Part number:

HYDROMA

HYDROMA

HYDRAULIC SYMBOL

ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ UKŁADY HYDRAULICZNE

HYDRAULICKÉ SYSTÉMY



VMP.10...

CMP.10...

CH. V PAGE 19

VMP.10 MAXIMUM / DIRECT PRESSURE VALVES

IN LINE MOUNTING

The maximum pressure valves VMP10 are direct actions units.

Their use is essential for the limitation of hydraulic system pressure. In order to achieve more convenient calibration adjustment the whole pressure range (2÷320 bar) has been subdivided into 3 smaller bands, as shown in the ordering part number table. For each pressure band a different calibration spring is used, selected for the corresponding minimum operating pressure. The CMP10 cartridge is of direct acting type.

for the systems where they are used:

blocked at a fixed opening value.

These direct action valves offer 2 important safety features

1) A mechanical end of stroke stop prevents the user from setting pressure value higher than those specified in the catalogue (it is impossible to compress the spring com-

2) In order to prevent temporary closure of port P in case of high pressure peaks, the adjustment pin is mechanically

8	Max. pressure			320 bar
	Setting ranges:	Sprin	g 0	max. 30 bar
		Sprin	g 1	max. 50 bar
		Sprin	g 2	max. 150 bar
8		Sprin	g 3	max. 320 bar
5	Max. flow			40 I/min
5	Hydraulic fluids		minera	al oils DIN 51524
	Fluid viscosity			$10 \div 500 \text{ mm}^2/\text{s}$
	Fluid temperature			-25°C ÷ 75°C
	Ambient temperatur			-25°C ÷ 60°C
8	Max. contamination	level	class	10 in accordance
	with NAS 1638 with filter B ₂₅ ≥75			
	Weight			0,8 Kg
	 The minimum permissible setting pressure 			

depending on the spring: see curves below

ORDERING CODE

VMP

Max. pressure valve

10

Connector size: 3/8" BSP

*

*

Type of adjustment

M = Steel knob

C = Grub screw

V = Handwheel

Setting ranges

0 = max. 30 bar (without col.)

1 = max. 50 bar (white spring)

2=max. 150 bar (yellow spring)

3 = max. 320 bar (green spring)

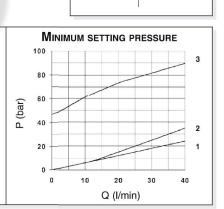
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Serial No.

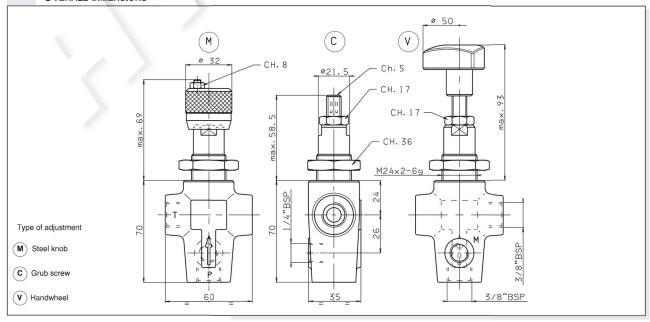
2

00 = No variant V1 = Viton

PRESSURE - FLOW 360 320 280 240 200 (bar) 160 2 Д 120 80 40 20 25 10



OVERALL DIMENSIONS





VMP.20...

CMP.20... Ch. V PAGE 20

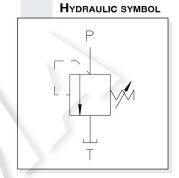
VMP.20 MAXIMUM / DIRECT PRESSURE VALVES

IN LINE MOUNTING

The maximum pressure valves VMP20... are direct action units. Their use essential for the limitation of hydraulic system pressure. In order to achieve a more convenient calibration adjustment the whole pressure range (2÷250 bar) has been subdivided into 3 smaller bands, as shown in the ordering part number table. For each pressure band, a different calibration spring is used, selected for the corresponding minimum operating pressure. The CMP20 cartridge is of direct acting type.

