



UNIVERSAL SALES

TUF-SKIN VALVES

sales@universalsales.biz

92311 Booth Street ~ Junction City, OR 97448 ~ PH 541-998-9999 ~ FX 541-998-9998

Old Style VSE-0 Assembly Guide

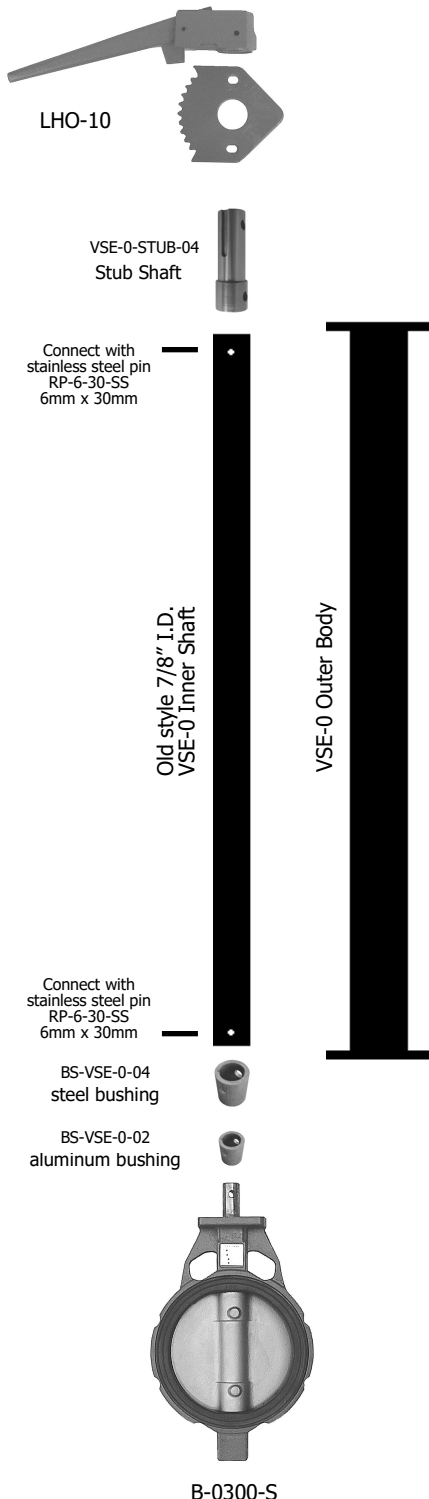
The inner shaft on the VSE-0 was changed in 2019. The old inner shaft has a 7/8" inside diameter while the new inner shaft has a 3/4" inside diameter. These instructions are for the old style VSE-0 with a 7/8" ID inner shaft.

Table of Contents:	
<u>Valve</u>	<u>Page</u>
B-0200-L, B-0250-L, B-0300-L	2
B-0200-W, B-0250-W, B-0300-W B-0200-TNO-HW, B-0250-TNO-HW, B-0300-TNO-HW	3
B-0400-L, B-0500-L	4
B-0400-W, B-0500-W B-0400-TNO-HW, B-0500-TNO-HW	5

TUF-SKIN VALVES



Installation instructions for old style VSE-0 on B-0300-L (same for B-0200-L and B-0250-L)



VSE Parts list:

- 1 = VSE-0 outer body
- 1 = VSE-0 inner shaft
- 1 = VSE-0-STUB-04 stub shaft
- 2 = 6mm x 30mm stainless roll pin
- 1 = BS-VSE-0-04 steel bushing
- 1 = BS-VSE-0-02 aluminum bushing
- 1 = LHO-10 lever operator
- 4 = 5/16" x 1 1/2" bolts
- 4 = 5/16" flat washers
- 4 = 5/16" lock washers
- 4 = 5/16" nuts

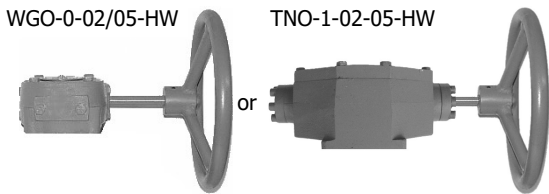
Note: The inner shaft on the VSE-0 was changed in 2019. The old inner shaft has a 7/8" inside diameter while the new inner shaft has a 3/4" inside diameter. These instructions are for the old style VSE-0 that uses the VSE-0-STUB-04 stub shaft and a BS-VSE-0-04 bushing.

