

Seat Replacement Kit Contents

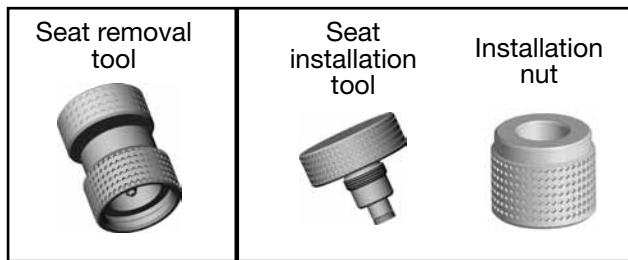
■ Diaphragms ■ Seat carrier assembly

- (1) Solid diaphragm
- (1) Vented diaphragm^①



① DP series only; DF series uses 2 solid diaphragms.

Tool Kits



This instruction applies *only* to DP series and DF replaceable seat diaphragm valves.



CAUTION
Before servicing any installed valve, you must depressurize the system and purge the valve.

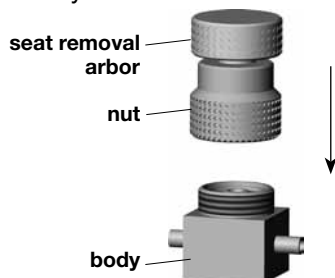
Valve Disassembly

Remove the valve upperworks and diaphragms (2) from valve body.

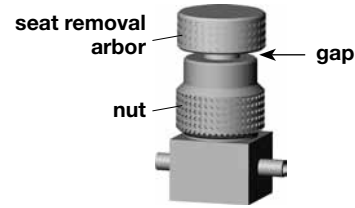
- For DF series valves, refer to the DF series instruction card, MS-CRD-0071, for valve disassembly instructions.
- For DP series valves, refer to the DP series instruction card, MS-CRD-0086, for valve disassembly instructions.

Remove Replaceable Seat

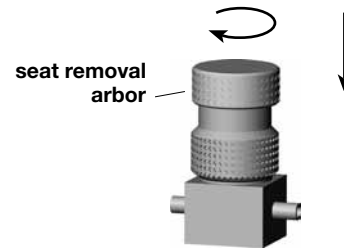
1. Thread the nylon **nut** of the seat removal tool completely onto the **body**. Do not hold or turn metal **seat removal arbor** while tightening nylon nut onto body.



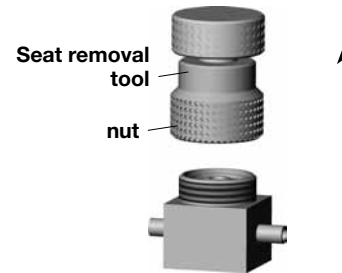
2. The **nut** should be fully tightened onto body with a **gap** showing between **nut** and **seat removal arbor**.



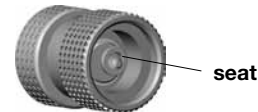
3. Apply slight downward pressure while turning the **seat removal arbor** clockwise. A drop in torque indicates the seat is removed from the body.



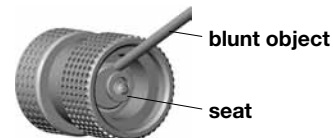
4. Remove **seat removal tool** from body by rotating **nut** counter-clockwise.



5. Turn **seat removal tool** to expose **seat**.



6. Dislodge **seat** from arbor threads by applying light pressure to seat using a **blunt object**. Discard seat.

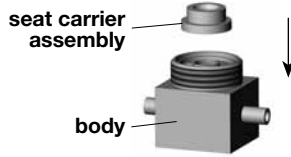


Install New Seat

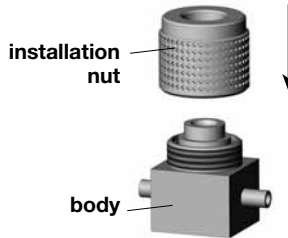
NOTICE

Prior to new seat installation, inspect body seat cavity for particles and clean if required.

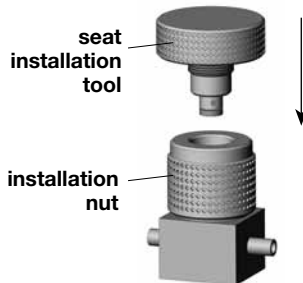
1. Place the **seat carrier assembly** into the **body** as shown.



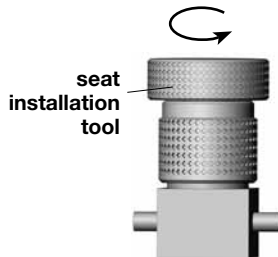
2. Thread the **installation nut** completely onto the **body**.



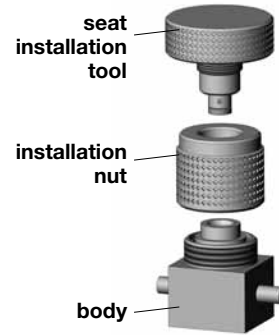
3. Thread the **seat installation tool** into the **installation nut** until contact is made with the seat. Continue turning the **seat installation tool** until the seat is firmly seated in the body. At this point, a significant rise in torque will be felt and the **seat installation tool** will be in close contact to the **installation nut**.



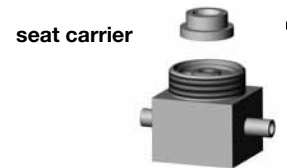
4. Loosen the **seat installation tool** several turns.



5. Remove the **seat installation tool** and **installation nut** from the body.



6. Remove and discard the empty **seat carrier**.



Valve Reassembly

Reassemble the valve using the new diaphragms.

- For DF series valves, refer to DF series instruction card, MS-CRD-0071, for valve reassembly instructions.
- For DP series valves, refer to DP series instruction card, MS-CRD-0086, for valve disassembly and reassembly instructions.



CAUTION

Whenever the valve is disassembled and reassembled, new diaphragms must be installed.

NOTICE

The seal surfaces on the body, seat, and solid diaphragm must be clean before reassembly. Inspect and clean to remove any particles prior to reassembly. Particles can damage the seat and seal surfaces.

TESTING

Appropriate testing should be performed after reassembly is complete to ensure proper operation. See Testing section in the above instructions for details.