

R&M ENERGY SYSTEMS

A Unit of Robbins & Myers, Inc.



HERCULES[®]
BALL VALVES

**For Superior Product Quality, High Performance and Dependable Customer Service,
Turn to R&M Energy Systems™ ...The Name of Quality!**

All Hercules® ball valves provide trouble-free service at a price you can afford. These valves can be found in a multitude of industrial and petroleum applications worldwide, and each is constructed of only the highest quality materials. Hercules® ball valves are available in a variety of body styles and materials to meet or exceed applicable industry standards.

Hercules® Ball Valves are Built for Maximum Safety and Reliability

- All ball valves feature a blow-out proof stem adding to the assurance of leak-free applications, dependable flow control and ease of operation.
- To further insure reliable service, an integral stop is inherent in each valve body to indicate the opened or closed position.
- All ball valve handles are zinc-plated and have vinyl sleeves to reduce heat transfer.
- All ball valves are pressure-tested prior to shipping to insure seat integrity and performance.

ENGLISH-METRIC PRESSURE & TEMPERATURE EQUIVALENTS							
PSI	kPa	PSI	kPa	PSI	kPa	°F	°C
200	1380	1400	9655	2000	13,790	0	-18
400	2760	1500	10,340	2100	14,480	100	38
600	4140	1600	11,030	2200	15,170	200	93
800	5516	1700	11,720	2300	15,860	300	149
1000	6895	1800	12,410	2400	16,550	400	204
1200	8275	1900	13,100	2500	17,240	500	260

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For the location of your nearest R&M Energy Systems Distributor, please contact our Customer Service Department at:

USA 1-800-858-4158 • Canada 1-800-661-5659

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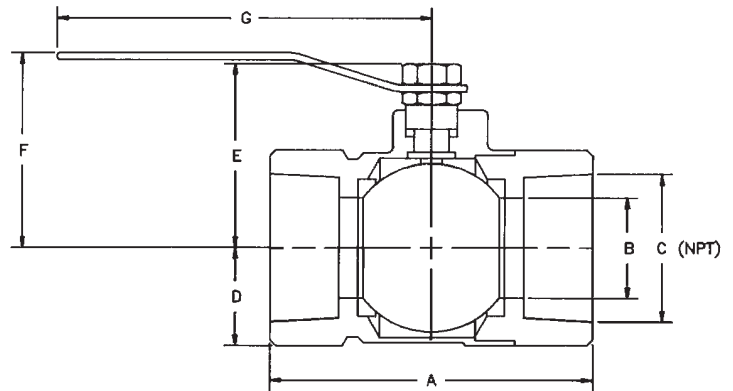
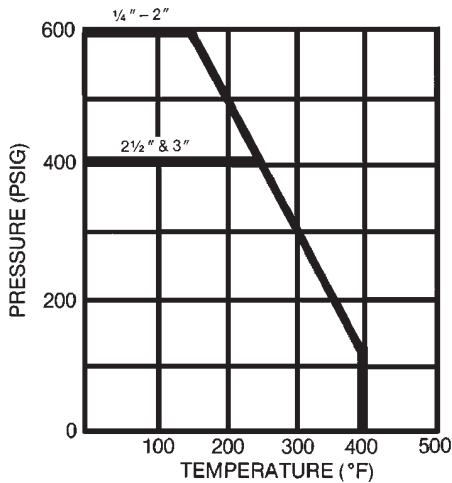
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QT™ Series 37-100 bronze (ASTM B584) two-piece ball valves meet Federal Specification WW-V-35B Type 11, Class A, Style 3. These valves are compact in design and offer two-way directional flow. All sealing parts (seats, packing rings and thrust washers) are made of reinforced PTFE for reliable seal-tight service and low operating torque.



