C005
01-2025
Coupling Valve - 300 bar
Screw-In Type, ND **5**

Advantages:

- **Also usable as non return valve**
- **Under pressure conectable**
- **Simple insert contur**
- **Small size**
- **Relatively large nominal diameter**

Description

Technical Data:

Nominal Diameter [ND]:		**5**
Working pressure max.	[bar]	300
Volume flow max. - oil	[l/min]	25
Coupling stroke	[mm]	4,0 (2,0/E)
Axial position tolerance	[mm]	+ 0,3
Radial position tolerance	[mm]	± 0,3
Permissible angular tolerance	[°]	± 0,8°
Cracking pressure (single)	[bar]	1,0
Max. temperature range	[°C]	-35° bis +190°
Material		Stainless-/ tempered steel
Sealing material		Viton
Thread		M14x1,5
Torque	[Nm]	9

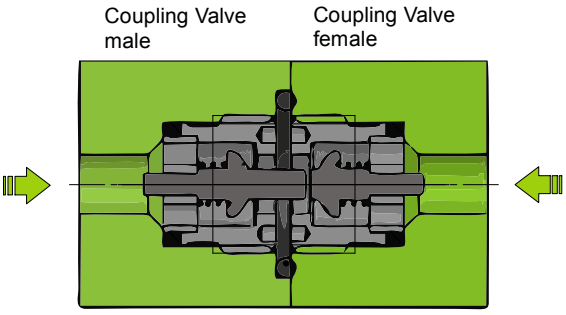
Explanation:

These coupling valves are primarily used to seal and cover oil-hydraulic channels. Channels for other media can also be protected. However, they do not provide absolute sealing when uncoupled.

The individual elements can also be used as non return valves.

To ensure the coupling function, a female and male element are always required.

The coupling force generated by the springs is approximately 2 N per element.



Recommendations for use:

The female and male elements should be coaxially aligned before coupling. The counter bodies of both coupling elements must be positioned approximately 1.5 mm from contact with the end sealing surface, without exceeding the radial positioning tolerance.

The end surfaces must be free of contamination before coupling. Sealing during operation in the coupled state is ensured by the O-ring (15x2) supplied with the male element.

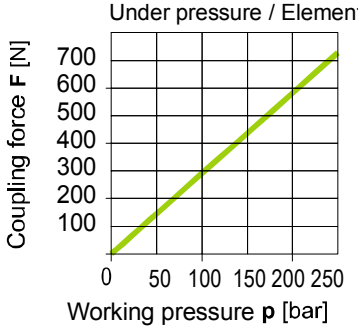
Scope of supply

O-Ring for system sealing is included in scope of the supply.

Characteristics

Coupling force

Under pressure / Element

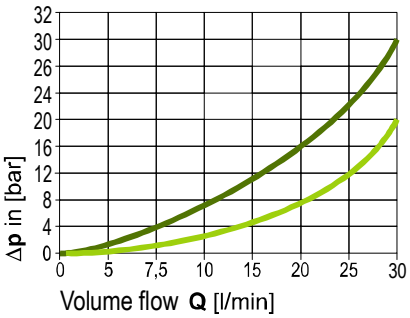


Pressure losses depend on temperature and the specific medium.
The table is based on the following values:

