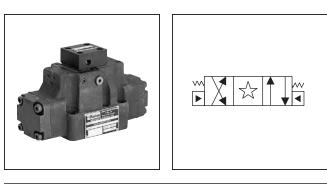
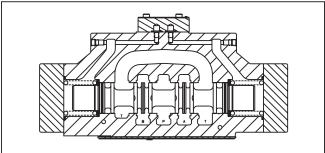
General Description

Series D4P directional control valves are 5-chamber pilot operated valves. They are available in 2 or 3-position styles. These manifod mounted valves conform to NFPA's D07, CETOP 7 and NG16.

Features

- Low pressure drop design.
- Hardened spools for long life.



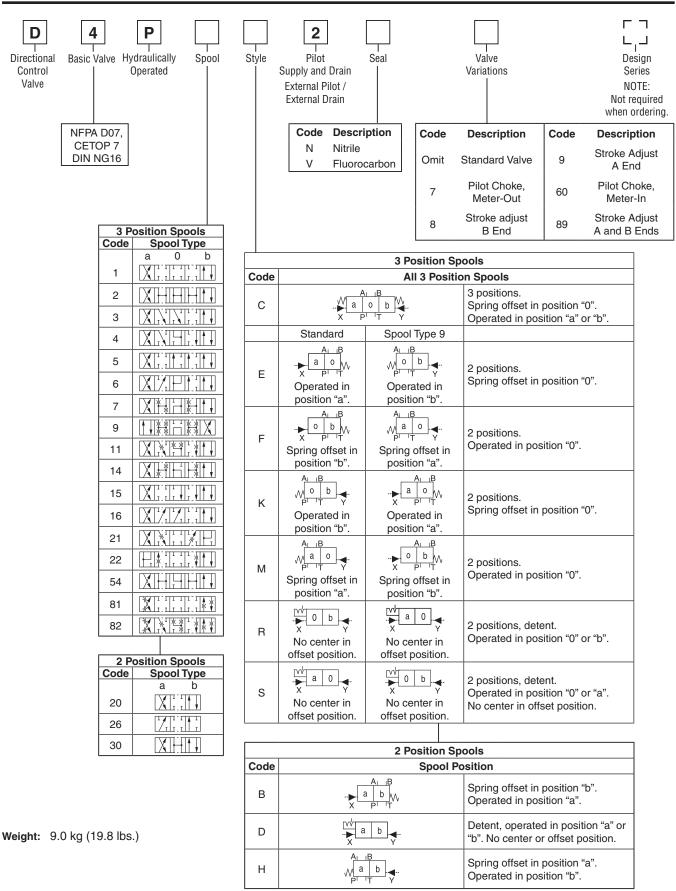


Specifications

| General | | | | | |
|---|--|--|--|--|--|
| Design | Directional spool valve | | | | |
| Actuation | Hydraulic | | | | |
| Size | NG16 | | | | |
| Mounting interface | DIN 24340 A16, ISO 4401, NFPA D07, CETOP RP 121-H | | | | |
| Mounting Position | Unrestricted, preferably horizontal | | | | |
| Ambient Temperature [°C] | -25+50 (-13°F+122°F) | | | | |
| MTTF _D value | 150 years | | | | |
| Hydraulic | | | | | |
| Maximum Operating Pressure | External Drain: P, A B, T 350 Bar (5075 PSI); X, Y 350 Bar (5075 PSI) | | | | |
| Fluid | Hydraulic oil in accordance with DIN 51524 / 51525 | | | | |
| Fluid Temperature [°C] | -25 +70 (-13°F+158°F) | | | | |
| Viscosity Permitted [cSt]/[mm²/s] | 2.8400 (131850 SSU) | | | | |
| Recommended [cSt]/[mm ² /s] | 3080 (139371 SSU) | | | | |
| Filtration | ISO 4406 (1999); 18/16/13 (meet NAS 1638: 7) | | | | |
| Maximum Flow | 300 LPM (79.4 GPM) | | | | |
| Leakage at 350 Bar (per flow path) [ml/min] | up to 200 (0.05 GPM) (depending on spool) | | | | |
| Pilot Supply Pressure Minimum | 5 Bar (73 PSI) | | | | |
| Maximum | 350 Bar (5075 PSI) | | | | |
| Static / Dynamic | | | | | |
| Step Response | The response times depend on the pilot oil pressure and on the speed of the increase/ decrease of the pilot pressure. | | | | |