Pressure-Temperature Limits for Reinforced PTFE Seats



Part	Material
Nut	Steel, Cadmium-Plated
Handle	Steel, Zinc-Plated
Packing Nut	Brass, ASTM B16
Stem Seal	Reinforced PTFE
Body	Bronze, ASTM B584
Seats	Reinforced PTFE
Ball	Brass, ASTM B16 Chrome-Plated
Tail Piece	Bronze, ASTM B124
Thrust Washer	Reinforced PTFE
Stem	Brass, ASTM B21

Size	PSI	Product Number	A	B	C	D	E	F	G	Weight
1/4"	600	37100101	1.8"	.39"	1/4"	.5"	1.3"	1.5"	3.3"	.4 lbs.
3/8"	600	37100102	1.8"	.39"	3/8"	.5"	1.3"	1.5"	3.3"	.4 lbs.
1/2"	600	37100103	2.0"	.50"	1/2"	.6"	1.3"	1.6"	3.3"	.5 lbs.
3/4"	600	37100104	2.4"	.78"	3/4"	.8"	1.7"	2.1"	4.7"	.9 lbs.
1"	600	37100105	3.0"	1.00"	1"	.9"	1.8"	2.2"	4.7"	1.3 lbs.
1-1/4"	600	37100106	3.4"	1.25"	1-1/4"	1.2"	2.1"	2.6"	5.3"	2.4 lbs.
1-1/2"	600	37100107	3.7"	1.50"	1-1/2"	1.4"	2.4"	2.8"	5.3"	2.8 lbs.
2"	600	37100108	4.8"	1.50"	2"	1.6"	2.6"	3.0"	5.5"	6.3 lbs.
2-1/2"	400	37100109	4.8"	2.00"	2-1/2"	1.8"	3.4"	3.3"	8.0"	6.9 lbs.
3"	400	37100110	5.6"	2.50"	3"	2.2"	4.0"	3.7"	8.0"	9.3 lbs.



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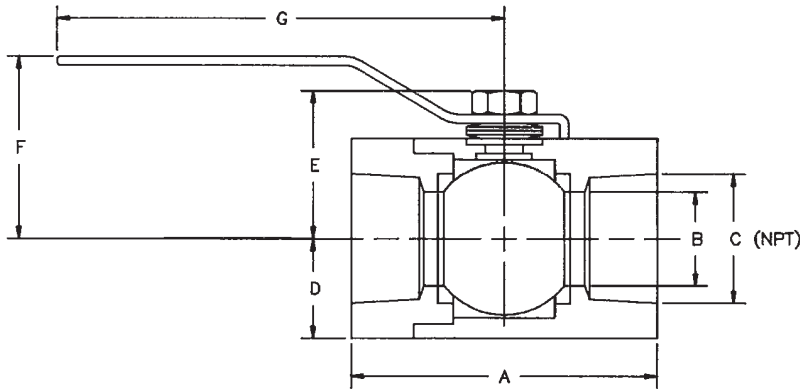
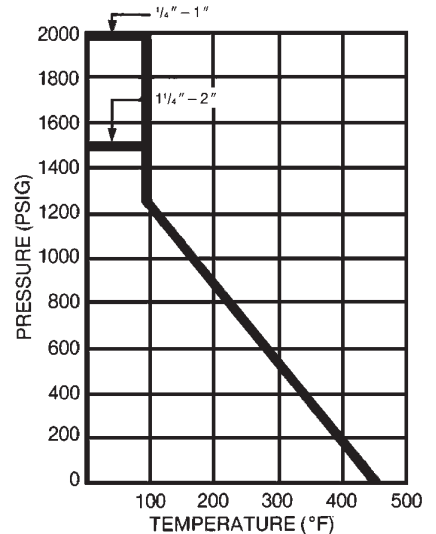
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Magnum™ Series 37-200 carbon steel barstock two-piece standard port ball valves have a broad temperature and pressure service range. The stem is bottom-loaded and uses a reinforced PTFE thrust washer bearing against a machined shoulder in the valve body for blow-out proof protection. Belleville washers flex to compensate for normal wear, as well as seal expansion and contraction from temperature changes. A locking nut holds the handle securely to the stem and provides in-service stem seal adjustment.

