

DPCE.S10 VALVE SERIES

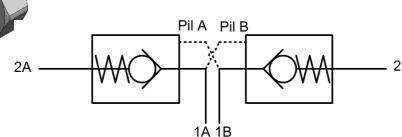
Hybrid SAE10 Cartridge - 450 bar

Direct acting check valve

Pilot piston to open



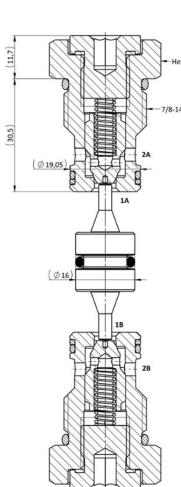
HYDRAULIC SYMBOL



DESCRIPTION

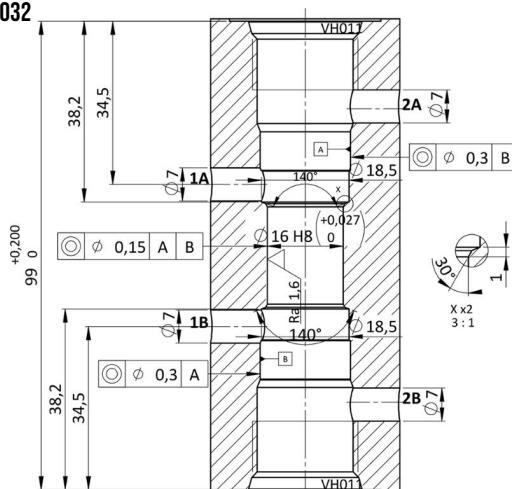
Normally closed, dual pilot check valve. Cartridge is closed until sufficient pressure is applied on port 1 to reach the bias spring setting, lift the poppet and allow free flow to port 2. The valve is normally closed from port 2 to 1. When sufficient pressure is applied on Pilot Port, the pilot piston lifts the poppet from its seat and allows flow from port 2 to port 1 (Pil A = 1B, Pil B = 1A). Very limited leakage in the check condition.

CROSS SECTION

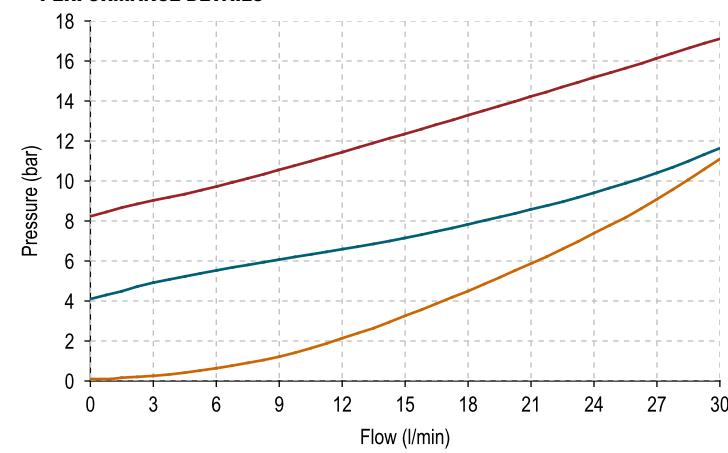


CAVITY

VH032



PERFORMANCE DETAILS



NOTE

The performance chart illustrates flow handling capacity for significant spring options.
p/Q curves are recorded at $T_{Oil} = 40^\circ C$ and 46 cSt.

LEGEND

- Spring B
- Spring G
- 2vs1 Piloted

TECHNICAL DATA

| | |
|----------------------------------|---|
| MAXIMUM OPERATING PRESSURE | 450 bar |
| MAXIMUM FLOW | 30 l/min |
| MAXIMUM INTERNAL LEAKAGE | 0,10 cm ³ / min @ 10 bar 0,10 cm ³ / min @ 450 bar |
| PILOT RATIO | 7:1 |
| EXTERNAL COMPONENT TREATMENT | Zn/Ni (720h) |
| O-RING TEMPERATURE RANGE | -30° C to 110° C (standard sealing NBR - BUNA - N) -35° C to 140° C (HNBR - Upon customer request) -23° C to 225° C (FKM - Upon customer request) |
| OIL TEMPERATURE RANGE | -30° C to 110° C |
| FLUIDS | Mineral - based or synthetics with lubricating properties |
| VISCOSITIES | 7,4 to 420 cSt |
| FILTRATION | 20/18/15 ISO 4406 (maximum filtration admitted) |
| ORIENTATION | No restrictions |
| INSTALLATION TORQUE | 80-85 Nm Hex.27 |
| TECH. SPEC. FOR CHARACTERIZATION | see page 811 |
| OIL TESTING CONDITIONS | ISO VG 46 cSt |
| SEAL KIT CODE | SK.158 (standard sealing NBR-BUNA-N) |
| WEIGHT | 0,250 kg |

ORDERING CODE

D P C E

VALVE BASIC CODE

S 1 0

0 *

0 0 0

000 = Standard configuration.

MARKING
0 = Standard factory marking.
Customized marking can be done upon request.

SIZE
7/8-14 UNF with Ø19,05 nose size

BIAS SPRING OPTIONS

| Spring model code | Cracking pressure (bar) |
|-------------------|-------------------------|
| B | 4,5 |
| G | 8,5 |

Specifications may change without notice.