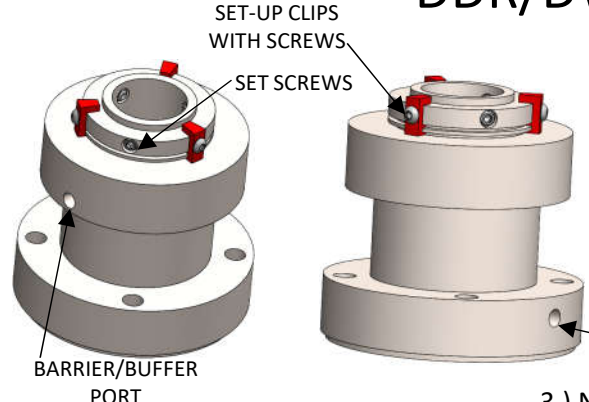


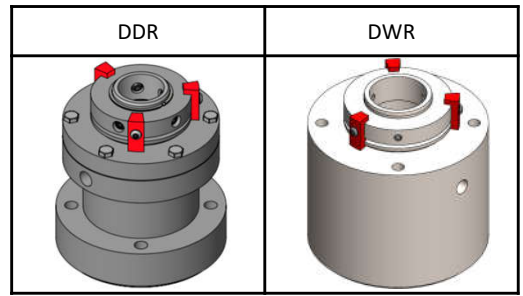
**DDR/DWR SEAL INSTALLATION**

DDR SEAL SHOWN AS RECEIVED

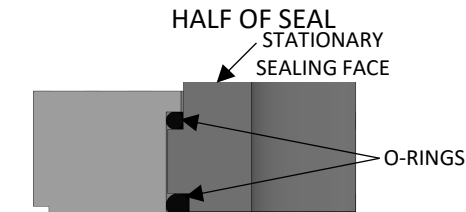


**CAUTION:**

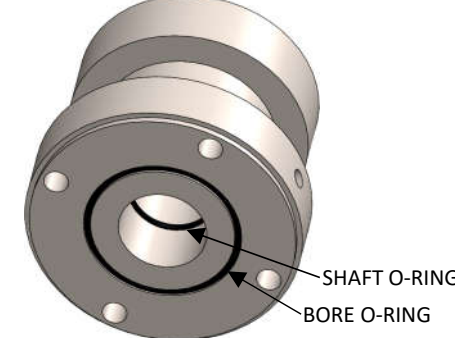
- CLEAN SEAL FACES WITH AN ISOPROPYL WIPE OR CLEAN LINT FREE CLOTH
- DO NOT TOUCH SEAL FACES WITH BARE HANDS OR DIRTY GLOVED HANDS
- STATIONARY SEALING FACE AND O-RINGS CAN FALL OUT OF THE SEAL GLAND. WHEN HANDLING, BE SURE THEY DON'T FALL OUT



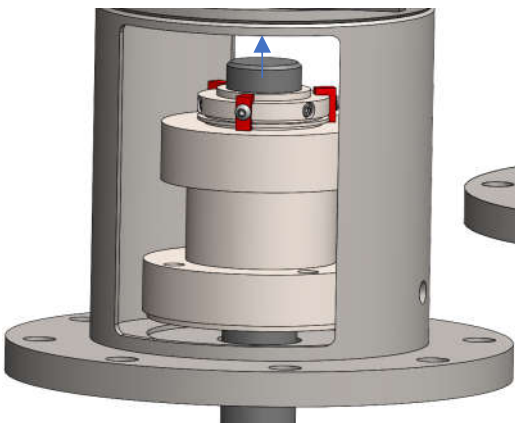
CROSS-SECTION OF STATIONARY HALF OF SEAL



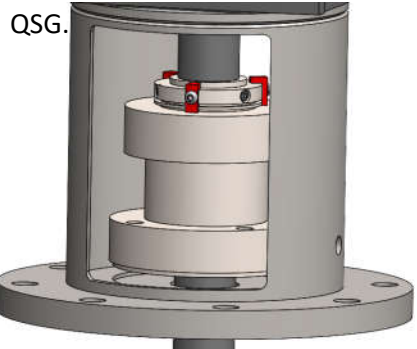
1.) APPLY PROCESS COMPATIBLE LUBRICANT TO THE SHAFT O-RING, BEING CAREFUL TO ONLY PUT LUBRICANT ON THE O-RINGS. BACK OFF THE SET SCREWS SO THEY ARE CLEAR OF THE BORE.



