

Parker Product Datasheet



Parker's proven standard performance pilot operated proportional DC valves series D*1FB are universally applicable and provide progressive flow characteristics for sensitive flow rate adjustment.

Also available as ex-proof version conform to ATEX.

PART NUMBER: D31FBE02CC1NJW0
FLOW RATE: 75 L/MIN
SEAL MATERIAL: NBR
PORT CONNECTION: NG10 / CETOP 05
SPOOL POSITION: Operated in position a or b
SOLENOID CONNECTION: EN 175301-803
PILOT INLET / DRAIN LOCATIONS: Internal / external
SOLENOID OPTION: 24 V / 1.1 A
PROTECTION MODE: Standard
SPOOL CODE: E02

PRODUCT OVERVIEW

Representing Parker's extensive experience in industrial hydraulics, the pilot operated proportional DC valves series D*1FB is universally applicable and feature progressive flow characteristics for sensitive flow rate adjustment. The standard performance valves have proven very successful in numerous applications all over the world. Series D*1FB is characterized by a solid design which ensures a long lifetime. It offers an excellent price-performance ratio and best conditions for an economic, reliable operation.

The pilot operated proportional directional control valves D*1FB are available in 4 sizes:
D31FB - NG10 (CETOP 05)

D41FB - NG16 (CETOP 07)

D91FB - NG25 (CETOP 08)

D111FB - NG32 (CETOP 10)

Series D*1FB*EE explosion proof

The D*1FB*EE with explosion proof solenoids is the ATEX certified version of the standard D*1FB series and equipped with IECEx compliant solenoids. It allows the usage in hazardous environments. The parameters can be saved, changed and duplicated in combination with the digital power amplifier PWD00A-400 (to be used in an explosion-proof cabinet or outside the hazardous area).

Markets:

- Industrial
- Machine tools
- Rubber & tire

Features/Benefits:

- Centre position monitoring optional
- Energy saving A-regeneration optional (not for ex-proof valves)
- Switchable hybrid version optional (not for ex-proof valves)
- Option for D*1FB explosion-proof: coil to permit ambient temperature up to +60 °C, modification XG371
- Proven design - ensures reliable operation
- Progressive flow characteristics - allows sensitive adjustment of flow rate
- High flow capacity - optimum efficiency in relation to valve size
- Excellent price-performance ratio - fast return of investment
- Short delivery time - no storage necessary

Applications:

- Machine tool
- General presses
- Tire presses

Technical specifications

The pilot operated proportional directional control valves series D*1FB work with barometric feedback of the main stage to the pressure reducing pilot valve. The pilot control pressure of 25 bar allows high flow rates at maximum stability.

The valve parameters can be saved, changed and duplicated in combination with the digital power amplifier PWD00A-400. The valve parameters can be edited with the common ProPxD

software.

The innovative integrated regenerative function into the A-line (optional) allows energy saving circuits for differential cylinders. The hybrid version can be switched between regenerative mode and standard mode at any time.

TECH SPECIFICATIONS

MAXIMUM OPERATING TEMPERATURE	60 °C
DIVISION	Hydraulic Valve Systems Division Europe
MAXIMUM OPERATING PRESSURE	350 bar
MINIMUM OPERATING TEMPERATURE	-25 °C
FOR FLUID TYPE	Hydraulic Oil According to DIN 51524 ... 535
BODY MATERIAL	Cast Iron
PRODUCT SERIES	Proportional DC Valve
SEAL MATERIAL	NBR
WEIGHT	8.6 kg
MAXIMUM FLOW RATE	n/a
FUNCTION	3-way
ACTUATION TYPE	Solenoid
ACTUATION TYPE	Proportional
OPERATION TYPE	Pilot
MOUNTING POSITION	Unrestricted
MOUNTING STYLE	Subplate