- 1) Relieve pressure and flow in the pipeline. Before working on a valve installed on a pipeline, make sure there is no pressure or flow, or serious injury may result.
- 2) Remove the LHO-05 lever operator from the valve and discard (it won't fit on the VSE). Keep the roll pin, bolts, nuts, and washers for step #6.
- 3) Install the VSE-0-STUB-04 into the inner shaft, with the key end out, using a 6mm roll pin.
- 4) Install the inner shaft onto the valve shaft by using the supplied BS-VSE-0-04 and BS-VSE-0-02 bushings, and a 6mm roll pin.
- 5) Slide the outer body over the inner shaft and attach it to the valve mounting flange using the supplied bolts, washers, and nuts.
- 6) Install the new LHO-10 lever operator onto the extension using the original roll pin, bolts, nuts, and washers from step #2.
- 7) Check the operation of the valve by opening and closing it a few times. Make adjustments to the lever notch plate if needed.

Pictures for illustration only. Actual product may vary.



Installation instructions for old style VSE-0 on B-0300-W or B-0300-TNO-HW (same for B-0200-W and B-0250-W) (same for B-0200-TNO-HW and B-0250-TNO-HW)



VSE-0-STUB-04
Stub Shaft

Connect with
stainless steel pin
RP-6-30-SS
6mm x 30mm

Old style 7/8" I.D.
VSE-0 Inner Shaft

VSE-0 Outer Body

Connect with
stainless steel pin
RP-6-30-SS
6mm x 30mm

BS-VSE-0-04
steel bushing

BS-VSE-0-02
aluminum bushing



B-0300-S

VSE Parts list:

- 1 = VSE-0 outer body
- 1 = VSE-0 inner shaft
- 1 = VSE-0-STUB-04 stub shaft
- 2 = 6mm x 30mm stainless roll pin
- 1 = BS-VSE-0-04 steel bushing
- 1 = BS-VSE-0-02 aluminum bushing
- 1 = 1/4" key
- 4 = 5/16" x 1 1/2" bolts
- 4 = 5/16" flat washers
- 4 = 5/16" lock washers
- 4 = 5/16" nuts

Note: The inner shaft on the VSE-0 was changed in 2019. The old inner shaft has a 7/8" inside diameter while the new inner shaft has a 3/4" inside diameter. These instructions are for the old style VSE-0 that uses the VSE-0-STUB-04 stub shaft and a BS-VSE-0-04 bushing.

- 1) Relieve pressure and flow in the pipeline. Before working on a valve installed on a pipeline, make sure there is no pressure or flow, or serious injury may result.
- 2) Remove the gear box from the valve. Keep the bolts and the washers for step #6. Discard the step down key and the slotted bushing.
- 3) Install the VSE-0-STUB-04, with the key end out, into the inner shaft using a 6mm roll pin.
- 4) Install the inner shaft onto the valve shaft by using the supplied BS-VSE-0-04 and BS-VSE-0-02 bushings, and a 6mm roll pin.
- 5) Slide the outer body over the inner shaft and attach it to the valve mounting flange using the supplied bolts, washers, and nuts.
- 6) Install the gear box onto the extension using the new key and the bolts and washers from step #2.
- 7) Check the operation of the valve by opening and closing it a few times. Make adjustments to the stops if needed.

