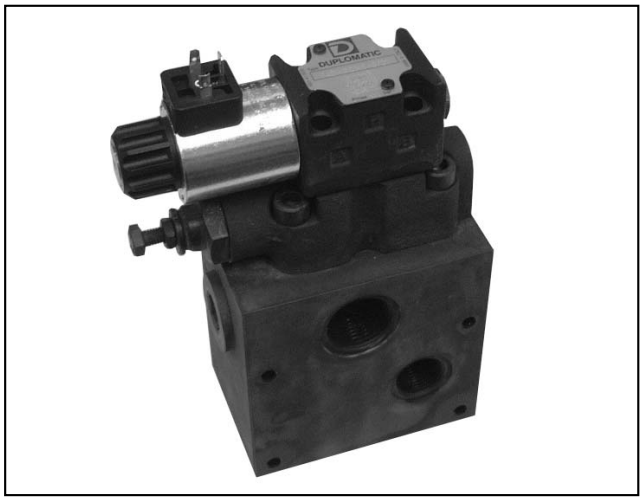


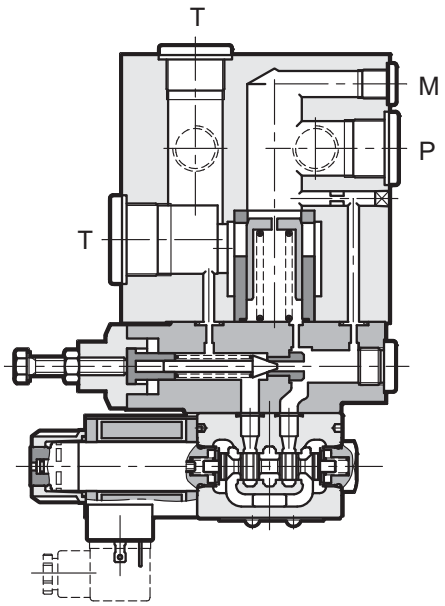
# P4D-RQM5

## MODULAR SUBPLATE WITH PRESSURE RELIEF VALVE AND UNLOADING SOLENOID VALVE

### SERIES 30

**p** max **350** bar
**Q** max **250** l/min

## OPERATING PRINCIPLE




— The P4D-RQM5 is a compact group that includes a pressure relief valve and it is used as mounting surface for P2D and P4D subplates.

— It also includes a solenoid valve for venting of the total flow at a minimum pressure value.

— It is available in two pressure adjustment ranges up to 350 bar.

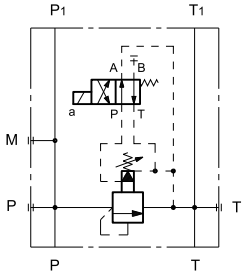
— It is normally supplied with a hexagonal head adjustment screw. Upon request, it can be equipped with a SICBLOC adjustment knob on the main pressure control.

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

| | | |
|---|---|---|
| Maximum operating pressure | bar | 350 |
| Maximum flow on P (3/4") and T(1")<br>Maximum flow on $P_1$ and $T_1$(1/2")<br>Minimum flow | l/min | 250<br>120<br>10 |
| 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: | kg | 10 |

**NOTE**: for the solenoid valve DS3 characteristics see catalogue 41 150

## HYDRAULIC SYMBOL



## 1 - IDENTIFICATION CODE

| P | 4 | D | - | R | Q | M | 5 | - | | / | | / | 30 | | - | | K1 | / | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Subplate
ISO 4401-05 (CETOP 05)
dimension

Pressure relief valve
with unloading solenoid valve

DN 25 nominal dimension

Pressure adjustment range
**5** = 250 bar **6** = 350 bar

**M** = SICBLOC adjustment knob
(omit for hexagonal head
adjustment screw)

Series: (the overall and mounting dimensions
remain unchanged from 30 to 39)

Seals:
**N** = NBR seals for mineral oil (**standard**)
**V** = FPM seals for special fluids

**NOTE**: The locking rings of the coils and the relevant O-Rings are supplied together with valves.

Manual override:
omit for override
integrated in the
tube (**standard**)
**CM** = manual
override, boot
protected

Coil electrical connection:
plug for connector type DIN
43650 (**standard**)

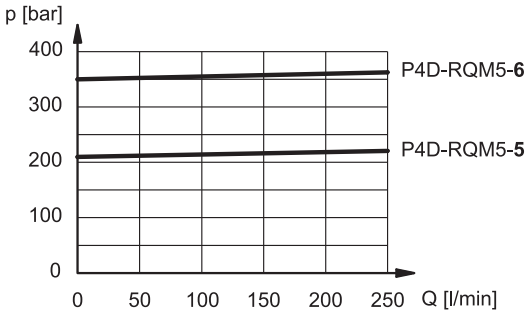
DC power supply
**D12** = 12 V
**D24** = 24 V
**D48** = 48 V
**D110** = 110 V
**D220** = 220 V
**D00** = valve without coils (see **NOTE**)

AC power supply
**A24** = 24 V - 50 Hz
**A48** = 48 V - 50 Hz
**A110** = 110 V - 50 Hz / 120 V - 60 Hz
**A230** = 230 V - 50 Hz / 240 V - 60 Hz
**A00** = valve without coils (see **NOTE**)

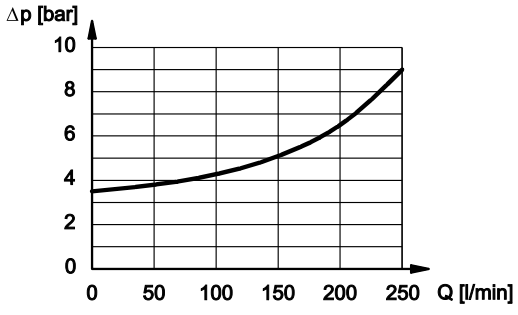
**F110** = 110 V - 60 Hz
**F220** = 220 V - 60 Hz

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

ADJUSTMENT




MINIMUM CONTROLLED PRESSURE




**NOTE:** The maximum flow deliverable to $P_1$ port is 120 l/min (for P2D and P4D modular subplates).
The maximum flow through the pressure relief valve (additional 3/4" BSP P port) is 250 l/min.

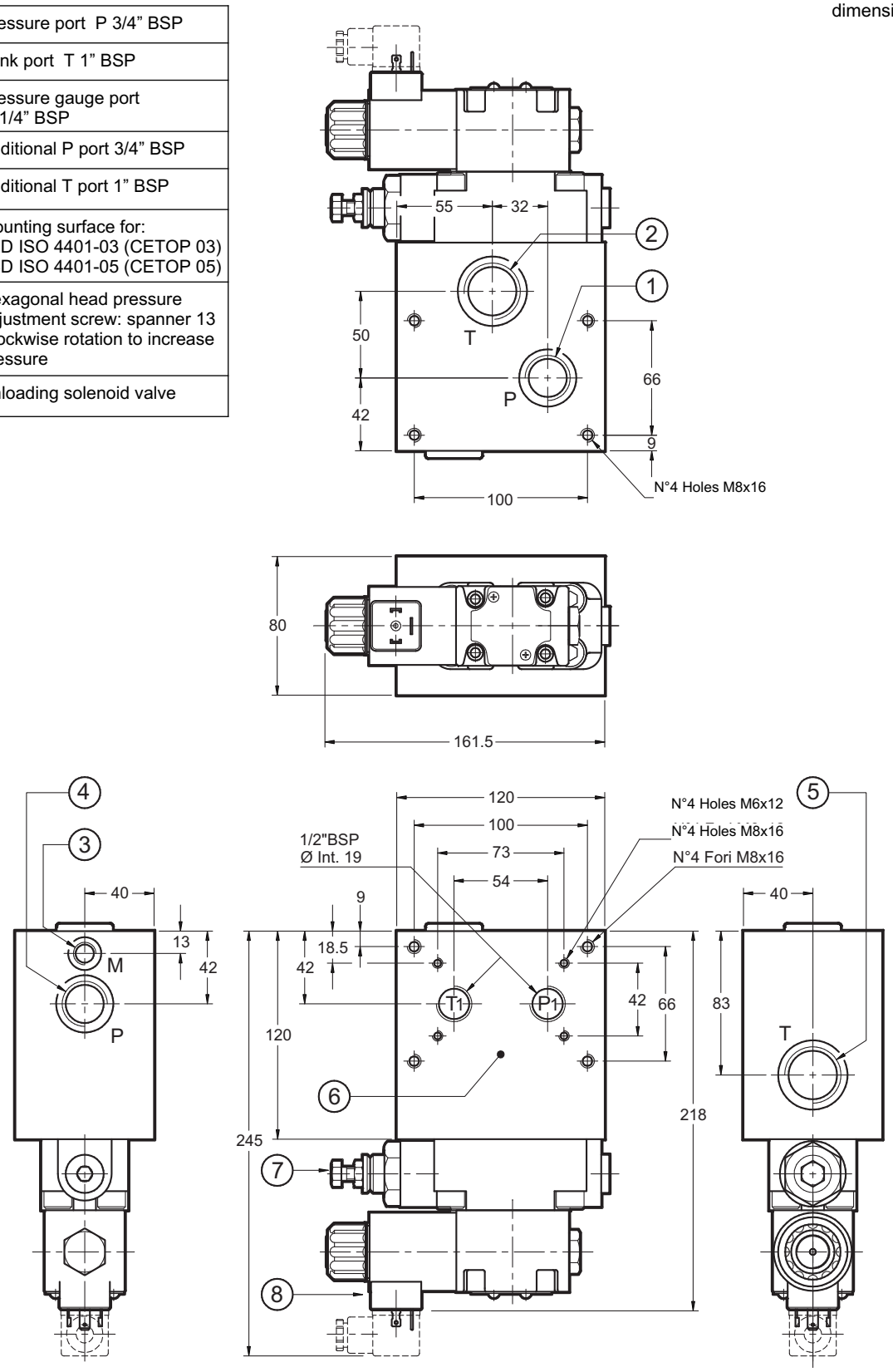
## 3 - HYDRAULIC FLUIDS

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.

## 4 - OVERALL AND MOUNTING DIMENSIONS

dimensions in mm

| | |
|---|---|
| 1 | Pressure port P 3/4” BSP |
| 2 | Tank port T 1” BSP |
| 3 | Pressure gauge port M 1/4” BSP |
| 4 | Additional P port 3/4” BSP |
| 5 | Additional T port 1” BSP |
| 6 | Mounting surface for: P2D ISO 4401-03 (CETOP 03) P4D ISO 4401-05 (CETOP 05) |
| 7 | Hexagonal head pressure adjustment screw: spanner 13 Clockwise rotation to increase pressure |
| 8 | Unloading solenoid valve |

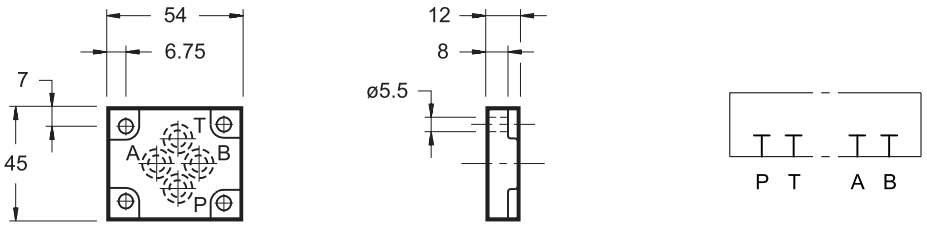


# PE
## BLANKING PLATE

**p** max **350** bar

### 1 - OVERALL AND MOUNTING DIMENSIONS PE-MD1/20 (cod. 1950591)

dimensions in mm

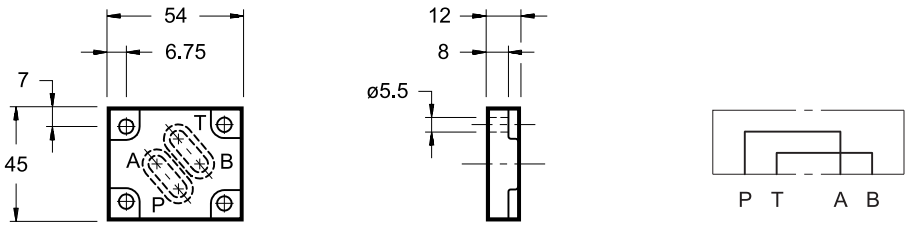



FASTENING BOLTS: 4 bolts M5x16

4 OR type 2037 (9.25x1.78) - 90 Shore

### 2 - OVERALL AND MOUNTING DIMENSIONS PE-C/PA/MD1/20 (cod. 1950751)

dimensions in mm

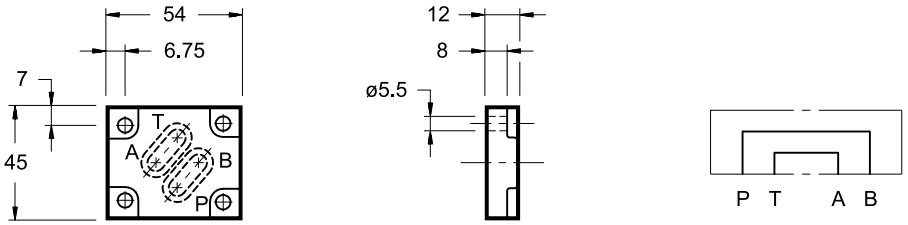



FASTENING BOLTS: 4 bolts M5x16

2 OR type 2068 (17.17x1.78) - 90 Shore

### 3 - OVERALL AND MOUNTING DIMENSIONS PE-C/PB/MD1/20 (cod. 1950601)

dimensions in mm

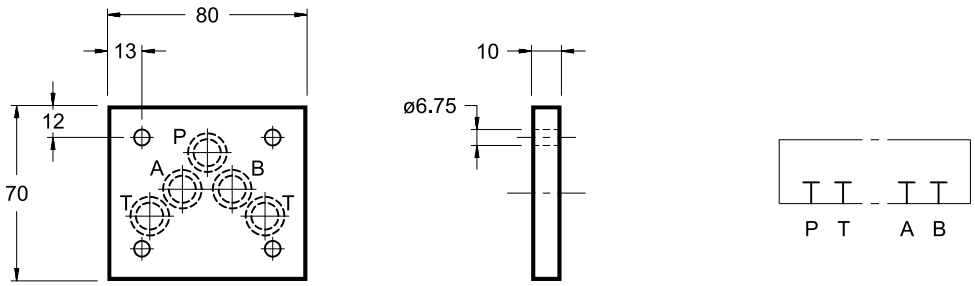



FASTENING BOLTS: 4 bolts M5x16

2 OR type 2068 (17.17x1.78) - 90 Shore

### 4 - OVERALL AND MOUNTING DIMENSIONS PE/D4-M (cod, 1950042)

dimensions in mm

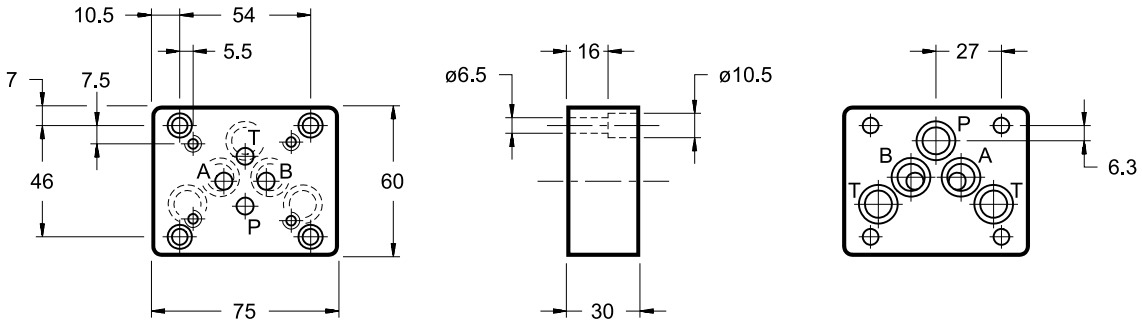



FASTENING BOLTS: 4 bolts M6x20

5 OR type 2050 (12.42x1.78) - 90 Shore

### 5 - OVERALL AND MOUNTING DIMENSIONS PC-D4/MD1-M (cod. 1950222)

dimensions in mm




FASTENING BOLTS: 4 bolts M6x25

5 OR type 2050 (12.42x1.78) - 90 Shore

**NOTE**: On request, plates can be supplied with the O-Rings in viton. To order it, please indicate the letter /**V** at the end of the identification code of the plate.

