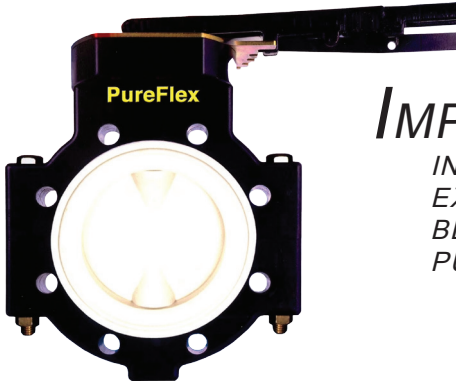




860 SERIES INSTALLATION GUIDE

PUREFLEX RESERVES THE RIGHT TO CHANGE PRODUCT AND PERFORMANCE SPECIFICATIONS WITHOUT NOTICE

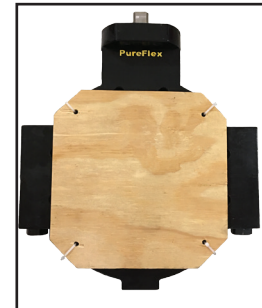


IMPORTANT WARRANTY INFORMATION

IN ORDER TO BE ELIGIBLE FOR PUREFLEX 5 YEAR VALVE BODY EXTEND WARRANTY, THE ENCLOSED WARRANTY CARD MUST BE FILLED OUT BY THE END USER AND MAILED BACK TO PUREFLEX WITHIN 30 DAYS AFTER INSTALLATION

1.0 INTRODUCTION

- 1.1 THIS GUIDE IS INTENDED FOR USE BY PERSONS HAVING TECHNICAL SKILL, AT THEIR OWN DISCRETION AND RISK.
- 1.2 QUESTIONS OR CONCERNS REGARDING THIS GUIDE SHOULD BE DIRECTED TO PUREFLEX AT 616.554-1100 OR YOUR AUTHORIZED STOCKING DISTRIBUTOR.



DO NOT REMOVE COVERS UNTIL JUST PRIOR TO INSTALLATION

2.0 INSPECTION

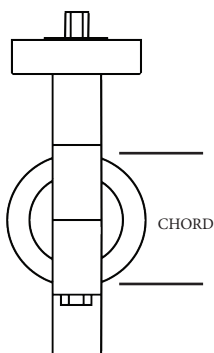
- 2.1 DO NOT REMOVE PROTECTIVE COVERS UNTIL JUST PRIOR TO VALVE INSTALLATION. IF COVERS ARE REMOVED FOR INSPECTION THEY SHOULD BE REPLACED IMMEDIATELY. THIS PRECAUTION IS TO PROTECT THE SEALING FACES FROM DAMAGE DURING STORAGE AND HANDLING OPERATIONS.
- 2.2 MATCH THE SERIAL NUMBER ON VALVE NAMEPLATE WITH THE SERIAL NUMBER ON THE ENCLOSED WARRANTY CARD. IF THE NUMBERS MATCH, PLEASE COMPLETE THE WARRANTY CARD AND MAIL BACK TO PUREFLEX. IF THE NUMBERS DO NOT MATCH, CONTACT PUREFLEX CUSTOMER SERVICE DEPARTMENT.

3.0 INSTALLATION

- 3.1 CHECK THE VALVE NAMEPLATE BEFORE INSTALLATION TO ENSURE THAT THE PRESSURE RATING AND MATERIALS OF CONSTRUCTION ARE COMPATIBLE WITH THE INTENDED SERVICE CONDITIONS.
- 3.2 INSPECT ADJOINING PIPELINES AND REMOVE ANY MATERIAL THAT COULD DAMAGE THE VALVE LINER DURING INSTALLATION.
- 3.3 THE 860 SERIES VALVE IS DESIGNED TO BE INSTALLED BETWEEN ANSI CLASS 150 FLANGES. CHECK CLEARANCE IN PIPING FLANGE TO PERMIT FULL DISC SWING OF THE VALVE. THE TABLE BELOW LISTS DISC SWING CLEARANCE REQUIREMENTS FOR PIPE FLANGES.



PUREFLEX SPACERS



| VALVE SIZE (in.) | DISC CHORD (in.) |
|------------------|------------------|
| 2 | 2.00 |
| 3 | 2.60 |
| 4 | 3.50 |
| 6 | 5.50 |
| 8 | 7.40 |
| 10 | 9.60 |
| 12 | 11.60 |

IF THE CONNECTING FLANGES HAVE DIAMETERS THAT DO NOT ALLOW FOR FULL SWING OF VALVE DISC, INSTALL SPACERS THAT EMPLOY LARGER INSIDE DIMENSIONS SUCH AS THOSE MANUFACTURED BY PUREFLEX. (SEE ABOVE PICTURE)

NOTE: WHEN CONNECTING VALVE TO FRP FLANGES, FULL FACE SPACERS MAY BE REQUIRED. CONSULT YOUR PIPING MFG. FOR MAXIMUM FRP FLANGE TORQUES.