Pressure-Temperature Limits for Reinforced PTFE Seats



Size	PSI	Product Number	A	B	C	D	E	F	G	Weight
1/4"	2000	37200101	2.3"	.38"	1/4"	.5"	1.1"	2.3"	4.3"	.6 lbs.
3/8"	2000	37200102	2.3"	.38"	3/8"	.5"	1.1"	2.3"	4.3"	.6 lbs.
1/2"	2000	37200103	2.5"	.50"	1/2"	.6"	1.3"	2.4"	4.3"	.8 lbs.
3/4"	2000	37200104	3.0"	.69"	3/4"	.8"	1.5"	2.6"	4.3"	1.5 lbs.
1"	2000	37200105	3.4"	.88"	1"	1.0"	1.9"	2.9"	5.9"	2.4 lbs.
1-1/4"	1500	37200106	3.7"	1.00"	1-1/4"	1.1"	2.0"	3.1"	5.9"	3.0 lbs.
1-1/2"	1500	37200107	4.1"	1.25"	1-1/2"	1.3"	2.3"	3.3"	7.5"	4.8 lbs.
2"	1500	37200108	4.6"	1.50"	2"	1.5"	2.6"	3.6"	7.5"	6.5 lbs.

Part	Material
Nut	Steel, Zinc-Plated
Handle	Steel, Zinc-Plated
Belleville Washers (2)	Steel, Zinc-Plated
Stem Follower	Steel, Zinc-Plated
Stem Seal	Reinforced PTFE
Body	Carbon Steel
Seats	Reinforced PTFE
Ball	Stainless Steel
Tail Piece	Carbon Steel
Thrust Washer	PTFE
Stem	Carbon Steel



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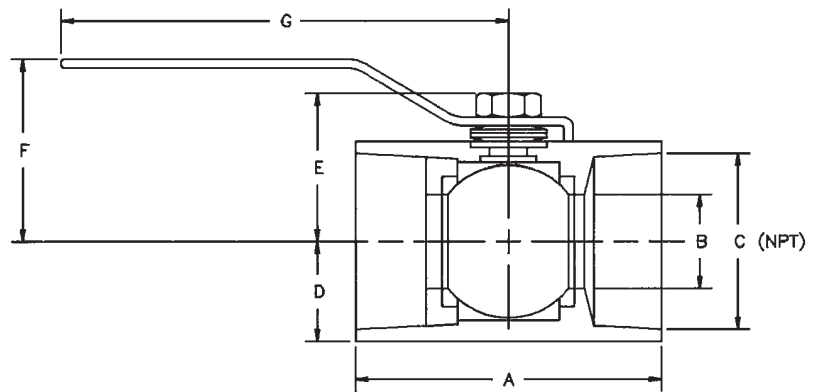
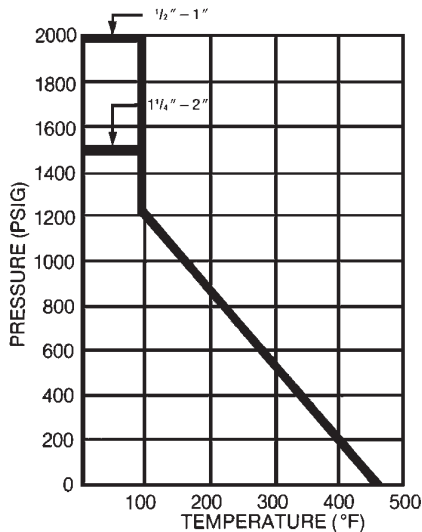
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Magnum™ Series 37-210 carbon steel barstock one-piece reduced port ball valves have a broad temperature and pressure service range. As in the 37-200 two-piece valve, the one-piece 37-210 ball valve has the same characteristics concerning stem design, the use of Belleville washers to compensate for normal wear as well as seal expansion and contraction from temperature changes, and the locking nut's use for in-service stem seal adjustment.