# RM4-*-MP

## SUBPLATE WITH PRESSURE RELIEF VALVE

### SERIES 40

— The RM4-*-MP subplate includes a pressure relief valve with P and T threaded ports.

— It is used as mounting surface for P2D and P4D subplates on power packs.

— It is available in four pressure adjustment ranges up to 350 bar.

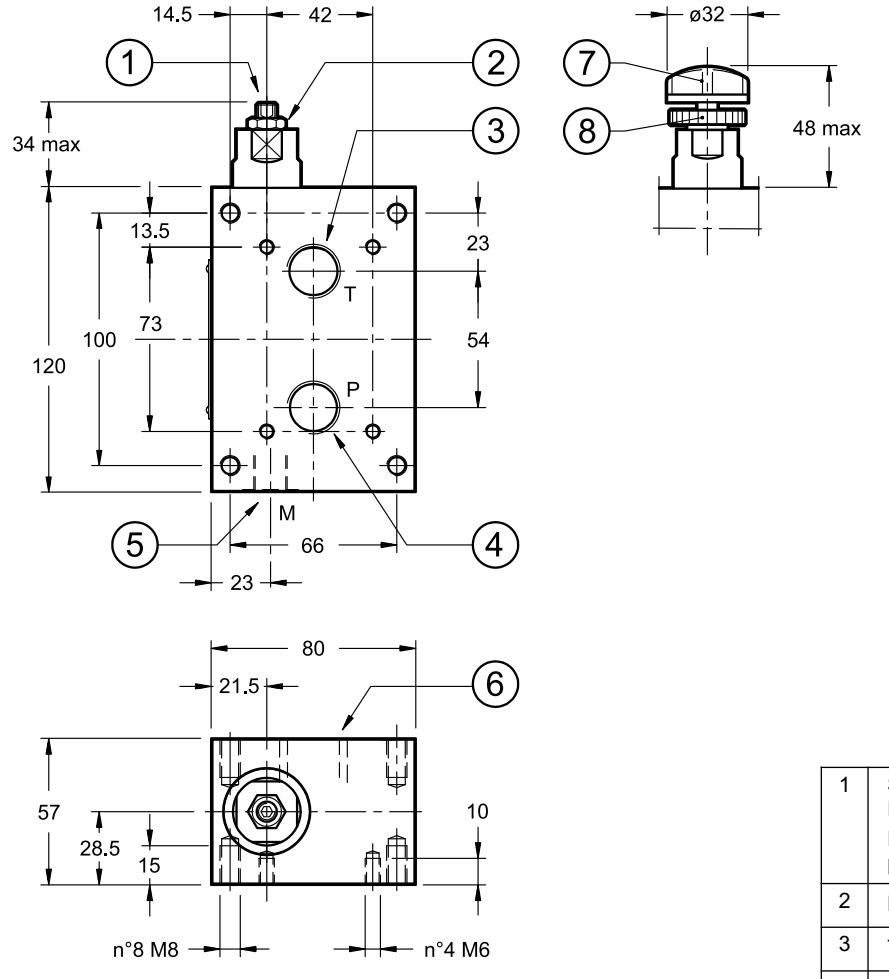
— It is supplied with a socket set screw with locking nut, or alternatively with knob and maximum adjustment limiting device.

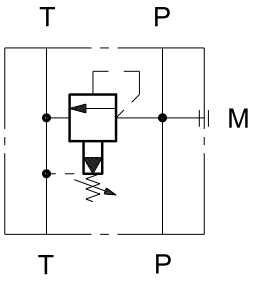
## THREADED PORTS

**p** max **350** bar
**Q** max **100** l/min

### 1 - OVERALL AND MOUNTING DIMENSIONS

dimensions in mm




| | |
|---|---|
| 1 | Socket hex adjustment screw: Hex key 4. Rotate clockwise to increase pressure |
| 2 | Locking nut: spanner 13 |
| 3 | Tank port 1/2” BSP |
| 4 | Pressure port 1/2” BSP |
| 5 | Pressure gauge port 1/4” BSP |
| 6 | Tank port 3/4” BSP |
| 7 | Locking ring |
| 8 | Adjustment knob: K |

Mass: kg 3,5

## 2 - IDENTIFICATION CODE

| R | M | 4 | - | | - | M | P | / | 40 | | / | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

Subplate with pressure relief valve

For valves of ISO 4401-05 size

Pressure adjustment range:
**070** = up to 70 bar (17 bar / turn)
**140** = up to 140 bar (32 bar / turn)
**210** = up to 210 bar (47 bar / turn)
**350** = up to 350 bar (78 bar / turn)

P2 - P4 subplate version

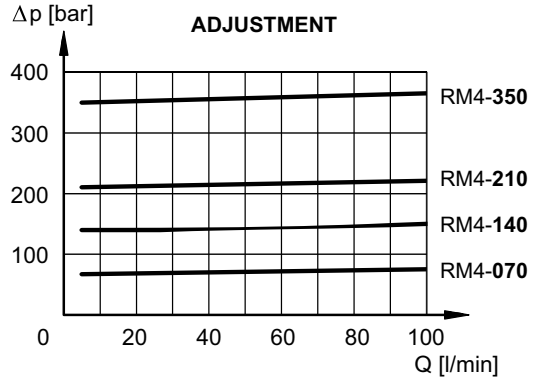
Serial No.
(the overall and mounting dimensions remain unchanged from 40 to 49)

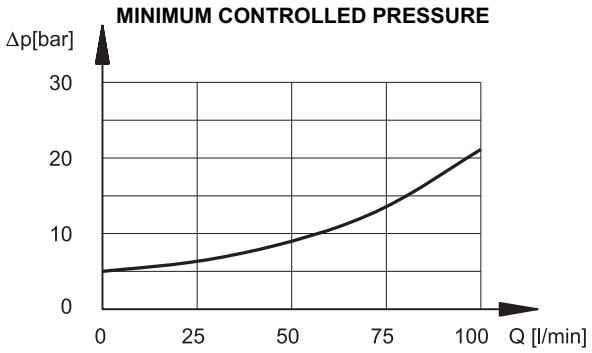
Seals:
**N** = NBR seals for mineral oils (**standard**)
**V** = FPM seals for special fluids

Option:
**K** = Adjustment knob.
Omit for adjustment with hex socket screw

## 3 - CHARACTERISTIC CURVES

(values obtained with viscosity of 36 cSt at 50°C)




## 4 - HYDRAULIC FLUIDS

Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals (code N). 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.

# P4D*

## MODULAR SUBPLATES FOR ISO 4401-05 (CETOP 05) VALVES

— This series of modular subplates has been designed to make hydraulic circuits and can be used directly on power packs or on any other section of the machine.

— The subplates are assembled by means of 4 tie-rods with seal seats incorporated in the subplate.

— The above assembly achieves compact units (including pressure and discharge manifolds): one face per subplate is used for connection to services and the other to mount ISO 4401-05 (CETOP 05) or ISO 4401-03 (CETOP 03) valves.

— Complex circuits can also be set up using modular valves.

— The recommended mounting configuration for **P4D** subplates on hydraulic power packs is with the main axis positioned vertically to obtain the bundle of pipes to utilities in two vertical rows; however, assembly is not restricted to this configuration.

**p** max **350** bar
**Q** max **100** l/min

### TECHNICAL SPECIFICATIONS

| | | |
|---|---|---|
| Maximum operating pressure<br>- ports P - A - B<br>- port T | bar | see paragraph 8<br>140 |
| Maximum flow | l/min | 100 |
| Ambient temperature range | °C | -20 / +50 |
| Fluid temperature range | °C | -20 / +80 |
| Fluid viscosity range | cSt | 10 ÷ 400 |
| Fluid contamination degree | cSt | 25 |
| Recommended viscosity | According to ISO 4406:1999 class 20/18/15 | |

### 1 - IDENTIFICATION CODE

| P | 4 | D | - | | / | | |
|---|---|---|---|---|---|---|---|

Subplate

Dimension for ISO 4401-05 valves

**D** = single mounting facility

Versions:
**F** = with P - T threaded ports, mounting interface ISO 4401-05 (CETOP 05) and side ports of 1/2" BSP.
**P** = with P - T threaded ports, mounting interface ISO 4401-05 (CETOP 05) and A - B rear ports of 3/4" BSP.
**D3** = with P - T threaded ports, mounting interface ISO 4401-03 (CETOP 03) and side ports of 3/8" BSP.
**D3P** = with P - T threaded ports, mounting interface ISO 4401-03 (CETOP 03) and A - B rear ports of 1/2" BSP
**M*** = with pressure relief valve included and P - T threaded ports.
Pressure adjustment range:
**070** = up to 70 bar
**140** = up to 140 bar
**210** = up to 210 bar
**350** = up to 350 bar

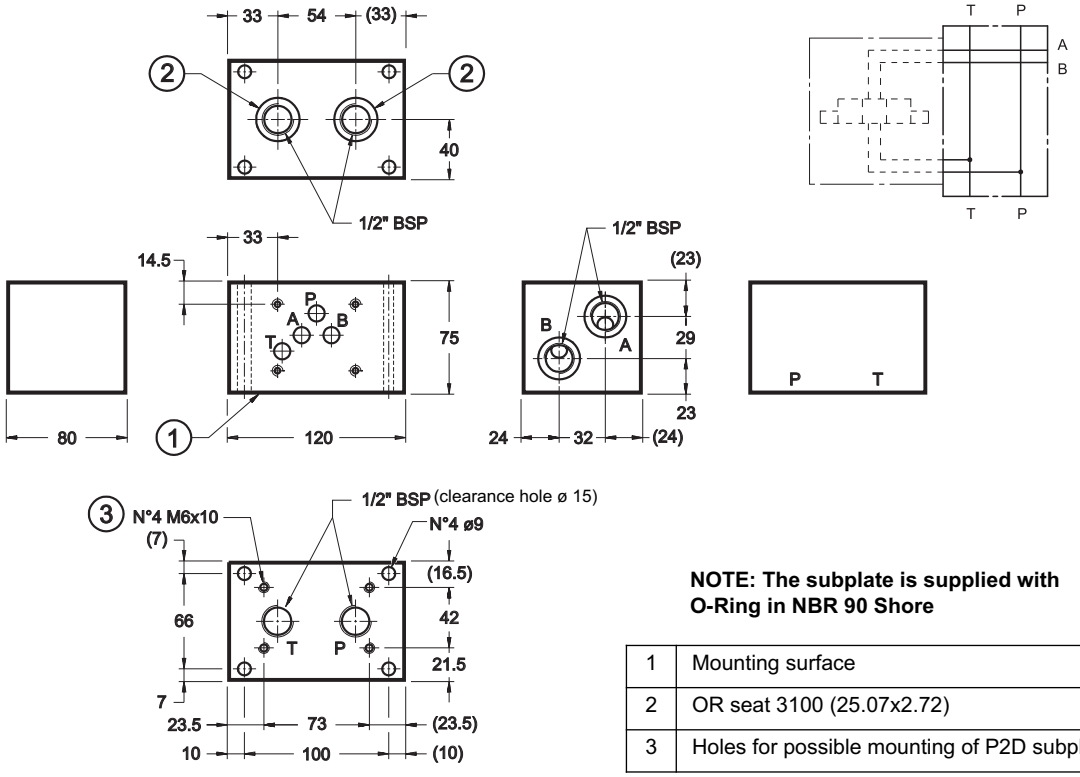
Series No.
**30** = for P4D-M*
**21** = for all the other versions
(Within the same ten dimensions remain unchanged)

**for P4D-M* version only:**
Seals:
**N** = NBR seals for mineral oil (**standard**)
**V** = FPM seals for special fluids

## 2 - OVERALL AND MOUNTING DIMENSIONS P4D-F/21 (COD. 1561441)

P - T THREADED PORTS SUBPLATE, WITH MOUNTING INTERFACE FOR ISO 4401-05 (CETOP 05) VALVE AND A-B SIDE PORTS OF 1/2" BSP

dimensions in mm




**NOTE: The subplate is supplied with O-Ring in NBR 90 Shore**

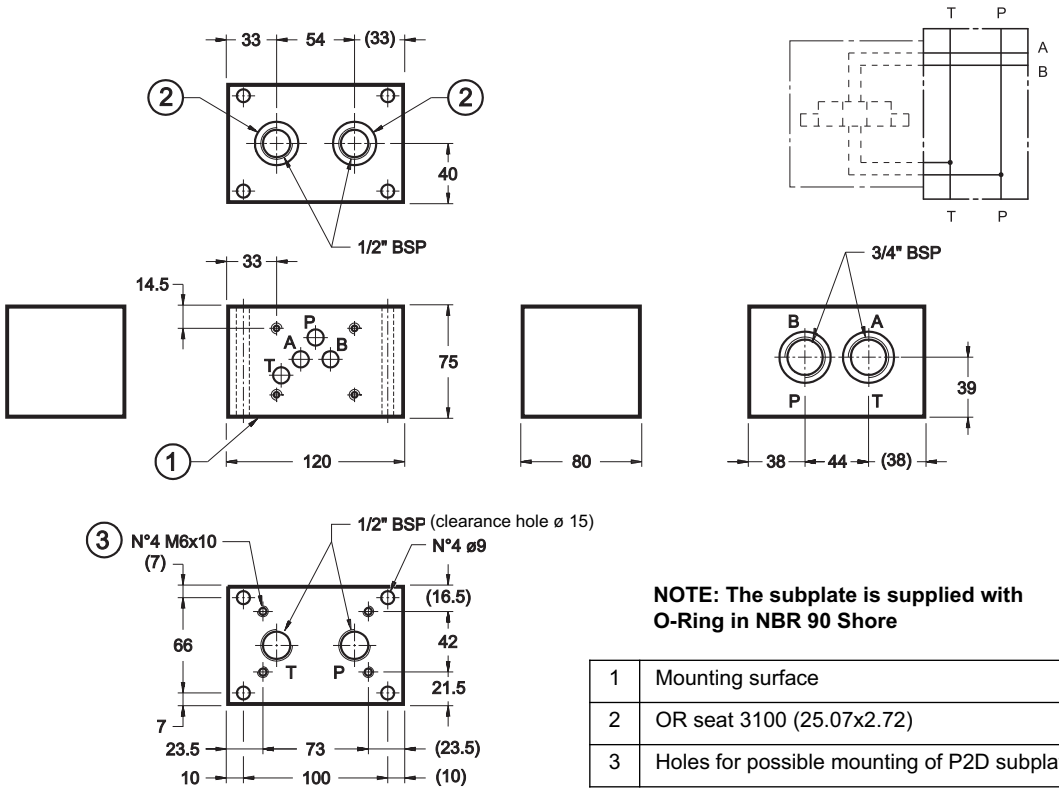
| | |
|---|---|
| 1 | Mounting surface |
| 2 | OR seat 3100 (25.07x2.72) |
| 3 | Holes for possible mounting of P2D subplates |

