

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: D91VW021C4NJW
SEAL MATERIAL: NBR
MAXIMUM FLOW RATE: 700 L/min
INPUT VOLTAGE: 24 VDC
PORT CONNECTION: NG25 / CETOP 08
BORE DIAMETER: 32 mm
ADDITIONAL OPTIONS: na
SPOOL POSITION: 3 positions, spring offset in position 0, operated in position a or b
PILOT INLET / DRAIN LOCATIONS: Internal/internal
SOLENOID OPTION: Standard solenoid without options
MARKING: Standard
SPOOL CODE: 021

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

**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
CONNECTION TYPE	Connector as per EN 175301-803
BODY MATERIAL	Cast iron
PRODUCT SERIES	Directional control valve
SEAL MATERIAL	NBR
WEIGHT	18.6 kg
MAXIMUM FLOW RATE	700 L/min
MOUNTING TYPE	Subplate mounting
FUNCTION	3-Way
ACTUATION TYPE	Solenoid
OPERATION TYPE	Pilot