

HCV04 check valve

The HCV04 range utilise a removable cartridge valve element to prevent reverse flow. Valves are available with either metal-metal seating, or with soft seat seal in one of four spring ranges.

Valves with metal-metal seat seal may be used in steam and condensate service.

1/2" and 3/4" HCV04SC valves have a bolted body joint. All other models have a clamp centred joint.

Operating conditions

Opening pressures: 8, 35, 100 & 240 mbar

Max. operating conditions: 16 barg @ 20°C

Operating temperature range:

Metal-metal seating: -20°C to 225°C

EPDM seat seal: -20°C to 150°C

Viton & PTFE seat seals: -20°C to 205°C

Kalrez seat seal: -18°C to 205°C

Installation

The HCV04 check valve may be installed in any orientation. An arrow marked on the valve body indicates the direction of flow.

Maintenance

The cartridge element within the valve body may be removed for inspection or replacement by following the instructions below.

1. Remove complete valve from line, firstly ensuring any residual system pressure has been relieved, and where appropriate, the line drained.

2. For 1/2" and 3/4" HCV04SC valves loosen and remove the four body screws (10). For all other models Loosen body clamp (9) and remove.

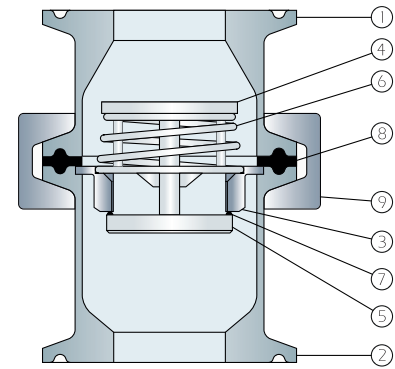
3. Remove body seal (8). The cartridge valve may now be removed.

To reassemble the valve:

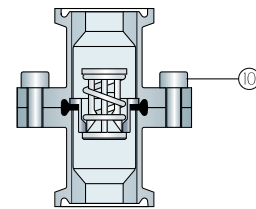
1. Insert cartridge valve assembly (3, 4, 5 and 6) into the body recess as illustrated, noting the direction of flow.

2. Fit body seal (8) to body half containing cartridge valve.

3. Bring body halves together and fit screws (HCV04SC) or clamp. Tighten screws on HCV04SC to 3 Nm. For all other models tighten nut on hinged clamp to 4-5 Nm, and for two-piece bolted clamps, tighten nuts to 27 Nm.



1/2", 3/4" and 1" HCV04HC



1/2" and 3/4" HCV04SC

Part	Material
1 Inlet body	316L stainless steel
2 Outlet body	316L stainless steel
3 Cartridge valve body	316L stainless steel
4 Cartridge valve piston	316L stainless steel
5 Cartridge valve head	316L stainless steel
6 Cartridge valve spring	316 stainless steel
7 Optional seat seal	EPDM, Viton, Silicone or Perlast
8 Body seal	PTFE-Viton envelope
9 Body clamp	304 stainless steel
10 Body screw	Stainless steel

Available spares

Cartridge valve assembly (3, 4, 5 and 6) and body seals (7)