

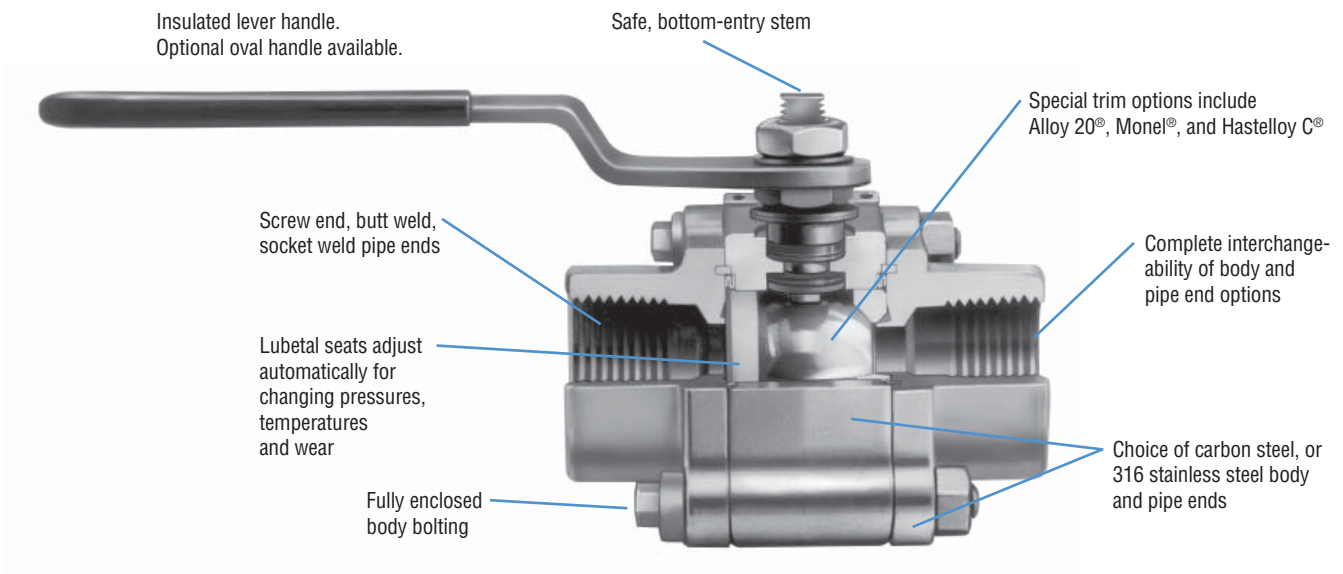


Worcester Controls

FCD WCABR1047-00
(Part PB LTS4)

Series LTS4

Low-Temperature Sour Service Ball Valve



Flowserve Worcester Controls has tailored the LTS4 Series valves to meet the severe condition of Oil and Gas Production in Northern Climates. All materials and seals were carefully chosen to meet or exceed the -50°F (-45°C) minimum design temperature. Additionally, the LTS4 valve incorporates Worcester's standard three-piece design and components making the valve easy to service with readily available repair parts.

	A350 LF2 Body	Seats	Body Seals
NACE MR0175 Non-exposed	✓	✓	✓
-50°F (-45°C)	✓	✓	✓
2000 psig WOG*	✓	Y	✓
Steam Service	✓	P	✓
Weld-in-Place	✓	P	✓

* See Valve Pressure Ratings under Design on back of this page.

How To Order

<u>1"</u>	<u>LTS4</u>	<u>4</u>	<u>6</u>	<u>PM</u>	<u>SW</u>	<u>V#</u>
Valve Size	Product Series	Body & Pipe Ends	Ball & Stem	Seats & Seals	Connections	Variations
½"-2"	LTS4	4	6	YT PM	SE - FNPT SW - Socket Weld BW8 - Butt Weld, Sch, 80	Blank - None V 67 - Weld-in-place (only with PM Seat/body seal, 1480 psig CWP)

Construction

Part	Material	Part	Material
Body & Valve Pipe Ends	ASTM A350 Gr. LF2 Carbon Steel	Stem Seals/ Thrust Bearings	Combination of Polyfill® and PEEK components (Delrin thrust bearings with "Y" seats)
Ball & Stem	ASTM A479 Gr. 316 Stainless Steel	Body Bolts & Nuts	Bolts – ASTM A193 Gr. B8; Zinc-Plated Nuts – ASTM A194 Gr. 8
Seats	Delrin® AF or Polyfill	Handle Assembly	Zinc-Plated AISI 300 Series Stainless Steel, Vinyl-Coated
Body Seals	TFE or TFE Coated 316 Stainless Steel "S" gasket	Nameplate	AISI 304 Stainless Steel
Stem Seal Follower	AISI 316L Stainless Steel	Stem Hardware	AISI 300 Stainless Steel

Design

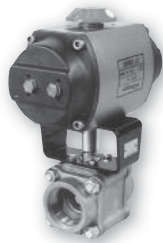
Valve Sizes ½", ¾", 1", 1½", 2"	Design Specifications
Valve Pressure Ratings 2000 psig CWP with Delrin AF "Y" seats 1480 psig CWP with Polyfill "P" seats Valve Temperature Ratings -50°F to 180°F with Delrin AF "Y" seats -50°F to 180°F with Polyfill "P" seats	ANSI B1.20.1 – NPT pipe threads ANSI B16.11 – Screw and socket weld ends ANSI B16.25 – Butt weld ends NACE – MR 0175, Non-exposed bolting

Polyfill® is a registered trademark of Flowserve Corporation.

Delrin® is a registered trademark of E.I. du Pont de Nemurs and Company.

Automation

Flowserve Worcester Controls offers a complete line of Pneumatic and Electric Actuators.



Series 39 for Pneumatic Control

- Fail-safe operation
 - End-mounted limit switches
 - Proximity switches
 - Low temperature, -50°F (-45°C)
 - Digital positioner
- Refer to brochure WCABR1003



Series 75 for Electric Control

- Type 4x, 7 & 9 enclosures
 - Remote position indicator
 - Low temperature, -40°F (-40°C)
 - Digital-compatible
 - Positioner and controller
- Refer to brochure WCABR1014

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