Mass: kg 4,8

## 3 - OVERALL AND MOUNTING DIMENSIONS P4D-P/21 (COD. 1561461)

P - T THREADED PORTS SUBPLATE WITH MOUNTING INTERFACE FOR ISO 4401-05 (CETOP 05) VALVE AND A -B REAR PORTS OF 3/4" BSP

dimensions in mm




**NOTE: The subplate is supplied with O-Ring in NBR 90 Shore**

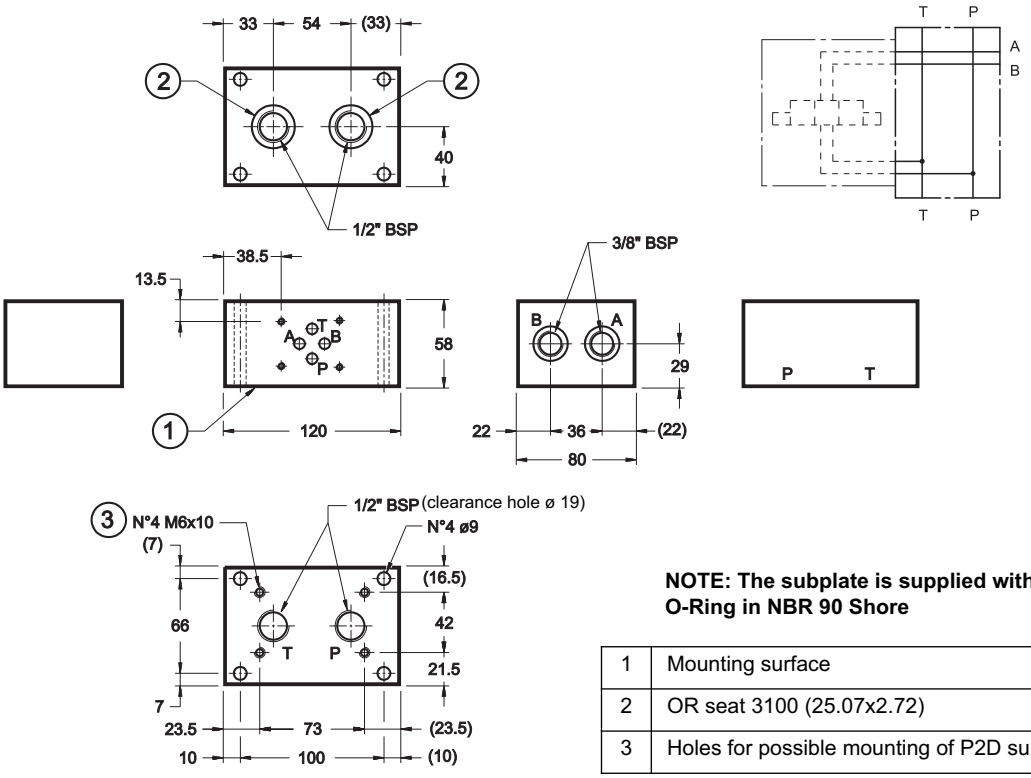
| | |
|---|---|
| 1 | Mounting surface |
| 2 | OR seat 3100 (25.07x2.72) |
| 3 | Holes for possible mounting of P2D subplates |

Mass: kg 4,8

## 4 - OVERALL AND MOUNTING DIMENSIONS P4D-D3/21 (COD. 1561451)

P - T THREADED PORTS SUBPLATE, WITH MOUNTING INTERFACE FOR ISO 4401-03 (CETOP 03) VALVE AND SIDE PORTS OF 3/8" BSP

dimensions in mm







Mass: kg 3,8

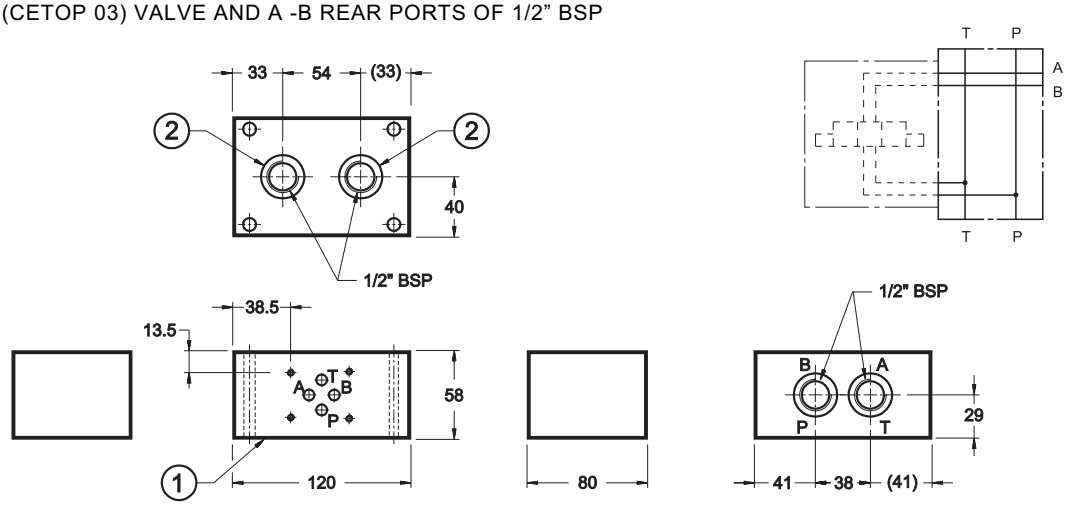
**NOTE: The subplate is supplied with O-Ring in NBR 90 Shore**

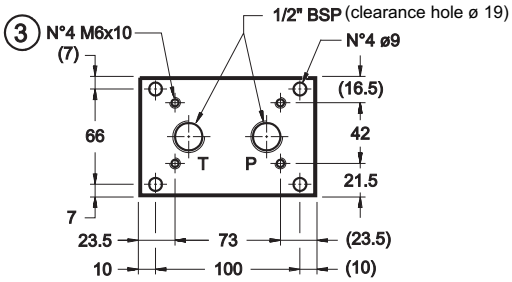
| | |
|---|---|
| 1 | Mounting surface |
| 2 | OR seat 3100 (25.07x2.72) |
| 3 | Holes for possible mounting of P2D subplates |

## 5 - OVERALL AND MOUNTING DIMENSIONS P4D-D3P/21 (COD. 1561481)

P - T THREADED PORTS SUBPLATE, WITH MOUNTING INTERFACE FOR ISO 4401-03 (CETOP 03) VALVE AND A -B REAR PORTS OF 1/2" BSP

dimensions in mm



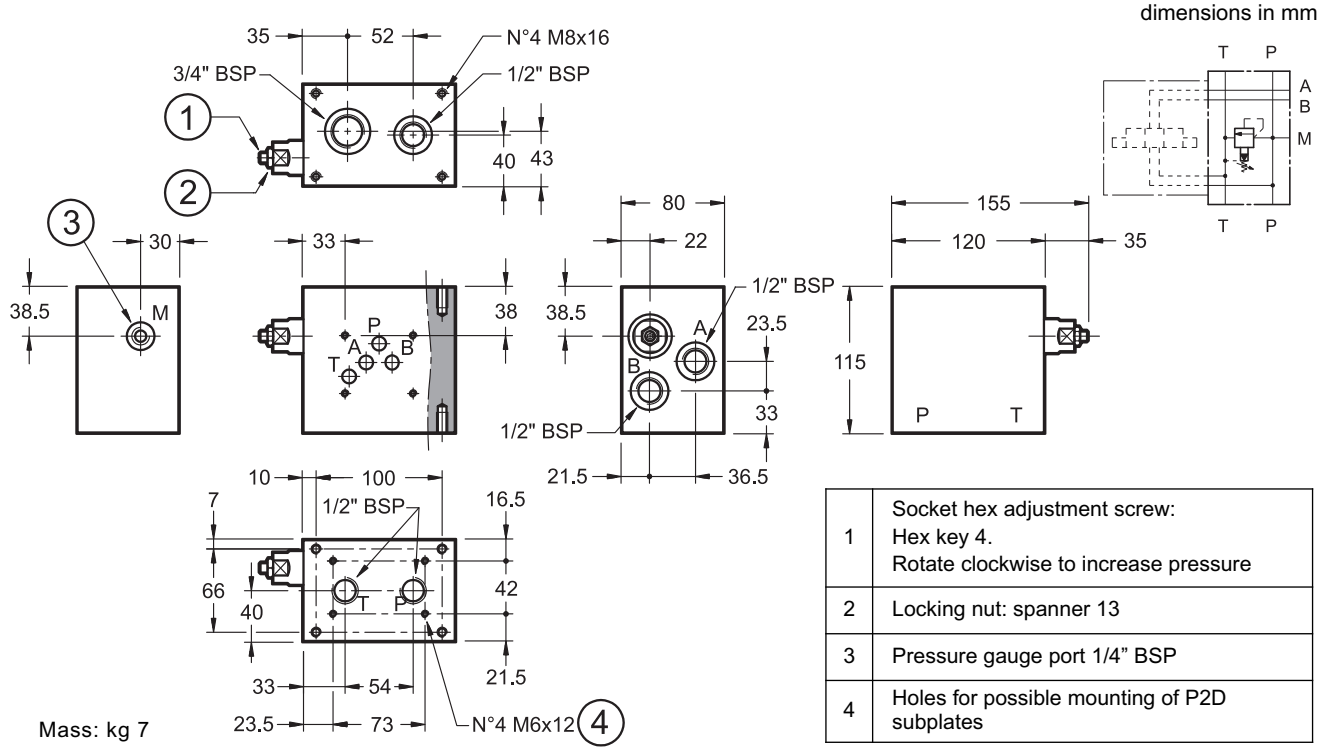

Mass: kg 3,8

**NOTE: The subplate is supplied with O-Ring in NBR 90 Shore**

| | |
|---|---|
| 1 | Mounting surface |
| 2 | OR seat 3100 (25.07x2.72) |
| 3 | Holes for possible mounting of P2D subplates |

## 6 - OVERALL AND MOUNTING DIMENSIONS P4D-M*/30

dimensions in mm

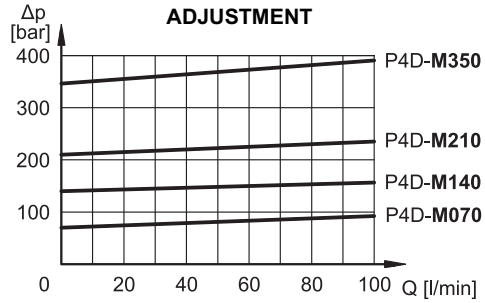


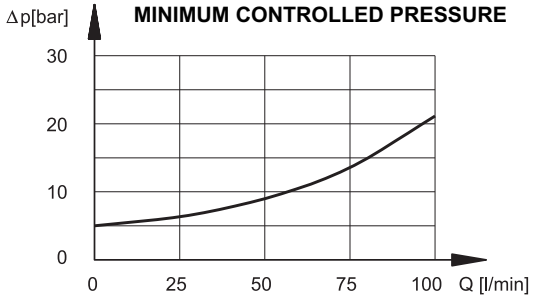

Mass: kg 7

| | |
|---|---|
| 1 | Socket hex adjustment screw:<br>Hex key 4.<br>Rotate clockwise to increase pressure |
| 2 | Locking nut: spanner 13 |
| 3 | Pressure gauge port 1/4” BSP |
| 4 | Holes for possible mounting of P2D subplates |

## 7 - CHARACTERISTIC CURVES

(values obtained with viscosity of 36 cSt at 50°C)




## 8 - MAXIMUM PRESSURE ON P

Depending on the tie-rod type and on the number of assembled subplates it is necessary to pay attention to the maximum pressure on P in order to avoid extruding the O-Ring.

| No. of assembled subplates | Threaded bar class B7<br>ISO 6547 (DIN 975) | Stud class 8.8<br>UNI 5911 | Stud class 12.9 |
|---|---|---|---|
| 2 | 350 bar | 350 bar | 350 bar |
| 3 | 300 bar | 350 bar | 350 bar |
| 4 | 250 bar | 300 bar | 350 bar |
| 5 | 200 bar | 250 bar | 300 bar |
| 6 | 150 bar | 200 bar | 250 bar |
| Tightening torque | 20 Nm | 20 Nm | 30 Nm |

# P2X*M

## MANIFOLDS FOR ISO 4401-03 (CETOP 03) VALVES WITH PORTS ON REAR

### SERIES 10

— The P2X*M series of manifolds is designed for connection in parallel of two or more ISO 4401-03 (CETOP 03) valves.

— The monobloc design enables the simple creation of circuits without the use of pipes and fittings, thereby reducing overall dimensions to a minimum.

— Subplates are arranged for the installation of a pressure control valve with cartridge.

— Each section is fitted with work ports A and B positioned on the rear of the subplate.

— Subplates are fitted with additional rear ports P and T.

— Subplates are made of cast iron.

**p** max **350** bar

**Q** max **100** l/min

### TECHNICAL SPECIFICATIONS

| | | |
|---|---|---|
| Maximum operating pressure<br>- ports P - A - B<br>- port T | bar | 350<br>140 |
| Maximum flow | l/min | 100 |
| Port dimensions:<br>P - pressure<br>T - drainage<br>B - users<br>A - drainage | BSP | 1/2” |
| Ambient temperature range | °C | -20 / +50 |
| Fluid temperature range | °C | -20 / +80 |
| Fluid viscosity range | cSt | 10 ÷ 400 |
| Fluid contamination degree | cSt | 25 |
| Recommended viscosity | According to ISO 4406:1999 class 20/18/15 | |

### 1 - IDENTIFICATION CODE

| P | 2 | X | | M | / | 10 |
|---|---|---|---|---|---|---|

Manifold

Dimension 2 for ISO 4401-03 (CETOP 03) valves

Version made of cast iron

No. of mounting positions:
**2** = 2 mounting positions
**4** = 4 mounting positions
**6** = 6 mounting positions

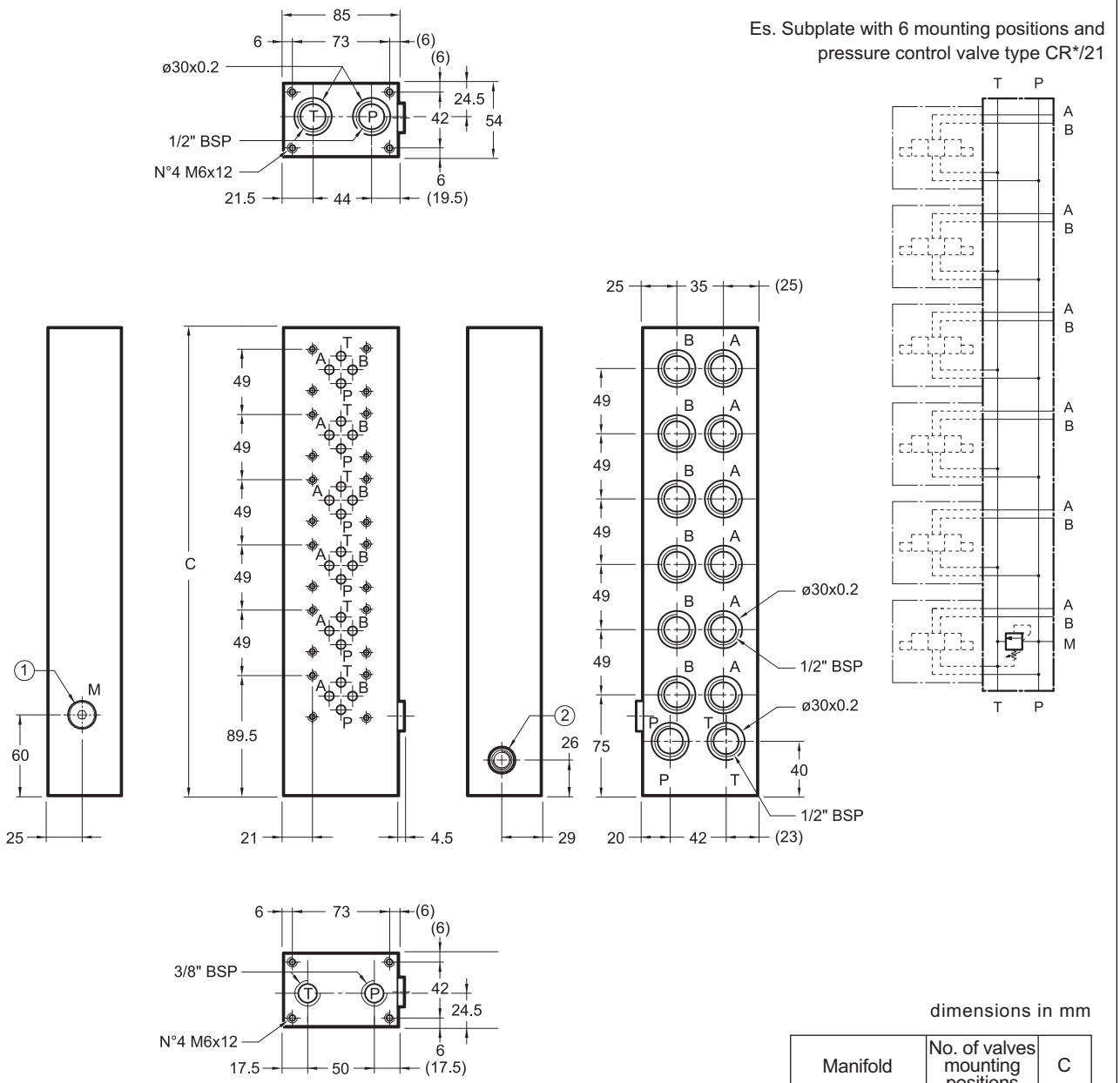
Arrangement for pressure control valve to be ordered separately:

- up to 50 l/min direct operated valve type CR* (see cat. 21100)
- up to 100 l/min pilot operated valve type CRQ (see cat. 21110)

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

## 2 - OVERALL AND MOUNTING DIMENSIONS

Es. Subplate with 6 mounting positions and pressure control valve type CR*/21




dimensions in mm

| Manifold | No. of valves mounting positions | C |
|---|---|---|
| P2X2M/10 | 2 | 150 |
| P2X4M/10 | 4 | 250 |
| P2X6M/10 | 6 | 350 |

| | |
|---|---|
| 1 | Pressure gauge port 1/4” BSP plugged |
| 2 | Arranged for the installation of a pressure control valve (to be ordered separately - see par. 1) |

# P2A*L

## MANIFOLDS FOR ISO 4401-03 (CETOP 03) VALVES WITH SIDE PORTS

### SERIES 11

— The P2A*L series of manifolds is designed for connection in parallel of two or more ISO 4401-03 (CETOP 03) valves.

