# PLUG VALVES METAL SEATED ECCENTRIC

# SIZES: 4" - 108"

EASILY RETROFITS AWWA C517 PLUG VALVES WITH IDENTICAL FACE-TO-FACE ON SIZES 4" - 12"



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# SERIES 4800 METAL SEATED PLUG VALVE DESIGN FEATURES

# FULLY COMPLIES WITH MSS-SP 156 STANDARD CERTIFIED: ANSI/NSF-61 AND ANSI/NSF-372



## PATENT PENDING



# **OTHER PLUG VALVES**

Unlike traditional rubber seated plug valves, J&S Valve utilizes ultra-smooth, precision machined metal seats. BODY, BONNET, & DISC Ductile Iron ASTM A536-65-45-12

# **BODY SEAT RING**

Nitronic 60 Non-Galling Stainless Steel Retained with 316 Stainless Steel Bolts

### PLUG SEAT RING

Type 316 Stainless Steel Sharpened to a Hatchet-like Blade Cuts through Debris Retained with 316 Stainless Steel Bolts

# FIELD ADJUSTABLE & REPLACEABLE SEATS!

# EASILY RETROFITS AWWA C517 PLUG VALVES WITH IDENTICAL FACE-TO-FACE ON SIZES 4" - 12"

### TRIPLE OFFSET SEAT

The double eccentric design minimizes wear of the valves seats as the design does not allow the seats to make contact until final closure.

### FULL ROUND PORT

Creates Less Turbulence, Less Head-Loss, passes Larger Solids Round Ported Plug Valves Allow More Effective Pipeline Pigging than Rectangular Port Plug Valves

### VELOCITY

The valve can handle high velocities with low pressure drops through the valve.

## FLANGE PRESSURE CLASS

ASME B16.1 Class 125; Rated for 250psi Working Pressure ASME B16.1 Class 250;

Rated for 350psi Working Pressure

### COATING

Fusion Bonded Epoxy Coated, Inside & Outside, per AWWA C550



Design and Materials Subject to Change Without Notice. Call for Verification and Any Updated Drawings

SIZE	16"	18"	20"	24"	30"	36"	42"	48"	54"	60"	
MODEL	4816	4818	4820	4824	4830	4836	4842	4848	4854	4860	
L	21 1/2"	21 3/4"	24 7/8"	28 5/8"	35 1/2"	41 3/4"	46 1/8"	50 1/2"	6l <sup>3/4</sup> "	72 3/4"	
Ll	24"	25 1/2"	28 3/4"	35 3/4"	45 1/4"	52 <sup>3/4</sup> "	59 <sup>3/4</sup> "	66 <sup>1/4</sup> "	80 1/4"	92 7/8"	
Н	33 5/8"	36"	<b>39</b> <sup>3/4</sup> "	46 3/4"	56 1/2"	66"	75 5/8"	84 5/8"	98"	113 7/8'	
Dl	12 5/8"	14 1/4"	16 3/8"	18 7/8"	25 1/4"	31 7/8"	36 5/8"	39 7/8"	48 3/8"	56 1/4"	
Т	l <sup>1/2</sup> "	l <sup>1/2</sup> "	l <sup>3/4</sup> "	1 7/8"	2 1/8"	2 3/8"	2 5/8"	2 3/4"	3"	3 1/8"	

Larger Sizes Available. Design and Materials Subject to Change Without Notice. Call for Verification and Any Updated Drawings

# DIMENSIONS



16" - 30" PLUG VALVES

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METAL SEATED PLUG VALVE FL X FL - SERIES 4800\* SIZES 16" - 60"



# DIVENIOTONIO

DIMENSIONS											
SIZE	3"	L	L1	H1	H2	H3					
6"	4906	15 1/2"	10 1/2"	6"	7 1/2"	l <sup>13/16</sup> "					
8"	4908	16 1/2"	11 1/2"	7 3/8"	8 3/4"	1 15/16"					
10"	4910	18 1/4"	13"	<b>9</b> <sup>1/4</sup> "	11 <sup>1/4</sup> "	2 13/16"					
12"	4912	19"	14"	10 1/4"	12 3/4"	3"					

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**30" AND LARGER PLUG VALVES** 

10 1/4"

12 3/4"

3"

# METAL SEATED PLUG VALVE MJ X MJ - SERIES 4900 S\* SIZES 6" - 12"

4812S

12"

