DUPLOMATIC
HYDRAULICS

RPC1*/M

FLOW CONTROL VALVE

SERIES 10

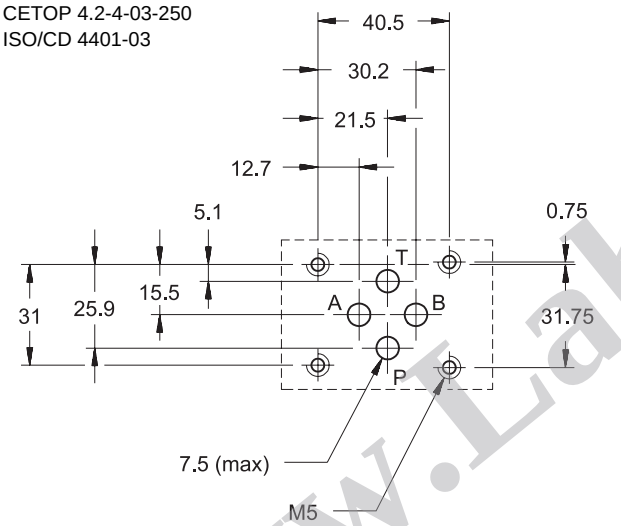
MODULAR VERSION

CETOP 03

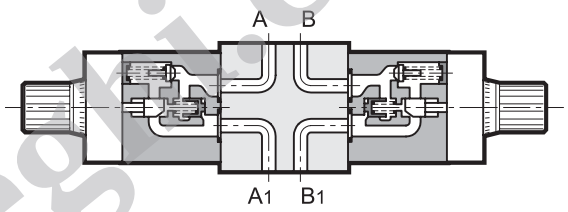
p max **250** bar

Q max (see performance ratings table)

MOUNTING INTERFACE



OPERATING PRINCIPLE



— The RPC1*/M valve is a flow control valve with pressure and temperature compensation, made as a modular version with mounting surface according to the CETOP and ISO standards.

— It can be assembled quickly under the CETOP 03 directional solenoid valves and allows easy execution of hydraulic circuits where control of the speed of the actuators is required.

— It is available in six flow adjustment ranges up to 30 l/min.

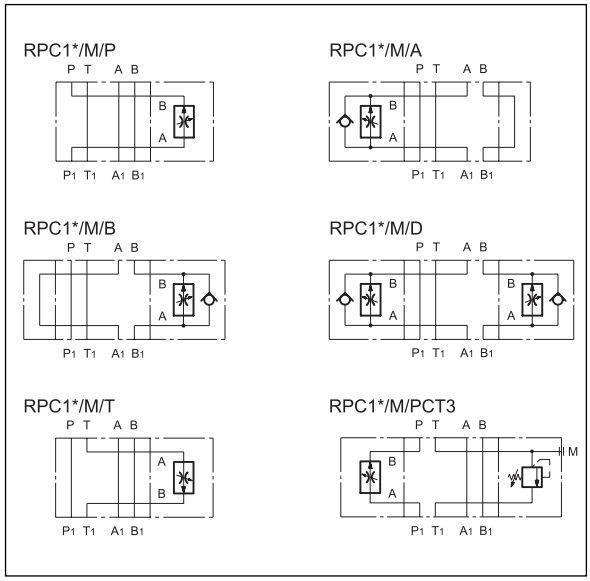
— Combined with MDD44 type solenoid operated directional control valves (see catalogue 41 250), it is possible to obtain circuits for the fast-slow control of the work actuators.

CONFIGURATIONS (see Hydraulic symbols table and Identification Code - par. 1)

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

Maximum operating pressure	bar	250
Maximum flow rate in the controlled lines Maximum flow rate in the free lines Reverse free flow maximum flow rate	l/min l/min l/min	1-4-10-16-22-30 65 40
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: RPC1-*/M/ A-B-T-P RPC1-*/M/ D RPC1-*/M/PCT3 only modular block CETOP 03 without flow control valves: RPC1-K/M/* RPC1-K/M/PCT3	kg	3 4,1 3,7 1,5 2,4

HYDRAULIC SYMBOLS



NOTE: for detailed information regarding the RPC1 flow control valve, see catalogue 32 200

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1 - IDENTIFICATION CODE

R	P	C	1	-		/	M	/			/	10	/	

Flow control valve with pressure and temperature compensation

Flow adjustment range:
1 = 1 l/min **16** = 16 l/min
4 = 4 l/min **22** = 22 l/min
10 = 10 l/min **30** = 30 l/min
K = only CETOP 03 modular block supplied without flow control valve