Pressure-Temperature Limits for Reinforced PTFE Seats



Part	Material
Nut	Steel, Zinc-Plated
Handle	Steel, Zinc-Plated
Belleville Washers (2)	Steel, Zinc-Plated
Stem Follower	Steel, Zinc-Plated
Stem Seal	Reinforced PTFE
Body	Carbon Steel
Seats	Reinforced PTFE
Ball	Stainless Steel
Spacer	Carbon Steel
Thrust Washer	PTFE
Stem	Carbon Steel

Size	PSI	Product Number	A	B	C	D	E	F	G	Weight
1/2"	2000	37210303	2.3"	.38"	1/2"	.5"	1.1"	2.3"	4.3"	.6 lbs.
3/4"	2000	37210304	2.5"	.50"	3/4"	.6"	1.3"	2.4"	4.3"	.6 lbs.
1"	2000	37210305	3.0"	.65"	1"	.8"	1.5"	2.6"	4.3"	1.1 lbs.
1-1/4"	1500	37210306	3.2"	.81"	1-1/4"	1.0"	1.6"	2.8"	5.8"	1.9 lbs.
1-1/2"	1500	37210307	3.5"	1.00"	1-1/2"	1.1"	1.8"	2.8"	5.8"	2.6 lbs.
2"	1500	37210308	4.0"	1.25"	2"	1.3"	2.3"	3.5"	7.5"	4.2 lbs.



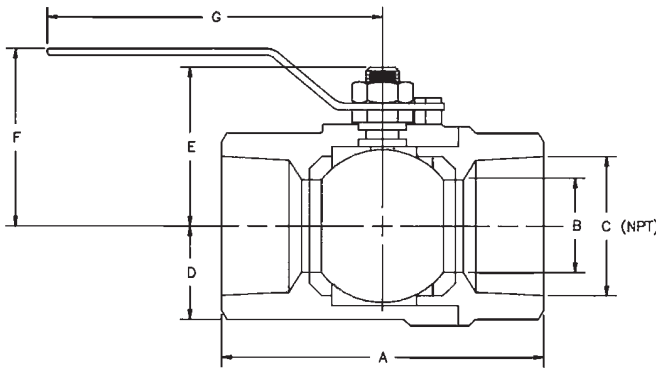
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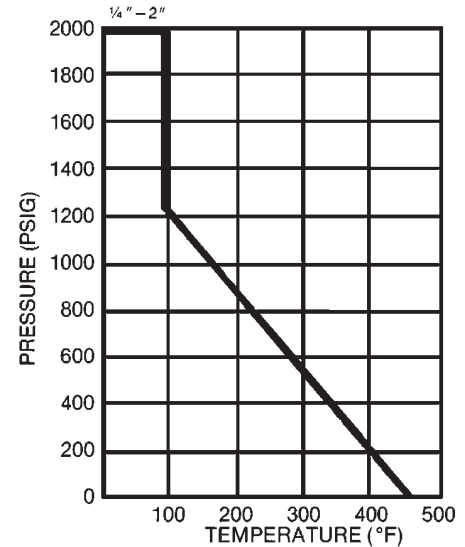
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QT™ Series 37-300 316 stainless steel investment cast two-piece standard port ball valves are designed for flow lines that demand severe or critical protection. Large ports serve to minimize pressure drops with two-way directional flow ability and drip-tight closures, while a gland nut serves to adjust stem packing for added wear life. Sliding lock standard on all valves.



Pressure-Temperature Limits for Reinforced PTFE Seats



Size	PSI	Product Number	A	B	C	D	E	F	G	Weight
1/4"	2000	37300101	2.0"	.38"	1/4"	.5"	1.4"	1.8"	4.4"	.6 lbs.
3/8"	2000	37300102	2.0"	.38"	3/8"	.5"	1.4"	1.8"	4.4"	.6 lbs.
1/2"	2000	37300103	2.4"	.50"	1/2"	.6"	1.6"	2.0"	4.4"	.7 lbs.
3/4"	2000	37300104	2.8"	.69"	3/4"	.8"	2.0"	2.5"	5.9"	1.3 lbs.
1"	2000	37300105	3.3"	.88"	1"	.9"	2.2"	2.5"	5.9"	1.8 lbs.
1-1/4"	2000	37300106	3.6"	1.00"	1-1/4"	1.0"	2.5"	2.9"	7.9"	2.6 lbs.
1-1/2"	2000	37300107	4.0"	1.25"	1-1/2"	1.3"	2.6"	3.1"	7.9"	3.8 lbs.
2"	2000	37300108	4.6"	1.50"	2"	1.5"	2.9"	3.4"	7.9"	5.5 lbs.

