

Part number:

**096-10295**

**HYDROMA**

HYDRAULICKÉ SYSTÉMY

**HIDROMA  
SYSTEMS**

UKŁADY HYDRAULICZNE

**HYDROMA**

ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ



# RPC\*\* T3

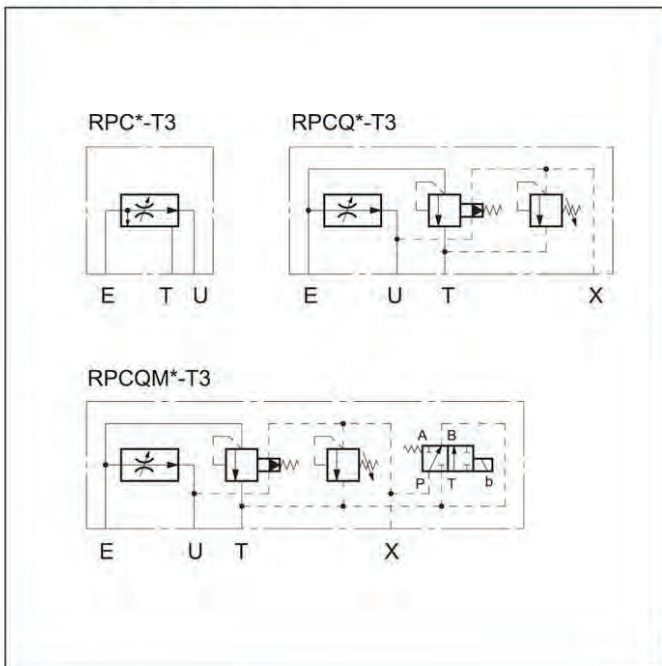
## PRESSURE AND TEMPERATURE COMPENSATED THREE-WAY FLOW CONTROL VALVES

### SUBPLATE MOUNTING

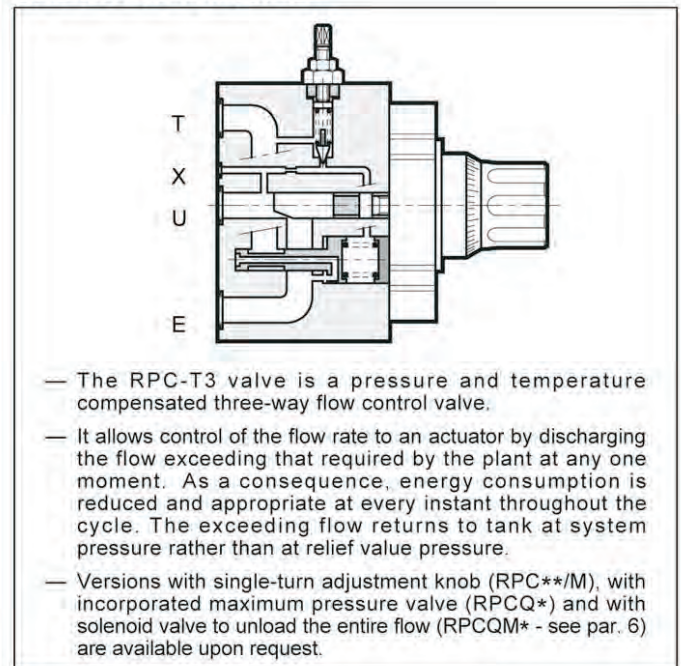
RPC 2-T3 CETOP 06

RPC 3-T3 CETOP 07

### HYDRAULIC SYMBOLS



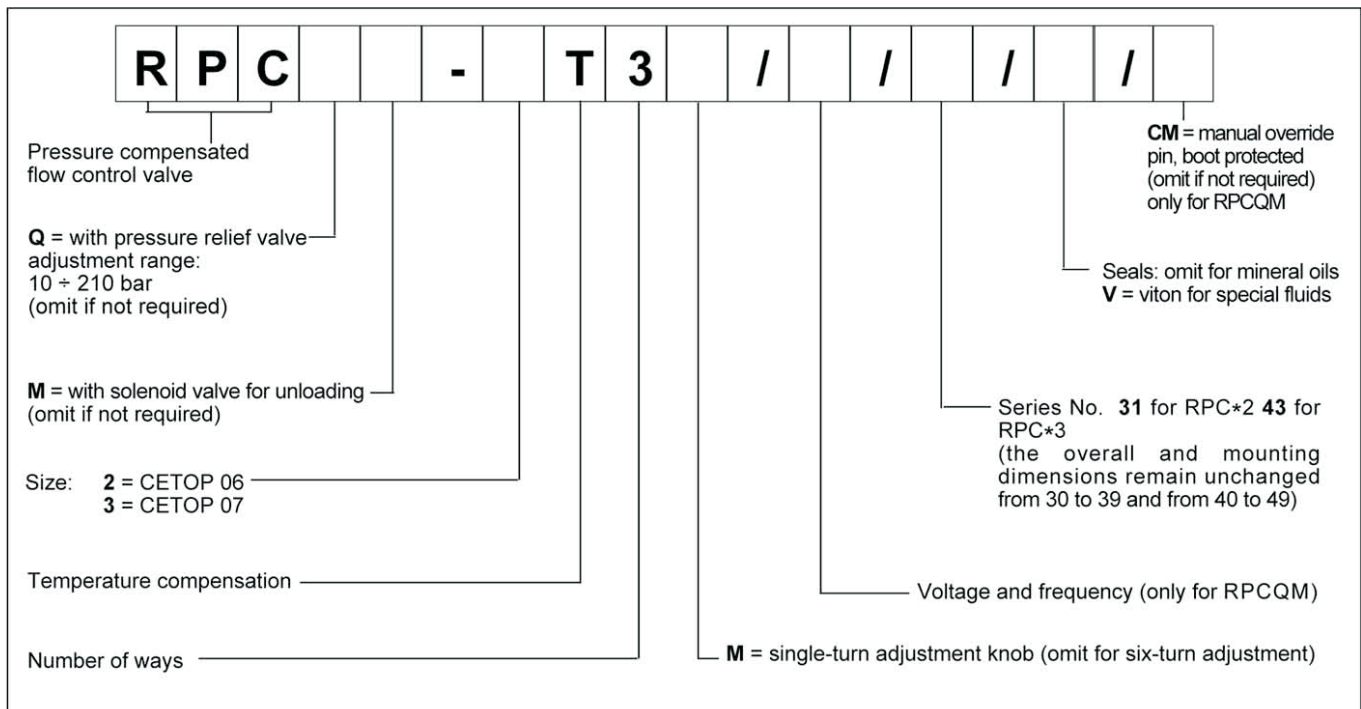
### OPERATING PRINCIPLE



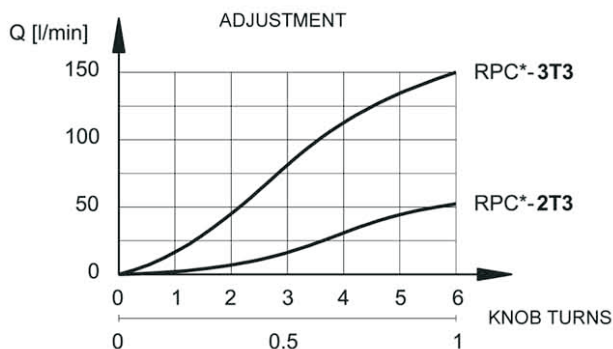
PERFORMANCE RATINGS (obtained with mineral oil with viscosity of 36 cSt at 50°C)		RPC*2-T3	RPC*3-T3
Maximum operating pressure	bar	320	250
Minimum pressure difference between E and U	bar	10	12
Maximum controlled flow rate	l/min	50	150
Minimum controlled flow rate	l/min	0,060	0,130
Ambient temperature range	°C	-20 ÷ +50	
Fluid temperature range	°C	-20 ÷ +70	
Fluid viscosity range	cSt	2,8 ÷ 380	
Recommended filtration	µm absolute	≤ 25	
Recommended filtration for < 0,5 l/min flow rates	µm absolute	≤ 10	
Recommended viscosity	cSt	25	
Mass	kg	4,7	9