— The monocast design enables the simple creation of circuits without the use of pipes and fittings, thereby reducing overall dimensions to a minimum.

— All sections feature a common pressure and discharge fitting on both ends of the subplate.

— Maximum flow rate can be increased up to double the output if the sub-plates are powered at both ends.

— Each section is fitted with work ports A and B positioned on the side of the sub-plate.

— Subplates are available in aluminium.

**p** max **210** bar

**Q** max **50** l/min

### TECHNICAL SPECIFICATIONS

| | | |
|---|---|---|
| Maximum operating pressure<br>- ports P - A - B<br>- port T | bar | <br>210<br>140 |
| Maximum flow | l/min | 50 |
| Port dimensions:<br>P - pressure<br>T - lower drainage<br>A/B - users | BSP | <br>1/2”<br>1/2”<br>3/8” |
| Ambient temperature range | °C | -20 / +50 |
| Fluid temperature range | °C | -20 / +80 |
| Fluid viscosity range | cSt | 10 ÷ 400 |
| Fluid contamination degree | cSt | 25 |
| Recommended viscosity | According to ISO 4406:1999 class 20/18/15 | |

### 1 - IDENTIFICATION CODE

| P | 2 | A | | L | / | 11 |
|---|---|---|---|---|---|---|

Manifold

Dimension 2 for ISO 4401-03 (CETOP 03) valves

Aluminium version

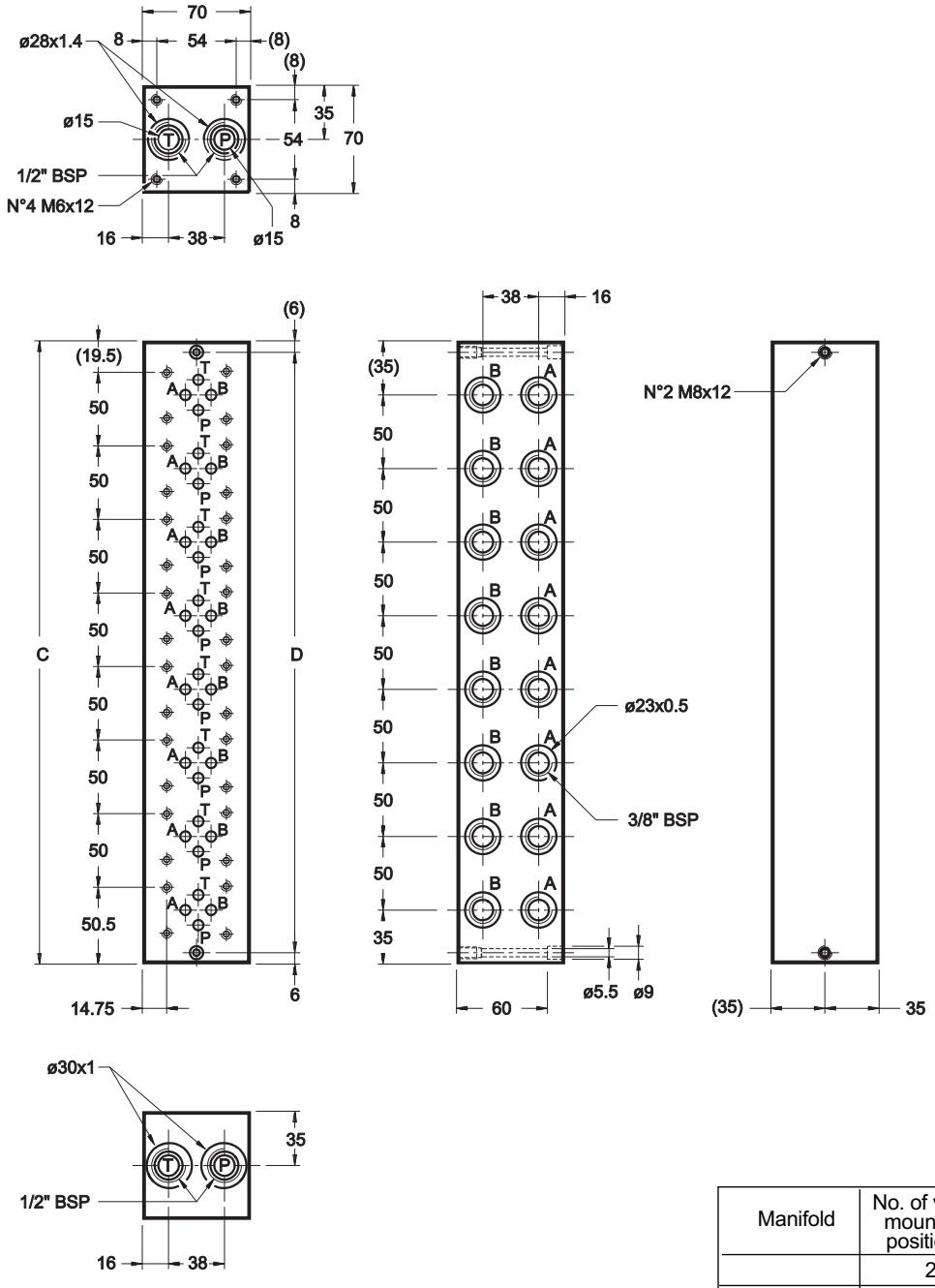
Serial No. (from 10 to 19 overall and mounting dimensions remain unchanged)

Side ports

No. of valve mounting positions:

**2** = 2 mounting positions
**3** = 3 mounting positions
**4** = 4 mounting positions
**5** = 5 mounting positions
**6** = 6 mounting positions
**8** = 8 mounting positions

## 2 - OVERALL AND MOUNTING DIMENSIONS




dimensions in mm

| Manifold | No. of valve mounting positions | C | E |
|---|---|---|---|
| | 2 | 120 | 108 |
| P2A3L | 3 | 170 | 158 |
| P2A4L | 4 | 220 | 208 |
| P2A5L | 5 | 270 | 258 |
| P2A6L | 6 | 320 | 308 |
| P2A8L | 8 | 420 | 408 |

# P2*
## MODULAR SUBPLATES FOR ISO 4401-03 (CETOP 03) VALVES

This series of modular subplates has been designed to make hydraulic circuits and can be used directly on power packs or on any other section of the machine.

The subplates are assembled by means of 4 tie-rods with seal seats incorporated in the subplate.

The above assembly achieves compact units (including pressure and discharge manifolds): one face per subplate is used for connection to services and the other to mount ISO 4401-03 (CETOP 03) valves.

Complex circuits can also be set up using modular valves.

The recommended mounting configuration for **P2*** subplates on hydraulic power packs is with the main axis positioned vertically to obtain the bundle of pipes to utilities in two vertical rows; however assembly is not restricted to this configuration.

**p** max **350** bar

**Q** max **50** l/min

### TECHNICAL SPECIFICATIONS

| | | |
|---|---|---|
| Maximum operating pressure<br>- ports P - A - B<br>- port T | bar | see paragraph 11<br>140 |
| Maximum flow | l/min | 50 |
| Port dimensions:<br>P - pressure<br>T - lower drainage<br>T - upper drainage<br>A/B - users | BSP | <br>3/8”<br>1/2”<br>3/8”<br>3/8” |
| Ambient temperature range | °C | -20 / +50 |
| Fluid temperature range | °C | -20 / +80 |
| Fluid viscosity range | cSt | 10 ÷ 400 |
| Fluid contamination degree | cSt | 25 |
| Recommended viscosity | According to ISO 4406:1999 class 20/18/15 | |

### 1 - IDENTIFICATION CODE

| P | 2 | D | - | | / | 21 |
|---|---|---|---|---|---|---|

Subplate

Dimension for ISO 4401-03 (CETOP 03) valves

Single mounting facility

Versions: (omit for standard subplate P2D/21)

**F** = with P - T threaded ports and additional pressure port.

**I** = intermediate with threaded fastening holes to reduce rods lenght and additional pressure port.

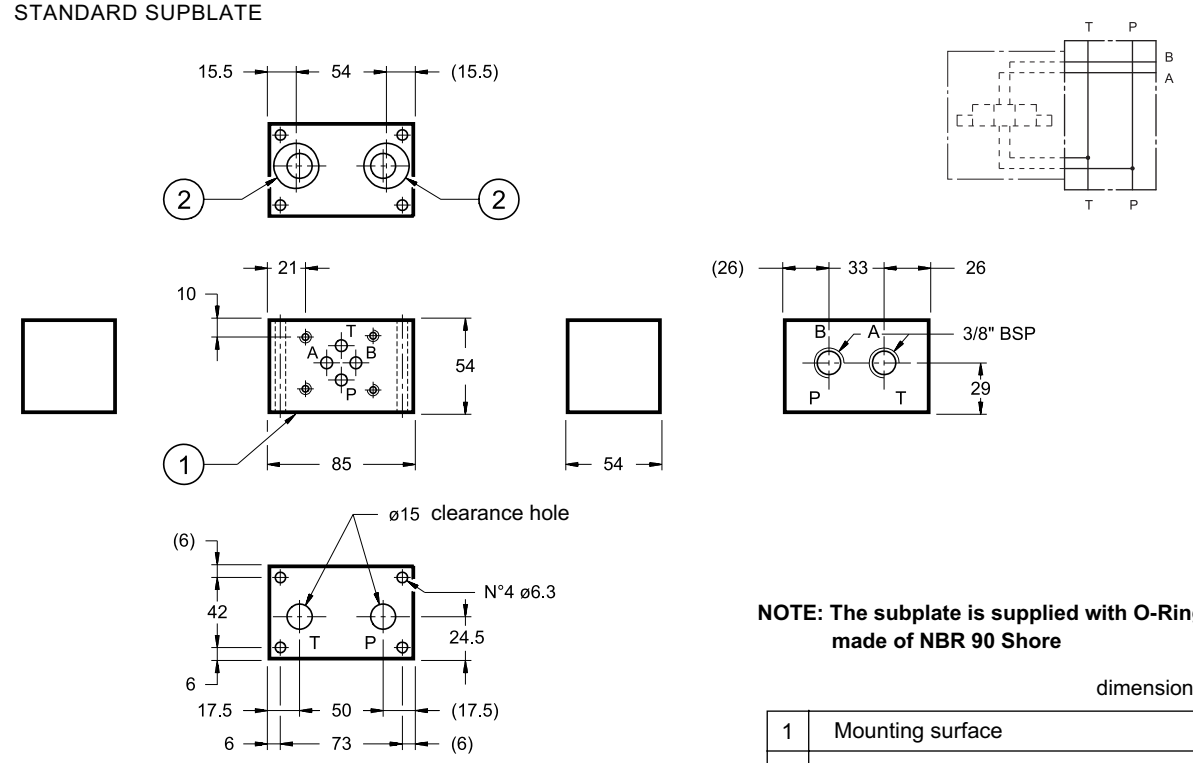
**Z** = arranged for the installation of an MZD pressure reducing valve

Serial No :
(from 20 to 29 and from 30 to 39 overall and mounting dimensions remain unchanged)

**NOTE: identification code of subplates P2*-M*/33 see paragraph 6**

## 2 - OVERALL AND MOUNTING DIMENSIONS P2D/21 (cod. 1560121)

STANDARD SUPBLATE




Mass: kg 1,5

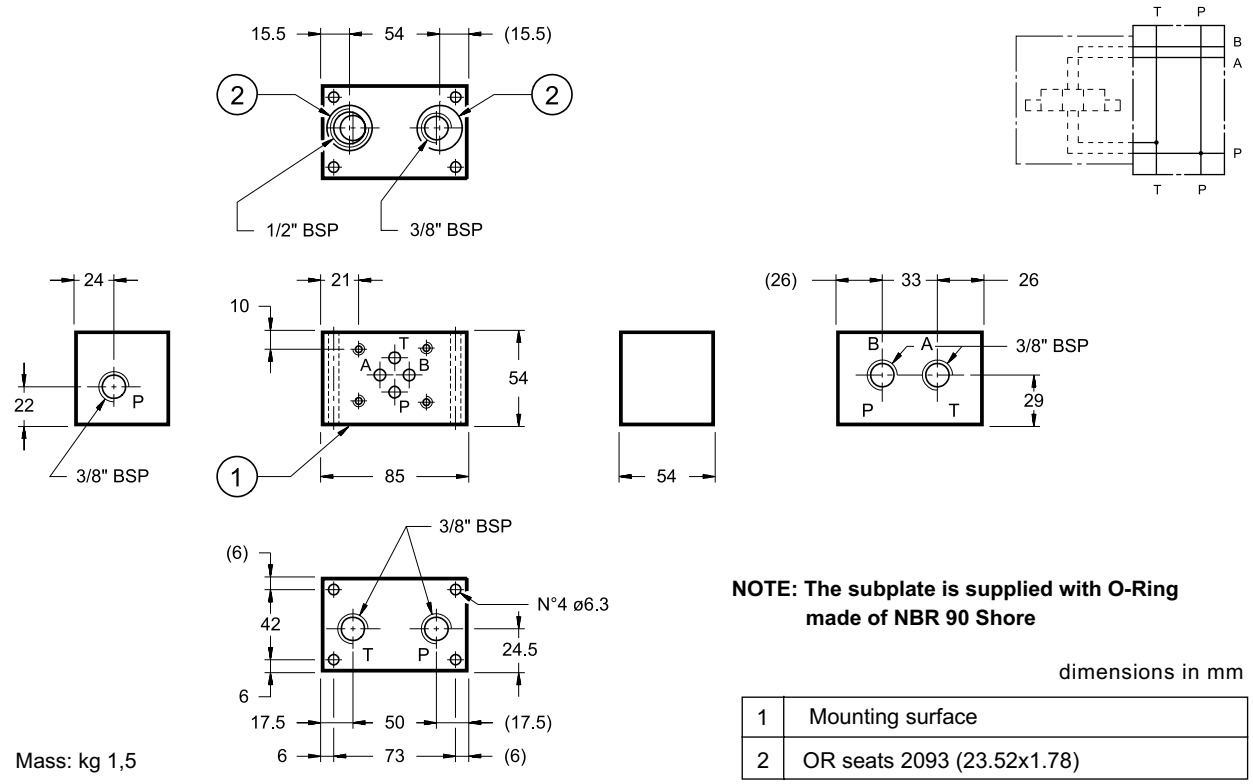
**NOTE: The subplate is supplied with O-Ring made of NBR 90 Shore**

