351 Gr. CF8C

Temp °F	Working Pressures by Class, psig							Temp °C	Working Pressures by Class, bar						
	150	300	600	900	1500	2500	4500		150	300	600	900	1500	2500	4500
-20 to 100	275	720	1,440	2,160	3,600	6,000	10,800	-29 to 38	19.0	49.6	99.3	148.9	248.2	413.7	744.6
200	255	660	1,325	1,985	3,310	5,520	9,935	100	17.4	45.3	90.6	135.9	226.5	377.4	679.4
300	230	615	1,235	1,850	3,085	5,140	9,250	150	15.8	42.5	84.9	127.4	212.4	353.9	637.1
400	200	575	1,150	1,730	2,880	4,800	8,640	200	13.8	39.9	79.9	119.8	199.7	332.8	599.1
500	170	540	1,085	1,625	2,710	4,520	8,135	250	12.1	37.8	75.6	113.4	189.1	315.1	567.2
600	140	515	1,030	1,550	2,580	4,300	7,740	325	9.3	35.4	70.7	106.1	176.8	294.6	530.3
650	125	505	1,015	1,520	2,530	4,220	7,595	350	8.4	34.8	69.5	104.3	173.8	289.6	521.3
700	110	495	995	1,490	2,485	4,140	7,450	375	7.4	34.2	68.4	102.6	171.0	285.1	513.1
750	95	490	985	1,475	2,460	4,100	7,380	400	6.5	33.9	67.8	101.7	169.5	282.6	508.6
800	80	485	975	1,460	2,435	4,060	7,310	425	5.5	33.6	67.2	100.8	168.1	280.1	504.2
850	65	485	970	1,455	2,425	4,040	7,270	450	4.6	33.5	66.9	100.4	167.3	278.8	501.8
900	50	450	900	1,350	2,245	3,745	6,740	475	3.7	31.7	63.4	95.1	158.2	263.9	474.8
950	35	385	775	1,160	1,930	3,220	5,795	500	2.8	28.2	56.5	84.7	140.9	235.0	423.0
1,000	20	365	725	1,090	1,820	3,030	5,450	538	1.4	25.2	50.0	75.2	125.5	208.9	375.8
1,050	20(a)	360	720	1,080	1,800	3,000	5,400	575	1.4(a)	24.0	47.9	71.8	119.7	199.5	359.1
1,100	20(a)	325	645	965	1,610	2,685	4,835	600	1.4(a)	21.6	42.9	64.2	107.0	178.5	321.4
1,150	20(a)	275	550	825	1,370	2,285	4,115	625	1.4(a)	18.3	36.6	54.9	91.2	152.0	273.8
1,200	20(a)	205	410	620	1,030	1,715	3,085	650	1.4(a)	14.1	28.1	42.5	70.7	117.7	211.7
1,250	20(a)	180	365	545	910	1,515	2,725	675	1.4(a)	12.4	25.2	37.6	62.7	104.5	187.9
1,300	20(a)	140	275	410	685	1,145	2,060	700	1.4(a)	10.1	20.0	29.8	49.7	83.0	149.4
1,350	20(a)	105	205	310	515	860	1,545	725	1.4(a)	7.9	15.4	23.2	38.6	64.4	115.8
1,400	20(a)	75	150	225	380	630	1,130	775	1.4(a)	4.6	9.0	13.7	22.8	38.0	68.4
1,450	20(a)	60	115	175	290	485	875	800	1.2(a)	3.5	7.0	10.5	17.4	29.2	52.6
1,500	15(a)	40	85	125	205	345	620	816	1.0(a)	2.8	5.9	8.6	14.1	23.8	42.7

(a) Flanged-end valve ratings terminate at 1,000°F (538 °C)

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