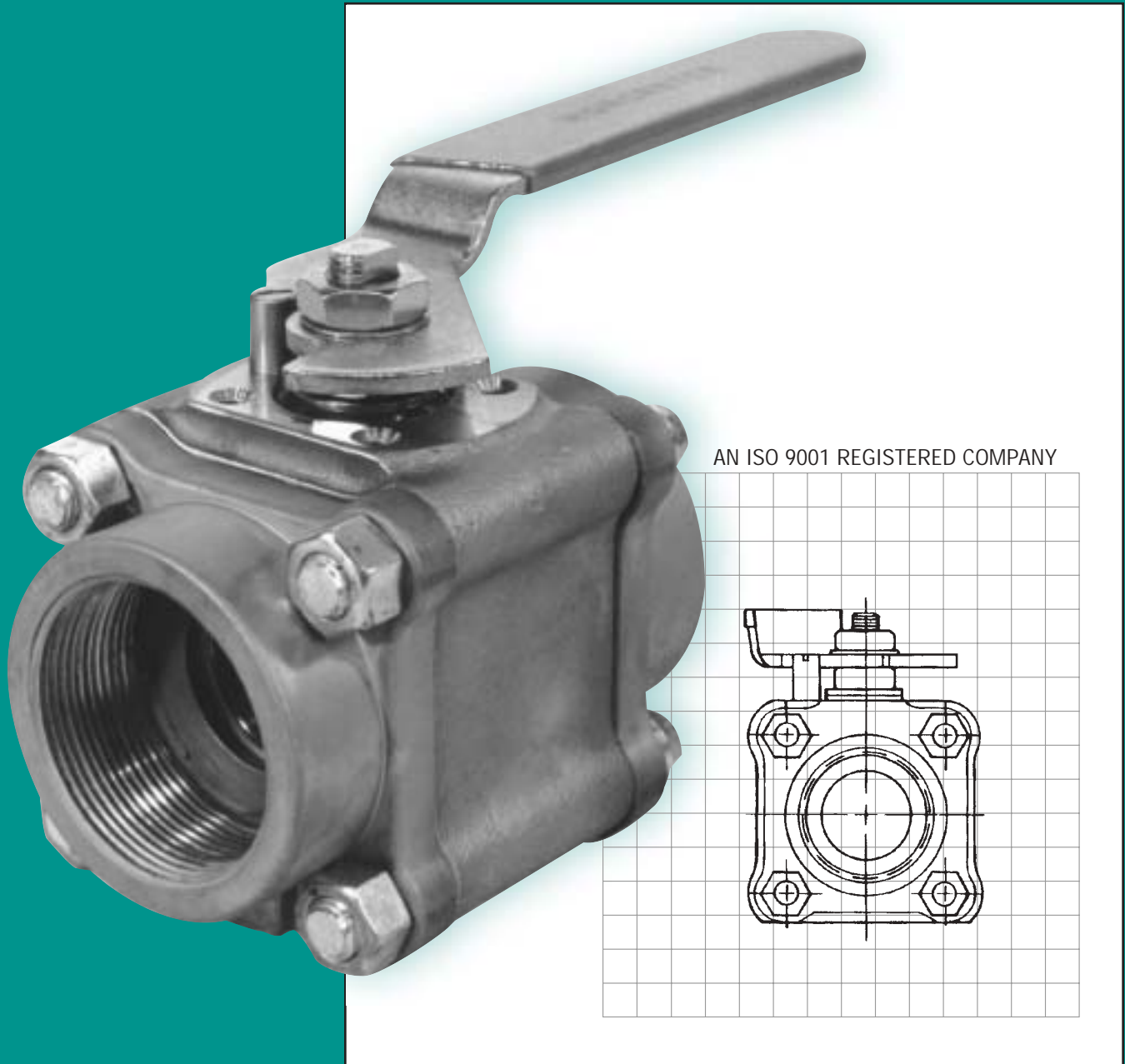




Worcestor Controls

SB 950-19



***Series H44 Dyn-O-Miser[®]
High Pressure Ball Valve***

*Resilient seated high performance ball valves capable
of pressures to 5000 psi, temperatures to 450°F*

Series H44, an advanced design ball valve that can take the stress of hydraulic and other high pressure systems.

