



WARNING
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ALL PARKER VALVES MUST PASS A RIGID OPERATIONAL AND LEAKAGE TEST BEFORE LEAVING THE FACTORY. IT IS RECOMMENDED AFTER ANY REASSEMBLY, THE VALVE SHOULD BE TESTED BY THE USER FOR OPERATION AND LEAKAGE. IF THESE INSTRUCTIONS ARE NOT FULLY COMPLIED WITH, THE REPAIRED PRODUCT MAY FAIL AND CAUSE DAMAGE TO PROPERTY OR INJURY TO PERSONS. PARKER HANNIFIN CANNOT ASSUME RESPONSIBILITY FOR PERFORMANCE OF A CUSTOMER SERVICED VALVE.

**MULTIPLE TURN VALVE
GASKET AND STEM REPLACEMENT**

Disassembly

Make certain the system in which the valve is installed is drained and/or exhausted of all pressures before valve disassembly or removal occurs.

1. Rotate the Valve Handle to the full open position and remove the Bonnet Assembly by unthreading the Union Nut with a 1" wrench.
2. Rotate the Valve Handle closed until it touches the Bonnet.
3. Remove the Stem Tip by unthreading with a 3/8" wrench for the P4 series (a 7/16" wrench for the P6 and P8 series) while securing the Lower Stem flats of the Bellows Assembly with a thin 1/4" wrench (Craftsman R No. 9RY4306 or equivalent) inserted between the Bellows Ring and Bonnet. Do not hold the Bellows or the Bellows Ring to prevent damage to the Bellows.
4. Remove the Gasket from the Valve Body if the Gasket is to be replaced.

Reassembly

Make certain all parts are free of dirt or other contaminants before reassembly.

5. Engage the Stem Tip Assembly into the Lower Stem of the Bellows Assembly to 1/8 turn past finger-tight or preferably 12 IN.-LBS. Rotate the Stem Tip with a 3/8" wrench for the P4 series (a 7/16" wrench for the P6 and P8 series) while securing the Lower Stem flats with a thin 1/4" wrench inserted between the Bellows Ring and Bonnet.
6. Rotate the Valve Handle to the full-open position, maintaining alignment of the Bellows Ring with the Bonnet.
7. If required, place the new Gasket in the Valve Body.
8. Lightly lubricate the Valve Body or Union Nut threads with an appropriate lubricant.
9. Engage the Bonnet Assembly onto the Valve Body and torque the Union Nut to 40 FT.-LBS.

**MULTIPLE TURN VALVE
BELLOW SUB-ASSEMBLY
REPLACEMENT**

Disassembly

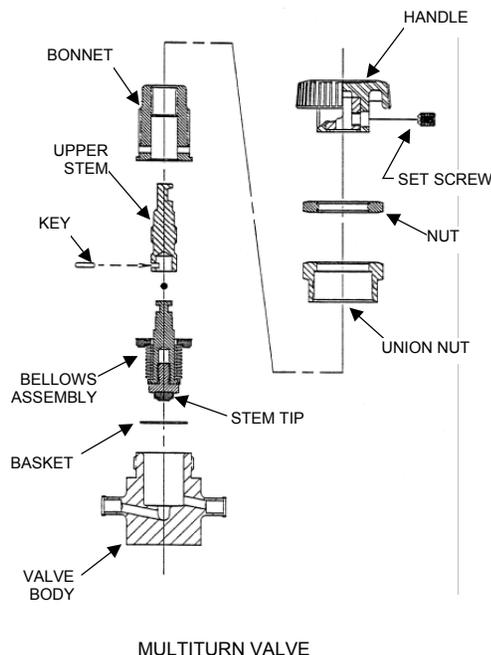
Make certain the system in which valve is installed is drained and/or exhausted of all pressures before valve disassembly or removal occurs. Valves which are panel mounted must be removed from the panel before disassembly.

1. Rotate the Valve Handle to the full-open position and remove the Bonnet Assembly by unthreading the Union Nut with a 1" wrench.
2. Remove the Handle by unthreading the Set Screw with a 3/32" hex wrench.
3. Remove the Bellows Assembly by disengaging the Upper Stem from the Bonnet and removing the Key in the Upper Stem key slot. Exercise care not to lose the Ball between the Upper Stem and the Bellows Assembly.
4. Remove the Stem Tip assembly by unthreading with a 3/8" wrench for the P4 series (a 7/16" wrench for P6 and P8 series) while securing the Lower Stem flats of the Bellows Assembly with a 1/4" wrench. Do not hold the Bellows or the Bellows Ring to prevent damage to the Bellows.
5. Remove the Gasket from the Valve Body if the Gasket is to be replaced.