Hydraulic oil: 200 bar

Pressure drop - Hydraulic oil

Δp- Diagram



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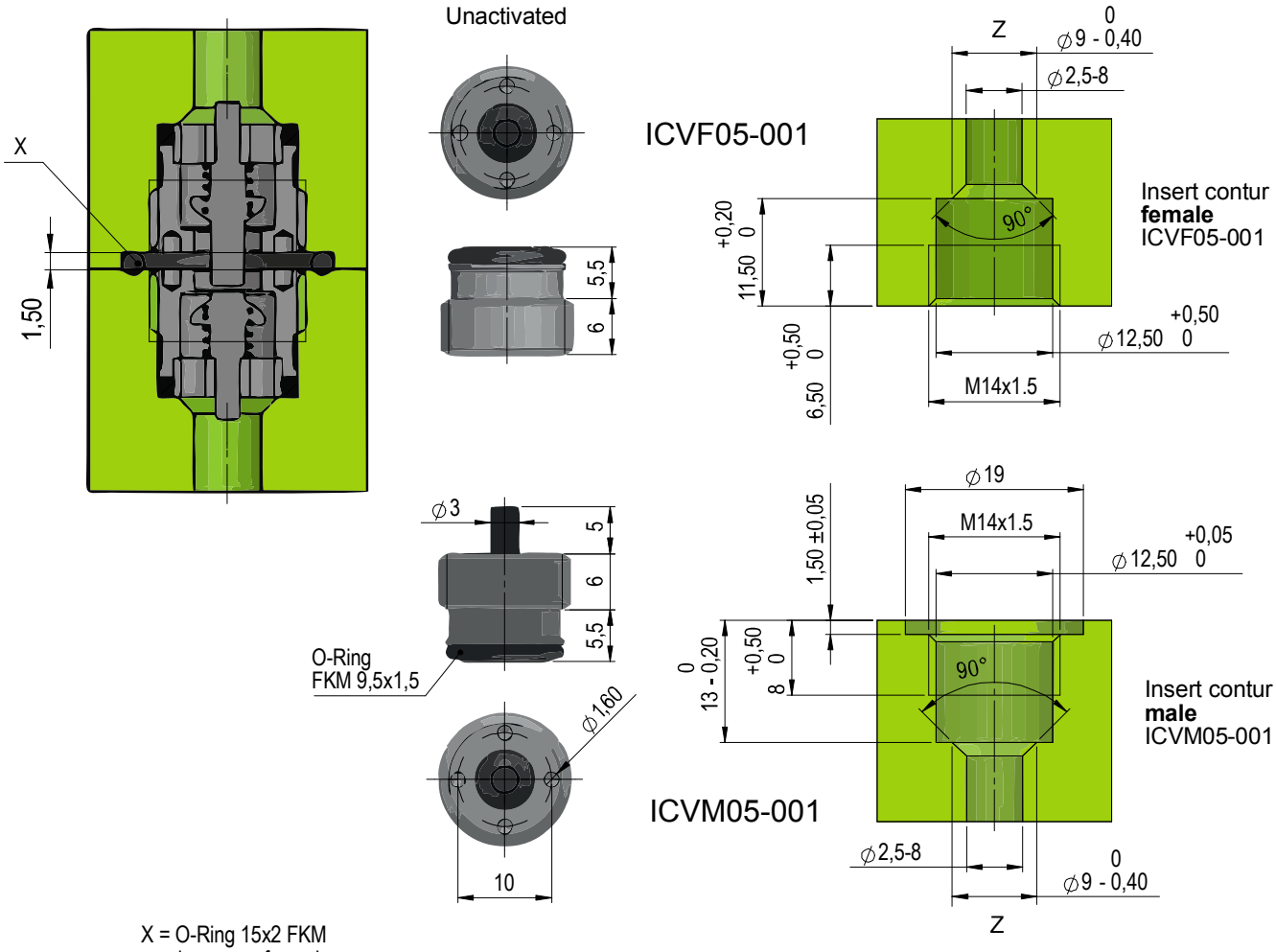
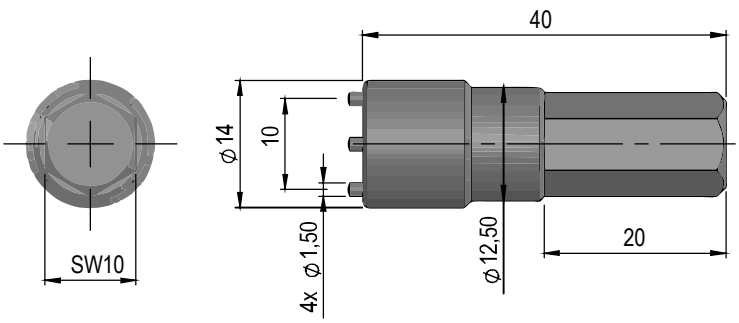
Dimensions



X = O-Ring 15x2 FKM
in scope of supply

Z = To achieve the maximum nominal diameter, the counterbore must be carried out as shown.

Screw-In Tool



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