

Standard solutions for CNC press brakes

CE and non CE design



Standard electrohydraulic solutions for CNC synchronized press brakes are available in three sizes with different executions:

- **PB06**, solution with central block design for small / medium machines, including:
- central manifold with proportional pressure control, size 06 synchronization servoproportional valves, safety valves.
- **PB10**, solution with modular blocks design for medium / big machines, including:
- size 16 or 25 pressure control block
- n°2 size 10 synchronization control blocks, at choice to be installed on the prefilling blocks or assembled in any other point of the press brake.

PB11, solution like PB10, but with size 10P pilot operated proportional directional valves for synchronization control with high flow performances

PB*-C designs are CE certified by TÜV according to the EN 12622.

PB*-**N** are non CE version, without monitored safety valves.

See sections (1) and (5) for blocks composition and available proportional controls.



(1): including separated card driver E-ME-T-2*H (Eurocard format)



(2):Other prefilling sizes or based on customized mounting surfaces available on request

3 BASIC FOR THE SIZING OF THE BLOCKS SOLUTIONS

| Pressing Force (kN) | Pump flow (I/min) | Working pressure (bar) | Block solution model code | Proportional valve nominal flow at Δp 15 bar per edge (l/min) | Typical Prefilling valve size | Nominal prefilling valve flow in suction condition (l/min) |
|------------------------|----------------------|---------------------------|--------------------------------------|---|----------------------------------|--|
| 400 - 1250 | | | | 28, 40, 50 for control type HE, HA, HT, HTE, | 25 | 150 |
| 1250 - 2000 | Up to 50 | | PB06-*-16 all models | HTEB, HTES | 32 | 225 |
| 2000 - 3000 | | | | 9, 18, 27 for control type LT, LTE, LTEB, LTES | 40 | 350 |
| 3000 - 6000 | Lip to 150 | Up to 315 | PB10-*-16 | | 50 | 500 |
| 6000 - 10000 | UP 10 150 | | all models | 60, 80, 105 for control type HA, HT, HTE, HTEB, | 63 | 800 |
| 10000 - 15000 | Up to 220 | | PB10-*-25 PB11-*-25 all models | 40, 60 for control type LT, LTE, LTEB, LTES | To b depending to the | be defined, machine characteristics |

Note: The above data are indicative. The sizing of the block solutions must be checked by Atos according to the specific machine characteristics

4 MAIN CHARACTERISTICS

| Ambient temperature | -20°C to +70°C for -A execution; -20°C to +60°C for -T, -TE, -TEB and -TES executions. |
|---------------------------|---|
| Fluid | Hydraulic oil as per DIN 51524 535 |
| Recommended viscosity | 15 ÷ 100 mm²/s at 40°C (ISO VG 15 ÷ 100) |
| Fluid contamination class | ISO 18/15, achieved with in line filters at 10 μ m value to $\beta_{10} \ge 75$ (recommended) |
| Fluid temperature | -20°C +60°C |

5 BLOCKS ASSEMBLING

| Control block solution | Composition | |
|--|---|--|
| PB06-*-HE P*-16 PB06-*-HA P*-16 | N° 1 central synchro block () with size 06 proportional valves without transducer, dri- ver functions integrated in the machine CNC, and size 16 proportional pressure control. | O Central 21 Prefilling block synchro block (TE) 21 Prefilling block |
| PB06-*-HT P*-16 | N° 1 central block ① with size 06 double solenoid proportional valves with position transducer and size 16 proportional pres- sure control. N° 1 Eurocard driver E-ME-T-25H. | Beam cylinders |
| PB06-*-HTE P*-16 PB06-*-HTEB P*-16 PB06-*-HTES P*-16 | as PB06-*-HT but with size 06 servopro- portional valves with transducer and inte- gral electronics: analog (HTE), digital basic (HTEB), digital full with optional fieldbus interfaces (HTES) | |
| PB06-*-LT L*-16 | as PB06-*-HT but with size 06 single solenid servoproportional valves, 4 position, sleeve execution, with transducer | Beam |
| PB06-*-LTE L*-16 PB06-*-LTEB L*-16 PB06-*-LTES L*-16 | as PB06-*-HT but with size 10 single sole- nid servoproportional valves, 4 position, sleeve execution, with transducer and integral electronics: analog (LTE), digital basic (LTEB), digital full with optional field- bus interfaces (LTES) | |