#### DIMENSIONS 3" L H1 SIZE H2 H3 5" 6 1/4" 2" 4" 4804S 9" 1 13/16" 6" 4806S 10 1/2" 6" 7 1/2" 4808S 11 1/2" 7 <sup>3/8</sup>" 8 <sup>3/4</sup>" 1 15/16" 8" 9<sup>5/16</sup>" 11 1/4" 2 13/16" 10" 4810S 13"

14"

METAL SEATED PLUG VALVE FL X FL - SERIES 4800 S\* SIZES 4" - 12"

4" - 12" EASILY RETROFITS AWWA C517 PLUG VALVES WITH IDENTICAL FACE-TO-FACE

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**INSTALLATION** DIMENSIONS

# METAL SEATED PLUG VALVE SPECIFICATIONS

# **1. SCOPE**

1.01 This specification covers the design, manufacture, and testing of 3-inch through 108-inch ductile iron Metal Seated Eccentric Plug Valves suitable for water, wastewater, storm water, and raw water service with pressures up to 350psi.

# 2. STANDARDS

- **2.01** Valves shall be designed, manufactured and tested where applicable in accordance with American Water Works Association Standard (AWWA) C517, and MSS SP 156 and shall be ANSI/NSF 61 and ANSI/NSF 372 Certified for use in drinking water.
- **2.02** Valves shall be hydrostatically pressure tested in accordance with American Water Works Association Standard AWWA C517.

# **3. CONNECTIONS**

- **3.01** Valves shall have flange end-connections in compliance with ANSI B16.1, Class 125, rated for 250psi or Class 250 rated for 350psi working pressure.
- **3.02** 4"-12" Class 125 Flange Plug Valve shall comply with ASME B16.10 Class 150 Face to Face

# 4. DESIGN

- **4.01** Valves shall be quarter-turn, non-lubricated, eccentric type with Nitronic 60 to 316 Stainless Steel seating.
- **4.02** Valve shall have a round port to reduce turbulence through the valve and allow effective pigging of the pipeline.
- **4.03** Valves, 30-inch and smaller, shall have one piece stem and plug with a 316 Stainless Steel Seat Ring sharpened to cut through debris.
- **4.04** Valves, 36-inch and larger, shall have 2-piece sub-shaft connected to the closure member with a 316 Stainless Steel Seat Ring sharpened to cut through debris.
- **4.05** Valve shall be capable of high velocity with low pressure drop.
- **4.06** Valve closure member shall have a mechanically retained and replaceable 316 Stainless Steel seat ring.
- **4.07** Valve shaft seals shall consist of 2 o-rings located on the stem in the upper and lower journal area.
- **4.08** Valve seat shall be field adjustable and replaceable without removing the valve from the line.
- **4.09** Valve radial shaft bearings shall be supplied in the upper and lower bearing journals
- **4.10** Valve thrust bearings shall be provided in the upper and lower journal areas.

# **5. MATERIALS**

- **5.01** Valve body and cover shall be constructed of ASTM A536 65-45-12 ductile iron.
- **5.02** Valve body seat shall be Nitronic 60 mechanically retained to the body.
- **5.03** Valve closure members shall be ductile iron ASTM A536 65-45-12 with a 316 Stainless Steel seat ring.
- 5.04 Valve mechanically retained seats shall have Nylock Stainless Steel retaining bolts.
- 5.05 Valve cover bolting shall be Series 300 Stainless Steel.

# **6. COATINGS**

- **6.01** Valve shall be coated inside and out with NSF-61 Certified Fusion Bonded Epoxy Coating or NSF-61 Certified 2-Part Thermal Setting Epoxy Paint.
- **6.03** Valve internal and external coatings shall be in accordance with AWWA C550.

# **7. ACTUATION**

7.01 Valves 3-inch and larger valves shall include a totally enclosed and sealed worm gear actuator.

- **7.02** Valve gear actuators shall be designed to withstand, without damage, a rim-pull of 200 lb. on the handwheel or an input torque of 300 ft-lbs.
- **7.03** Valves for buried service actuators shall be packed with grease and sealed.
- 7.04 Valve shall be adapted to allow Electric, Hydraulic, Pneumatic, or Electro-Hydraulic Actuators.

# 8. OPTIONS

- 8.01 Extension Stems
- 8.02 Indicator Posts.
- 8.03 Valve Boxes
- 8.04 Indicator Posts
- 8.05 Electric Motor Operators
- 8.06 Limit Switches

# **9. MANUFACTURER**

**9.01** Manufacturer shall demonstrate a minimum of 5-years of experience in the manufacture of like valves..

9.02 Metal Seated Eccentric Plug Valve, Series 4800, manufactured by J&S Valve, Inc. Huffman, TX, USA or preapproved equal. (03302022 jb sb rl)



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