

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: D1FBE01HC0NF00
FLOW RATE: 20 L/MIN
CONNECTION TYPE: 6+PE
PORT CONNECTION: NG06 / CETOP 03
ELECTRONICS TYPE: Onboard
SPOOL POSITION: Operated in position a or b
SIGNAL INPUT: 0 - ± 10 (V)
SPOOL TYPE: Overlap
SPOOL DESIGN: Spool/sleeve
SPOOL CODE: E01H

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

MAXIMUM OPERATING TEMPERATURE	60 °C
DIVISION	Hydraulic Valve Systems Division Europe
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MAXIMUM OPERATING PRESSURE	350 bar
MINIMUM OPERATING TEMPERATURE	-25 °C
FOR FLUID TYPE	Hydraulic Oil
CONNECTION TYPE	Connector as per EN 175201-843
MEDIA	Hydraulic Oil
APPLICATION	Industrial Hydraulic

BRAND	Parker
TECHNOLOGY	Hydraulics
BODY MATERIAL	Cast Iron
PRODUCT SERIES	Proportional DC Valve
SEAL MATERIAL	NBR
WEIGHT	2.9 kg
MAXIMUM FLOW RATE	n/a
MOUNTING TYPE	Subplate
FUNCTION	3-way
VALVE TYPE	Proportional DC Valve
ACTUATION TYPE	Proportional
ACTUATION TYPE	Solenoid
OPERATION TYPE	Direct
LEAK RATE	< 50 ml/min
PORT CONNECTION	NG06 / CETOP 03
MOUNTING POSITION	Unrestricted
ELECTRONICS TYPE	Onboard
MAXIMUM AMBIENT TEMPERATURE	60 °C
MINIMUM AMBIENT TEMPERATURE	-20 °C
MAXIMUM FLUID TEMPERATURE	60 °C
MINIMUM FLUID TEMPERATURE	-25 °C
MAXIMUM KINEMATIC VISCOSITY	400 cSt
MINIMUM KINEMATIC VISCOSITY	20 cSt
INGRESS PROTECTION RATING	IP65 in accordance with EN 60529
FILTER EFFICIENCY RATING	ISO 4406; 18/16/13
HYSTERESIS	< 4 %

MOUNTING STYLE	ISO 4440
MOUNTING STYLE	DIN 24379
MOUNTING STYLE	CETOP RP160
MOUNTING STYLE	NFPA
PRESSURE DIFFERENTIAL	5 bar
POWER SUPPLY VOLTAGE	18...30, ripple < 5 % eff., surge free VDC