

Parker Product Datasheet



Parker's proven direct operated proportional directional control valves series D1FB OBE (NG06) / D3FB OBE (NG10) are universally applicable. The standard performance valves with onboard electronics provide high repeatability and low hysteresis.

PART NUMBER: D1FBE01HC0NS00
SPOOL CODE: E01H
SPOOL POSITION: Operated in position a or b
MARKING: Standard
PORT CONNECTION: NG06 / CETOP 03
ELECTRONICS TYPE: Onboard
FLOW RATE: 20 L/MIN
SPOOL DESIGN: Spool/sleeve
CONNECTION TYPE: 6+PE
SIGNAL INPUT: 4 - 20 (mA)
SPOOL TYPE: Overlap

PRODUCT OVERVIEW

Parker direct operated proportional directional control valves D1FB OBE in NG06 / CETOP 03 and D3FB OBE in NG10 / CETOP 05 are designed for a wide range of flow profiles in open loop systems. The high repeatability from valve to valve and low hysteresis make the standard performance valves also suitable for basic closed loop configurations.

The D1FB and D3FB valves can be ordered with spool/sleeve design (D*FB*0) for maximum

precision as well as spool/body design (D*FB*3) for high nominal flow.

Markets:

- Industrial
- Machine tools
- Rubber & tire processing

Features/Benefits:

- Spool/sleeve and spool/body design - provides versatile applications, for maximum precision or high nominal flow
- Low hysteresis - ensures high repeatability and thus improved process and product accuracy
- High level of dynamics and flows - optimized process speed
- Digital onboard electronics - enables individual settings due to full data access
- Fast, easy set-up - less installation efforts necessary
- Manual override - allows to actuate the valve without current
- Short delivery time - no warehousing necessary
- Excellent price-performance ratio

Applications:

- Suitable for various hydraulic applications
- Machine tool

- Tire presses

Technical specifications:

The digital onboard electronics is situated in a robust metal housing, which allows the usage under rough environmental conditions. Valve and electronics come factory set and can be operated without adjustment. Additionally the interface software ProPxD allows the setting of a number of functions, such as maximum flow setting, dead-band compensation and four independent ramps.

The ± 10 V DC reference output allows to drive the valve with nothing more than a potentiometer or an analogue joystick. A basic oscilloscope function is integrated in the programming software for monitoring or set-up functions.

The cable connection to a serial RS232 interface is available as accessory.

TECH SPECIFICATIONS

PRESSURE DIFFERENTIAL	5 bar
TECHNOLOGY	Hydraulics
PRODUCT SERIES	Proportional DC Valve
MOUNTING STYLE	DIN 24383
MAXIMUM AMBIENT TEMPERATURE	60 °C
BODY MATERIAL	Cast Iron
MOUNTING STYLE	CETOP RP164
INGRESS PROTECTION RATING	IP65 in accordance with EN 60529
ACTUATION TYPE	Solenoid

ACTUATION TYPE	Proportional
LEAK RATE	< 50 ml/min
APPLICATION	Industrial Hydraulic
FILTER EFFICIENCY RATING	ISO 4406; 18/16/13
MOUNTING STYLE	NFPA
MEDIA	Hydraulic Oil
VALVE TYPE	Proportional DC Valve
MOUNTING STYLE	ISO 4444
MINIMUM AMBIENT TEMPERATURE	-20 °C
ELECTRONICS TYPE	Onboard
DIVISION	Hydraulic Valve Systems Division Europe
DIVISION	Hydraulic Valve Systems Division Europe
MOUNTING TYPE	Subplate
WEIGHT	2.9 kg
MAXIMUM OPERATING PRESSURE	350 bar
POWER SUPPLY VOLTAGE	18...30, ripple < 5 % eff., surge free VDC
MOUNTING POSITION	Unrestricted
BRAND	Parker
PORT CONNECTION	NG06 / CETOP 03
MINIMUM OPERATING TEMPERATURE	-25 °C
FUNCTION	3-way
CONNECTION TYPE	Connector as per EN 175201-847
HYSTERESIS	< 4 %
MAXIMUM KINEMATIC VISCOSITY	400 cSt
MAXIMUM OPERATING TEMPERATURE	60 °C

MINIMUM KINEMATIC VISCOSITY	20 cSt
FOR FLUID TYPE	Hydraulic Oil
SEAL MATERIAL	NBR
MAXIMUM FLUID TEMPERATURE	60 °C
MAXIMUM FLOW RATE	n/a
OPERATION TYPE	Direct
MINIMUM FLUID TEMPERATURE	-25 °C