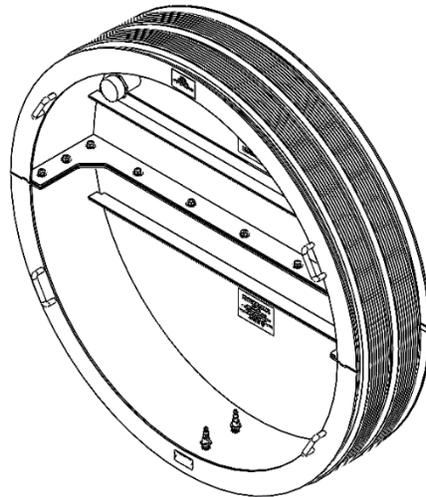




## INSTRUCTIONS CHERNE DISC SEAL



### Disc Seal Frame Assembly – Double Body

It may be necessary for transportation or manhole access to take apart and reassemble the frame and end elements.

**⚠ DANGER Death, bodily injury and/or property damage could result if plug fails for any reason. Unsafe practices can also result in death or severe injury.**

**⚠ Improper assembly can cause unsafe practices that can result in death or severe injury and may cause disc seal to leak.**

1. With a small brush apply the clear silicone grease to both sides of the frame sealing gaskets in the area between and below the fins and above the bolt holes.
2. Lay both sections of the frame on a flat surface to form a circle. The frame will fit together in the correct orientation only.
3. Align the silicone applied gaskets to the end of the frame sections so that the gaskets match up with the edge profile of the frame and the bolt holes are aligned.
4. Fasten the frame sections together by installing the 1/2" bolts and self-locking nuts. Tighten each center bolt and nut first before tightening the top and bottom bolts and nuts on each bracket. While tightening you may need to hold gaskets into position. Tighten bolts to 25 ft-lbs torque.



5. Wipe off any excess silicone grease from gaskets and frame.

## End Element Assembly

1. Align the end element so that the smooth side is facing the end element channel. From the outside of the frame, insert the brass end and element inflation fitting through the hole in the frame. On the inside of the frame, secure the brass end element inflation fitting using the star washer and hex nut supplied.
2. Carefully stretch the end element over the disc seal (by hand or with the aid of pry bars) and into the channel section of the frame. Corn starch, silicone or soapy water may be used if desired.

**⚠ Make sure the outer strip of the frame gasket doesn't become pinched under the end element. If it does, carefully pry the end element away from the joint tester frame and press the gasket back into its original position.**

**⚠ Remove handles from front of disc seal to prevent damage occurring to them during end element installation.**

**⚠ Damage to the frame may occur if pry bars are used. The edge of the disc seal frame must be filed smooth if it has nicks or sharp edges.**

3. Turn the disc seal over and repeat for the second end element.

## Operation

**⚠ Must have an air compressor or ample water supply located above ground with sufficient hose length capable of reaching installed disc seal.**

**⚠ Ensure all plugs that require blocking are adequately blocked to prevent plug from dislodging.**

1. Place disc seal in desired location inside of pipe and connect all required hoses.

**⚠ Make certain plug is in pipe so that it inflates evenly.**

**⚠ Always relieve the test pressure before deflating the end elements.**

2. Deflate the end element 3-way valve into the exhaust position if using Cherne Air-Loc Control Panel.
3. When the end element pressure gauge reads "0", disconnect the air hose and remove the disc seal from the pipe.



## Maintenance

Disc Seals must be clean and inspected before and after every use.

**⚠ Do not use a disc seal if it has or shows signs of wear or deterioration.**

The inspection should include but not be limited to looking for:

- Cuts
- Abrasions
- Punctures
- Bulges
- Cracks
- Corrosion
- Loose ore damaged fittings & components
- Pressure regulator settings
- Leaks

The disc seal may be cleaned with mild soap and water (other cleaning agents may cause damage to rubber end elements). Store disc seal in a dry place away from sunlight or other sources of ultra-violet light and ozone. Must be stored below 110°F.

## Disc Seal Replacement Gasket Table

Disc Seal Part Number	Disc Seal Description	Replacement Gasket Number	Gasket Size Description
<b>103918</b>	DISC SEAL, 39 IN	<b>7012417</b>	GASKET-INNER, 39 IN DISC SEAL
<b>104218</b>	DISC SEAL, 42 IN	<b>7012418</b>	GASKET-INNER, 42 IN DISC SEAL
<b>104518</b>	DISC SEAL, 45 IN	<b>7012419</b>	GASKET-INNER, 45 IN DISC SEAL
<b>104818</b>	DISC SEAL, 48 IN	<b>7012420</b>	GASKET-INNER, 48 IN DISC SEAL
<b>105418</b>	DISC SEAL, 54 IN	<b>7012421</b>	GASKET-INNER, 54 IN DISC SEAL
<b>106018</b>	DISC SEAL, 60 IN	<b>7012422</b>	GASKET-INNER, 60 IN DISC SEAL
<b>106618</b>	DISC SEAL, 66 IN	<b>7012423</b>	GASKET-INNER, 66 IN DISC SEAL
<b>107218</b>	DISC SEAL, 72 IN	<b>7012424</b>	GASKET-INNER, 72 IN DISC SEAL
<b>107818</b>	DISC SEAL, 78 IN	<b>7012425</b>	GASKET-INNER, 78 IN DISC SEAL
<b>108418</b>	DISC SEAL, 84 IN	<b>7013342</b>	GASKET-INNER, 84 IN DISC SEAL
<b>109018</b>	DISC SEAL, 90 IN	<b>7013343</b>	GASKET-INNER, 90 IN DISC SEAL
<b>109618</b>	DISC SEAL, 96 IN	<b>7013344</b>	GASKET, INNER, 96 IN DISC SEAL
<b>Replacement Outer Gasket:</b>		<b>7012416</b>	GASKET-OUTER, DISC SEAL