



DIPLOMATIC
HYDRAULICS

66 300/107 ED



RPC1-*/4M

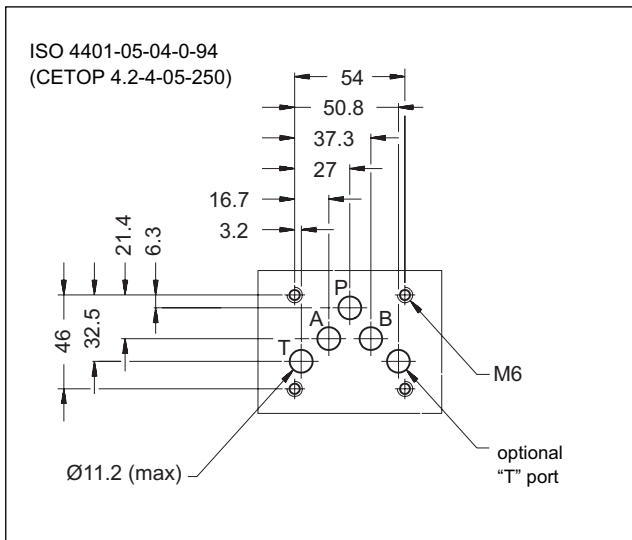
FLOW CONTROL VALVE

SERIES 10

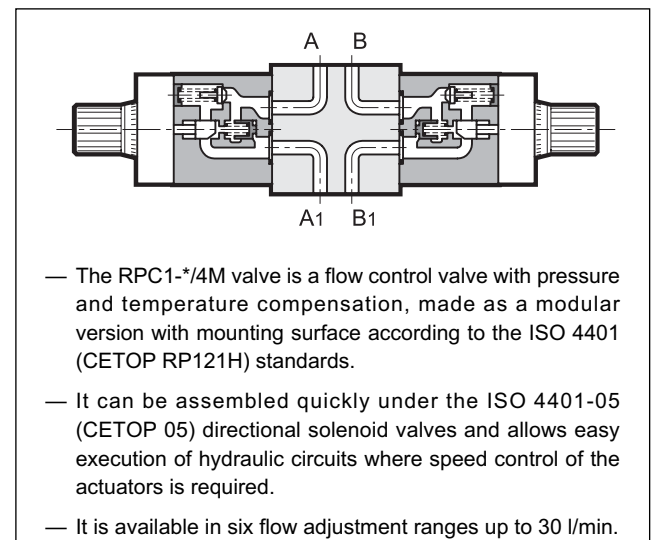
MODULAR VERSION
ISO 4401-05 (CETOP 05)

p max **250** bar
Q max (see table of performances)

MOUNTING INTERFACE



OPERATING PRINCIPLE

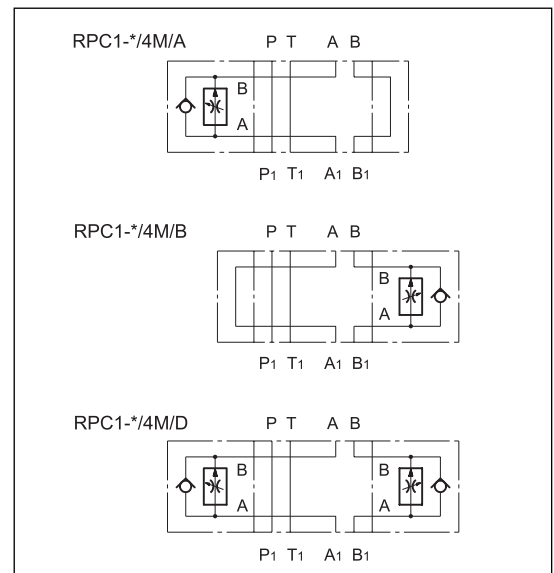


CONFIGURATIONS (see Hydraulic symbols table and Identification Code - par. 1)

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

| | | | |
|---|---|-----------------|-----|
| Maximum operating pressure | bar | 250 | |
| Maximum flow rate in controlled lines | l/min | 1-4-10-16-22-30 | |
| Maximum flow rate in the free lines | | | 100 |
| Reverse free flow maximum flowrate | | | 40 |
| 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: RPC1-*/4M/ A-B | kg | 4,3 | |
| RPC1-*/4M/ D | | | 5,6 |
| only modular block ISO 4401-05 without flow control valves: RPC1-K/4M/D | | | |

HYDRAULIC SYMBOLS



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



RPC1*/4M

SERIES 10

1 - IDENTIFICATION CODE

| | | | | | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|--|
| R | P | C | 1 | - | / | 4 | M | / | / | 10 | / | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|--|

Pressure and temperature compensated flow control valve

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 for ISO 4401-05 (CETOP 05) modular block supplied without flow control valves

Modular version _____
ISO 4401-05 (CETOP 05) size

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

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

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
(A and B configurations are not available in K version)

2 - 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.

3 - OVERALL AND MOUNTING DIMENSIONS

dimensions in mm

Side view dimensions: 108, 90.5, 108

Front view dimensions: 72, 70

RPC1-K/4M/D front view dimensions: 12, 90.5

RPC1-*/4M/A 212, 18.25, 12

RPC1-*/4M/B 212

RPC1-*/4M/D 306.5

| | |
|---|--|
| 1 | Mounting surface with sealing rings: 5 OR type 2050 (12.42x1.78) - 90 Shore |
| 2 | Adjustment knob. Adjustment in 3 turns of the knob. Rotate anticlockwise to increase flow. |
| 3 | Knob locking screw |
| 4 | Side locking plate |

| | |
|--|--|
| | <p>DIPLOMATIC OLEODINAMICA SpA 20025 LEGNANO (MI) - P.le Bozzi, 1 / Via Edison Tel. 0331/472111 - Fax 0331/548328</p> |
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