



**DUPLOMATIC**  
HYDRAULICS

65 300/104 ED

# VR4M

## DIRECT CHECK VALVE SERIES 50



### MODULAR VERSION

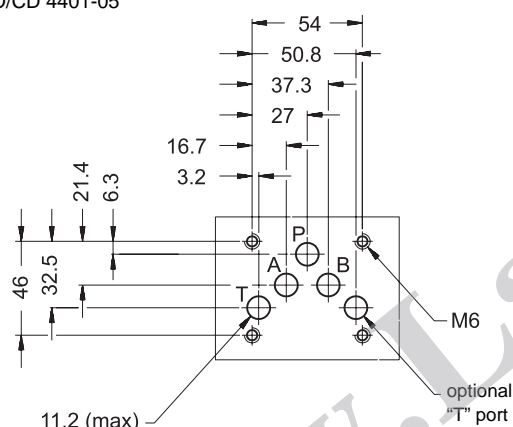
#### CETOP 05

**p max 320 bar**

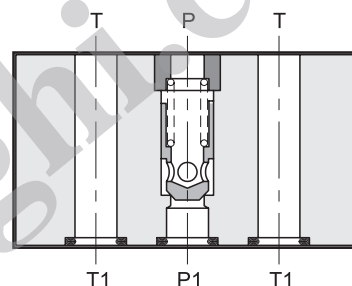
**Q max 100 l/min**

### MOUNTING INTERFACE

CETOP 4.2-4-05-320  
ISO/CD 4401-05



### OPERATING PRINCIPLE



- The VR4M valve is a check valve made as a modular version with mounting surface according to the CETOP and ISO standards.
- It is used to avoid oil return flows, spontaneous emptying of the lines or when the generation of back pressure is desired.
- It can be assembled quickly under the CETOP 05 directional solenoid valves without use of pipes, using suitable tie-rods or bolts.
- It is available in two versions with check valve on line P or T.

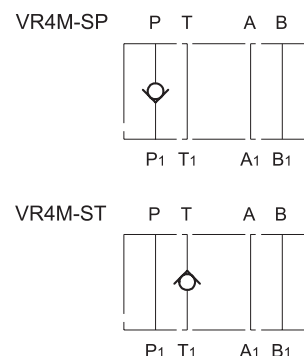
### CONFIGURATIONS (see Hydraulic symbols table)

- VR4M-SP: check valve on line P.
- VR4M-ST: check valve on line T.

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

Maximum operating pressure	bar	320
Check valve cracking pressure	bar	0,5 - 8
Maximum flow rate in the controlled lines and in the free lines	l/min	100
Ambient temperature range	°C	-20 ÷ +50
Fluid temperature range	°C	-20 ÷ +80
Fluid viscosity range	cSt	10 ÷ 400
Recommended viscosity	cSt	25
Degree of fluid contamination	According to NAS 1638 class 10	
Mass	kg	2,3

### HYDRAULIC SYMBOLS





# VR4M

## SERIES 50

### 1 - IDENTIFICATION CODE

V	R	4	M	-	/	50	/
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Check valve \_\_\_\_\_

CETOP 05 size \_\_\_\_\_

Modular version \_\_\_\_\_

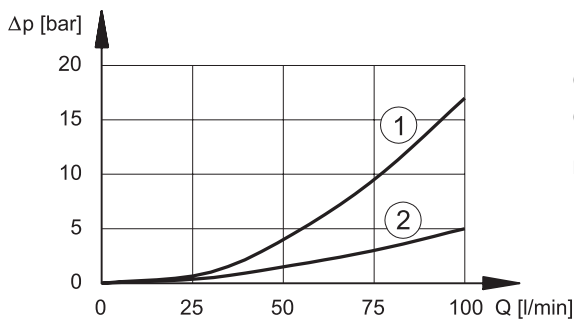
Cracking pressure: \_\_\_\_\_  
1 = 0,5 bar    4 = 8 bar

Seals:  
omit for mineral oils  
V = viton for special fluids

Series No. (the overall and mounting dimensions remain unchanged from 50 to 59)

SP = check valve on line P  
ST = check valve on line T

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

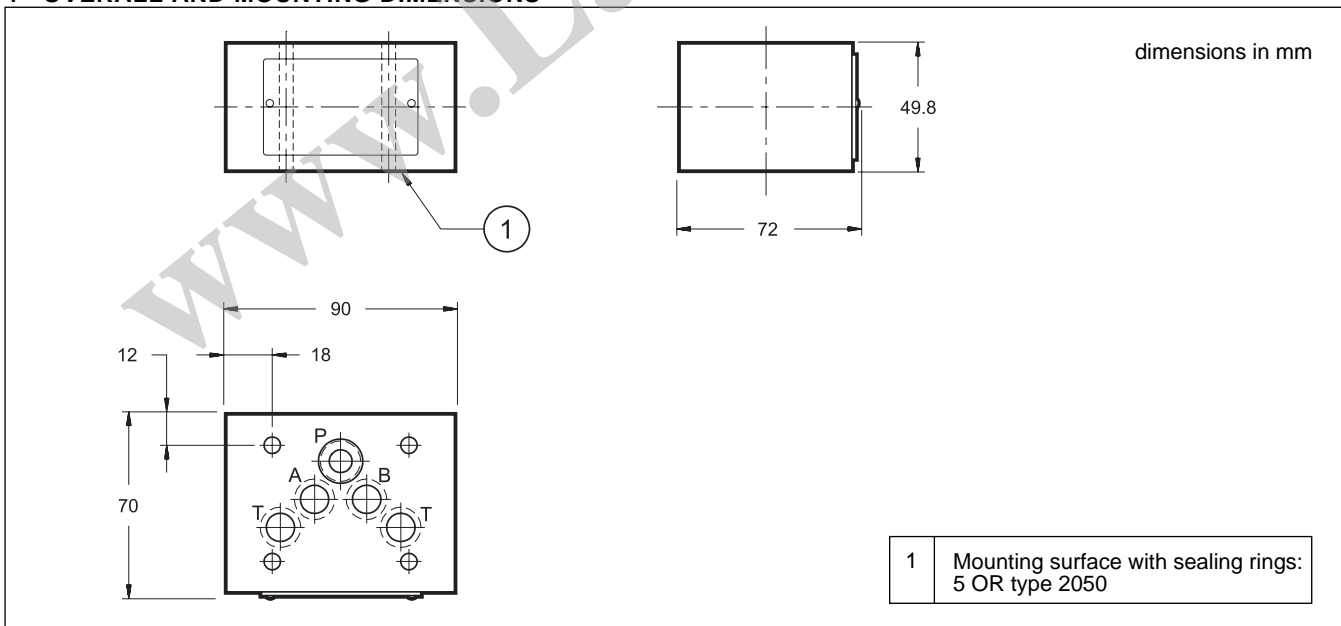


**NOTE:** Add the valve cracking pressure to the values shown by the curve ① of the diagram

### 3 - HYDRAULIC FLUIDS

Use mineral oil-based hydraulic fluids, with the addition of suitable anti-frothing and anti-oxidizing agents.  
For the use of other types (water glycol, phosphate esters and others), please consult our technical department.

### 4 - OVERALL AND MOUNTING DIMENSIONS



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