Modular version CETOP 03 size

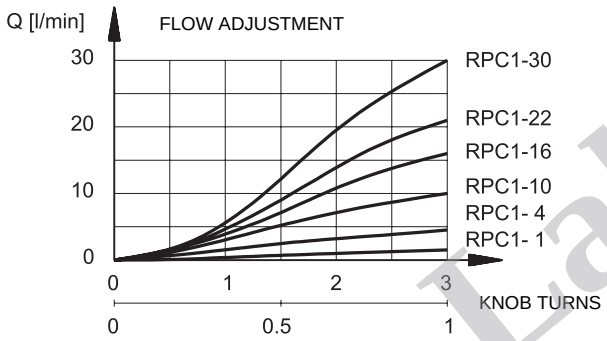
P = meter in control on line P
A = control from chamber A of the actuator
B = control from chamber B of the actuator
D = control from chambers A and B of the actuator
T = meter out control on line T
PCT3 = meter in control on line P with backpressure adjustable on line T up to 70 bar
(A and B configurations are not available in K version)

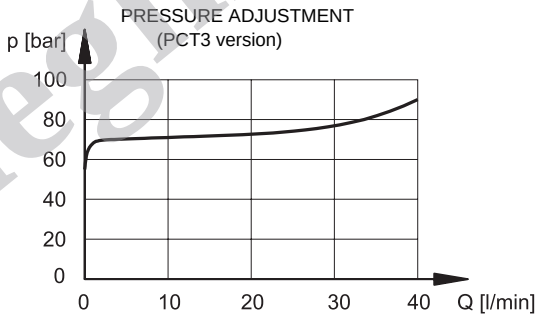
M1 = adjustment knob only for PCT3 version (omit for adjustment with countersunk hex screw)

Series No. (the overall and mounting dimensions remain unchanged from 10 to 19)

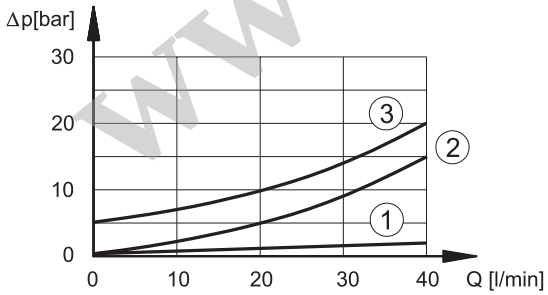
Seals: omit for mineral oils
V = viton for special fluids

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





PRESSURE DROPS Δp - Q



① ppressure drops on free lines
② pressure drops through check valve
③ pressure drops through the backpressure valve (PCT3 version)

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.

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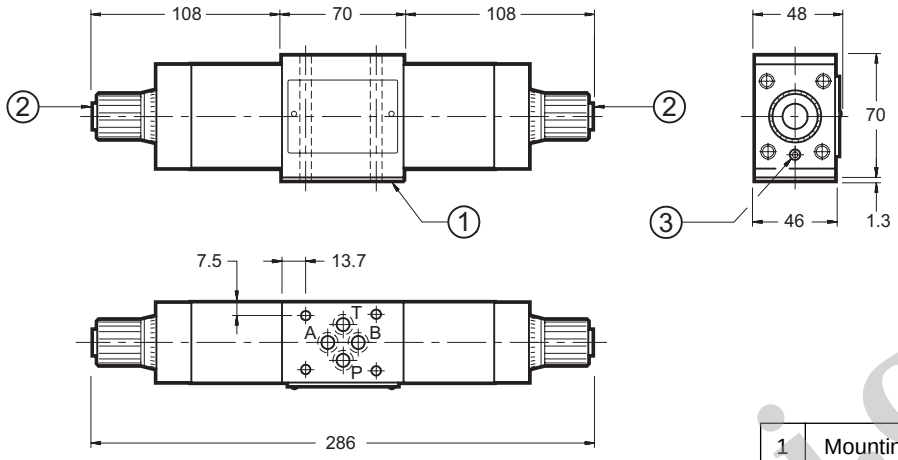
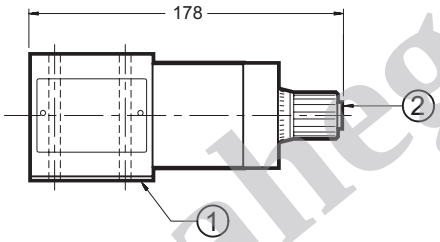
4 -OVERALL AND MOUNTING DIMENSIONS RPC1-*/M VALVES

