

# TECHNICAL BULLETIN

SEPTEMBER 2020 Supersedes version from July 2019

## SUBJECT: LEGENDPRESS® VALVES AND FITTINGS PRESS O-RING IDENTIFICATION AND INFORMATION.

This memo addresses specific differences between the O-rings used in the various LegendPress product families, as well as any other comparative assembly or identification information.

All LegendPress valves and fittings include O-rings that perform the function of sealing the valve or fitting onto the copper tubing after proper pressing installation. LegendPress O-rings are **not** interchangeable among the various product families. Replacements should only be used as noted below where available. See below in each product group section for more specific information about the O-ring and/or LegendPress assembly information.

### LegendPress Common Features:

- Press-to-Connect end connections are designed for installation onto ASTM B88 types K, L, and M hard-drawn copper tubing. See insertion depth chart below.
- All LegendPress products 1/2" - 2" have a VUS jaw profile and are compatible with any tool that uses VUS jaws.
- All LegendPress products 2-1/2" - 4" have a XL-C jaw profile and are compatible with any tool that uses XL-C jaws.
- Always maintain the minimum distance between press joints. (See Copper Press Fittings IOM)
- Replacement O-rings may be available. (Sold individually)

(P-200) Deeper tubing sockets and dual O-rings at each press connection, provide extra stability during the pressing process as well as enhanced sealing for the 1/2" through 2" valves.

### P-200 LEGENDPRESS® VALVES

Size	Replacement O-rings	Insertion Depth	Jaw Profile	Leak Before Press Pressure	
				(Air)	(Water)
1/2"	900-503	1-3/8"	VUS	N/A	N/A
3/4"	900-504	1-9/16"	VUS	N/A	N/A
1"	900-505	1-9/16"	VUS	N/A	N/A
1-1/4"	900-506	1-9/16"	VUS	N/A	N/A
1-1/2"	900-507	1-3/4"	VUS	N/A	N/A
2"	900-508	2-3/16"	VUS	N/A	N/A
2-1/2"	900-325	2-3/16"	XL-C	N/A	N/A
3"	900-326	2-1/4"	XL-C	N/A	N/A
4"	900-327	2-3/8"	XL-C	N/A	N/A



### P-202 LEGENDPRESS® DRAINABLE VALVES

Size	Replacement O-rings	Insertion Depth	Jaw Profile	Leak Before Press Pressure	
				(Air)	(Water)
1/2"	N/A	1-1/8"	VUS	1-15 psi	10-50 psi
3/4"	N/A	1-3/16"	VUS	1-15 psi	10-50 psi
1"	N/A	1-3/16"	VUS	1-15 psi	10-50 psi



## P-2006NL & P-1960NL TRANSITION BALL VALVES

Size	Replacement O-rings	Insertion Depth	Jaw Profile	Leak Before Press Pressure	
				(Air)	(Water)
1/2"	N/A	1-1/8"	VUS	1-15 psi	10-50 psi
3/4"	N/A	1-3/16"	VUS	1-15 psi	10-50 psi
1"	N/A	1-3/16"	VUS	1-15 psi	10-50 psi
1-1/4"	N/A	1-3/16"	VUS	1-15 psi	10-50 psi
1-1/2"	N/A	1-3/8"	VUS	1-15 psi	10-50 psi
2"	N/A	1-9/16"	VUS	1-15 psi	10-50 psi



## P-2011 ISOLATION BALL VALVES, FLANGE

Size	Replacement O-rings	Insertion Depth	Jaw Profile	Leak Before Press Pressure	
				(Air)	(Water)
3/4"	N/A	1-3/16"	VUS	1-15 psi	10-50 psi
1"	N/A	1-3/16"	VUS	1-15 psi	10-50 psi
1-1/4"	N/A	1-3/16"	VUS	1-15 psi	10-50 psi



## P-16NL Y-STRAINERS

Size	Replacement O-rings	Insertion Depth	Jaw Profile	Leak Before Press Pressure	
				(Air)	(Water)
1/2"	N/A	11/16"	VUS	1-15 psi	10-50 psi
3/4"	N/A	7/8"	VUS	1-15 psi	10-50 psi
1"	N/A	7/8"	VUS	1-15 psi	10-50 psi
1-1/4"	N/A	1"	VUS	1-15 psi	10-50 psi
1-1/2"	N/A	1-7/16"	VUS	1-15 psi	10-50 psi
2"	N/A	1-3/4"	VUS	1-15 psi	10-50 psi



