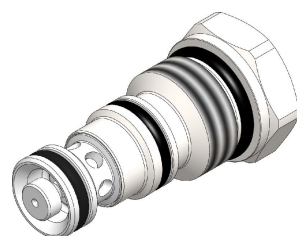
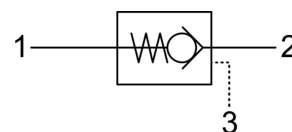


# PCRO.S08 VALVE SERIES

SAE Cartridge - 350 bar  
Direct acting check valve  
Pilot piston to open



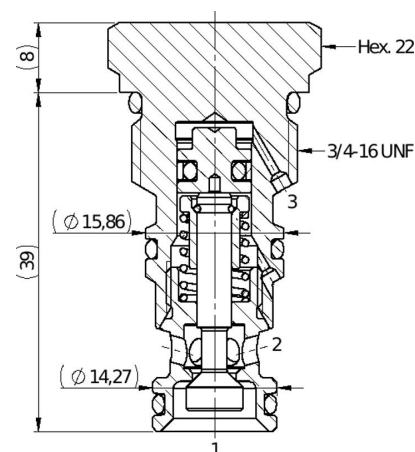
## HYDRAULIC SYMBOL



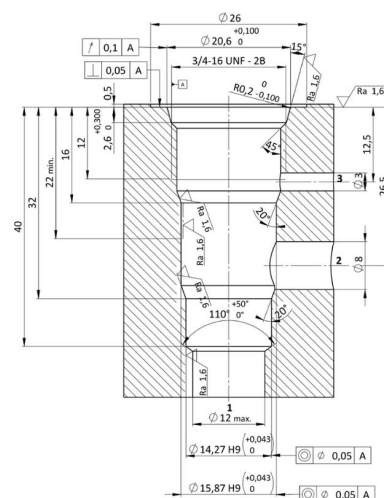
## DESCRIPTION

Cartridge style, normally closed, single pilot check valve. Cartridge is closed until sufficient pressure is applied on port 2 to reach the bias spring setting, lift the poppet and allow free flow to 1. The valve is normally closed from 1 to 2. When sufficient pressure is applied on port 3, the pilot piston lifts the poppet from its seat and allows flow from 1 to 2. Very limited leakage in the check condition.

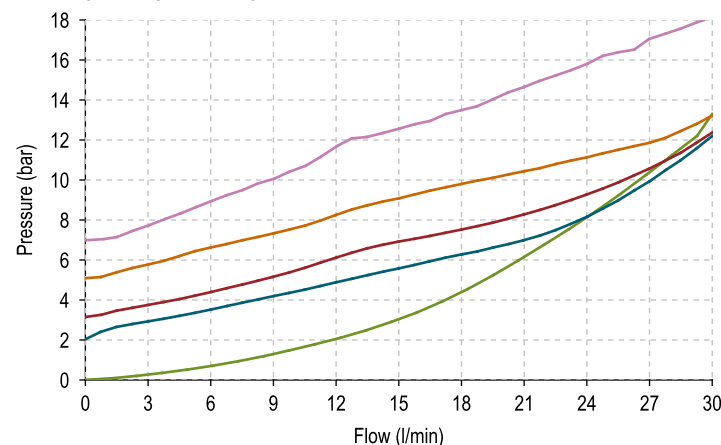
## CROSS SECTION



## CAVITY SAE08-1



## 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 Y — 1vs2 Piloted  
— Spring N  
— Spring B  
— Spring G

## TECHNICAL DATA

MAXIMUM OPERATING PRESSURE	350 bar
MAXIMUM FLOW	30 l/min
MAXIMUM INTERNAL LEAKAGE	0,10 cm <sup>3</sup> / min @ 10 bar 0,10 cm <sup>3</sup> / min @ 350 bar
PILOT RATIO	3:1
EXTERNAL COMPONENT TREATMENT	Zn/Fe - standard (96h) Zn/Ni (720h) (Upon customer request)
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	40-45 Nm  Hex.22
TECH. SPEC. FOR CHARACTERIZATION	see page 811
OIL TESTING CONDITIONS	ISO VG 46 cSt
SEAL KIT CODE	SK.047 (standard sealing NBR-BUNA-N)
WEIGHT	0,075 kg

## ORDERING CODE

**P C R O**

VALVE BASIC CODE

**S 0 8**

MARKING

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

SIZE

3/4-16 UNF with Ø15,86 and Ø14,27 nose sizes

BIAS SPRING OPTIONS

Spring model code	Cracking pressure (bar)
Y	2,0
N	3,0
B	5,0
G	7,0

000 = Standard configuration.