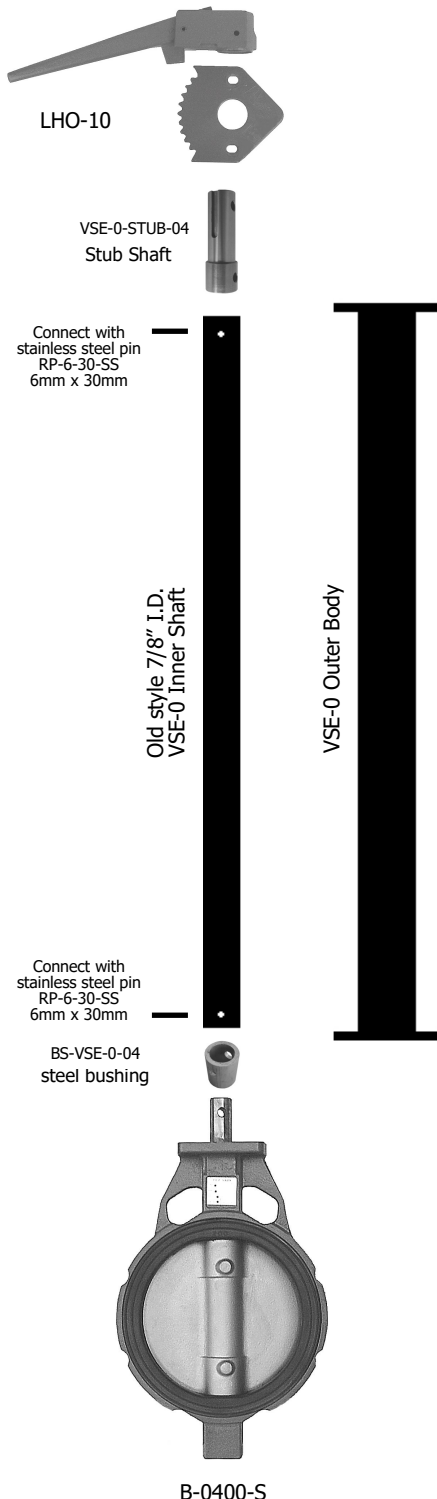
Pictures for illustration only. Actual product may vary.

Old style VSE-0 on:

B-0200-W, B-0250-W, B-0300-W
B-0200-TNO-HW, B-0250-TNO-HW, B-0300-TNO-HW



Installation instructions for old style VSE-0 on B-0400-L (same for B-0500-L)



VSE Parts list:

- 1 = VSE-0 outer body
- 1 = VSE-0 inner shaft
- 1 = VSE-0-STUB-04 stub shaft
- 2 = 6mm x 30mm stainless roll pin
- 1 = BS-VSE-0-04 steel bushing
- 4 = 5/16" x 1 1/2" bolts
- 4 = 5/16" flat washers
- 4 = 5/16" lock washers
- 4 = 5/16" nuts

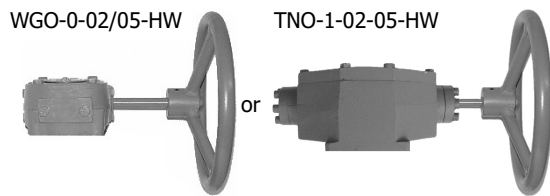
Note: The inner shaft on the VSE-0 was changed in 2019. The old inner shaft has a 7/8" inside diameter while the new inner shaft has a 3/4" inside diameter. These instructions are for the old style VSE-0 that uses the VSE-0-STUB-04 stub shaft and a BS-VSE-0-04 bushing.

- 1) Relieve pressure and flow in the pipeline. Before working on a valve installed on a pipeline, make sure there is no pressure or flow, or serious injury may result.
- 2) Remove the lever operator from the valve. Keep the roll pin, bolts, nuts, and washers for step #6.
- 3) Install the VSE-0-STUB-04 into the inner shaft, with the keyed end out, using a 6mm roll pin.
- 4) Install the inner shaft onto the valve shaft by using the supplied BS-VSE-0-04 bushing and the 6mm roll pin.
- 5) Slide the outer body over the inner shaft and attach it to the valve mounting flange using the supplied bolts, washers, and nuts.
- 6) Install the lever operator onto the extension using the original roll pin, bolts, nuts, and washers from step #2.
- 7) Check the operation of the valve by opening and closing it a few times. Make adjustments to the lever notch plate if needed.