dimensions in mm

| | |
|---|---|
| 1 | Mounting surface |
| 2 | OR seats 2093 (23.52x1.78) |

## 3 - OVERALL AND MOUNTING DIMENSIONS P2D-F/21 (cod. 1560122)

P - T THREADED PORTS AND ADDITIONAL PRESSURE PORT SUBPLATE




Mass: kg 1,5

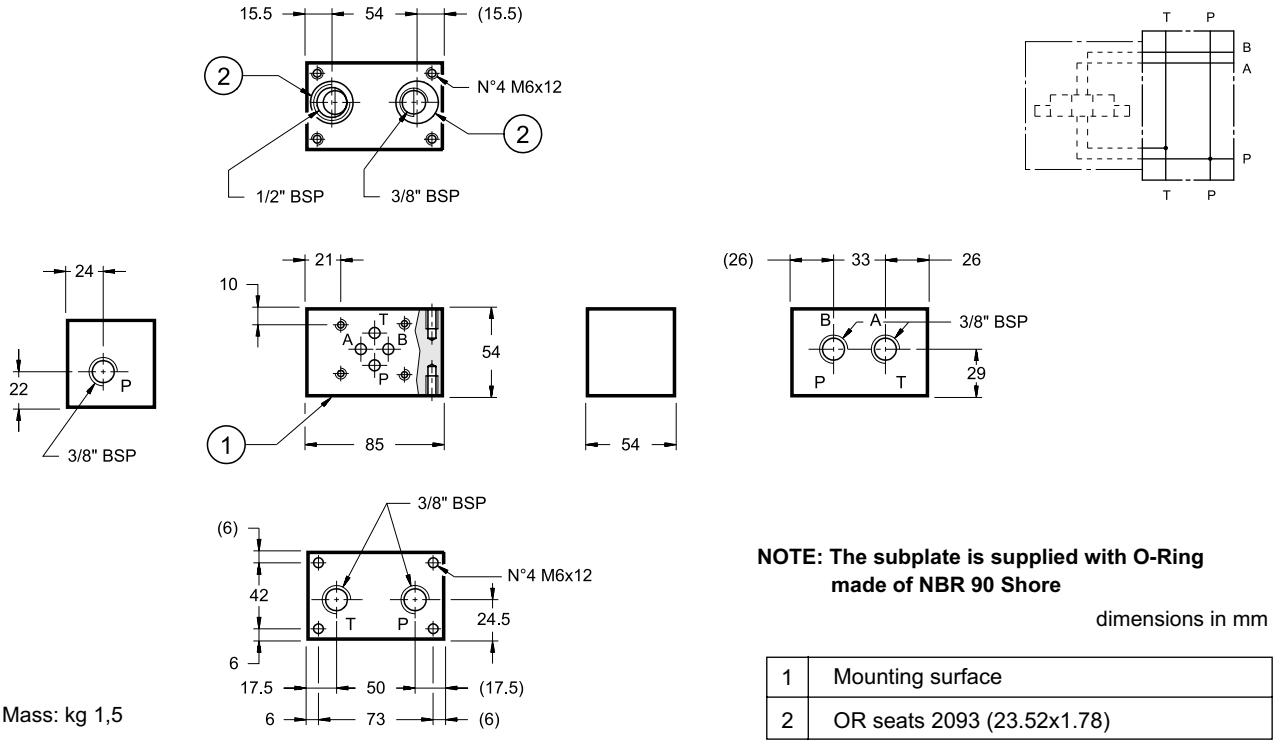
**NOTE: The subplate is supplied with O-Ring made of NBR 90 Shore**

dimensions in mm

| | |
|---|---|
| 1 | Mounting surface |
| 2 | OR seats 2093 (23.52x1.78) |

## 4 - OVERALL AND MOUNTING DIMENSIONS P2D-I/21 (cod. 1560123)

INTERMEDIATE SUBPLATE WITH THREADED FASTENING HOLES TO REDUCE ROD LENGHT AND ADDITIONAL PRESSURE PORT




**NOTE: The subplate is supplied with O-Ring made of NBR 90 Shore**

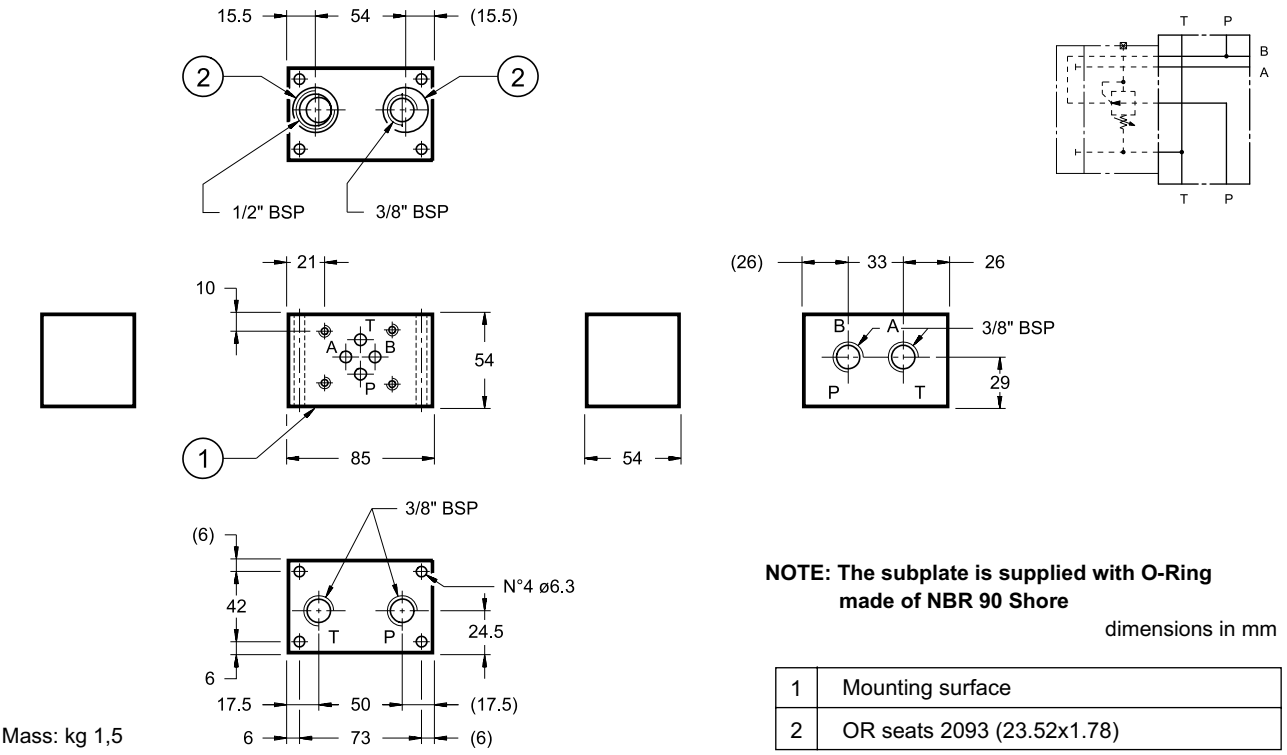
dimensions in mm

| | |
|---|---|
| 1 | Mounting surface |
| 2 | OR seats 2093 (23.52x1.78) |

Mass: kg 1,5

## 5 - OVERALL AND MOUNTING DIMENSIONS P2D-Z/21 (cod. 1560025)

SUBPLATE ARRANGED FOR THE INSTALLATION OF AN MZD PRESSURE REDUCING VALVE




**NOTE: The subplate is supplied with O-Ring made of NBR 90 Shore**

dimensions in mm

| | |
|---|---|
| 1 | Mounting surface |
| 2 | OR seats 2093 (23.52x1.78) |

Mass: kg 1,5

## 6 - IDENTIFICATION CODE subplates with incorporated pressure control valve

| P | 2 | | - | | / | 33 |
|---|---|---|---|---|---|---|

Subplate

Dimension for
ISO 4401-03 (CETOP 03) valves

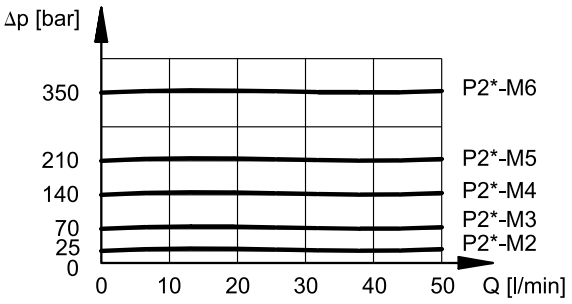
**D** = single mounting facility
**T** = double mounting facility

**M** = with incorporated pressure control valve and P -T threaded ports
Pressure regulation range:
**M2** = up to 25 bar **M5** = up to 210 bar
**M3** = up to 70 bar **M6** = up to 350 bar
**M4** = up to 140 bar

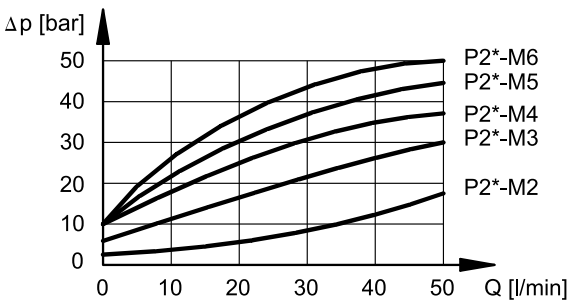
Serial No. (from 30 to 39 overall and mounting dimensions remain unchanged)

## 7 - CHARACTERISTIC CURVES FOR P2D-M* E P2T-M* SUBPLATES WITH PRESSURE CONTROL VALVE INCORPORATED (values obtained with viscosity of 36 cSt at 50°C)

ADJUSTMENT

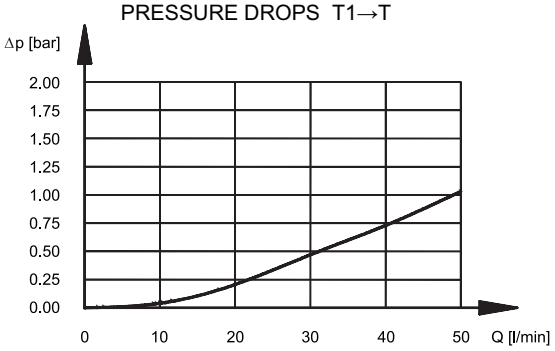



MINIMUM CONTROLLED PRESSURE




pressure drops P-T with calibrated screw at the regulation beginning (minimum controlled pressure)

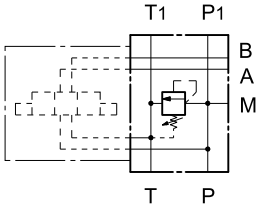
PRESSURE DROPS T1→T

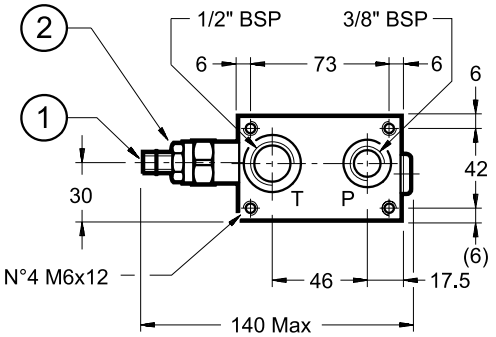


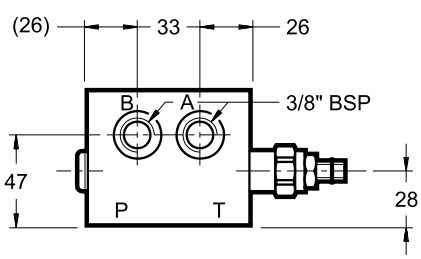
## 8 - OVERALL AND MOUNTING DIMENSIONS P2D-M*/ 33

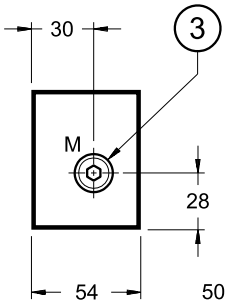
SINGLE MOUNTING FACILITY SUBPLATE WITH PRESSURE RELIEF VALVE INCORPORATED

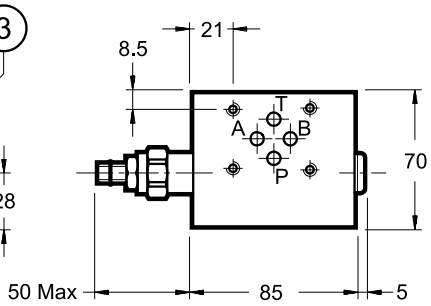
**HYDRAULIC SYMBOL**

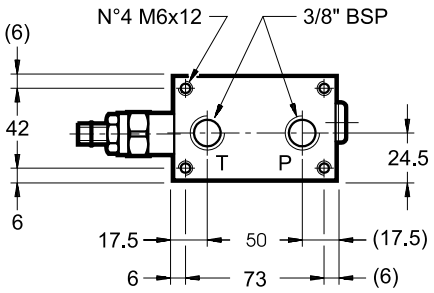



dimensions in mm

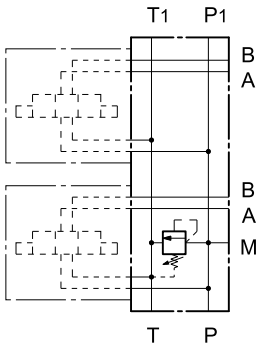
| | |
|---|---|
| 1 | Countersunk hex. adjustment screw: spanner 6<br>Clockwise rotation to increase pressure |
| 2 | Locking nut: spanner 19 |
| 3 | Pressure gauge port 1/4” BSP plugged |

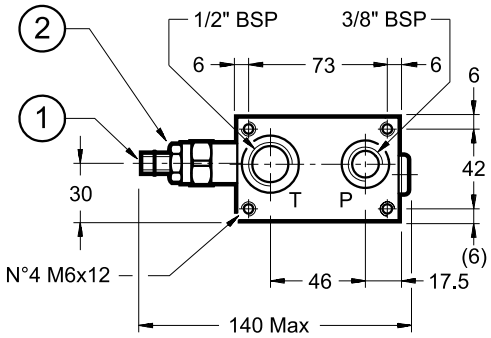
Mass: kg 2,5

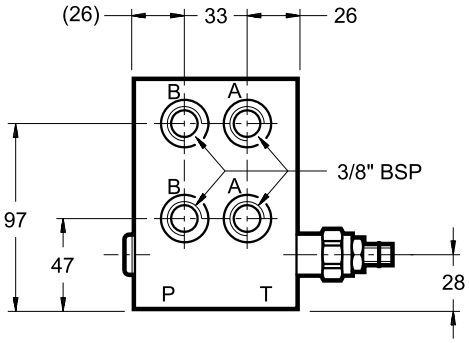
## 9 - OVERALL AND MOUNTING DIMENSIONS P2T-M* /33

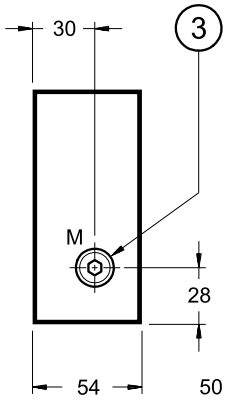
DOUBLE MOUNTING FACILITY SUBPLATE WITH PRESSURE RELIEF VALVE INCORPORATED

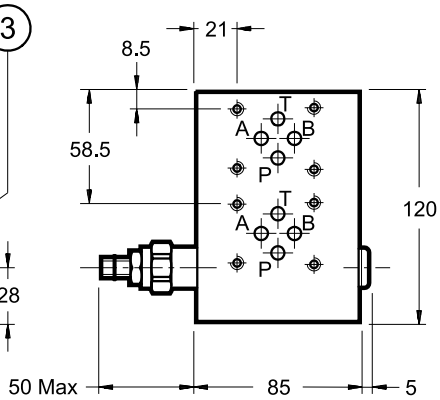
**HYDRAULIC SYMBOL**

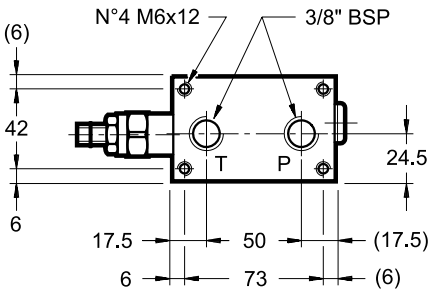



dimensions in mm

| | |
|---|---|
| 1 | Countersunk hex adjustment screw: spanner 6<br>Clockwise rotation to increase pressure |
| 2 | Locking nut: spanner 19 |
| 3 | Pressure gauge port 1/4” BSP plugged |

Mass: kg 5

## 10 - 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.

## 11 - PRESSURE LIMIT ON P

Depending on the tie-rod type and on the number of assembled suplates it is necessary to pay attention to the maximum pressure on P in order to avoid extruding the O-Rings.