Worcester's Series H44 3-piece ball valve, continues to be one of the most respected ball valve designs in the industry. With advanced sealing technology and top mount actuator bracket design, this ball valve is very durable and can handle pressures to 5000 psi and temperatures to 450°F.

H44 Series valves feature two seat materials; (Delrin® AF, a high pressure material by Dupont), composed of an Acetal homopolomer filled with Teflon and glass fiber. High-per Fill® (PEEK) is made of PolyEtherEtherKetone filled with glass and graphite and is recommended for high pressure systems with temperatures above 180°F.

Top Mounted Actuator Design

Actuators for Worcester's Series H44 3-piece valves are mounted on rigid, precisely machined, box style brackets bolted to the valve center section. This brings a number of advantages to the valve user:

- Actuator loads are on the valve body.
- Actuators and brackets can be removed for service without affecting valve or piping integrity.
- Easy access to stem seal adjustment.

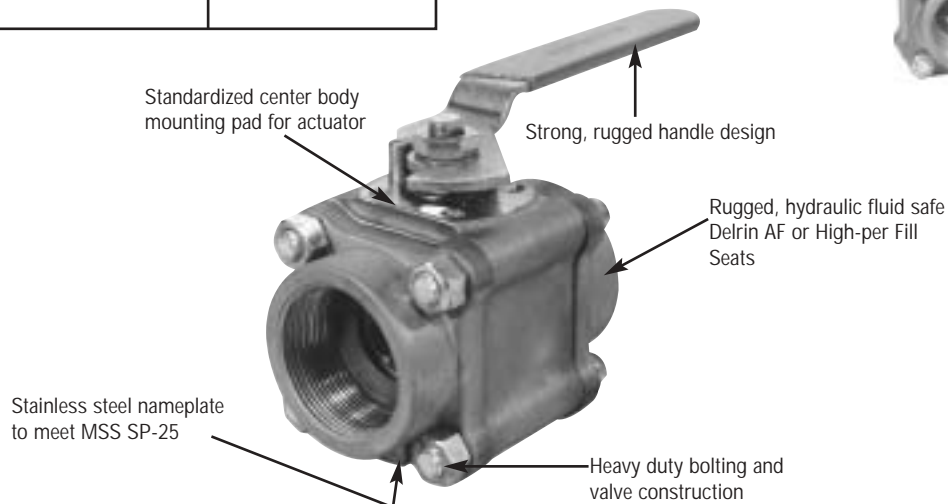
Specifications

Sizes: 1/4", 3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2", 2".
Style: 3-piece - Series H44.
Ratings: Body and seat/seal ratings shown opposite.
Body/Pipe End Materials: Carbon steel or stainless steel.
Ends: Screwed or socket weld.
Operation: Manual lever handle. Electric or pneumatic actuators available.

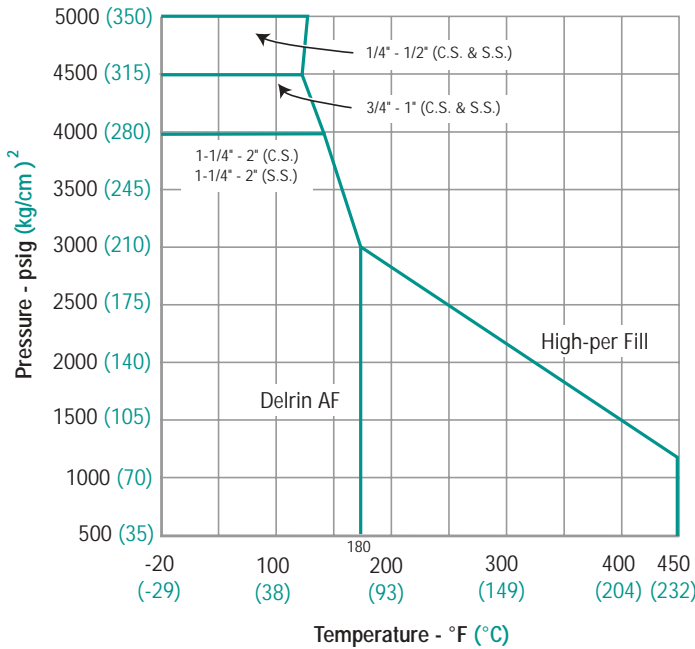
<u>SEATS:</u>	<u>DELTRIN AF</u>	<u>HIGH-PER FILL</u>
Max. Temp.	180°F	450°F
Max. Temp. Body Seals:	Buna 300°F EPR 350°F Viton 450°F Neoprene 250°F UHMWPE 200°F TFE 400°F	Viton 450°F TFE 400°F UHMWPE 200°F
Leakage Rate:	Bubbletight	Bubbletight
Thrust Bearing:	Delrin	PolyEtherEtherKetone (PEEK)
Stem Seal:	Reinforced TFE	Reinforced TFE

