

EN ISO 13849 Data Sheet

Proportional Directional Valve with Feedback

Size 05

KFDG4V-5

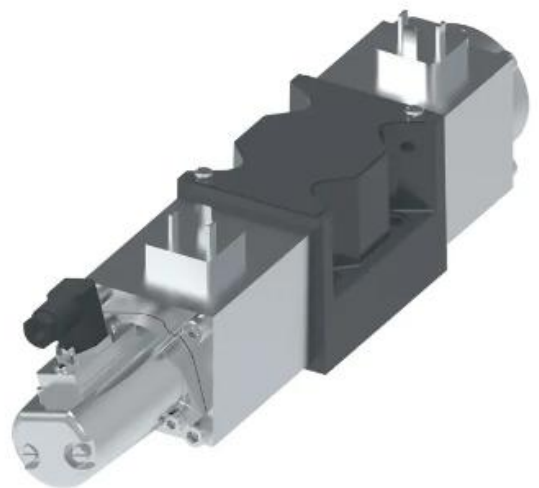
The KFDG4V-5-*20 proportional valves are designed to provide controlled oil flow in proportion to an electrical command signal. This double solenoid valve provides reversible flow to an actuator, and it is supplied without an integral control amplifier. The mounting interface is ISO-4401-05 (CETOP-5).

Features

- Electronic feedback LVDT ensures accurate spool position control.
- Full CE electromagnetic compatibility
- Wide range of spool and flow rate options.
- Supported by a broad range of amplifiers and auxiliary function modules.

Applications

- Die casting & foundry
- Machine tool
- Marine
- Turbine control



Comprehensive technical literature is
online at www.danfoss.com

Technical data

Parameter	Value
Maximum operating pressure, P, A, B	315 bar [4500 psi]
Maximum operating pressure, T	Refer model code and product catalogue.
Max oil flow (at 10 bar ΔP across valve)	70 l/min [18.5 US gal/min]
Max allowable oil temperature	60° C [140° F]
Viscosity	500 to 13 cSt
Cleanliness acc. ISO 4406	17/15/12

Note

The valve has painted body. The O-rings are Viton/Nitrile. This offers limited protection to extreme environmental conditions, e.g. high humidity, temperature and pollution.

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

This product must be used in accordance with the installation instructions and operating conditions published in relevant product user guides.

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

Additionally, for products intended to be sold in 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.

Determination of MTTFd

Evaluation of Mean Time to Dangerous Failure (MTTFd) for KFDG4V-5-*-20 valve assembly is based on part count method and for each component, not exceeding maximum operating conditions, based on “Good Engineering Practice Method” using annexure for assessments as per ISO 13849-2:2012.

Reliability data

Model code	MTTFd acc. ISO 13849:2015
KFDG4V-5-*-20	150 years