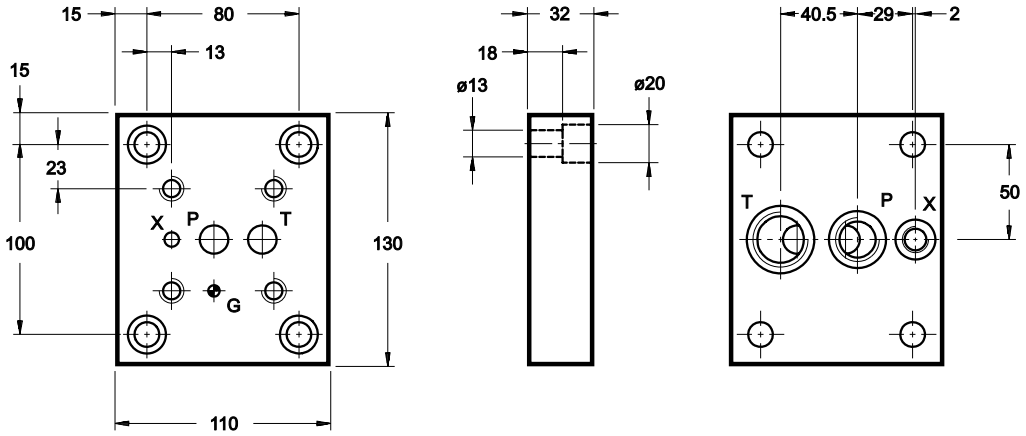
| n° of assembled subplates | Threaded bar class B7<br>DIN 975 | Stud class 8.8<br>UNI 5911 | Stud class 12.9 |
|---|---|---|---|
| 2 | 350 bar | 350 bar | 350 bar |
| 3 | 300 bar | 350 bar | 350 bar |
| 4 | 250 bar | 300 bar | 350 bar |
| 5 | 200 bar | 250 bar | 300 bar |
| 6 | 150 bar | 200 bar | 250 bar |
| Tightening torque | 8 Nm | 8 Nm | 12 Nm |

# SUBPLATES
# PMRQ*
## SUBPLATES FOR PRESSURE CONTROL VALVES

### 1 - OVERALL AND MOUNTING DIMENSIONS PMRQ3-AI4G/20 (cod. 1961211)

ISO 6264-06-09-*-97
(CETOP 4.4.2-2-R06-350)

dimensions in mm




Ports on rear.

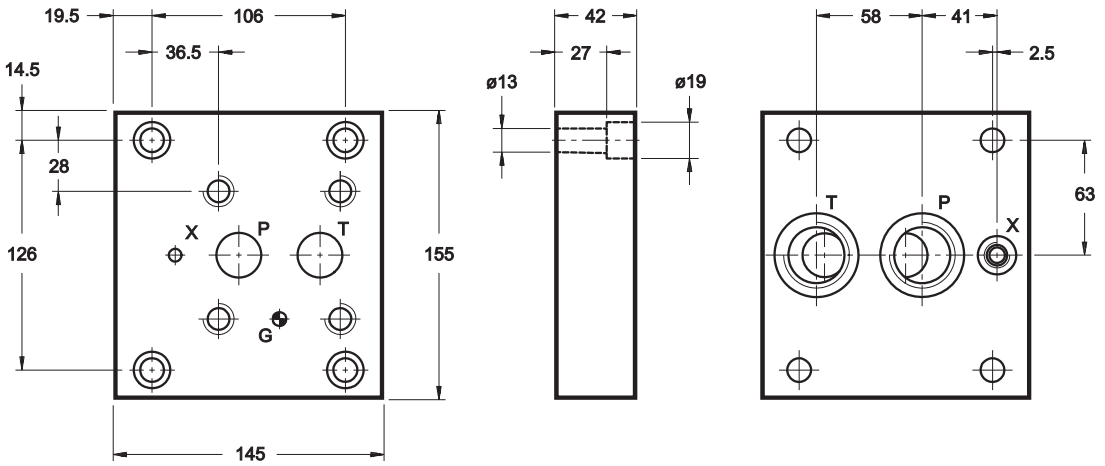
Threading of ports: P 1/2" BSP; T 3/4" BSP; X 1/4" BSP

**p** max **350** bar Mass: kg 3,0

### 2 - OVERALL AND MOUNTING DIMENSIONS PMRQ5-AI5G/20 (cod. 1961221)

ISO 6264-08-13-*-97
(CETOP 4.4.2-2-R08-350)

dimensions in mm




Ports on rear.

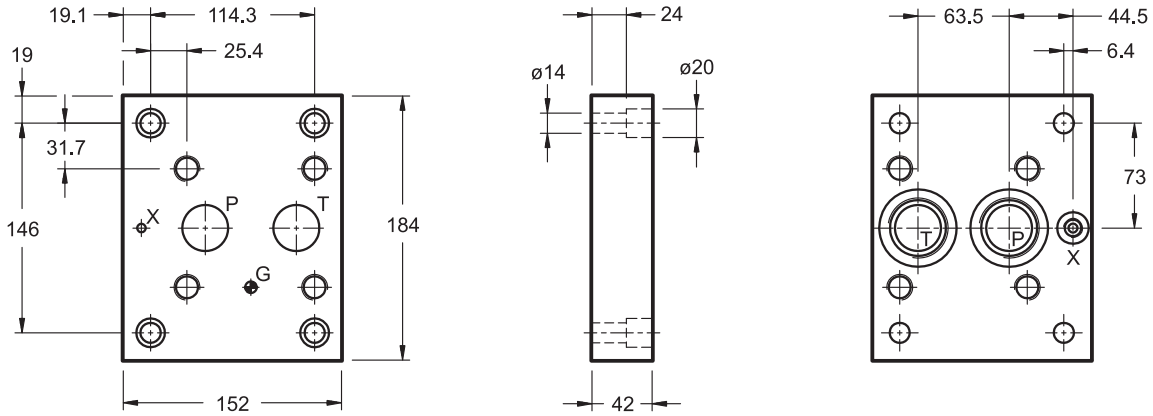
Threading of ports: P-T 1" BSP; X 1/4" BSP

**p** max **350** bar Mass: kg 6,5

### 3 - OVERALL AND MOUNTING DIMENSIONS PMRQ7-AI7G/10 (cod. 1960051)

ISO 6264-10-17-*-97
(CETOP 4.4.2-2-R10-350)

dimensions in mm



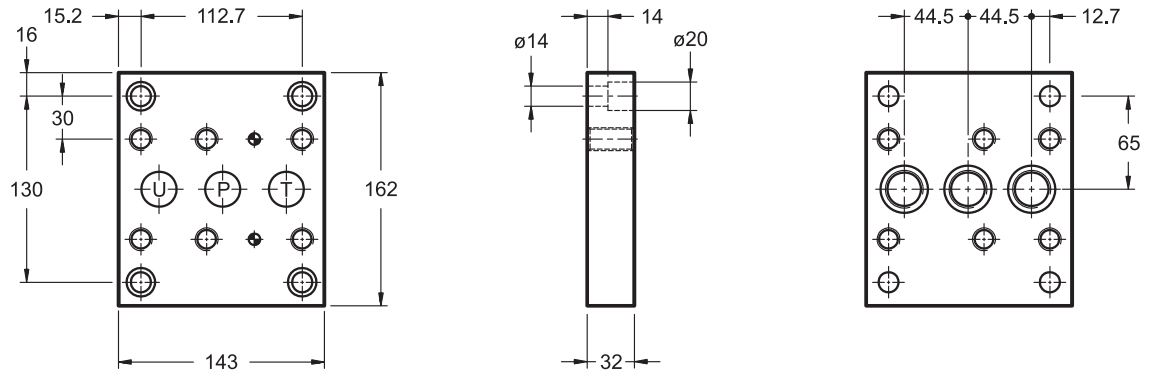

Ports on rear. Threading of ports: P-T 1” 1/4 BSP; X 1/4” BSP

**p** max **350** bar

Mass: kg 7,1

### 4 - OVERALL AND MOUNTING DIMENSIONS PMRQA5-AI5G/10 (cod. 1960070)

dimensions in mm




Ports on rear. Threading of ports: P - T - U 3/4” BSP

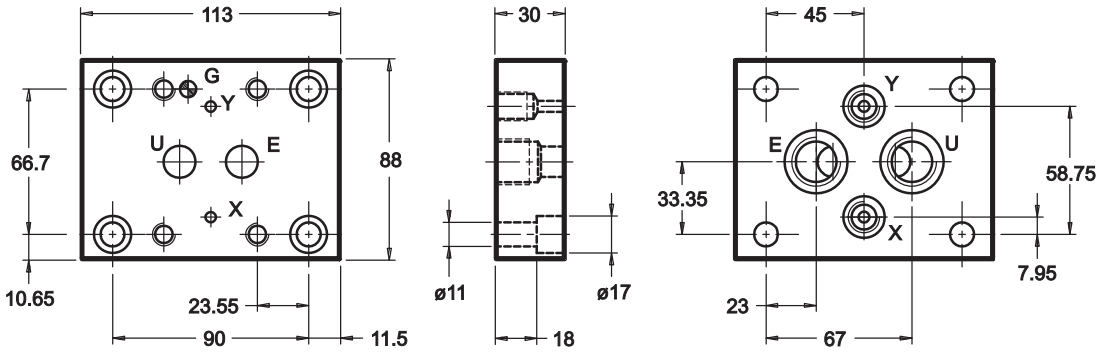
**p** max **350** bar

Mass: kg 6,5

### 5 - OVERALL AND MOUNTING DIMENSIONS PMSZ3-AI4G/20 (cod. 1961231)

ISO 5781-06-07-*-00
(CETOP 4.4.4-2-06-320)

dimensions in mm




Ports on rear.

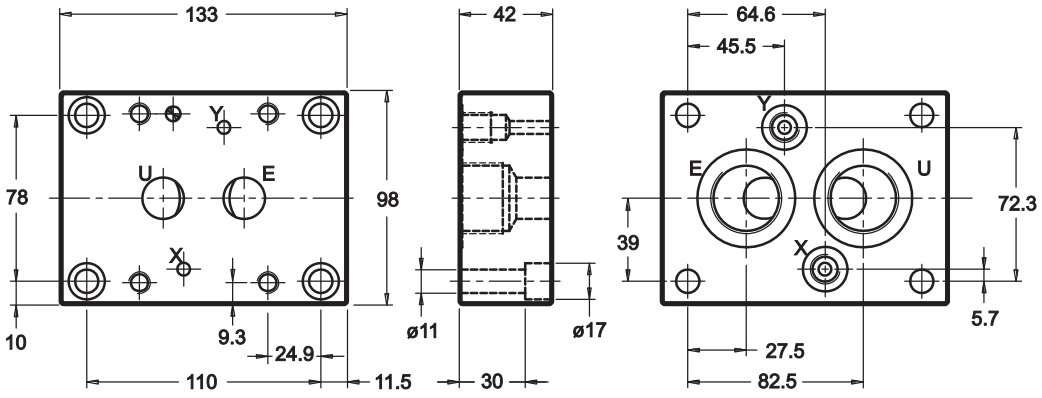
Threading of ports: E-U 1/2" BSP; X-Y 1/4" BSP

**p** max **320** bar Mass: kg 2,0

### 6 - OVERALL AND MOUNTING DIMENSIONS PMSZ5-AI6G/20 (cod. 1961241)

ISO 5781-08-10-*-00
(CETOP 4.4.5-2-08-320)

dimensions in mm




Ports on rear.

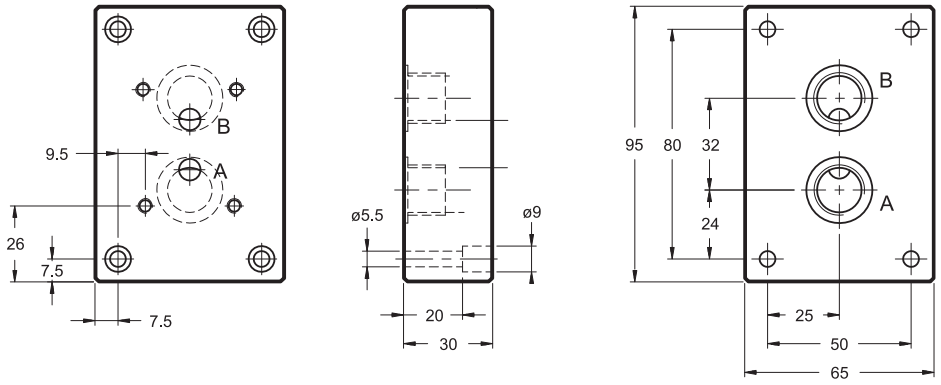
Threading of ports: E-U 1" BSP; X-Y 1/4" BSP

