

# Parker Product Datasheet



The directional control valve series D1VW 8 Watt is based on the standard D1VW design. The low watt, low current solenoid (< 0.5 A) of this on/off valve allows a direct connection to a PLC.

**PART NUMBER:** D1VW020DVJDLJ5

**SEAL MATERIAL:** FPM

**FUNCTION:** Directional Control

**CONFIGURATION:** na

**SPOOL POSITION:** 2 positions, detent, operated in position a or b, no center position, no offset position

**SOLENOID CONNECTION:** M12x1 on coil as per IEC 61076-2-101

**ELECTRICAL PART OPTION:** M12 pin assignment DESINA design, pins 1 and 2 connected

**SPOOL CODE:** 020

## PRODUCT OVERVIEW

The directional control valve series D1VW 8 Watt in NG06 (CETOP 03 / NFPA D03) enables direct connections to a programmable logic controller (PLC) or a bus knot and thus saves the use of a relay. This on/off valve provides high functional limits up to 60 l/min in combination with a very low, energy-saving pressure drop due to optimized flow passages. The maximum pressure is 350 bar.

Markets:

- Industrial

Features/Benefits:

- Compact, proven design that represents our long-term experience in hydraulics

- Low pressure drop – resulting in low energy losses in operation
- Wide range of spools - fits all hydraulic systems
- Shortest lead time - no warehousing necessary

Applications:

- Machine tools

D1VW 8 Watt valves are offered with standard solenoid connection (as per EN175301-803) and M12 x 1 connection. The version with M12 x 1 connection and LEDs is conform to the DESINA standard (DistributEd and Standardised INStAllation technology) for machine tools and manufacturing systems.

## TECH SPECIFICATIONS

|                                      |                                         |
|--------------------------------------|-----------------------------------------|
| <b>MAXIMUM OPERATING TEMPERATURE</b> | 60 °C                                   |
| <b>DIVISION</b>                      | Hydraulic Valve Systems Division Europe |
| <b>MAXIMUM OPERATING PRESSURE</b>    | 350 bar                                 |
| <b>MINIMUM OPERATING TEMPERATURE</b> | -25 °C                                  |
| <b>FOR FLUID TYPE</b>                | Water-Glycol                            |
| <b>PRODUCT SERIES</b>                | Directional Control Valve               |
| <b>SEAL MATERIAL</b>                 | FPM                                     |
| <b>WEIGHT</b>                        | 1.5 kg                                  |
| <b>MAXIMUM FLOW RATE</b>             | 60 L/min                                |
| <b>MOUNTING TYPE</b>                 | Subplate                                |
| <b>FUNCTION</b>                      | 2-way                                   |
| <b>ACTUATION TYPE</b>                | Solenoid                                |
| <b>OPERATION TYPE</b>                | Direct                                  |
| <b>POWER CONSUMPTION</b>             | 8 W                                     |
| <b>INPUT VOLTAGE</b>                 | 24 VDC                                  |

|                                    |                         |
|------------------------------------|-------------------------|
| <b>PORT CONNECTION</b>             | NG06 / CETOP 03         |
| <b>CONFIGURATION</b>               | Directional spool valve |
| <b>MOUNTING POSITION</b>           | Preferably Horizontal   |
| <b>MOUNTING POSITION</b>           | Unrestricted            |
| <b>MAXIMUM AMBIENT TEMPERATURE</b> | 60 °C                   |
| <b>MINIMUM AMBIENT TEMPERATURE</b> | -25 °C                  |
| <b>MAXIMUM FLUID TEMPERATURE</b>   | 70 °C                   |
| <b>MINIMUM FLUID TEMPERATURE</b>   | -20 °C                  |
| <b>MAXIMUM KINEMATIC VISCOSITY</b> | 400 cSt                 |
| <b>MINIMUM KINEMATIC VISCOSITY</b> | 2.8 cSt                 |
| <b>FILTER EFFICIENCY RATING</b>    | ISO 4406; 18/16/13      |