4” Steam Jacketed OS&Y Hydrolet Valve – Outside Screw & Yolk Style

The Betts 4” Steam Jacketed Outside Screw and Yolk (OS&Y) Hydrolet is a manually operated loading/unloading stop-valve typically used in conjunction with a primary self-closing stop-valve on DOT407 and 412 cargo tanks.

The Steam Jacketed OS&Y Hydrolet offers the same features as the standard OS&Y Hydrolet but with the added advantage of providing a method to circulate heated fluid around the valve for applications where a temperature-sensitive product may solidify in the valve if it cools. The jacket material is 304 stainless steel and the two steam fittings are ¾” NPT female couplings. The large 4” design provides increased flow compared to the smaller 3” valve

The main valve body is constructed from durable 316 stainless steel, making it ideal for use on transport tanks hauling a variety of products. The valve is available in 90-degree, 45-degree and straight outlet configurations, with either flanged or threaded outlet options.

The Betts Hydrolet is the industry standard with a reputation for performance and reliability, offering unmatched quality and backed by exceptional customer service.

Maximum allowable working pressure (MAWP): **35 psi [2.4 bar]. ***
Steam Jacket MAWP: **150 psi [10.3 bar].**

Assembly Part Number **	Description	Inlet Flange	Outlet Configuration	Outlet Angle	Disc Seal Material **	Weight
JY7043SST	4" Steam Jacket 90° OS&Y Flanged Outlet	4" TTMA (8 Holes on 5.88" B.C.) [149.2 mm]	Flanged (4" TTMA)	90° Elbow	PTFE	27.5 lbs. [12.5 kg]
JY714SST	4" Steam Jacket 90° OS&Y Threaded Outlet	4" TTMA (8 Holes on 5.88" B.C.) [149.2 mm]	Threaded (4" NPT)	90° Elbow	PTFE	27.5 lbs. [12.5 kg]
JY764SST	4" Steam Jacket 45° OS&Y Flanged Outlet	4" TTMA (8 Holes on 5.88" B.C.) [149.2 mm]	Flanged (4" TTMA)	45° Elbow	PTFE	26.0 lbs. [11.8 kg]
JY774SST	4" Steam Jacket 45° OS&Y Threaded Outlet	4" TTMA (8 Holes on 5.88" B.C.) [149.2 mm]	Threaded (4" NPT)	45° Elbow	PTFE	26.0 lbs. [11.8 kg]
JY724SST	4" Steam Jacket Straight OS&Y Flanged Outlet	4" TTMA (8 Holes on 5.88" B.C.) [149.2 mm]	Flanged (4" TTMA)	Straight	PTFE	24.2 lbs. [11.0 kg]
JY734SST	4" Steam Jacket Straight OS&Y Threaded Outlet	4" TTMA (8 Holes on 5.88" B.C.) [149.2 mm]	Threaded (4" NPT)	Straight	PTFE	24.2 lbs. [11.0 kg]

* Values shown are test values and actual values may vary due to service conditions.

** Last letter of part number designates seal material.

** Disc Seal Material	Seal Temperature Rating *
A = Non- Asbestos	-20°F to +500°F [-29°C to 260°C]
T = PTFE	-20°F to +400°F [-29°C to 204°C]
V = FKM (Type A)	0°F to +400°F [-18°C to 204°C]
B = Nitrile (Bunna-N)	-40°F to +230°F [-40°C to 110°C]

Engineering Bulletins

EB-03-18:Procedure for Pneumatic Leak Test of Hydrolet Valve (Pre-Load Qualification)

EB-09-99: Q.R.B. Hydrolet Clamp Ring Installation and Torque Rating.

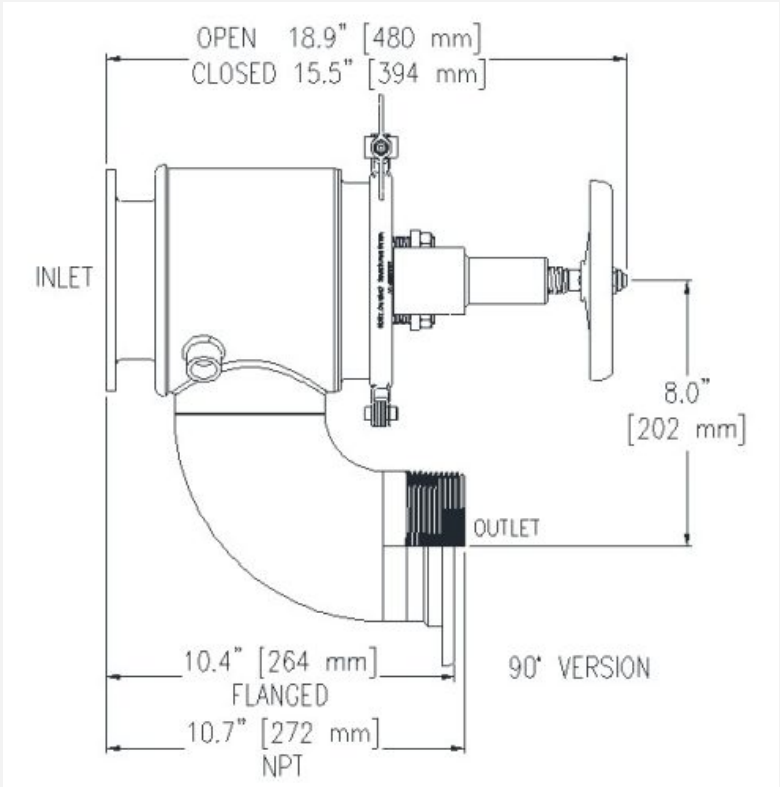
EB-05-25: New Tophead O-ring Seal on 3" & 4" Hydrolet Valves

