



# Pilot Check Valves

## PC.R0.M20 Valve Series

### Hybrid SAE10 Cartridge - 350 Bar

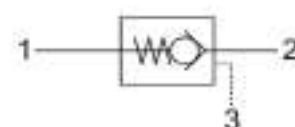
#### Direct acting check valve

#### Pilot piston to open



#### Description & Operation

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 2. The valve is normally closed from 2 to 1. When sufficient pressure is applied on port 3, the pilot piston lifts the poppet from its seat and allows flow from 2 to 1. Very limited leakage in the check condition



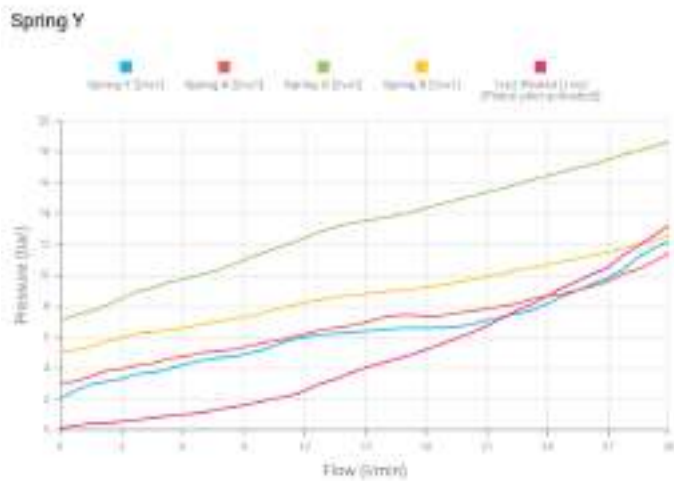
Hydraulic Symbol



#### Technical Data

Maximum operating pressure	350 Bar
Maximum flow	30 LPM
Maximum internal leakage	0.10 cm <sup>3</sup> / min @ 10 Bar 0.10 cm <sup>3</sup> / min @ 420 Bar
Pilot Ratio	3.9:1
External component treatment	Zn/Fe - standard (96h) Zn/Ni (720h)
O-ring Temperature Range	-30° C to 110° C (standard sealing NBR - BUNA-N)
Oil Temperature Range	-30° C to 110° C
Fluids	Mineral - based or synthetics with lubricating properties
Viscosities	7.4 to 20 cSt
Filtration	20/18/15 ISO 4406 (maximum filtration admitted)
Orientation	No restrictions
Installation torque	40-45- 24 Nm
Oil testing condition	ISO VG 46 cSt
Seal kit code	SLKT.0104
Weight	0.77kg

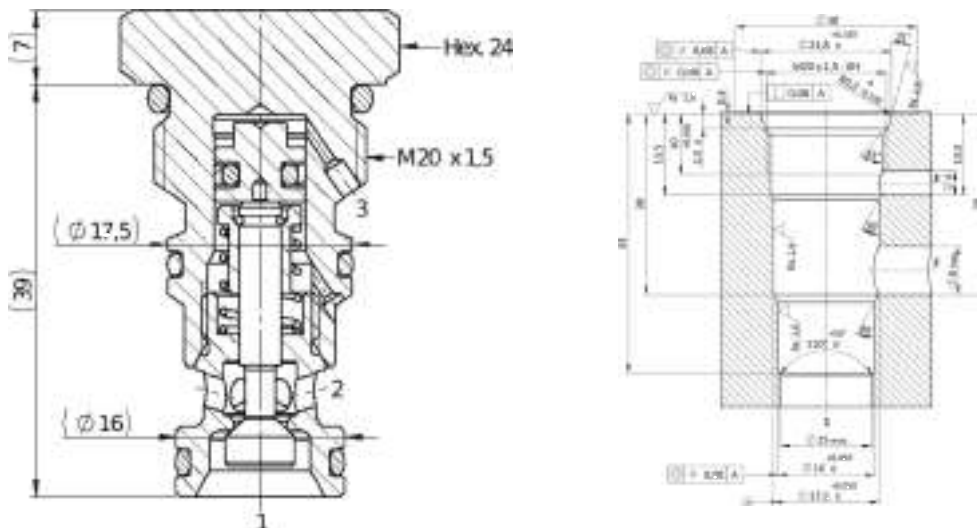
**Performance Curve**



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

**Dimensional Drawing**

**Cross Section and Cavity Details**



**Ordering Code**

**P** | **C** | • | **R** | **0** | • | **S** | **1** | **0** | • | **0** | **\*** | • | **0** | **0** | **0**

valve basic code      Cavity M20 = 7/8 - 14 UNF with  $\varnothing 15.86$  nose size      Marking 0 = standard factory marking. customized marking can be done upon request      000 = standard configuration

**Options**  
B=Without O-Ring on the pilot piston

**Bias spring**

Spring model Code	Cracking Pressure (Bar)	Spring model Code	Cracking Pressure (Bar)
Y	0.5	P	5.0
N	1.0	G	8.0
S	2.5	V	9.0
B	3.0		