Maximum Operating Pressure Body Rating (non-shock)

Valve Size	Valve and Pipe End Material	Maximum Pressure Rating
1/4", 3/8", 1/2"	C.S. and S.S.	Up to 5000 psi
3/4", 1"	C.S. and S.S.	Up to 4500 psi
1 1/4", 1 1/2", 2"	C.S. and S.S.	Up to 4000 psi



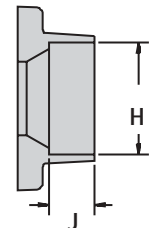
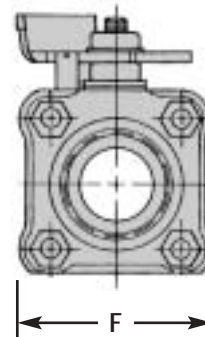
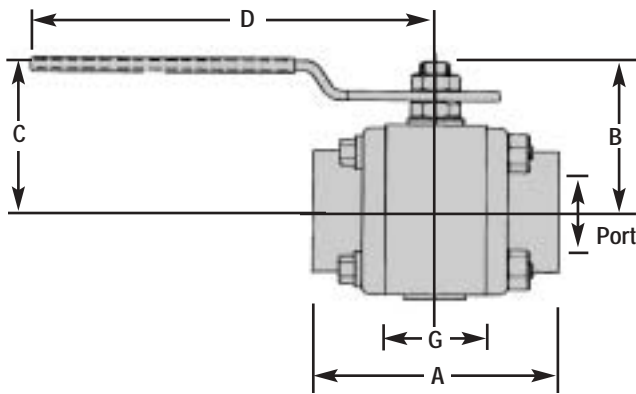
Pressure/Temperature Ratings



Note: Body seals have pressure ratings that exceed the rating of the seats.

Flow Coefficient C_v Values (USGPM)

Valve Size	C _v
1/4"	8
3/8"	8
1/2"	8
3/4"	12
1"	32
1 1/4"	46
1 1/2"	82
2"	120



Dimensions - in. (mm)

Valve Size	A	B	C	D	F	G	H Socket Weld (SW)	J	Port	Approx Weight lbs. (kg)
1/4"	2.54 (64.5)	1.55 (39.4)	1.76 (44.7)	5.53 (140)	1.75 (44.5)	.813 (20.7)	.555 (14.1)	.44 (11.2)	.44 (11.2)	1.10 (.50)
3/8"	2.54 (64.5)	1.55 (39.4)	1.76 (44.7)	5.53 (140)	1.75 (44.5)	.813 (20.7)	.690 (17.5)	.44 (11.2)	.44 (11.2)	1.10 (.50)
1/2"	2.54 (64.5)	1.55 (39.4)	1.76 (44.7)	5.53 (140)	1.75 (44.5)	.813 (20.7)	.855 (21.7)	.44 (11.2)	.44 (11.2)	1.10 (.50)
3/4"	2.76 (70.1)	1.64 (41.7)	1.86 (47.2)	5.53 (140)	2.00 (50.8)	.969 (24.6)	1.065 (27.1)	.56 (14.2)	.56 (14.2)	1.75 (.79)
1"	3.66 (93.0)	2.19 (55.6)	2.28 (57.9)	6.53 (166)	2.38 (60.5)	1.25 (31.8)	1.330 (33.8)	.72 (18.3)	.81 (20.6)	3.10 (2.04)
1 1/4"	4.16 (105)	2.38 (60.5)	2.47 (62.7)	6.53 (166)	2.70 (68.6)	1.63 (41.3)	1.675 (42.5)	.72 (18.3)	1.00 (25.4)	4.50 (2.82)
1 1/2"	4.50 (114)	2.88 (73.2)	2.83 (71.9)	8.03 (204)	3.16 (80.3)	1.91 (48.4)	1.915 (48.6)	.72 (18.3)	1.25 (31.8)	6.20 (2.04)
2"	4.94 (126)	3.06 (77.7)	3.02 (76.7)	8.03 (204)	3.56 (90.4)	2.22 (56.3)	2.406 (61.1)	.84 (21.3)	1.50 (38.1)	9.50 (4.31)

