



Engineered Valves
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INSTALLATION AND MAINTENANCE INSTRUCTIONS

FIG. 71, 72, 73, 74 and 78

FABRI-VALVE® WEDGE GATE VALVES

INSTALLATION:

Use a gasket material suitable for the pressure, temperature, and media and cut to fit raised face of the valve. Bolt to mating flanges with proper size bolts. When tightening flange bolts work from side to side to ensure even compression of the gasket. The amount of torque required is determined by the type of gasket, line pressure, type of bolt and bolt lubrication.

All valves are pressure and seat tested before shipment and an inspection tag is attached. Each valve is shell tested at 225 psi and seat tested at 40 psi and 150 psi. Metal seated valves will not leak more than 10cc/in/hr and resilient seated valves will be drip tight. The packing gland may require some adjusting after line pressure is up to normal. Tighten just enough to stop leakage. Over tightening may cause rapid packing wear. If possible, stroke the valve a few times before setting packing bolts.

If the valve is installed in horizontal position and a powered actuator is included with the valve, support of the actuator may be required. Consult the factory for technical advice.

Air operated valves must be supplied with clean, dry, regulated air.

CAUTION: THE VALVES ARE SUPPLIED WITH CYLINDERS SIZED FOR A SPECIFIED AIR PRESSURE AND PRESSURES EXCEEDING THIS MAY CAUSE DAMAGE TO THE VALVE. AIR REGULATORS AND AIR FILTERS ARE AVAILABLE FROM YOUR ITT REPRESENTATIVE.

MAINTENANCE:

TO REPACK STUFFING BOX:

DANGER: DO NOT REPACK VALVE UNDER PRESSURE

To repack stuffing box, drain valve and proceed as follows:

1. Remove gland nuts and lift packing gland.
2. Remove old packing.
3. Replace with proper size and number of rows of square braided packing.
4. Replace gland and gland nuts.
5. After line is up to pressure, tighten gland just enough to stop leakage.

CAUTION: IF THE VALVE IS EQUIPPED WITH THE OPTIONAL BACKSEAT, THE VALVE MAY BE REPACKED UNDER PRESSURE IN CERTAIN CONDITIONS. DO NOT REPACK THE STUFFING BOX IF THE PIPELINE CONTAINS DANGEROUS OR LETHAL MEDIA. REPACKING WITH PRESSURE IN THE LINE SHOULD NOT BE CONSIDERED A ROUTINE PROCEDURE. FOR HARMLESS, INACTIVE,

ROOM TEMPERATURE LINE MEDIA, OPEN THE VALVE UNTIL THE BACKSEAT IS IN CONTACT WITH THE STUFFING BOX, LOOSEN PACKING GLAND BOLTS SLOWLY TO DRAIN ANY TRAPPED PRESSURE AND MAKE CERTAIN THERE IS NO LEAKAGE DUE TO WEAR OR CORROSION OF THE BACKSEAT BEFORE USING THE ABOVE REPACKING PROCEDURE.

BONNET INSTALLATION: (30 inch and larger)

Alignment marks are located on three sides of the valve chest flange and bonnet flange. To assure correct relationship between valve body and bonnet, align marks before bolting the bonnet to the valve.

LUBRICATION:

Working parts will require lubrication at regular intervals, dependent on frequency of operation.

Part	Recommended Lubricants
Grease Fitting On Yoke:	Chevron Industrial Grease-medium Texaco Molytex Grease #2 improved.
Thread Portion of Stem, Valve Seats and Gland Bolts or Studs:	Moly XL 47-F2-75 Fel-Pro C5-A Compound
Lantern Gland:	High temperature: Shell Darina No. 2 Low temperature: Texaco Molytex Grease No. 2.

VALVES WITH ELECTRIC ACTUATORS

Valves with electric motors should be set up as torque closed, positioned open.

WARNING:

Valves and valve actuators supplied by Engineered Valves are designed and manufactured using good workmanship and materials, and they meet the applicable industry standards. These valves are available with components of various materials, and they should be used only in services recommended herein or by a company valve engineer. Misapplication of the product may result in injuries or property damage. A selection of valve components of the proper material consistent with the particular performance requirement is important for proper application.

Examples of the misapplication or misuse of a valve or valve actuator includes use in an application that exceeds the pressure / temperature rating, or failure to maintain the equipment as recommended.