Reassembly

Make certain all parts are free of dirt or other contaminants before assembly.

6. Engage the Stem Tip assembly into the Lower Stem of the Bellows assembly to 1/8 turn past finger tight or preferably, torque to 12 IN.-LBS. Rotate the Stem Tip with a 3/8" wrench for the P4 series (a 7/16" wrench for the P6 and P8 series) while securing the Lower Stem flats with a 1/4" wrench.
7. Ensuring the Ball is in the Upper Stem inside diameter bore, install the Bellows Assembly into the Upper Stem and engage the key into the Upper Stem key slot.
8. Thread the above assembly into the bonnet, from the body side, until it back-stops. Exercise care to insure the Key is maintained in place during this operation.
9. Replace the Union Nut and the Nut if they were removed.
10. Re-install the Handle.
11. If required, place the new Gasket in the Valve Body.
12. Lightly lubricate the Valve Body or Union Nut threads with an appropriate lubricant. Place the Bonnet Assembly onto the Valve Body and tighten the Union Nut to 40 FT.-LBS.



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TOGGLE OPERATED VALVE GASKET AND STEM REPLACEMENT

Disassembly

Make certain the system in which the valve is installed is drained and/or exhausted of all pressures before valve disassembly or removal occurs. Valves which are panel mounted must be removed from the panel prior to disassembly.

1. Position the Toggle Handle to the open position and remove the Bonnet Assembly by unthreading the Union Nut with a 1" wrench.
2. Switch the Handle to the closed position.
3. Remove the Stem Tip assembly by unthreading with a 3/8" wrench for the PT4 series (a 7/16" wrench for the PT6 and PT8 series) while securing the Lower Stem flats of the Bellows Assembly with a thin 1/4" wrench (Craftsman R9RY4306 or equivalent) inserted between the Bellows Ring and Bonnet. Do not hold the Bellows or the Bellows Ring to prevent damage to the Bellows.
4. Remove the Gasket from the Valve Body if the Gasket is to be replaced.

TOGGLE OPERATED VALVE BELLOWS SUB-ASSEMBLY REPLACEMENT

Disassembly

Make certain the system in which the valve is installed is drained and/or exhausted of all pressures before valve disassembly or removal occurs. Valves which are panel mounted must be removed from the panel prior to disassembly.

1. Remove the Handle by driving the pin out, preferably with the Handle in the closed position.
2. Remove the Bonnet Assembly by unthreading the Union Nut with a 1" wrench.
3. Disengage the Bellows Assembly by removing the Key from the Upper Stem key slot.
4. Remove the Stem Tip assembly by unthreading the Stem Tip with a 3/8" wrench for the PT4 series (a 7/16" wrench for the PT6 and PT8 series) while securing the Lower Stem flats of the Bellows Assembly with a 1/4" wrench. Do not hold the Bellows or the Bellows Ring to prevent damage to the damage to the Bellows.
5. Remove the Gasket from the Valve Body if the Gasket is to be replaced.

Reassembly

Make certain all parts are free of dirt or other contaminants before reassembly.

5. Engage the Stem Tip assembly into the Lower Stem of the Bellows Assembly to 1/8 turn past finger-tight or preferably torque to 12 IN.-LBS. Rotate the Stem Tip with 3/8" wrench for the PT4 series (a 7/16" wrench for the PT6 and PT8 series) while securing the Lower Stem flats with a thin 1/4" wrench inserted between the Bellows Ring and Bonnet.
6. Switch the Handle to the open position, maintaining alignment of the Bellows Ring with the Bonnet.
7. If required place the new Gasket in the Valve Body.
8. Lightly lubricate the Valve Body or Union Nut threads with an appropriate lubricant.
9. Engage the Bonnet Assembly onto the Valve Body and torque the Union Nut to 40 FT.-LBS.

Reassembly

Make certain all parts are free of dirt or other contaminants before reassembly.

