



400 SERIES

Installation Guide



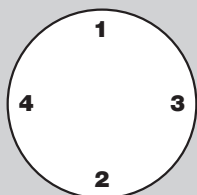
DO NOT REMOVE COVERS
UNTIL JUST PRIOR TO
PRODUCT INSTALLATION

PureFlex reserves the right to change product and performance specifications without notice

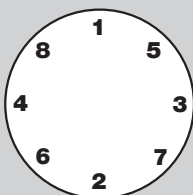
Recommended Flange Torques (FT-LBS)

Valve Size	Lubricated Gr. B7 Fastener	PTFE Coated Gr. B7 Fastener
1"	20 – 25	15 – 20
1 1/2"	20 – 25	15 – 20
2"	30 – 35	20 – 25
3"	30 – 35	20 – 25
4"	40 – 45	25 – 30
6"	40 – 45	25 – 30
8"	70 – 90	50 – 60
10"	100 – 125	60 – 80

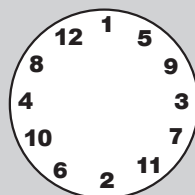
Torque Sequence for ANSI Class 150 Flanges



1" to 3"
VALVE
SIZE



4" to 8"
VALVE
SIZE



10"
VALVE
SIZE

IMPORTANT WARRANTY INFORMATION

In order to be eligible for the PureFlex 1 year valve warranty, the enclosed warranty card must be filled out by the end user and mailed back to PureFlex within 30 days of 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.

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 valve from debris entering it 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 the PureFlex Customer Service Department at: 616-554-1100.

3.0 INSTALLATION

3.1 Check the valve nameplate before installation to ensure that the pressure rating & materials of construction are compatible with the intended service conditions.

3.2 Inspect adjoining pipelines and remove any materials that could damage the valve during installation and ensure pipeline is properly aligned.

3.0 INSTALLATION (CONT.)

3.3 The 400 Series Valve is designed to be installed between **ANSI Class 150 Flat Face Flanges**. When installing the valve against raised face flanges, we recommend that PTFE Ring spacers be placed between the raised faced & the outer edge of the flange to form a full flat face on the mating flange.

3.5 Use full face soft seated PTFE or rubber gaskets of 50-70 durometer on a Shore A scale.

3.6 Some care must be exercised to produce equal torque on all bolts. The use of a torque wrench is strongly recommended.

3.7 Flange bolts should be torqued to the values listed in the tables (“Recommended Flange Torques” & “Torque Sequence for ANSI Class 150 Flanges”) on the front of this page.

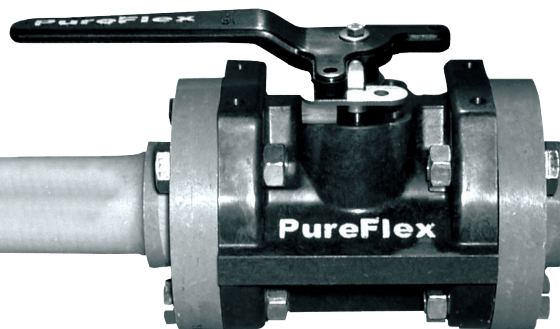
3.8 When valve terminates a line, threaded insert side of valve should be installed upstream.

3.9 If a flange leak occurs & the bolts of the leaking side have been properly torqued, they should not be tightened further or damage to the valve flanges 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.

4.0 VIBRATING EQUIPMENT

4.1 Special consideration should be given when installing valves to pumps or other equipment that involve vibration, shock loads or other mechanical movements. It is recommended to install a PTFE bellows type expansion joint such as the Ethylene FlexiJoint®. The bellows absorb vibration & eliminate the placing of undue strain on the valve. Doing so will aid in long trouble-free service.

3.4 Ensure that adjoining flanges are clean and free of debris.



Note: When connecting PureFlex 400 Series Valve to FRP Piping Flanges, consult your piping supplier for their maximum FRP Flange Torques.



If you have any questions regarding installation of the 400 Series Ball Valves, please contact PureFlex at: 616-554-1100.

Warning: Over-torquing may damage valve flange

3.10 If leaks occur after the system has been cycled to elevated temperature and back to ambient temperature, re-torque bolts to recommended torques after cool down. No further adjustments should be necessary.