# RPC\*-\*T3

## 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, 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 - PRESSURE COMPENSATION

Two throttles in series are in the valve. The first is an opening regulated by the knob; the second, piloted by the pressure upstream and downstream of the first throttle, assures a constant pressure drop across the adjustable throttle. In these conditions, the set flow rate value stays constant within a tolerance range of ± 3% of the the maximum flow controlled by the valve for maximum pressure variation between the intake and outlet chambers of the valve.

## 5 - TEMPERATURE COMPENSATION

A device located on the first throttle which is sensitive to the temperature fluctuations corrects the position keeping the controlled flow more or less unaltered even should the oil viscosity change.

The fluctuation of the set flow rate stays within ± 2,5% of the maximum flow controlled by the valve.

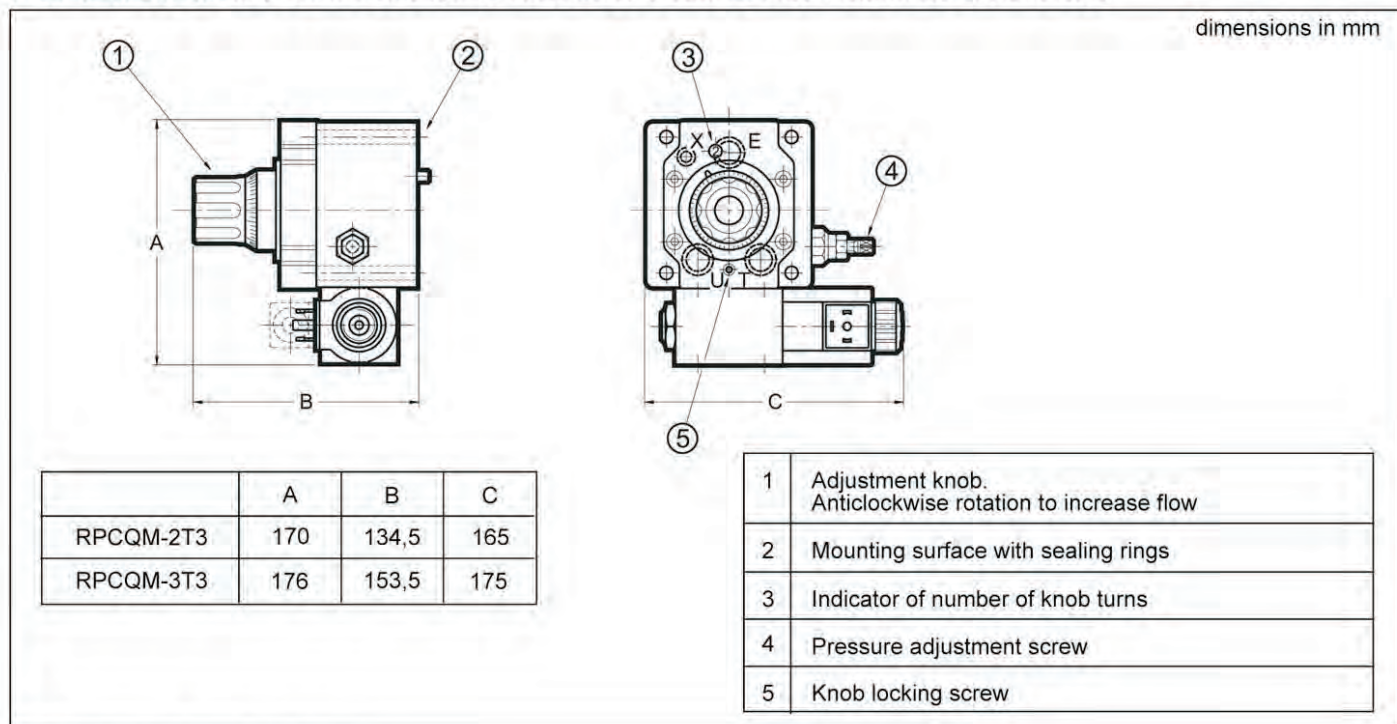
## 6 - VENTING

The RPCQ\*T3 model with incorporated pressure relief valve can be equipped with a type MD1D solenoid valve to unload the flow. In this case the RPCQM\*T3 valve allows discharge of the entire pump flow to the reservoir with modest pressure drops.



# RPC\*-\*T3

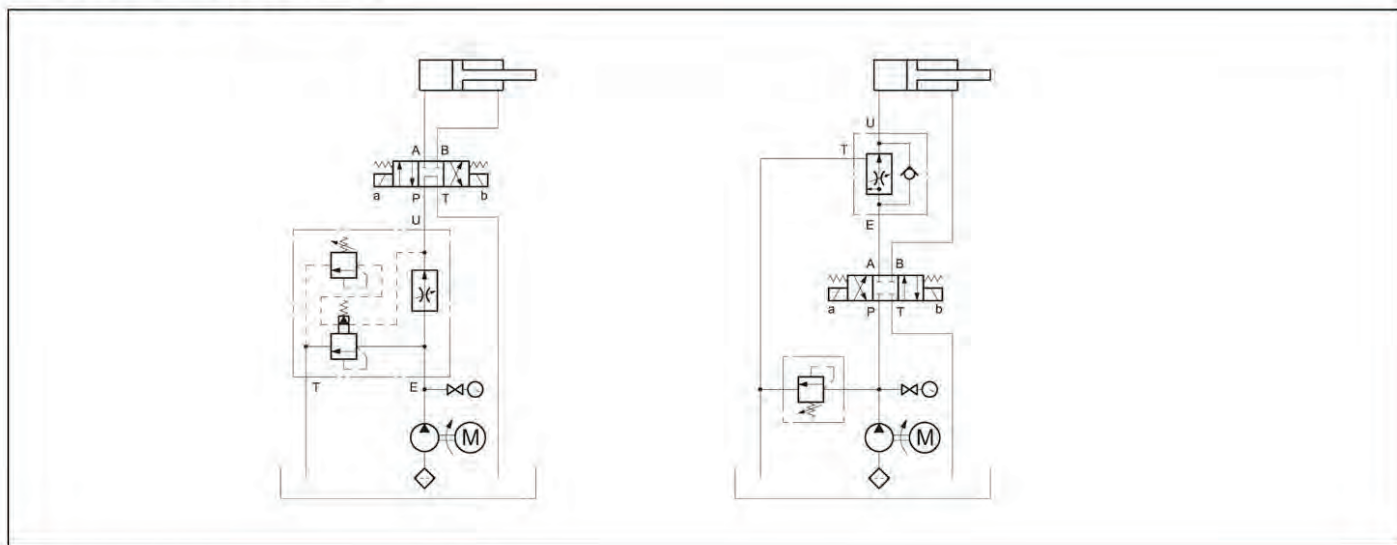
## 9 - RPCQM-2T3 SERIES 31 AND RPCQM-3T3 SERIES 43 OVERALL AND MOUNTING DIMENSIONS



## 10 - ELECTRIC CONNECTORS

The solenoid valves are never supplied with connector. Connectors must be ordered separately.  
For the identification of the connector type to be ordered, please see catalogue 49 000.

## 11 - APPLICATION EXAMPLES



## 12 - SUBPLATES (see catalogue 51 000)

Type	PMRPCQ2-AI4G with rear ports	PMRPCQ3-AI6G with rear ports
Port dimension E, U, T X	1/2" BSP 1/4" BSP	1" BSP 1/4" BSP