- 3.4 **IMPORTANT - DO NOT CONNECT VALVE DIRECTLY TO FITTINGS SUCH AS ELBOWS, SHORT STACK TEES, ECT. WITHOUT THE USE OF SPACERS TO PERMIT FULL SWING OF VALVE DISC.**
- 3.5 **ENSURE THAT THE ADJOINING FLANGES ARE CLEAN AND FREE OF DEBRIS WICH COULD SCRACT THE VALVE SEAL FACES.**
- 3.6 **GASKETS ARE NOT REQUIRED IF VALVE IS INSTALLED IN PLASTIC LINED PIPE SUCH AS PTFE. IF MATING FLANGES ARE NOT LINED WITH PLASTIC, A GASKET IS RECOMMENDED SUCH AS TASK-LINE®, AS MANUFACTURED BY PUREFLEX.**

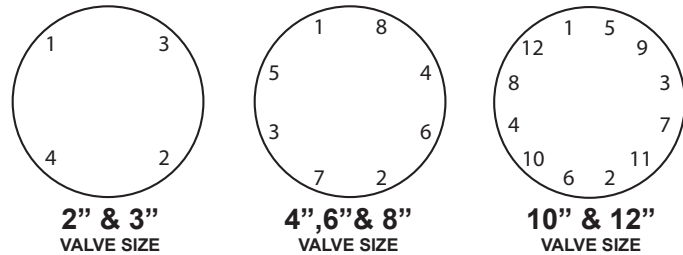
TASK-LINE® GASKETS ARE PTFE ENCAPSULATING A STAINLESS STEEL PERFORATED METAL CORE. THE GASKET CAN OPERATE IN EXTREME CONDITIONS AND ARE CHEMICAL RESISTANT TO VIRTUALLY ALL CHEMICALS FROM (-)60°F TO 400°F AND THEY WON'T COLD FLOW. FOR MORE INFORMATION ON TASK-LINE® GASKETS CONTACT PUREFLEX @ 616.554-1100



- 3.7 **KEEP THE VALVE LINER CLEAN DURING INSTALLATION. ANY DIRT OR DEBRIS CAN SCRATCH THE LINER OR DISC EDGE WHICH MAY IMPAIR BUBBLE TIGHT SHUT-OFF THIS VALVE IS DESIGNED FOR.**
- 3.8 **DO NOT ALLOW THE LINER TO CATCH ON THE MATING FLANGE AND FOLD OVER DURING INSTALLATION. THIS WILL CAUSE FLANGE LEAKAGE AND DAMAGE THE VALVE.**
- 3.9 **ENSURE PROPER ALIGNMENT OF VALVE WITH MATING FLANGES SO VALVE DISC IS CLEAR TO FULLY ROTATE WITHOUT CONTACTING MATING PIPE I.D.**
- 3.10 **FLANGE BOLTS SHOULD BE TORQUED TO THE BELOW LISTED VALUES AND TORQUING SEQUENCE.**

| Recommended Flange Torques | |
|----------------------------|-------------------|
| Valve Size (IN.) | TORQUE (FT./LBS.) |
| 2 | 25 |
| 3 | 25 |
| 4 | 35 |
| 6 | 40 |
| 8 | 50 |
| 10 | 60 |
| 12 | 60 |

TORQUE SEQUENCE FOR ANSI CLASS 150 FLANGES



- 3.11 **IF A FLANGE LEAK OCCURS AND THE BOLTS OF THE LEAKING SIDE HAVE BEEN PROPERLY TORQUED, THEY SHOULD NOT BE TIGHTENED FURTHER OR PERMANENT DAMAGE TO THE VALVE SEALING FACE MAY OCCUR. INSTEAD, LOOSEN THE BOLTS ON THE OPPOSITE SIDE OF THE SAME FLANGE A HALF TURN AT A TIME AND THEN THE BOLTS ON THE LEAKING SIDE SHOULD BE TIGHTENED THE SAME AMOUNT. IF LEAKING PERSISTS, REMOVE BOLTS AND EXAMINE SEALING FACES FOR DAMAGE.**
- 3.12 **IF LEAKS OCCUR AFTER THE SYSTEM HAS BEEN CYCLED TO ELEVATED TEMPERATURE AND BACK TO AMBIENT TEMPERATURE, RETORQUE BOLTS TO RECOMMENDED TORQUES AFER COOL DOWN. NO FURTHER ADJUSTMENTS SHOULD BE NECESSARY.**

IF YOU HAVE ANY QUESTIONS REGARDING INSTALLATION OF THE 800 SERIES BUTTERFLY VALVE PLEASE CONTACT PUREFLEX AT 616.554-1100



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