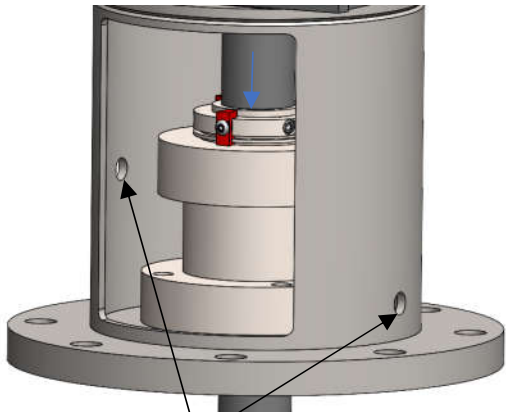
2.) INSERT THE SHAFT THROUGH THE PEDESTAL BORE AND THE SEAL BORE



3.) NOW THAT THE SEAL IS "FLOATED" ON THE SHAFT, ATTACH THE SHAFT TO THE MIXER DRIVE ACCORDING TO THE APPROPRIATE SHAFT INSTALLATION QSG.

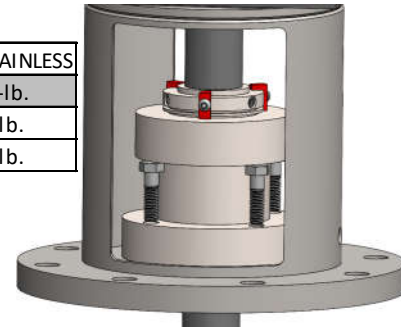


4.) SLIDE THE SEAL INTO THE PEDESTAL BORE, ALIGNING THE HOLES IN THE SEAL TO THE TAPPED HOLES IN THE PEDESTAL. ENSURE THAT THE BARRIER/BUFFER PORTS ON THE SEAL ALIGN WITH THE HOLES ON THE SIDE OF THE PEDESTAL.



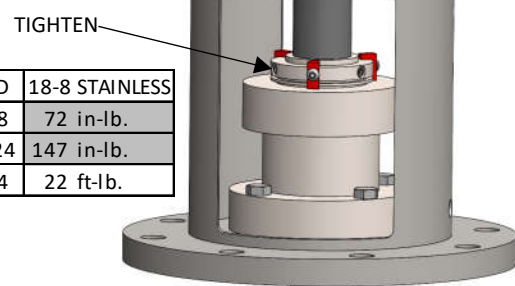
5.) INSERT AND TIGHTEN THE PROVIDED 4 BOLTS IN AN ALTERNATING PATTERN TO THE APPROPRIATE VALUE IN THE TABLE.

THREAD	18-8 STAINLESS
5/16"-18	103 in-lb.
3/8"-16	16 ft-lb.
1/2"-13	36 ft-lb.

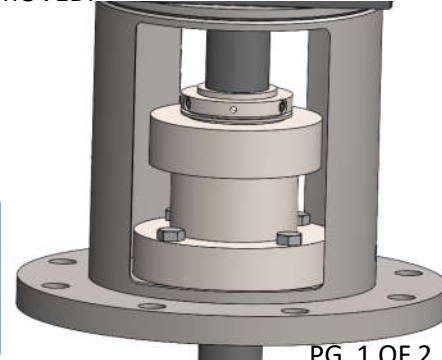


6.) THREAD IN THE SET SCREWS IN AN ALTERNATING PATTERN UNTIL THEY ARE BARELY TOUCHING THE SHAFT. DO NOT TIGHTEN ONE FULLY THEN THE OTHER. ONCE ALL SET SCREWS ARE SNUG, TORQUE TO THE APPROPRIATE VALUE IN THE TABLE.

THREAD	18-8 STAINLESS
1/4"-28	72 in-lb.
5/16"-24	147 in-lb.
3/8"-24	22 ft-lb.



7.) REMOVE THE SET-UP CLIPS AND RETAIN FOR FUTURE USE. THEY WILL BE NEEDED IN THE FUTURE WHEN THE SEAL IS REMOVED.



**CAUTION**  
DISCONNECT MIXER FROM POWER SOURCE BEFORE ASSEMBLING, LIFTING, MOVING, OR SERVICING MIXER.

**\*REMOVE SET-UP CLIPS BEFORE OPERATING MIXER\***

**CAUTION:**

- THE VISCOSITY AND SPECIFIC GRAVITY OF THE FLUID AFFECTS MIXER SIZING AND SPECIFICATIONS.