How to Order

Valve Size	Options	Series	Body, Pipe Ends	Ball & Stem	Seats	Body Seals	Ends	Variations
1/4" 3/8" 1/2" 3/4" 1" 1 1/4" 1 1/2" 2"	Blank-Lever Handle E-No handle, valve built for automation G-Stem grounding	H44	4-Carbon Steel *6-316 S.S.	6-Stainless Steel Ball-316 S.S. Stem-17-4ph S.S.	Y-Delrin AF X-High-Per Fill	B-Buna E-EPR N-Neoprene T-TFE U-UHMWPE V-Viton T-TFE U-UHMWPE V-Viton	SE-Screw End SW-Socket Weld	Blank - No Variations V3 - Upstream Relief Hole V5 - Hydrostatic Testing V6 - Source Inspection V32 - Oval Handle V36 - Cert. of Compliance V37 - Cert. of Compliance & Hydro Testing V46 - Silicon Free Lubricant V48 - Extended Lever Handle V59 - Extended Oval Handle V60 - OSHA Lockout V66 - Cert. of Compliance for European Valve Orders V72 - Cert. of Compliance for European Pressure Equipment Directive Conformance

*Socket weld pipe ends of stainless steel are 316L.

Ordering example above: 1" Dyn-O-Miser with lever handle, carbon steel body and pipe ends, stainless ball and stem, Delrin AF seats, Buna body seals and screwed end connections.

NOTE: For high pressure medias that are highly flammable, explosive, or toxic, consult Worcester Controls. Standard Worcester valves are assembled with silicon based break-in lubricant. For other options, consult your distributor or Worcester Controls.

Caution: Ball valves can retain pressurized media in the body cavity when closed. Use care when disassembling. Always open valve to relieve pressure prior to disassembly. Due to continuous development of our product range, we reserve the right to alter the product specifications and information contained in this brochure as required.

Worcester is a registered trademark of Worcester Controls. • High-Per-Fill® is a registered trademark of Worcester Controls.
 Dyn-O-Miser is a registered trademark of Worcester Controls. • Delrin® is a registered trademark of the Dupont Co.

Flowserve Corporation has established industry leadership in the design and manufacture of its products. When properly selected, this Flowserve product is designed to perform its intended function safely during its useful life. However, the purchaser or user of Flowserve products should be aware that Flowserve products might be used in numerous applications under a wide variety of industrial service conditions. Although Flowserve can (and often does) provide general guidelines, it cannot provide specific data and warnings for all possible applications. The purchaser/user must therefore assume the ultimate responsibility for the proper sizing and selection, installation, operation, and maintenance of Flowserve products. The purchaser/user should read and understand the Installation Operation Maintenance (IOM) instructions included with the product, and train its employees and contractors in the safe use of Flowserve products in connection with the specific application.

While the information and specifications contained in this literature are believed to be accurate, they are supplied for informative purposes only and should not be considered certified or as a guarantee of satisfactory results by reliance thereon. Nothing contained herein is to be construed as a warranty or guarantee, express or implied, regarding any matter with respect to this product. Because Flowserve is continually improving and upgrading its product design, the specifications, dimensions and information contained herein are subject to change without notice. Should any question arise concerning these provisions, the purchaser/user should contact Flowserve Corporation at any one of its worldwide operations or offices.

For more information about Flowserve Corporation, contact www.flowserve.com or call USA 1 800 225 6989.

FLOWSERVE CORPORATION
FLOW CONTROL DIVISION
 1978 Foreman Drive
 Cookeville, Tennessee 38501 USA
 Phone: 931 432 4021
 Facsimile: 931 432 5518