

Parker Product Datasheet



Parker's proven direct operated proportional DC valves series D1FB (NG06) / D3FB (NG10) are universally applicable, provide high repeatability and low hysteresis. The D1FB*EE with explosion proof solenoids allows the usage in hazardous environments.

PART NUMBER: D3FBE02SC0NKW0
SPOOL POSITION: Operated in position a or b
SOLENOID OPTION: 12 V / 2.95 A
PORT CONNECTION: NG10 / CETOP 05
SPOOL DESIGN: Spool/sleeve
SOLENOID CONNECTION: Connector as per EN 175301-803
FLOW RATE: 60 L/MIN
SPOOL TYPE: Overlap
SPOOL CODE: E02S

PRODUCT OVERVIEW

The direct operated valves D1FB (NG06) and D3FB (NG10) are universally applicable, provide high repeatability and low hysteresis for an improved process accuracy.

D1FB and D3FB represent Parker's experience in proportional DC valve technology. They are suitable for use in applications which require a speed control. Both 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. The parameters can be saved, changed and duplicated in combination with the digital power amplifier PWD00A-400.

The D1FB*EE series with explosion proof solenoids is based on the standard D1FB series. The

specific solenoid design allows the usage in hazardous environments. The explosion proof class is Ex e mb II T4 Gb for use in zone 1 and 2 (conform to ATEX). Additionally the solenoids have IECEx conformity.

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
- Manual override - allows to actuate the valve without current
- Low hysteresis - ensures high repeatability and thus improved process and product accuracy
- High level of dynamics and flows - optimized process speed
- Short delivery time - no storage necessary
- D1FB*EE only: optional coil to permit ambient temperature up to +60 °C, modification XG371

Applications:

- Suitable for various hydraulic applications
- Machine tool
- Tire presses

TECH SPECIFICATIONS

PRODUCT SERIES	Proportional DC Valve
BODY MATERIAL	Cast Iron
PRESSURE DIFFERENTIAL	5 bar
DIVISION	Hydraulic Valve Systems Division Europe
MINIMUM OPERATING TEMPERATURE	-20 °C
MINIMUM AMBIENT TEMPERATURE	-20 °C
MAXIMUM FLUID TEMPERATURE	60 °C
SEAL MATERIAL	NBR

ACTUATION TYPE	Solenoid
INGRESS PROTECTION RATING	IP65 in accordance with EN 60529
MINIMUM FLUID TEMPERATURE	-25 °C
LEAK RATE	< 100 ml/min
FOR FLUID TYPE	Hydraulic Oil According to DIN 51524 ... 535
HYSTERESIS	< 4 %
WEIGHT	6.5 kg
FUNCTION	3-way
MAXIMUM FLOW RATE	n/a
ACTUATION TYPE	Proportional
ELECTRONICS TYPE	External
MAXIMUM OPERATING PRESSURE	350 bar
MAXIMUM KINEMATIC VISCOSITY	400 cSt
MAXIMUM AMBIENT TEMPERATURE	60 °C
MINIMUM KINEMATIC VISCOSITY	20 cSt
FILTER EFFICIENCY RATING	ISO 4406; 18/16/13
MOUNTING POSITION	Unrestricted
MAXIMUM OPERATING TEMPERATURE	60 °C
OPERATION TYPE	Direct
MOUNTING TYPE	Subplate