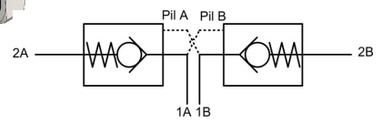
# DPC5.S10 VALVE SERIES

**Hybrid SAE10 Cartridge - 350 bar**

**Direct acting check valve**

**Pilot piston to open**

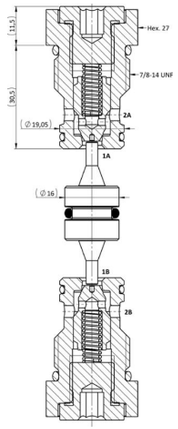
## HYDRAULIC SYMBOL




## DESCRIPTION

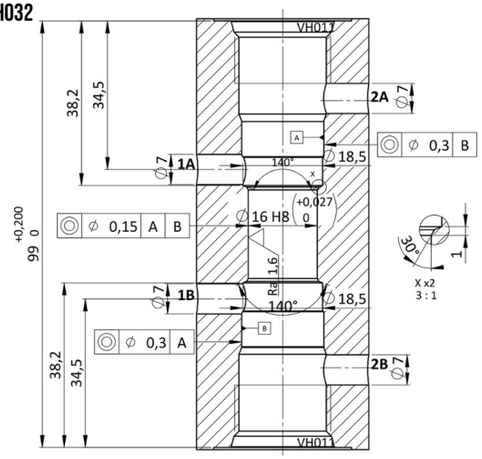
Normally closed, dual pilot check valve. Cartridge is closed until sufficient pressure is applied on port 1 to reach the bias spring setting, lift the poppet and allow free flow to port 2 . The valve is normally closed from port 2 to 1. When sufficient pressure is applied on Pilot Port , the pilot piston 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

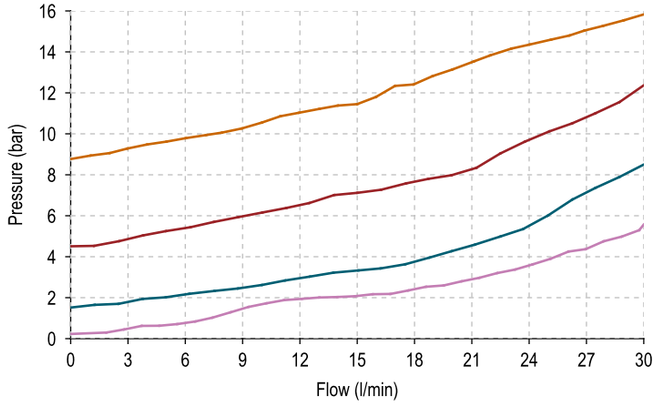



## CAVITY

VH032




## PERFORMANCE DETAILS




**NOTE**

The performance chart illustrates flow handling capacity for significant spring options.
p/Q curves are recorded at TOil = 40°C and 46 cSt.

**LEGEND**

- Spring N
- Spring B
- Spring G
- 2vs1 Piloted

## TECHNICAL DATA

| | |
|---|---|
| MAXIMUM OPERATING PRESSURE | 350 bar |
| MAXIMUM FLOW | 30 l/min |
| MAXIMUM INTERNAL LEAKAGE | 0,10 $cm^3$ / min @ 10 bar<br>0,10 $cm^3$ / min @ 350 bar |
| PILOT RATIO | 7:1 |
| EXTERNAL COMPONENT TREATMENT | Zn/Fe - standard (96h)<br>Zn/Ni (720h) (Upon customer request) |
| O-RING TEMPERATURE RANGE | -30° C to 110° C (standard sealing NBR - BUNA - N)<br>-35° C to 140° C (HNBR - Upon customer request)<br>-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.155 (standard sealing NBR-BUNA-N) |
| WEIGHT | 0,255 kg |

## ORDERING CODE

| D | P | C | 5 | · | S | 1 | 0 | · | 0 | * | · | 0 | 0 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**VALVE BASIC CODE**

**OPTIONS**

5 = Standard configuration

4 = Without O-Ring on the pilot piston

**SIZE**

7/8-14 UNF with Ø19,05 nose size

**MARKING**

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

000 = Standard configuration.

**BIAS SPRING OPTIONS**

| Spring model code | Cracking pressure (bar) |
|---|---|
| N | 1,5 |
| B | 4,5 |
| G | 8,5 |

Specifications may change without notice.