

Part number:

**093-10255a**

**HYDROMA**

HYDRAULICKÉ SYSTÉMY

**HIDROMA  
SYSTEMS**

UKŁADY HYDRAULICZNE

**HYDROMA**

ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

61 260/107 ED



# PBM3

## BACKPRESSURE VALVE

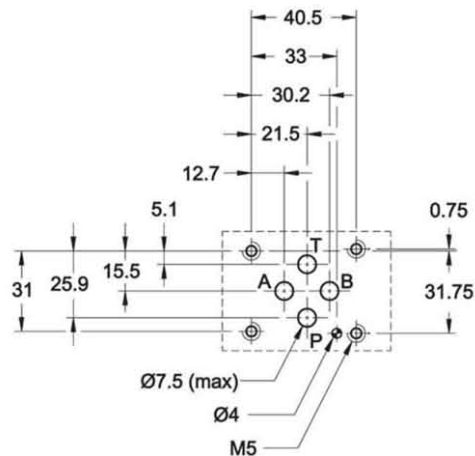
### SERIES 10

**MODULAR VERSION**  
**ISO 4401-03 (CETOP 03)**

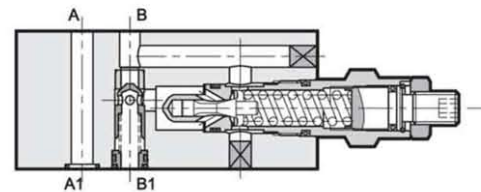
**p** max 350 bar  
**Q** max (see table of performances)

#### MOUNTING INTERFACE

ISO 4401-03-02-0-94  
CETOP 4.2-4-03-350



#### OPERATING PRINCIPLE

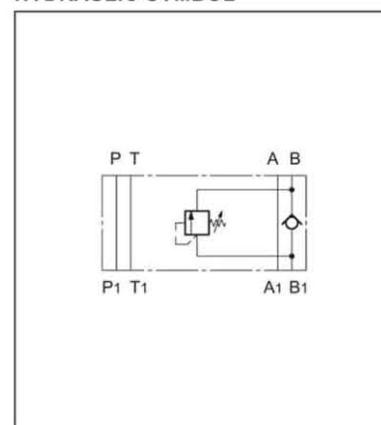


- The valve PBM3 is a direct operated three-way pressure regulator, developed as a modular version with mounting surface according to the ISO 4401 (CETOP RP121H) standards.
- Its aim is to adjust the output backpressure coming from the actuator, so as to allow the input free flow.
- It is normally used on vertically mounted cylinders where the cancellation of a load weighting on the rod of the same cylinder is needed.

#### PERFORMANCES (measured with mineral oil of viscosity 36cSt at 50°C)

Maximum operating pressure	bar	350
Check valve cracking pressure	bar	3,5
Max. flow on check valve B→B1 ( $\Delta p$ 8 bar)	bar	50
Maximum flow rate in controlled line B1→B	l/min	50
Maximum flow rate in the free lines P, A, T		75
Ambient temperature range	°C	-20 / +50
Fluid temperature range	°C	-20 / +80
Fluid viscosity range	cSt	10 + 400
Fluid contamination degree	According to ISO 4406:1999 class 20/18/15	
Recommended viscosity	cSt	25
Mass:	kg	1,6

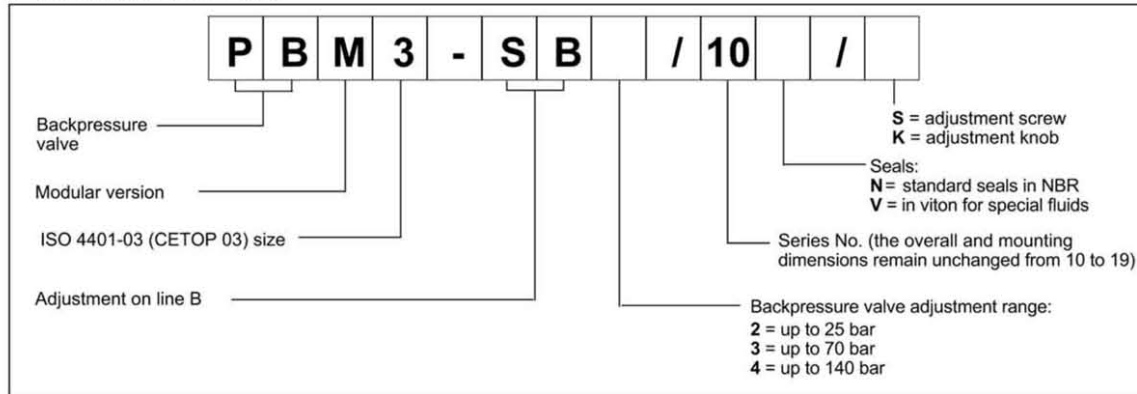
#### HYDRAULIC SYMBOL



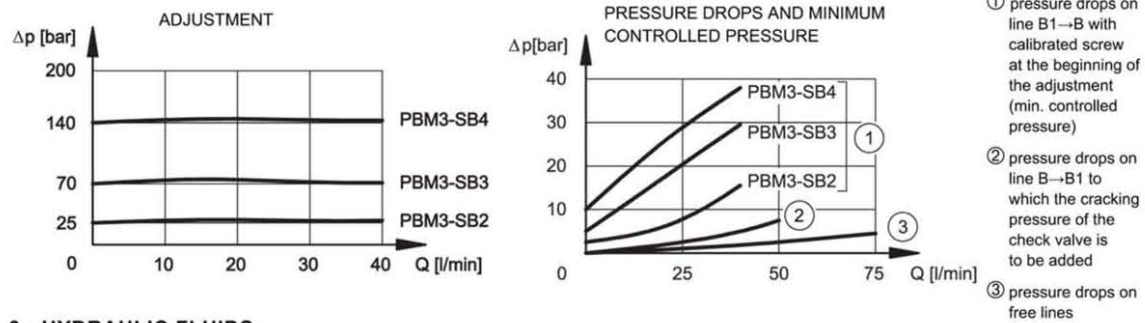
# PBM3

## SERIES 10

### 1 - IDENTIFICATION CODE



### 2 - CHARACTERISTIC CURVES (values obtained with viscosity of 36 cSt at 50°C)



### 3 - HYDRAULIC FLUIDS

Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals. For fluids HFDR type (phosphate esters) use FPM seals (code V). For the use of other kinds of fluid such as HFA, HFB, HFC, please consult our technical department. Using fluids at temperatures higher than 80 °C causes a faster degradation of the fluid and of the seals characteristics. The fluid must be preserved in its physical and chemical characteristics.

### 4 - OVERALL AND MOUNTING DIMENSIONS