Max. pressure 250 bar max. 30 bar Setting range: Spring 1 Spring 2 max. 140 bar Spring 3 max. 250 bar Max. flow 80 I/min Mineral oils DIN 51524 Hydraulic fluids Fluid viscosity 10 ÷ 500 mm²/s Fluid temperature -25°C ÷ 75°C ambient temperature -25°C ÷ 60°C Max. contamination level class 10 in accordance with NAS 1638 with filter $B_{25} \ge 75$

• The minimum permissible setting pressure depending on the spring: see curves below



ORDERING CODE

VMP

Max. pressure valve

20

Connector size: 1/2" BSP

*

Type of adjustment

M = Steel knob

C = Grub screw

V = Handwheel

*

Setting ranges

1 = max. 30 bar (white spring)

2=max. 140 bar (yellow spring)

3 = max. 250 bar (green spring)

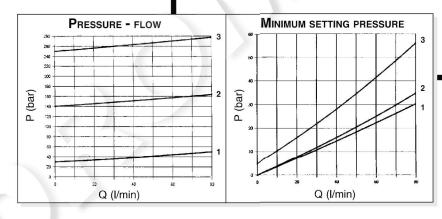
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2

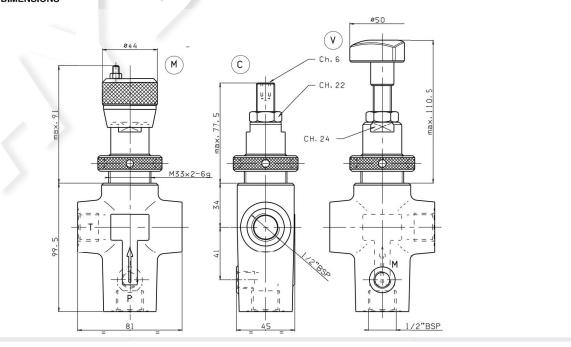
00 = No variant

V1 = Viton

Serial No.



OVERALL DIMENSIONS



Type adjustment

M Steel knob

C Grub screw

(V) Handwheel



VMP.30...

CMP.30... Ch. V page 21

ORDERING CODE

VMP

Max. pressure valve

30

Connector size: 3/4" BSP

*

Type of adjustment

M = Steel knob

C = Grub screw

V = Handwheel

*

Setting ranges

1 = max. 50 bar (white spring)

2=max. 140 bar (yellow spring)

3 = max. 350 bar (green spring)

**

2

00 = No variant

V1 = Viton

Serial No.

VMP.30 MAXIMUM PRESSURE / PILOTED VALVES

IN LINE MOUNTING

The maximum pressure valves VMP30... are piloted action units. Their use is essential for the limitation

of hydraulic system pressure. In order to achieve a more convenient calibration adjustment the whole pressure range (7÷350 bar) has been subdivided into 3 smaller bands, as shown in the ordering part number table.

For each pressure band a different calibration spring is used, selected for the corresponding minimum operating pressure. The CMP30 cartridge is a piloted action unit.

These piloted action valves offer ar important safety feature for the systems in which they are used: a mechanical end of stroke stop prevents the user from setting pressure values higher than those specified in the catalogue (it is impossible to compress the spring completely).

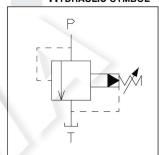
350 bar Max. operating pressure max. 50 bar Setting ranges: Spring 1 Spring 2 max. 140 bar max. 350 bar Spring 3 Max. flow 100 l/min Mineral oils DIN 51524 Hydraulic fluids Fluid viscosity $10 \div 500 \text{ mm}^2/\text{s}$ Fluid temperature -25°C ÷ 75°C Ambient temperature -25°C ÷ 60°C

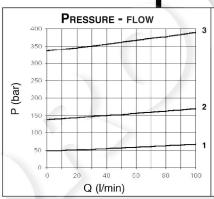
Max. contamination level class 10 in accordance with NAS 1638 with filter $\beta_{25} \ge 75$

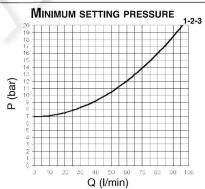
• The minimum permissible setting pressure is

the same for all springs: see curve below

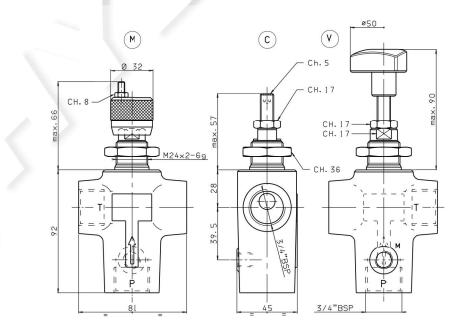
HYDRAULIC SYMBOL







OVERALL DIMENSIONS



Type of adjustment

M Steel knob

C Grub screw

(V) Handwheel