Installation and Maintenance Manual

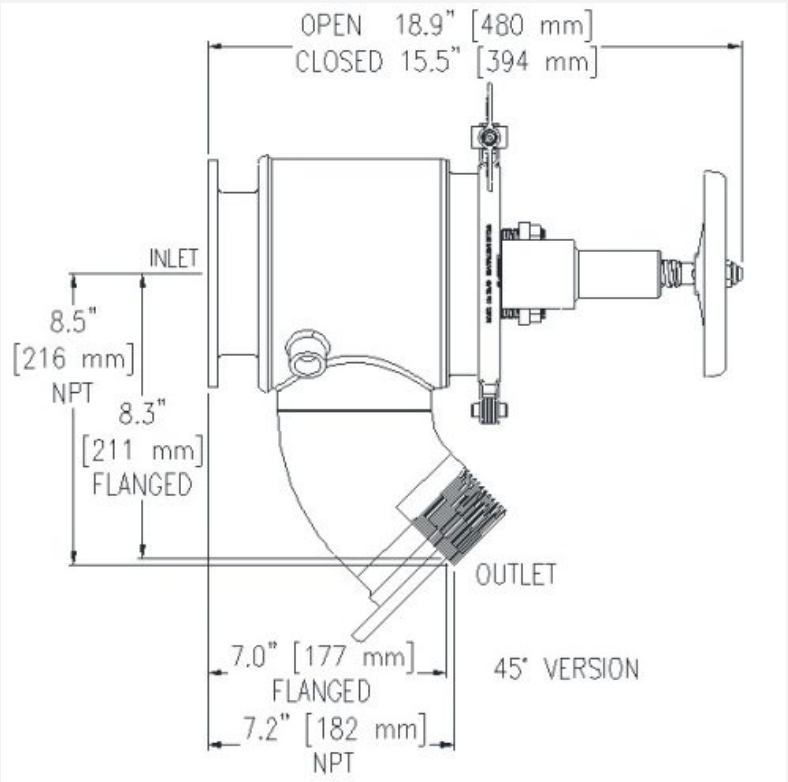
MM-HY005: Quick Release Bonnet Hydrolet Maintenance Manual

Instructional Videos

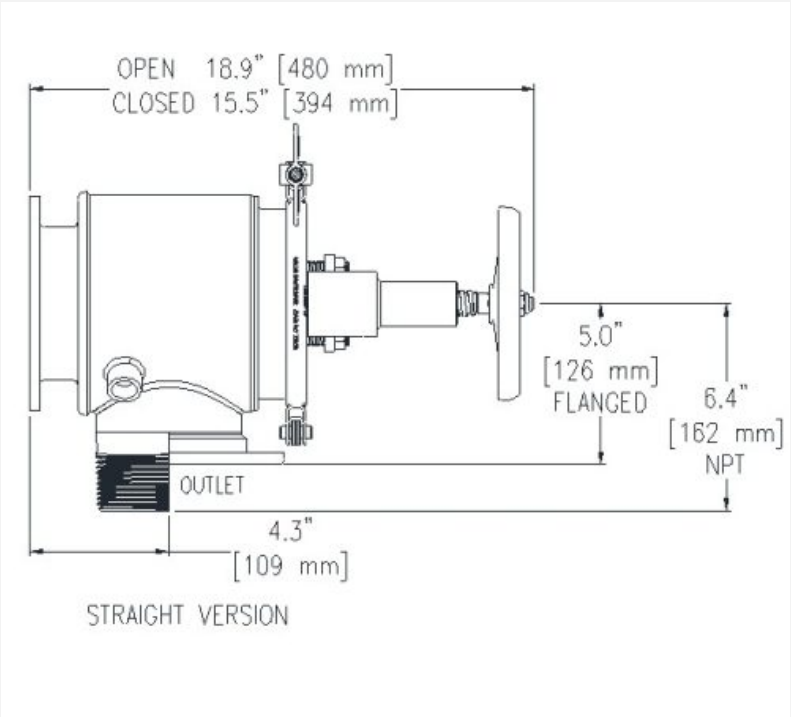
No video available at this time.



JY704 & JY714 Dims.



JY764 & JY774 Dims.



JY724 & JY734 Dims.

76315TF (OS&Y Teflon Accordion Packing)

⚠ **WARNING**: This product can expose you to chemicals including Chromium (hexavalent compounds) which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov. For additional information on Betts products and Proposition 65 list please see: http://www.bettsind.com/prop-65/