

# 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:** D41VW004C4NJW  
**PILOT INLET / DRAIN LOCATIONS:** Internal/internal  
**MARKING:** Standard  
**PORT CONNECTION:** NG16 / CETOP 07  
**MAXIMUM FLOW RATE:** 300 L/min  
**SOLENOID OPTION:** Standard solenoid without options  
**ADDITIONAL OPTIONS:** na  
**SPOOL POSITION:** 3 positions, spring offset in position 0, operated in position a or b  
**SPOOL CODE:** 004  
**BORE DIAMETER:** 20 mm  
**INPUT VOLTAGE:** 24 VDC  
**SEAL MATERIAL:** NBR

## 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

**SEAL MATERIAL** NBR

**MINIMUM OPERATING TEMPERATURE** -25 °C

**DIVISION** Hydraulic Valve Systems Division Europe

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| <b>MAXIMUM FLOW RATE</b>             | 300 L/min                            |
| <b>FUNCTION</b>                      | 3-Way                                |
| <b>CONNECTION TYPE</b>               | Connector as per EN 175301-803       |
| <b>BODY MATERIAL</b>                 | Cast Iron                            |
| <b>MAXIMUM OPERATING PRESSURE</b>    | 350 bar                              |
| <b>FOR FLUID TYPE</b>                | Hydraulic Oil According to DIN 51524 |
| <b>WEIGHT</b>                        | 10.3 kg                              |
| <b>MOUNTING TYPE</b>                 | Subplate                             |
| <b>MAXIMUM OPERATING TEMPERATURE</b> | 60 °C                                |
| <b>PRODUCT SERIES</b>                | Directional Control Valve            |
| <b>ACTUATION TYPE</b>                | Solenoid                             |
| <b>OPERATION TYPE</b>                | Pilot                                |