Part	Material
Nut	Stainless Steel
Handle	304 Stainless Steel
Packing Nut	316 Stainless Steel
Stem Seal	PTFE
Body	316 Stainless Steel
Seats	Reinforced PTFE
Ball	316 Stainless Steel
Tail Piece	316 Stainless Steel
Thrust Washer	Reinforced PTFE
Stem	316 Stainless Steel



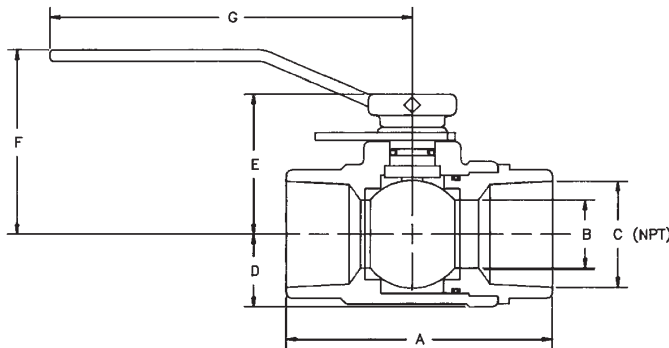
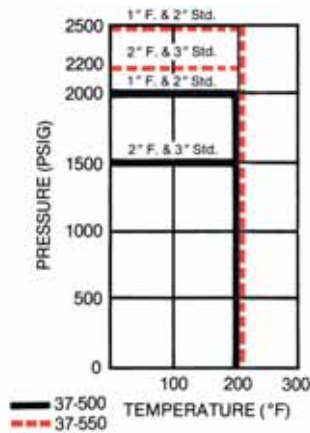
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Wildcat'r™ Series 37-500 furnace annealed ductile iron (ASTM A395) and Series 37-550 carbon steel two-piece ball valves are zinc phosphate-coated for corrosion protection. The floating ball design of these valves assures bubble-tight sealing during low and high pressure conditions. These valves also come standard with a lock plate which provides security against unauthorized operation.



Pressure-Temperature Limits for Reinforced Nylon® Seats



Part	Material
Handle	Ductile Iron
Snap Ring Cover	Plastic
Snap Ring	Carbon Steel, Cadmium-Plated
Lock Plate	Carbon Steel, Cadmium-Plated
Body	(See Note 1)
Index Pin	Carbon Steel
Seats	Delrin
Ball	Carbon Steel, Chrome-Plated (See Note 2)
O-Ring, Body	Viton®
Tail Piece	(See Note 1)
O-Ring, Stem	Viton
Thrust Washer	Reinforced PTFE
Stem	Carbon Steel (See Note 2)

(1) 37-500: Ductile Iron A395 • 37-550: Carbon Steel A216 WCC
 (2) Severe service trim available. Contact Customer Service.
 * Nylon and Vitron are registered trademarks of E.I. DuPont Corp.

Size	PSI		Product Number		A	B	C	D	E	F	G	Weight	
	500	550	500	550								500	550
1" Full	2000	2500	37500205	37550205	4.8"	1.0"	1"	1.3"	2.6"	4.0"	7.2"	5 lbs.	5.5 lbs.
2" Standard	2000	2500	37500108	37550108	6.2"	1.5"	2"	1.7"	3.2"	4.5"	8.4"	10 lbs.	10.5 lbs.
2" Full	1500	2200	37500208	37550208	6.9"	2.0"	2"	2.0"	3.9"	5.0"	8.4"	14 lbs.	15 lbs.
3" Standard	1500	2200	37500110	37550310	8.5"	2.0"	3"	2.5"	3.9"	5.0"	8.4"	22 lbs.	24 lbs.



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