dimensions in mm

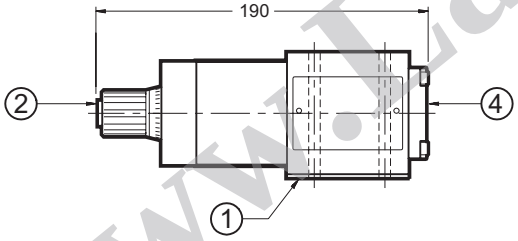
RPC1-*/M/D



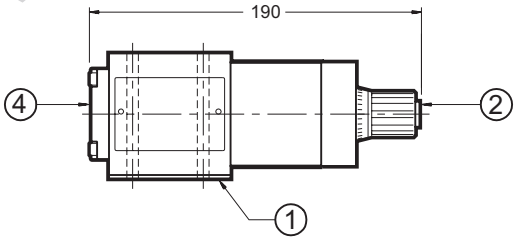
RPC1-*/M/P
RPC1-*/M/T



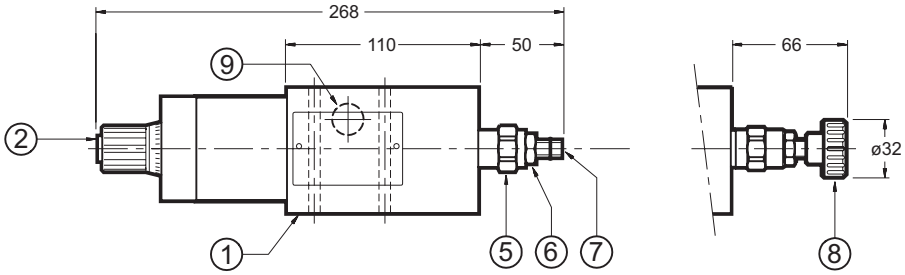
RPC1-*/M/A



RPC1-*/M/B



RPC1-*/M/PCT3



1	Mounting plate with sealing rings: 4 OR type 108 For RPC1-*/M/PCT3 4 OR 2037 (without mounting plate)
2	Flow adjustment knob (3 turns total) Rotate anticlockwise to increase flow.
3	Knob locking screw
4	Cross-connection cover
5	Backpressure valve on line T. Pressure adjustment range up to 70 bar
6	Locking nut: spanner 17
7	Countersunk hex screw: spanner 5 Rotate clockwise to increase pressure
8	Adjustment knob: M1
9	Pressure gauge port 1/4" BSP

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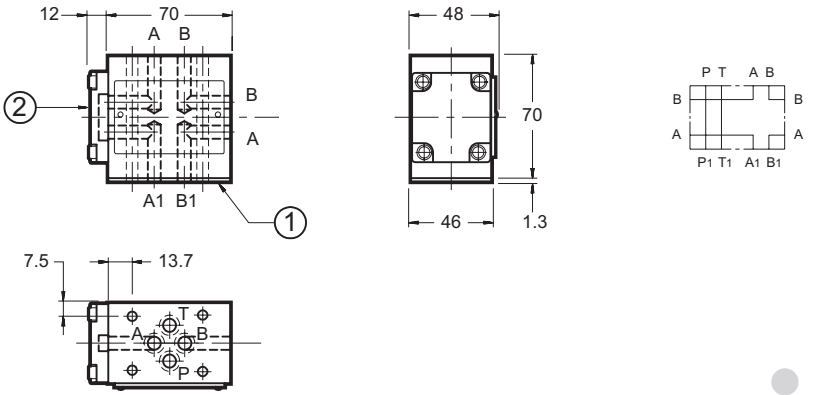
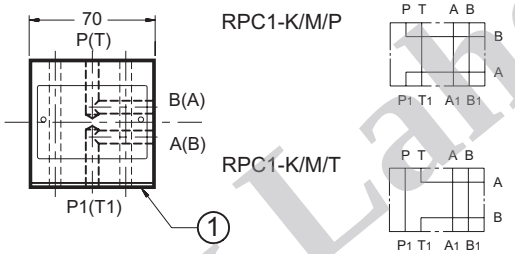
5 - OVERALL AND MOUNTING DIMENSIONS OF BLOCKS WITHOUT FLOW CONTROL VALVE

dimensions in mm

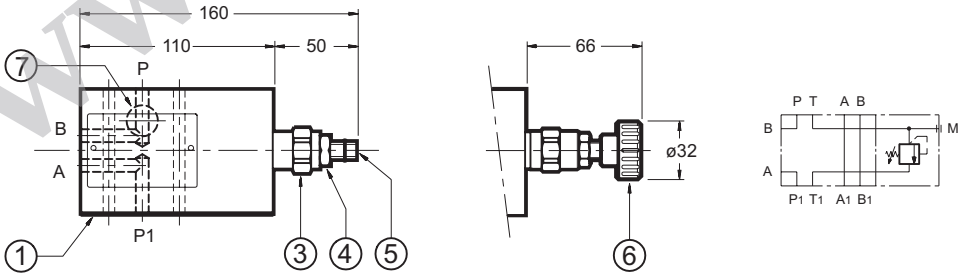
RPC1-K/M/D





1	Mounting plate with sealing rings: 4 OR type 108 For RPC1-K/M/PCT3 4 OR 2037 (without mounting plate)
2	Cross-connection cover
3	Backpressure valve on line T. Pressure adjustment range up to 70 bar
4	Locking nut: spanner 17
5	Countersunk hex screw: spanner 5 Rotate clockwise to increase pressure
6	Adjustment knob: M1
7	Pressure gauge port 1/4" BSP

RPC1-K/M/PCT3



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