

Parker Product Datasheet



Setting standards for pilot operated on-/off valves in terms of functional limits and pressure drop, Parker's series D31DW, D31NW, D*1VW are suitable for practically any industrial application. Optionally available as ex-proof version.

PART NUMBER: D91VW001C4NJW3F
SEAL MATERIAL: NBR
MAXIMUM FLOW RATE: 700 L/min
BORE DIAMETER: 32 mm
SPOOL POSITION: 3 positions, spring offset in position 0, operated in position a or b
SPOOL CODE: 001
ADDITIONAL OPTIONS: Stroke adjustment side A and B
MARKING: Standard
PILOT INLET / DRAIN LOCATIONS: Internal/internal
INPUT VOLTAGE: 24 VDC
SOLENOID OPTION: Standard solenoid without options
PORT CONNECTION: NG25 / CETOP 08

PRODUCT OVERVIEW

Parker's robust and durable pilot operated directional control valves series D31DW, D31NW, D*1VW are almost universally applicable and ensure a reliable operation. A wide variety of spools and options allows to design an unlimited number of hydraulic circuits.

The pilot operated directional control valves are available in 4 sizes: D31DW (standard) and D31NW (high flow) in NG10/NFPA D05, D41VW in NG16/NFPA D07, D91VW (for port diameter up to 32 mm) in NG25/NFPA D08 and D111VW in NG32/NFPA D10.

All sizes are optionally available with position control or as explosion-proof version according to ATEX and IECEx.

Markets:

- Industrial

Features/Benefits:

- Proven robust design that represents our long-term experience in hydraulics
- Wide range of spools - suitable for almost all hydraulic circuits
- High functional limits – low forces resulting in safe operation also at high flow rates
- Low pressure drop – resulting in low energy losses in operation
- Short delivery time – no warehousing necessary
- Optionally with position control
- Optionally without manual override
- Optionally as explosion-proof version

Applications:

- Suitable for general hydraulic applications

Explosion-proof versions

The valves are not only ATEX certified (explosion proof class is Ex e mb II T4 Gb for use in zone 1 and 2) but also equipped with IECEx compliant solenoids which are certified in accordance with IECEx standard for equipment class 2 G. All explosion-proof solenoids are DC design. The valves for AC operate with integrated rectifier.

Note:

The minimum pilot pressure must be ensured for all operating conditions of the directional valve. Additionally spools with a P to T connection in the deenergized position need an external pressure supply (external inlet) or an integral check valve.

TECH SPECIFICATIONS

DIVISION	Hydraulic Valve Systems Division Europe
OPERATION TYPE	Pilot
CONNECTION TYPE	Connector as per EN 175301-803
FUNCTION	3-Way

BODY MATERIAL	Cast iron
ACTUATION TYPE	Solenoid
MAXIMUM OPERATING TEMPERATURE	60 °C
PRODUCT SERIES	Directional control valve
MAXIMUM OPERATING PRESSURE	350 bar
WEIGHT	18.6 kg
MAXIMUM FLOW RATE	700 L/min
MOUNTING TYPE	Subplate mounting
SEAL MATERIAL	NBR
FOR FLUID TYPE	Hydraulic oil according to DIN 51524
MINIMUM OPERATING TEMPERATURE	-25 °C