**p** max **320** bar Mass: kg 4,0

### 7 - OVERALL AND MOUNTING DIMENSIONS PMRPC1-AI3G/10 (cod. 1961045)

ISO 6263-03-03-*-97
(CETOP 4.5.2-2-03-250)

dimensions in mm




Ports on rear. Threading on ports: A - B 3/8" BSP

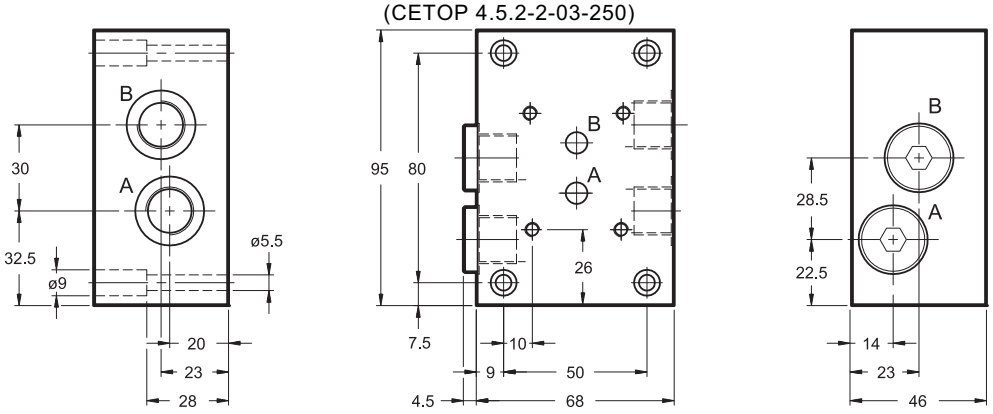
**p** max **250** bar

Mass: kg 1,2

### 8 - OVERALL AND MOUNTING DIMENSIONS PMRPC1-AL3G/10 (cod. 1961051)

ISO 6263-03-03-*-97
(CETOP 4.5.2-2-03-250)

dimensions in mm




Side ports. Threading on ports: A - B 3/8" BSP

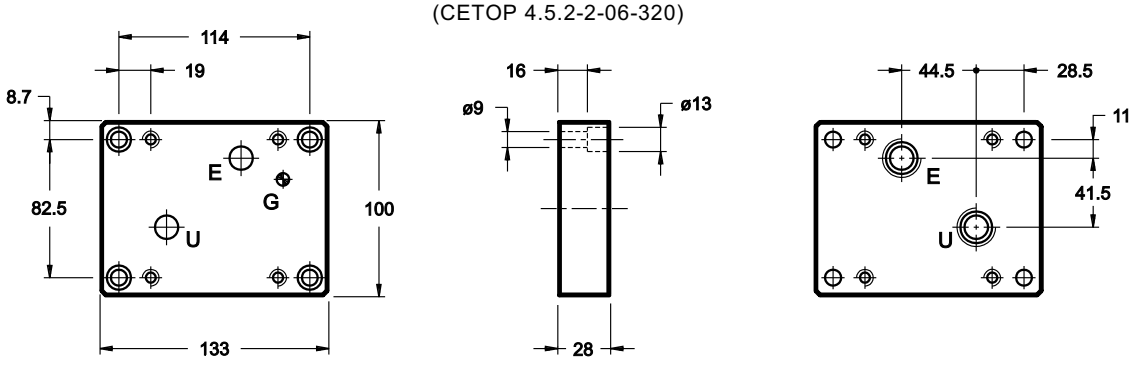
**p** max **250** bar

Mass: kg 1,9

### 9 - OVERALL AND MOUNTINGDIMENSIONS PMRPC2-AI4G/10 (cod. 1960330)

ISO 6263-06-05-*-97
(CETOP 4.5.2-2-06-320)

dimensions in mm




Ports on rear. Threading ports: E - U 1/2" BSP

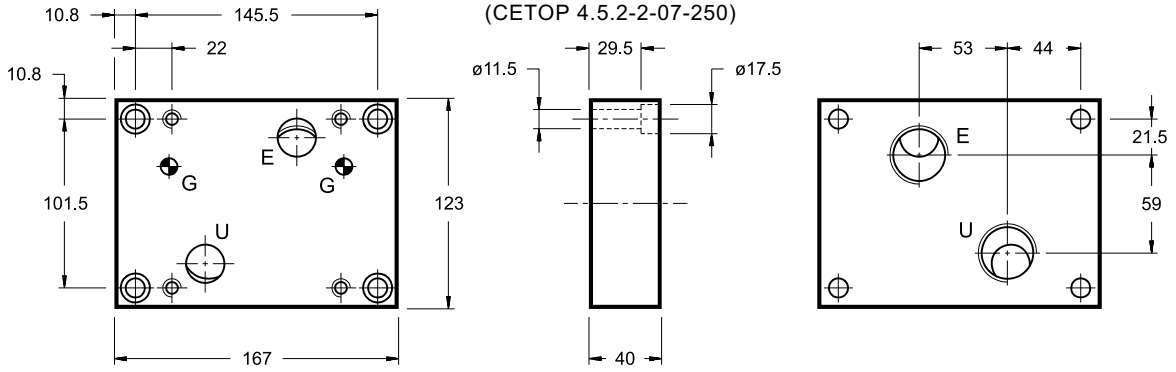
**p** max **320** bar

Mass: kg 2,5

### 10 - OVERALL AND MOUNTING DIMENSIONS PMRPC3-AI6G/10 (cod. 1960511)

ISO 6263-07-09-*-97
(CETOP 4.5.2-2-07-250)

dimensions in mm




Ports on rear. Threading of ports: E - U 1” BSP

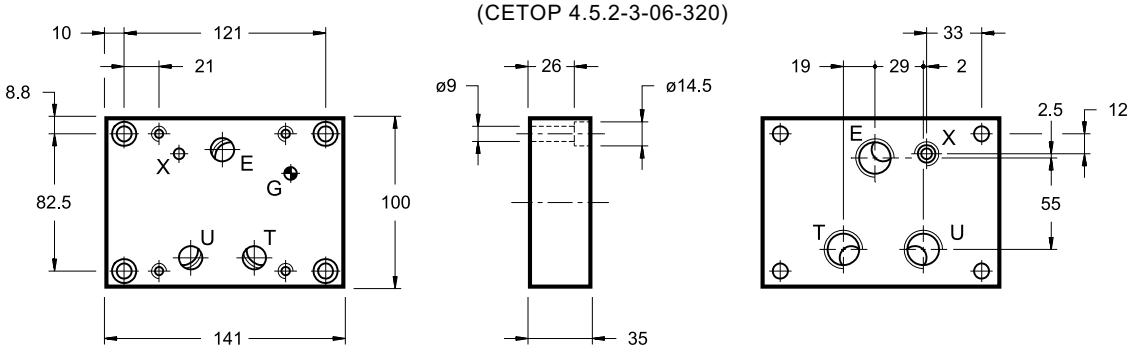
**p** max **250** bar

Mass: kg 5,5

### 11 - OVERALL AND MOUNTING DIMENSIONS PMRPCQ2-AI4G/10 (cod. 1960526)

ISO 6263-06-07-*-97
(CETOP 4.5.2-3-06-320)

dimensions in mm




Ports on rear. Threading of ports: E - U - T 1/2” BSP; X 1/4” BSP

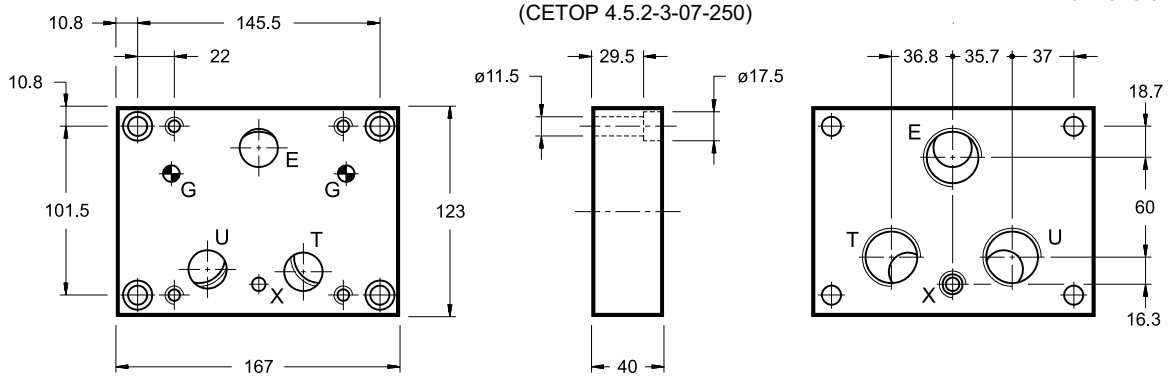
**p** max **320** bar

Mass: kg 3,3

### 12 - OVERALL AND MOUNTING DIMENSIONS PMRPCQ3-AI6G/10 (cod. 1960423)

ISO 6263-07-11-*-97
(CETOP 4.5.2-3-07-250)

dimensions in mm




Ports on rear. Threading of ports: E - U - T 1” BSP; X 1/4” BSP

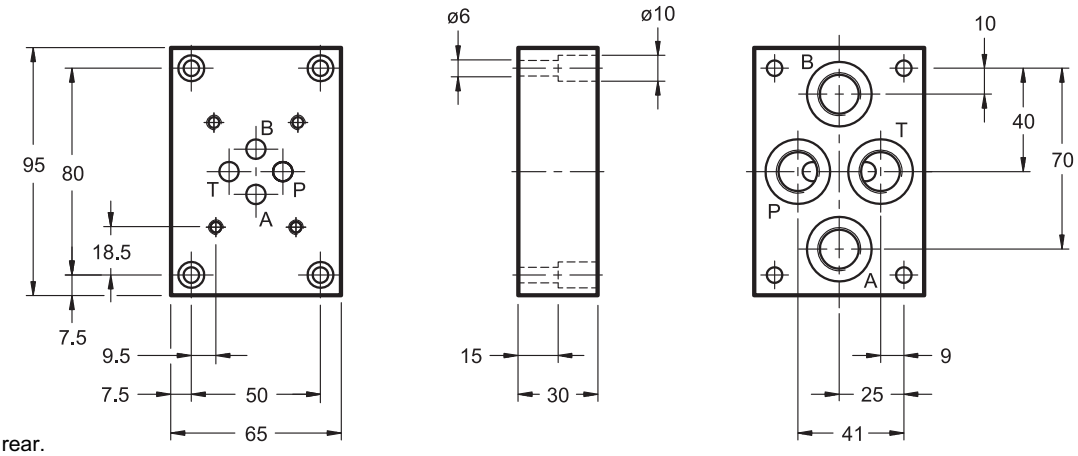
**p** max **250** bar

Mass: kg 5,8

### 13 - OVERALL AND MOUNTING DIMENSIONS PMMD-AI3G/20 (cod. 1961261)

ISO 4401-03-02-0-05
(CETOP 4.2-4-03-350)

dimensions in mm




Ports on rear.

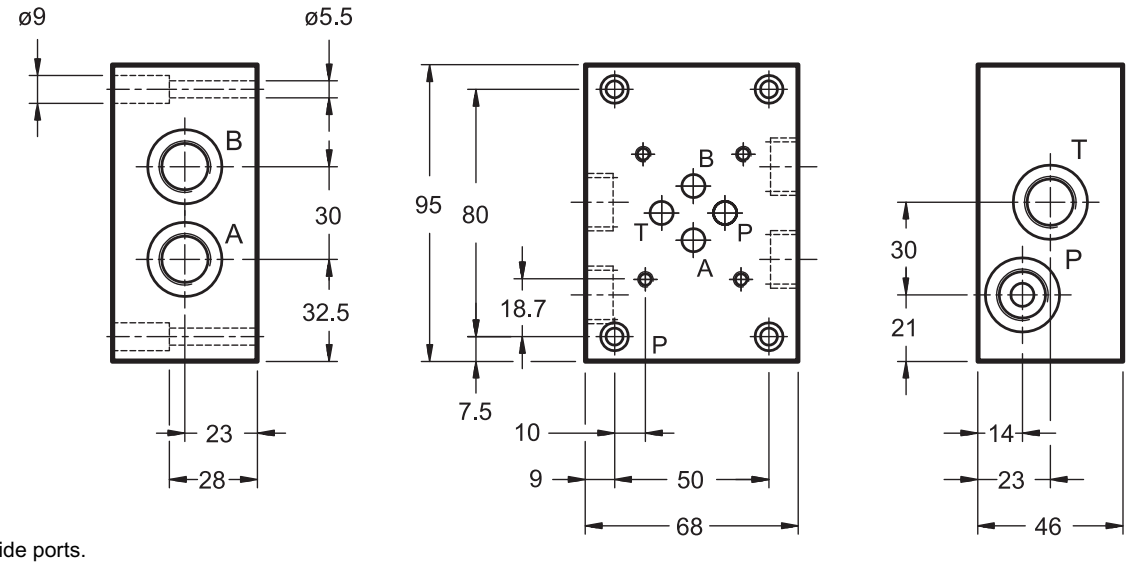
Threading on ports: P - T - A - B 3/8" BSP

**p** max **350** bar Mass: kg 1,2

### 14 - OVERALL AND MOUNTING DIMENSIONS PMMD-AL3G/11 (cod. 1961251)

ISO 4401-03-02-0-05
(CETOP 4.2-4-03-350)

dimensions in mm




Side ports.

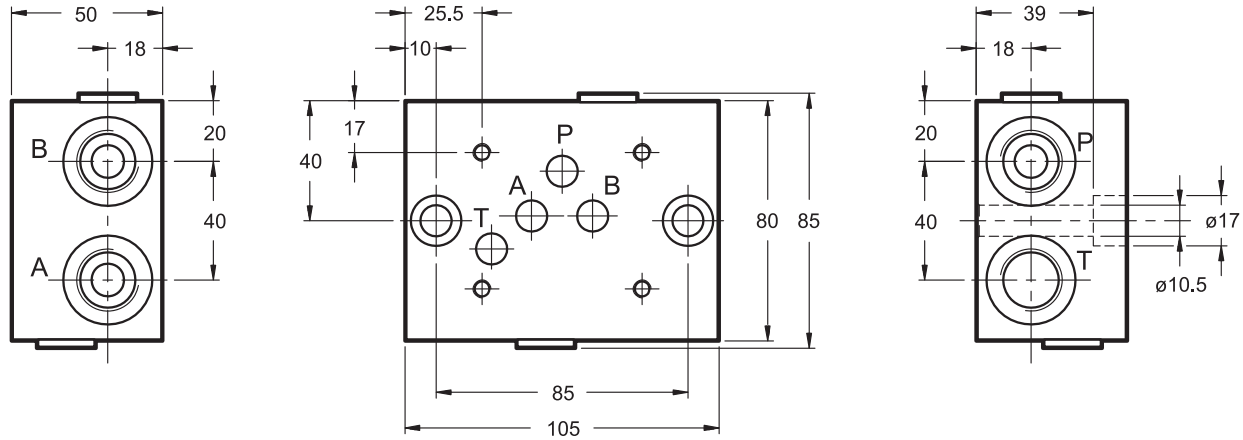
Threading of ports: P - T - A - B 3/8" BSP

**p** max **350** bar Mass: kg 2,2

### 15 - OVERALL AND MOUNTING DIMENSIONS PMD4-AL4G/10 (cod. 1960981)

ISO 4401-05-04-0-05
(CETOP 4.2-4-05-350)

dimensions in mm




Side ports.

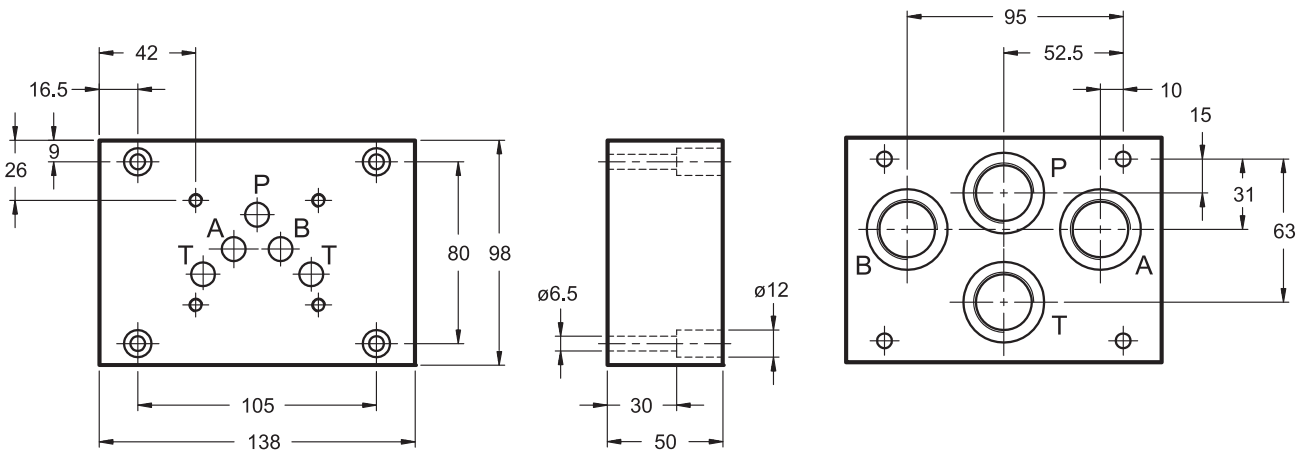
Threading of ports: P-T-A-B 1/2" BSP

**p** max **350** bar Mass: kg 2,2

### 16 - OVERALL AND MOUNTING DIMENSIONS PMD4-AI4G/20 (cod. 1961271)

ISO 4401-05-04-0-05
(CETOP 4.2-4-05-350)

dimensions in mm




Ports on rear.

