

EN ISO 13849 Data Sheet

Slip-In Cartridge Valves to ISO 7368

Flow, Pressure, Dynamic and Special Functions Sizes NG16, NG25, NG32 & NG40

Slip-In Cartridge Valve is an assembly of a Cover and an Insert, which serves as logic element in hydraulic circuit. High power density offered by this product family makes it preferred choice to control machine motions demanding high performance. These valves offer various Flow, Pressure, Dynamic and Special functions based on application requirements. For these valves, mounting interface is per ISO-7368 while pilot interface is ISO-4401, Size 03-02-0-94 / ANSI / B93.7M-D03.



Features

- System design flexibility
- Smaller package size
- Better performance and control
- Improved reliability
- Higher pressure capability
- Enhanced operational efficiency
- Greater contamination tolerance
- Faster cycle times

Applications

- Industrial

Comprehensive technical literature is online at www.danfoss.com



Technical data

Parameter	Value
Maximum operating pressure	420 bar [6090 psi]
Max oil flow, Size 16 - Insert D10 (at $\Delta P = 5$ bar across the valve)	333 l/min [88 US gal/min]
Max oil flow, Size 25 - Insert D10 (at $\Delta P = 5$ bar across the valve)	730 l/min [193 US gal/min]
Max oil flow, Size 32 - Insert D10 (at $\Delta P = 5$ bar across the valve)	1540 l/min [407 US gal/min]
Max oil flow, Size 40 - Insert D10 (at $\Delta P = 5$ bar across the valve)	2235 l/min [590 US gal/min]
Oil temperature	-20°C to 80°C [-4°F to 176°F]
Viscosity	500 to 5 cSt
Cleanliness according to ISO 4406	18/16/13

Note

The products must be used in accordance with the installation instructions and operating conditions published in the relevant product user guide.

This data sheet contains supplementary performance data that is not contained in the valve product data sheet. It has been produced specifically to support the requirement of the harmonized standard EN ISO 13849.

Additionally, for products intended to be sold in the European Economic Area:

“Safety Devices” or other safety functions mentioned in any product literature are not necessarily “Safety Components” as defined by the Machinery Directive 2006/42/EC, unless otherwise stated together with the CE mark and specific reference to said directive.

Silting may occur when left in the actuated position for long time duration. It is highly recommended that the valves are periodically cycled to limit these effects.

Determination of MTTFd

Evaluation of Mean Time to Dangerous Failure (MTTFd) for Slip-In Cartridge valve Covers and Inserts is based on part count method and for each component based on “Good Engineering Practice Method” using annexure for assessments as per ISO 13849-2:2015.

Reliability data

Model code	MTTFd according to ISO 13849:2015
CVCS-**-****-*-*-*30-***** & CVI-**-****-*-*60-*	150 years
CVCS-**-ZD(A)3-*-*20-*** & CVI-**-ZD(N)105-*-*20	150 years

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