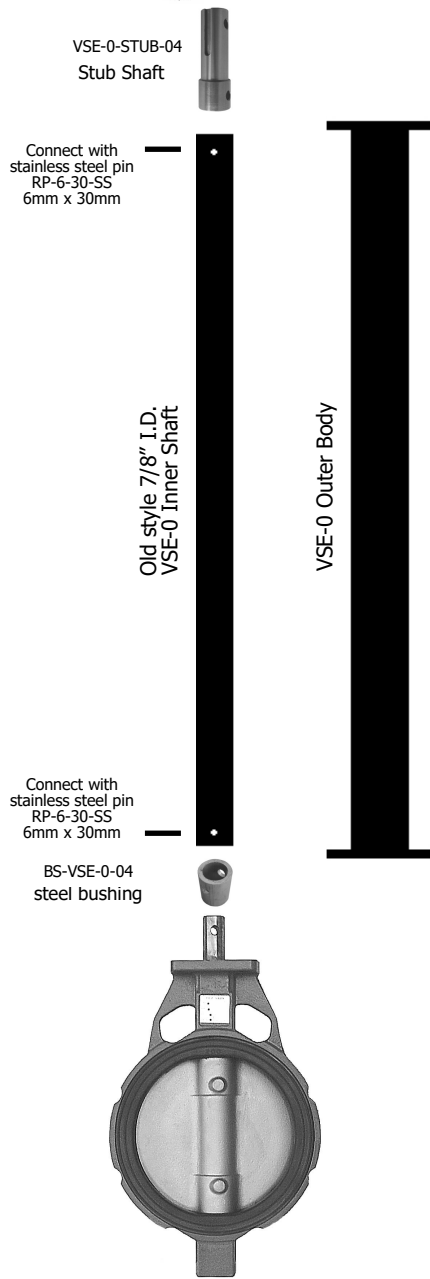
Pictures for illustration only. Actual product may vary.



Installation instructions for old style VSE-0 on B-0400-W or B-0400-TNO-HW (same for B-0500-W and B-0500-TNO-HW)



- VSE Parts list:**
- 1 = VSE-0 outer body
 - 1 = VSE-0 inner shaft
 - 1 = VSE-0-STUB-04 stub shaft
 - 2 = 6mm x 30mm stainless roll pin
 - 1 = BS-VSE-0-04 steel bushing
 - 4 = 5/16" x 1 1/2" bolts
 - 4 = 5/16" flat washers
 - 4 = 5/16" lock washers
 - 4 = 5/16" nuts



Note: The inner shaft on the VSE-0 was changed in 2019. The old inner shaft has a 7/8" inside diameter while the new inner shaft has a 3/4" inside diameter. These instructions are for the old style VSE-0 that uses the VSE-0-STUB-04 stub shaft and a BS-VSE-0-04 bushing.

- 1) Relieve pressure and flow in the pipeline. Before working on a valve installed on a pipeline, make sure there is no pressure or flow, or serious injury may result.
- 2) Remove the gear box from the valve. Keep the key, bolts, and washers for step #6.
- 3) Install the VSE-0-STUB-04 into the inner shaft, with the keyed end out, using a 6mm roll pin.
- 4) Install the inner shaft onto the valve shaft by using the supplied BS-VSE-0-04 bushing and the 6mm roll pin.
- 5) Slide the outer body over the inner shaft and attach it to the valve mounting flange using the supplied bolts, washers, and nuts.
- 6) Install the gear box onto the extension using the key, bolts, and washers from step #2.
- 7) Check the operation of the valve by opening and closing it a few times. Make adjustments to the stops if needed.

Pictures for illustration only. Actual product may vary.