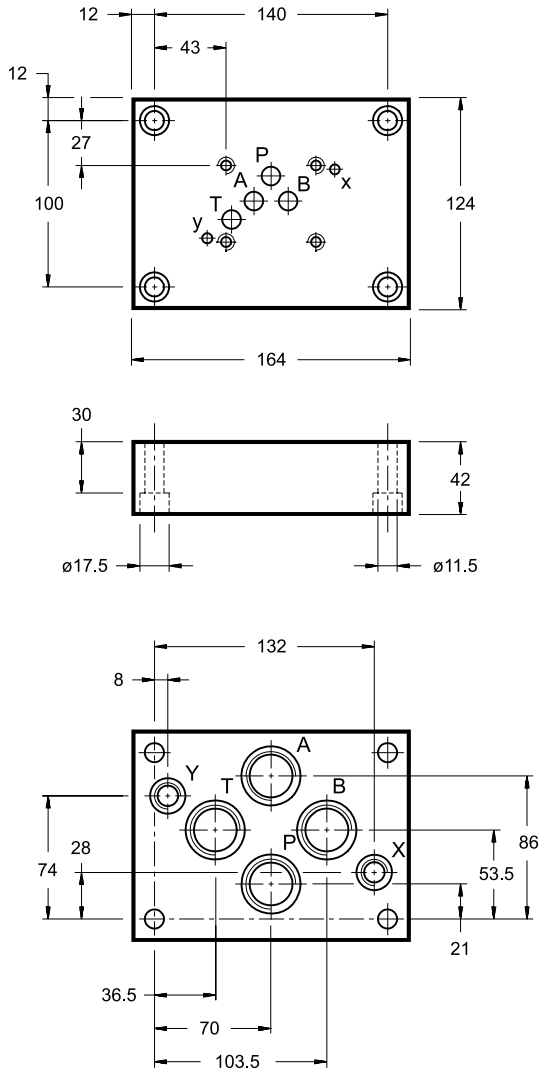
Threading of ports: P-T-A-B 3/4" BSP

**p** max **350** bar Mass: kg 4,2

## 17 - OVERALL AND MOUNTING DIMENSIONS PME4-AI5G/10 (cod. 1961181)

CETOP 4.2-4-P05-320

dimensions in mm



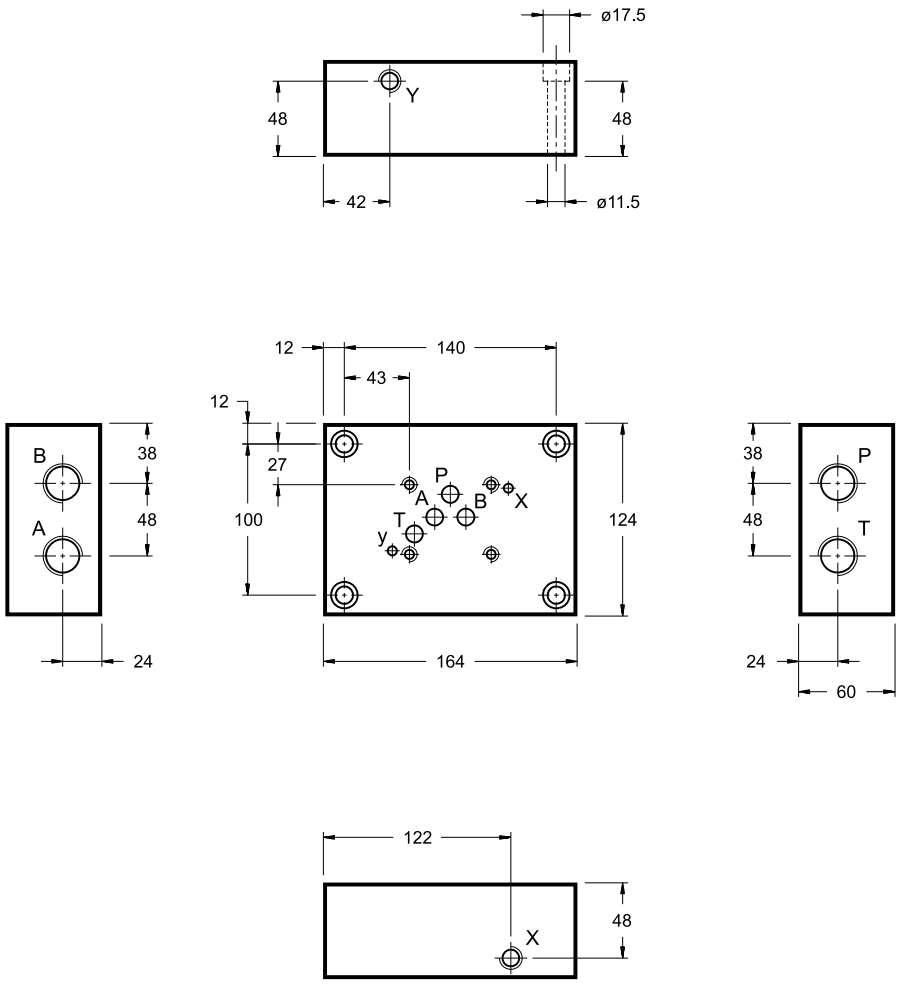

Ports on rear.
Threading of ports:
P-T-A-B 3/4" BSP
X-Y 1/4" BSP

**p** max **320** bar Mass: kg 5,3

## 18 - OVERALL AND MOUNTING DIMENSIONS PME4-AL5G/10 (cod. 1961201)

CETOP 4.2-4-P05-320

dimensions in mm



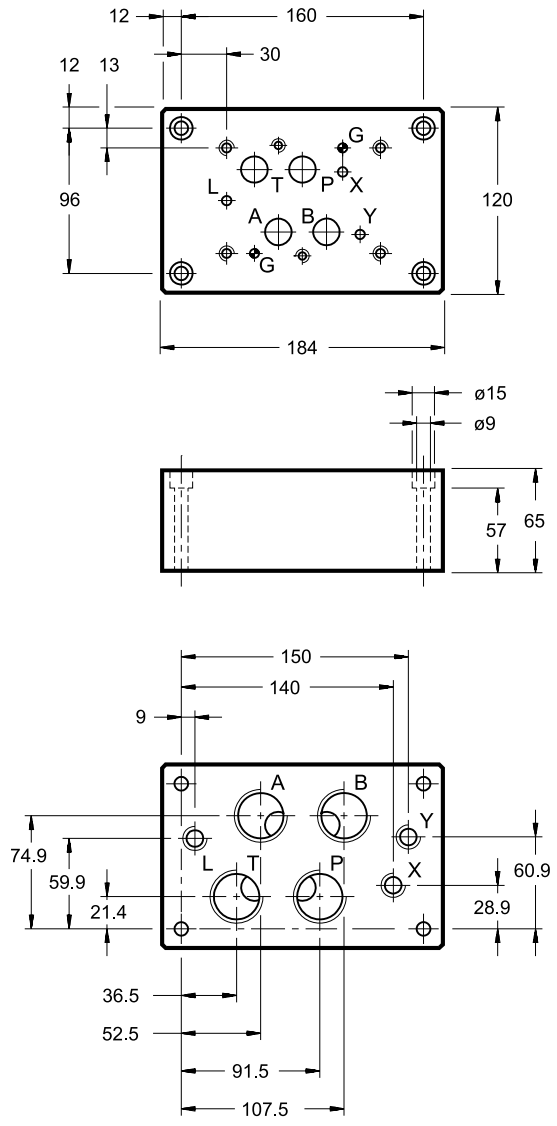

Side ports.
Threading of ports:
P-T-A-B 3/4" BSP
X-Y 1/4" BSP

**p** max **320** bar Mass: kg 5,3

## 19 - OVERALL AND MOUNTING DIMENSIONS PME07-AI6G/10 (cod. 1961071)

dimensions in mm

ISO 4401-07-07-0-05
(CETOP 4.2-4-07-350)




Ports on rear.
Threading of ports:
P-T-A-B 1" BSP
X-Y-L 1/4" BSP

**p** max **350** bar

Mass: kg 9

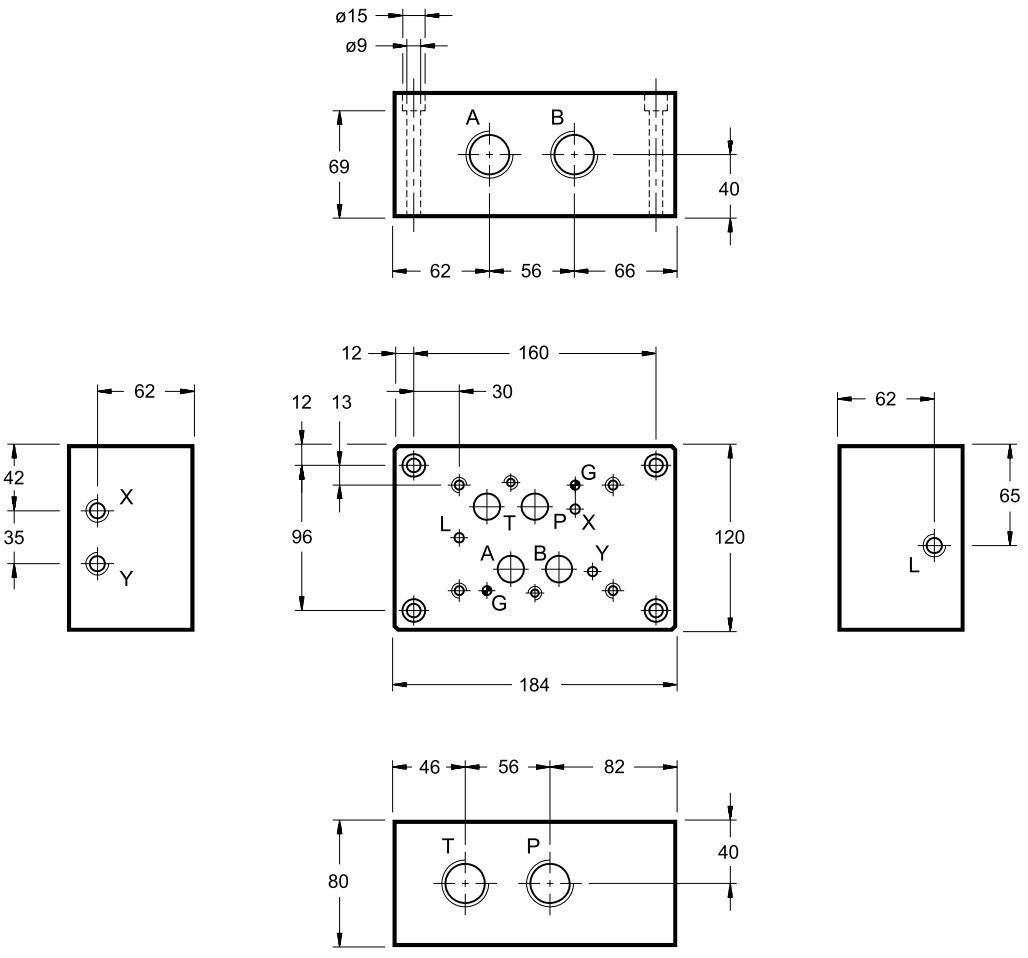
# PME07

## SUBPLATES FOR ISO 4401-07 (CETOP 07) VALVES

### 20 - OVERALL AND MOUNTING DIMENSIONS PME07-AL6G/10 (cod. 1961111)

dimensions in mm

ISO 4401-07-07-0-05
(CETOP 4.2-4-07-350)




Side ports.
Threading of ports:
P-T-A-B 1” BSP
X-Y-L 1/4” BSP

**p** max **350** bar

Mass: kg 11,5

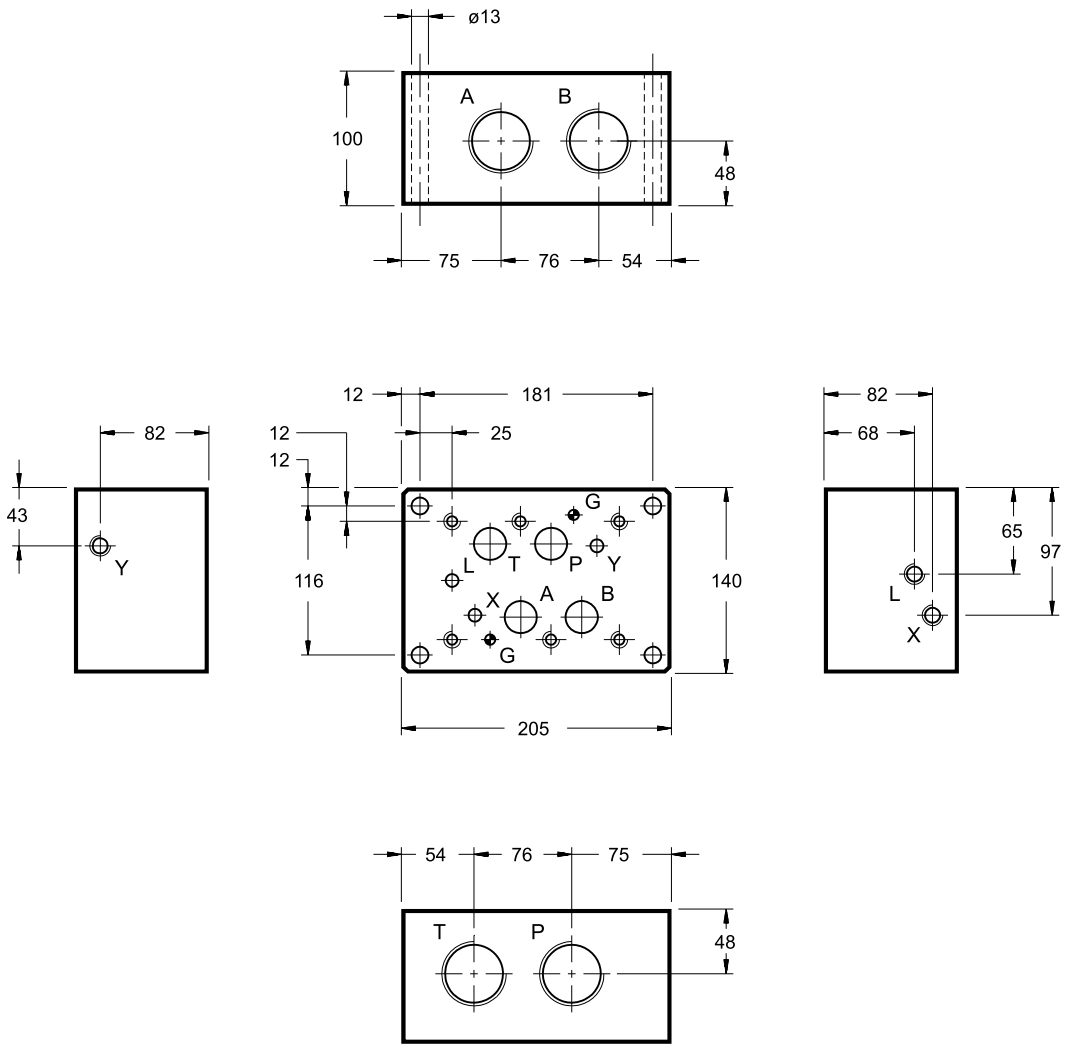
# PME5

## SUBPLATES FOR ISO 4401-08 (CETOP 08) VALVES

### 21 - OVERALL AND MOUNTING DIMENSIONS PME5-AL8G/10 (cod. 1961141)

dimensions in mm

ISO 4401-08-08-0-05
(CETOP 4.2-4-08-320)




Side ports.
Threading of ports:
P-T-A-B 1” 1/2 BSP
X-Y-L 1/4” BSP

Mass: kg 19