## P-459 BACKFLOW PREVENTER

Size	Replacement O-rings	Insertion Depth	Jaw Profile	Leak Before Press Pressure	
				(Air)	(Water)
3/4"	N/A	1-9/16"	VUS	N/A	N/A



## P-451NL SWING CHECK VALVE

Size	Replacement O-rings	Insertion Depth	Jaw Profile	Leak Before Press Pressure	
				(Air)	(Water)
1/2"	N/A	11/16"	VUS	1-15 psi	10-50 psi
3/4"	N/A	15/16"	VUS	1-15 psi	10-50 psi
1"	N/A	15/16"	VUS	1-15 psi	10-50 psi
1-1/4"	N/A	1"	VUS	1-15 psi	10-50 psi
1-1/2"	N/A	1-3/8"	VUS	1-15 psi	10-50 psi
2"	N/A	1-3/4"	VUS	1-15 psi	10-50 psi



## P-571NL DIELECTRIC UNIONS

Size	Replacement O-rings	Insertion Depth	Jaw Profile	Leak Before Press Pressure	
				(Air)	(Water)
1/2"	N/A	1-1/8"	VUS	1-15 psi	10-50 psi
3/4"	N/A	1-3/16"	VUS	1-15 psi	10-50 psi
1"	N/A	1-3/16"	VUS	1-15 psi	10-50 psi
1-1/4"	N/A	1-3/16"	VUS	1-15 psi	10-50 psi
1-1/2"	N/A	1-3/8"	VUS	1-15 psi	10-50 psi
2"	N/A	1-9/16"	VUS	1-15 psi	10-50 psi



## P-595NL / P-596NL CHROME STOPS

Size	Replacement O-rings	Insertion Depth	Jaw Profile	Leak Before Press Pressure	
				(Air)	(Water)
1/2"	N/A	1-1/8"	VUS	1-15 psi	10-50 psi



## P-450NL INLINE CHECK VALVE

Size	Replacement O-rings	Insertion Depth	Jaw Profile	Leak Before Press Pressure	
				(Air)	(Water)
1/2"	N/A	3/4"	VUS	1-15 psi	10-50 psi
3/4"	N/A	7/8"	VUS	1-15 psi	10-50 psi
1"	N/A	7/8"	VUS	1-15 psi	10-50 psi
1-1/4"	N/A	1-1/16"	VUS	1-15 psi	10-50 psi
1-1/2"	N/A	1-7/16"	VUS	1-15 psi	10-50 psi
2"	N/A	1-3/4"	VUS	1-15 psi	10-50 psi



LegendPress Fittings:

- WROT Fittings in nominal sizes 1/2" - 4" feature a molded recess (Leak-Before-Press) in the O-rings, which when unpressed, create leak paths at multiple points during the pressure test, to quickly identify an unpressed joint.

## WROT COPPER FITTINGS

Size	Replacement O-rings	Insertion Depth	Jaw Profile	Leak Before Press Pressure	
				(Air)	(Water)
1/2"	N/A	3/4"	VUS	1-15 psi	10-50 psi
3/4"	N/A	15/16"	VUS	1-15 psi	10-50 psi
1"	N/A	15/16"	VUS	1-15 psi	10-50 psi
1-1/4"	N/A	1"	VUS	1-15 psi	10-50 psi
1-1/2"	N/A	1-7/16"	VUS	1-15 psi	10-50 psi
2"	N/A	1-5/8"	VUS	1-15 psi	10-50 psi
2-1/2"	N/A	1-3/4"	XL-C	1-15 psi	10-50 psi
3"	N/A	2"	XL-C	1-15 psi	10-50 psi
4"	N/A	2-1/4"	XL-C	1-15 psi	10-50 psi