6. Engage the Stem Tip assembly into the Lower Stem of the Bellows Assembly to 1/8 turn past finger-tight or preferably torque to 12 IN.-LBS. Rotate the Stem Tip with a 3/8" wrench for the PT4 series (a 7/16" wrench for the PT6 and PT8 series) while securing the Lower Stem flats with a 1/4" wrench.
7. Install the Upper Stem onto the Bellows Assembly and slide the Key into the Upper Stem key slot.
8. Slide the Spring over the Upper Stem.
9. Install the assembly of step 8 in the Bonnet.
10. Place the Gasket in the Valve Body.
11. Lightly lubricate the Valve Body or Union Nut threads with an appropriate lubricant. Install the assembly of step 9 onto the Valve Body and torque the Union Nut to 40 FT.-LBS.
12. Insure the Bushing is in place at the top of the Bonnet.
13. Install the Handle and the Pin on the Upper Stem.

TOGGLE OPERATED VALVE BELLOWS SUB-ASSEMBLY REPLACEMENT

Disassembly

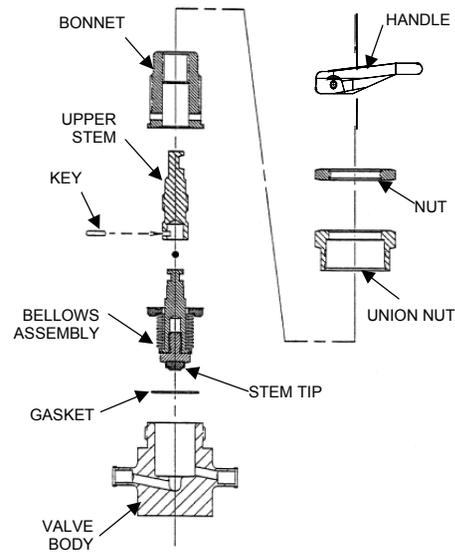
Make certain the system in which the valve is installed is drained and/or exhausted of all pressures before valve disassembly or removal occurs. Valves which are panel mounted must be removed from the panel prior to disassembly.

1. Remove the Handle by driving the pin out, preferably with the Handle in the closed position.
2. Remove the Bonnet Assembly by unthreading the Union Nut with a 1" wrench.
3. Disengage the Bellows Assembly by removing the Key from the Upper Stem key slot.
4. Remove the Stem Tip assembly by unthreading the Stem Tip with a 3/8" wrench for the PT4 series (a 7/16" wrench for the PT6 and PT8 series) while securing the Lower Stem flats of the Bellows Assembly with a 1/4" wrench. Do not hold the Bellows or the Bellows Ring to prevent damage to the damage to the Bellows.
5. Remove the Gasket from the Valve Body if the Gasket is to be replaced.

Reassembly

Make certain all parts are free of dirt or other contaminants before assembly.

6. Engage the Stem Tip assembly into the Lower Stem of the Bellows assembly to 1/8 turn past finger tight or preferably, torque to 12 IN.-LBS. Rotate the Stem Tip with a 3/8" wrench for the P4 series (a 7/16" wrench for the P6 and P8 series) while securing the Lower Stem flats with a 1/4" wrench.
7. Ensuring the Ball is in the Upper Stem inside diameter bore, install the Bellows Assembly into the Upper Stem and engage the key into the Upper Stem key slot.
8. Thread the above assembly into the bonnet, from the body side, until it back-stops. Exercise care to insure the Key is maintained in place during this operation.
9. Replace the Union Nut and the Nut if they were removed.
10. Re-install the Handle.
11. If required, place the new Gasket in the Valve Body.
12. Lightly lubricate the Valve Body or Union Nut threads with an appropriate lubricant. Place the Bonnet Assembly onto the Valve Body and tighten the Union Nut to 40 FT.-LBS.



Reassembly

Make certain all parts are free of dirt or other contaminants before reassembly.

6. Engage the Stem Tip assembly into the Lower Stem of the Bellows Assembly to 1/8 turn past finger-tight or preferably torque to 12 IN.-LBS. Rotate the Stem Tip with a 3/8" wrench for the PT4 series (a 7/16" wrench for the PT6 and PT8 series) while securing the Lower Stem flats with a 1/4" wrench.
7. Install the Upper Stem onto the Bellows Assembly and slide the Key into the Upper Stem key slot.
8. Slide the Spring over the Upper Stem.
9. Install the assembly of step 8 in the Bonnet.
10. Place the Gasket in the Valve Body.
11. Lightly lubricate the Valve Body or Union Nut threads with an appropriate lubricant. Install the assembly of step 9 onto the Valve Body and torque the Union Nut to 40 FT.-LBS.
12. Insure the Bushing is in place at the top of the Bonnet.
13. Install the Handle and the Pin on the Upper Stem.