Check Valve - Screw in Cartridge (ISO 7789-1998)

Description

KSC check valves are two port screw-in cartridge valves that are designed to fit in a cavity confirming to ISO 7789 : 1998 (E).

These are seat type valves, available in four different sizes and with five different cracking pressures in each size.

Check valves allow free flow in one direction while providing leak-free closure in reverse direction.

Technical Specifications

Construction: Poppet seat type.
Mounting style: Screw-in cavity as per ISO : 7789 : 1998 (E)
Mounting position: Optional
Flow direction: Free flow from 1 to 2
Operating pressure: 350 bar
Hydraulic medium: Mineral Oil.
Viscosity range: 10 cSt to 380 cSt.
Fluid temperature range: -20 ºC to +80 ºC
Fluid Cleanliness requirement: As per ISO 19/16 or better. (NAS 10)
Nom. flow handling capacity: Refer graphs

Performance curves
Testing as per ISO 6403 : 1998 (E)
Oil used: ISO VG 46,
Viscosity: 46 cSt @ 40 ºC
Direction of flow: 1 to 2
Check Valve - Screw in Cartridge (ISO 7789-1998)

Ref. No: H06925, Release Nov 2006 (Dimensions in mm)

Cavity Details

<table>
<thead>
<tr>
<th>Codification</th>
<th>20-01-0-98</th>
<th>22-01-0-98</th>
<th>33-01-0-98</th>
<th>42-01-0-98</th>
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<tbody>
<tr>
<td>M</td>
<td>M20x1.5</td>
<td>M22x1.5</td>
<td>M33x2.0</td>
<td>M42x2.0</td>
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<tr>
<td>D1 min</td>
<td>38.0</td>
<td>42.0</td>
<td>58.0</td>
<td>74.0</td>
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<tr>
<td>D2 H8</td>
<td>17.0</td>
<td>19.0</td>
<td>29.0</td>
<td>38.0</td>
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<tr>
<td>D3 +0.1</td>
<td>21.8</td>
<td>23.8</td>
<td>35.4</td>
<td>44.4</td>
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<tr>
<td>T1 min</td>
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<td>38.5</td>
<td>50.0</td>
<td>56.0</td>
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<tr>
<td>T2 +1</td>
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<td>40.0</td>
<td>52.0</td>
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<tr>
<td>T3 min</td>
<td>14.5</td>
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<td>22.0</td>
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<td>T4 max</td>
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<td>38.5</td>
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<td>T5 +0.4 (ref)</td>
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<td>28.0</td>
<td>39.0</td>
<td>44.0</td>
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<tr>
<td>T6 +0.4</td>
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<td>29.3</td>
<td>40.7</td>
<td>45.7</td>
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<tr>
<td>T8 +0.4</td>
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<td>2.4</td>
<td>3.1</td>
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<tr>
<td>T9 min</td>
<td>14.5</td>
<td>15.5</td>
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</table>

Ordering Code

- **KS** - Screw in cartridge
- **C** - Check Valve
- **10** - Valve Size
- **A** - Design Series
- **V** - Seals
- **X** - Spring Cracking
- **-** - Non Adjustable

Valve Size
- 20-01-0-98 - 06
- 22-01-0-98 - 10
- 33-01-0-98 - 16
- 42-01-0-98 - 20

Spring Cracking
- 0.5 bar - A
- 1.0 bar - B
- 1.5 bar - C
- 3.0 bar - D
- 5.0 bar - E
- No Spring - X

Seals
- **V** - Viton
- **N** - Nitrile

Subject to revision
- Design Series
- 1.0 to 1.9
- Externally interchangeable