WROT Copper Fittings

## PRESS x FLANGE ADAPTER

Size	Replacement O-rings	Insertion Depth	Jaw Profile	Leak Before Press Pressure	
				(Air)	(Water)
1/2"	N/A	1-1/8"	VUS	1-15 psi	10-50 psi
3/4"	N/A	1-3/16"	VUS	1-15 psi	10-50 psi
1"	N/A	1-3/16"	VUS	1-15 psi	10-50 psi
1-1/4"	N/A	1-3/16"	VUS	1-15 psi	10-50 psi
1-1/2"	N/A	1-3/8"	VUS	1-15 psi	10-50 psi
2"	N/A	1-9/16"	VUS	1-15 psi	10-50 psi
2-1/2"	N/A	1-9/16"	XL-C	1-15 psi	10-50 psi
3"	N/A	1-3/4"	XL-C	1-15 psi	10-50 psi
4"	N/A	2-1/8"	XL-C	1-15 psi	10-50 psi



## PRESS x FNPT & PRESS x MNPT ADAPTERS

Size	Replacement O-rings	Insertion Depth	Jaw Profile	Leak Before Press Pressure	
				(Air)	(Water)
1/2"	N/A	1-1/8"	VUS	1-15 psi	10-50 psi
3/4"	N/A	1-3/16"	VUS	1-15 psi	10-50 psi
1"	N/A	1-3/16"	VUS	1-15 psi	10-50 psi
1-1/4"	N/A	1-3/16"	VUS	1-15 psi	10-50 psi
1-1/2"	N/A	1-3/8"	VUS	1-15 psi	10-50 psi
2"	N/A	1-9/16"	VUS	1-15 psi	10-50 psi
2-1/2"	N/A	1-9/16"	XL-C	1-15 psi	10-50 psi
3"	N/A	1-3/4"	XL-C	1-15 psi	10-50 psi
4"	N/A	2-1/8"	XL-C	1-15 psi	10-50 psi



## FORGED BRASS PRESS FITTINGS & UNIONS

Size	Replacement O-rings	Insertion Depth	Jaw Profile	Leak Before Press Pressure	
				(Air)	(Water)
1/2"	450-843P	7/8"	VUS	1-15 psi	10-50 psi
3/4"	450-844P	1"	VUS	1-15 psi	10-50 psi
1"	450-845P	1"	VUS	1-15 psi	10-50 psi
1-1/4"	450-846P	1-1/16"	VUS	1-15 psi	10-50 psi
1-1/2"	450-847P	1-3/8"	VUS	1-15 psi	10-50 psi
2"	450-848P	1-9/16"	VUS	1-15 psi	10-50 psi



Brass Press Fittings

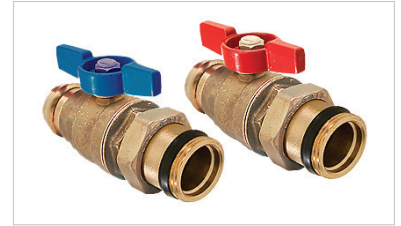
## TANKLESS WATER HEATER VALVES

Size	Replacement O-rings	Insertion Depth	Jaw Profile	Leak Before Press Pressure	
				(Air)	(Water)
3/4"	N/A	11/16"	VUS	N/A	N/A
1"	N/A	7/8"	VUS	N/A	N/A



## LEGENDPRESS® ISOLATION VALVES

Size	Replacement O-rings	Insertion Depth	Jaw Profile	Leak Before Press Pressure	
				(Air)	(Water)
1"	N/A	1-9/16"	VUS	N/A	N/A
1-1/4"	N/A	1-5/8"	VUS	N/A	N/A
1-1/2"	N/A	1-5/8"	VUS	N/A	N/A



## HS-808 / T-88 / LMV-3 LEGENDCONNECT®

Size	Replacement O-rings	Insertion Depth	Jaw Profile	Leak Before Press Pressure	
				(Air)	(Water)
3/4"	N/A	1-9/16"	VUS	N/A	N/A
1"	N/A	1-5/8"	VUS	N/A	N/A
1-1/4"	N/A	1-5/8"	VUS	N/A	N/A
1-1/2"	N/A	2-1/16"	VUS	N/A	N/A



## T-45 & T-46 MIXING VALVES

Size	Replacement O-rings	Insertion Depth	Jaw Profile	Leak Before Press Pressure	
				(Air)	(Water)
1/2"	N/A	15/16"	VUS	1-15 psi	10-50 psi
3/4"	N/A	15/16"	VUS	1-15 psi	10-50 psi