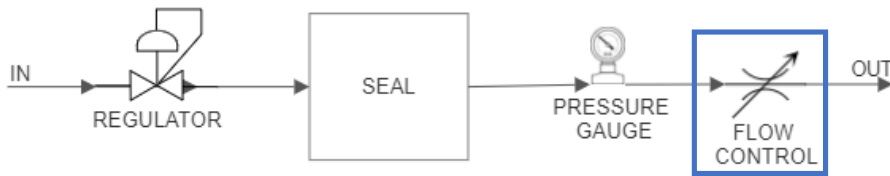
# DDR/DWR SEAL INSTRUCTIONS

**CAUTION:**

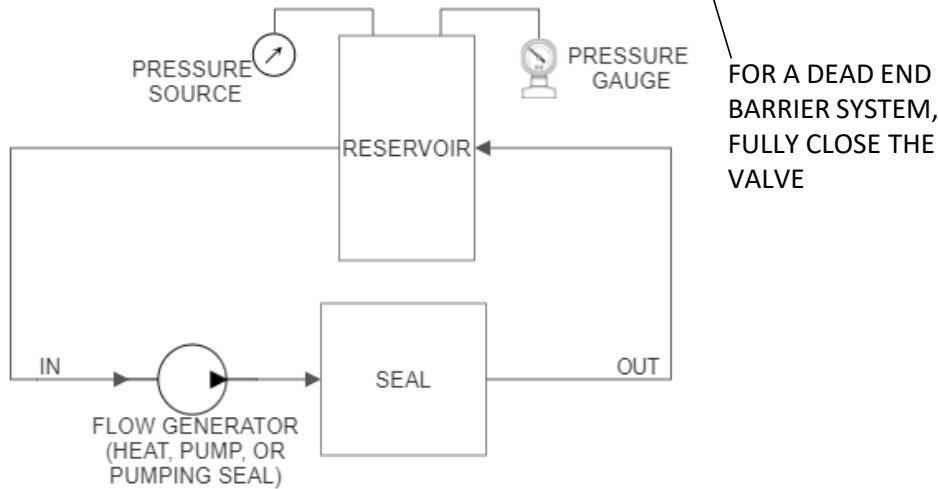
- LISTED IN THIS QSG ARE THE GENERAL MINIMUM REQUIREMENTS FOR A SEAL SUPPORT SYSTEM
- HANDLE SEAL WITH CARE, DO NOT SET SEAL DOWN ON THE SEAL'S NON-METALLIC SURFACES
- DO NOT RUN SEAL WITHOUT A FLUID SUPPORT SYSTEM
- REFER TO THE APPROVAL (OR AS MANUFACTURED) DRAWING FOR REQUIRED SPECIFICATIONS (TEMP., BARRIER PRESSURE, BARRIER/BUFFER FLUID, ETC.) TO RUN YOUR SEAL

**BARRIER FLUID** – A DOUBLE MECHANICAL SEAL FLUID SYSTEM WITH THE PRESSURE IN THE SEAL SYSTEM **GREATER THAN** THE TANK PRESSURE. THE DIFFERENTIAL BETWEEN THESE PRESSURES IS DEPENDENT ON THE APPLICATION. ANY SEAL LEAKAGE MAY ALLOW THE BARRIER FLUID TO LEAK INTO THE TANK.

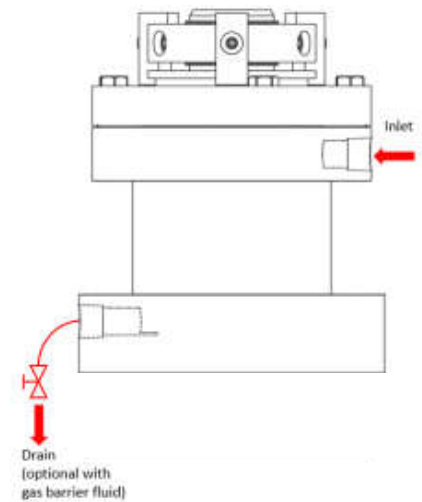
BARRIER (OPEN LOOP)



BARRIER (CLOSED LOOP)



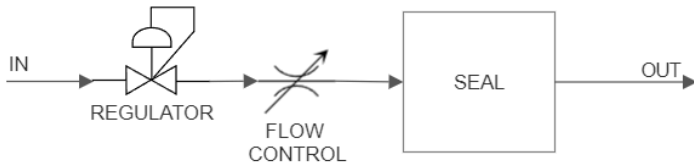
DDR SEAL SHOWN AS RECEIVED  
(SAME FOR DWR)



Maintain adequate barrier supply pressure and flow when the seal is operating and when it is not. Barrier pressure should be 1.5 bar (20 psig) above the process pressure.

**BUFFER FLUID** – A DOUBLE MECHANICAL SEAL FLUID SYSTEM WITH THE PRESSURE IN THE SEAL SYSTEM **LESS THAN** THE PRESSURE IN THE TANK. THE DIFFERENTIAL BETWEEN THESE PRESSURES IS DEPENDENT ON THE APPLICATION. ANY SEAL LEAKAGE MAY ALLOW THE PROCESS FLUID TO LEAK INTO THE SEAL BUFFER FLUID.

BUFFER



**CAUTION**

DISCONNECT MIXER FROM POWER SOURCE BEFORE ASSEMBLING, LIFTING, MOVING, OR SERVICING MIXER.