D41.indd, dd





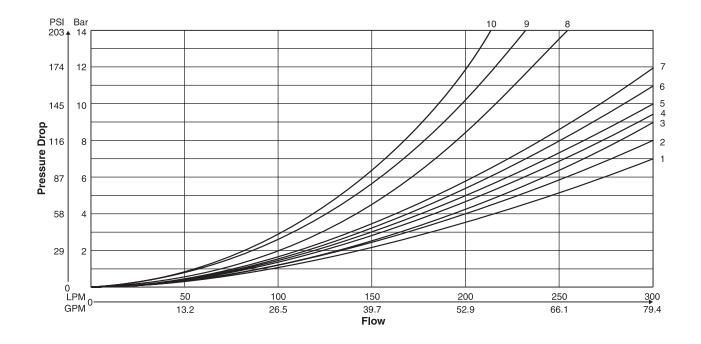
Further spool types and position control on request.

D41.indd, dd



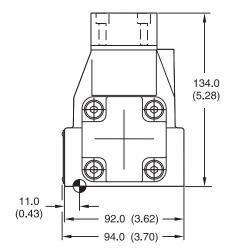
The flow curve diagram shows the flow versus pressure drop curves for all spool types. The relevant curve number for each spool type, operating position and flow direction is given in the table below.

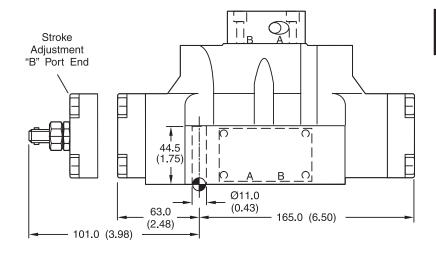
| Spool | Curve Number | | | | | | |
|-------|--------------|-----|-----|-----|-----|--|--|
| Code | P-A | P-B | P-T | A-T | B-T | | |
| 1 | 1 | 1 | - | 4 | 5 | | |
| 2 | 1 | 2 | 6 | 4 | 6 | | |
| 3 | 1 | 2 | - | 5 | 6 | | |
| 4 | 1 | 1 | - | 5 | 5 | | |
| 5 | 2 | 2 | - | 3 | 5 | | |
| 6 | 1 | 2 | - | 3 | 6 | | |
| 7 | 1 | 1 | 6 | 4 | 5 | | |
| 9 | 2 | 9 | 8 | 7 | 10 | | |
| 11 | 1 | 1 | - | 4 | 5 | | |
| 14 | 1 | 1 | 6 | 4 | 5 | | |
| 15 | 1 | 2 | - | 4 | 6 | | |
| 16 | 2 | 2 | - | 3 | 5 | | |
| 20 | 3 | 5 | _ | 3 | 5 | | |
| 21 | 2 | 8 | _ | 2 | _ | | |
| 22 | 8 | 2 | - | - | 3 | | |
| 26 | 3 | 5 | _ | | - | | |
| 30 | 2 | 3 | _ | 6 | 7 | | |
| 54 | 2 | 3 | _ | 6 | 7 | | |





Inch equivalents for millimeter dimensions are shown in (**)





| Surface Finish | 🗦 🛄 Kit | E F | 27 | Seal 🔘 Kit |
|-----------------------------------|---------|---------------------------------------|---|---|
| √R _{max} 6.3 ↓ □0.01/100 | BK320 | 4x M10x60 2x M6x55 DIN 912 12.9 | 63 Nm (46.5 lbft.) 13.2 Nm (9.7 lbft.) ±15% | Nitrile: SK-D41VW-N-91 Fluorocarbon: SK-D41VW-V-91 |

D41.indd, dd



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