5 BLOCKS ASSEMBLING

| Control block solution | Composition | |
|--|--|--|
| PB10-*-HE P*-16 PB10-*-HE P*-25 PB10-*-HA P*-16 PB10-*-HA P*-25 | N° 1 proportional pressure control block size 16 or size 25 (3). N° 2 synchronization blocks (1) with size 10 proportional valves without transducer, driver functions integrated in the machi- ne CNC. | Synchro block (TE) Synchro block (TE) Prefilling block Synchro block (TE) Prefilling block |
| PB10-*-HT P*-16 PB10-*-HT P*-25 | N° 1 proportional pressure control block size 16 or size 25 (3). N° 2 synchronization blocks (1) with size 10 servoproportional valves with tran- sducer. N° 1 Eurocard driver E-ME-T-21H | Beam Beam Beam Beam Beam Beam Beam Beam Beam Beam Beam Beam Beam Beam Cylinders Beam Beam Cylinders Beam Beam Cylinders Beam Cylinders Beam Beam Cylinders Beam Beam Cylinders Beam Beam Cylinders Beam Beam Cylinders Beam Beam Cylinders Beam Beam Cylinders Beam |
| PB10-*-HTE P*-16 PB10-*-HTEB P*-16 PB10-*-HTES P*-16 PB10-*-HTE P*-25 PB10-*-HTEB P*-25 PB10-*-HTES P*-25 | as PB10-*-HT but with size 10 servopro- portional valves, with transducer and inte- gral electronics: analog (HTE), digital basic (HTEB), digital full with optional fieldbus interfaces (HTES) | |
| PB10-*-LT L*-16 PB10-*-LT L*-25 | as PB10-*-HT but with size 10 single sole- noid servoproportional valve, 4 position, sleeve execution, with position transducer | O Synchro block (TE) O Synchro block |
| PB10-*-LTE L*-16 PB10-*-LTE L*-25 | as PB10-*-HT but with size 10 single sole- noid servoproportional valve, , 4 position, sleeve execution, with position transducer and integral electronics: analog (LTE), digital basic (LTEB), digital full with optio- nal fieldbus interfaces (LTES) | Beam Synchro blocks mounted separated from the prefilling blocks |
| PB11-*-HT P*-25 | as PB10-*-HT but with size 10P pilot ope- rated servoproportional valve, with posi- tion transducer | |
| PB11-*-HTE P*25 PB11-*-HTEB P*25 PB11-*-HTES P*25 | as PB10-*-HT but with size 10P pilot ope- rated servoproportional valve, with posi- tion transducer and integral electronics: analog (HTE), digital basic (HTEB), digital full with optional fieldbus interfaces (HTES) | |
| Prefilling block model code | | Description |
| PFB-25, 32, 40 PFB-50, 63 | Separated prefilling blocks ②, size 25, 32, Prefilling blocks ②, size 50 or 63 to be sele | 40 to be selected according to the machine characteristics - normally coupled with PB06 solution acted according to the machine characteristics - normally coupled with PB10, PB11 solution |

6 CENTRAL BLOCK DESIGN TYPE PB06

6.1 Certified hydraulic scheme -C (with -HE proportional control type)



| Pos | Description | Atos code | -N | -C |
|-----|---------------------------------|-----------------------|----|----|
| 1 | SUBPLATE | | • | ٠ |
| 2.1 | SAFETY VALVE | DHE-0631/2/FV-X | | ٠ |
| 2.2 | DIRECTIONAL VALVE | DHE-0631/2/-X | • | |
| 3 | PROPORTIONAL VALVE | 150101 SDHZE-A-071-L* | • | ٠ |
| 4 | SAFETY PRESSURE RELIEF VALVE | CART M4/350/RS | • | ٠ |
| 5 | BALANCING VALVE | CART M4/350/R | • | ٠ |
| 6.1 | SAFETY VALVE | JO-DL-4-2/FV-X | | ٠ |
| 6.2 | CARTRIDGE | JO-DL-4-2/NC-X | • | |
| 7 | CHECK VALVE | DR-5/G | • | ٠ |
| 8 | PROP. RELIEF VALVE | LIMZO-A-1/315/18 | • | ٠ |
| 9 | CARTRIDGE | 15 -KM-503600 | • | ٠ |
| 10 | MINIMESS | Y-AK-04-GOR | • | ٠ |
| 11 | PREFILLING VALVE | | • | ٠ |

Note: the -N solution has the same hydraulic scheme but without monitor signal on valves (2) and (6)





6.3 Certified hydraulic scheme -C (with -HA proportional control type)



• ٠ DHE-0631/2/FV-X • DHE-0631/2/-X ٠ 090290 DHZO-A-071-L* • • • CART M4/350/RS • • • CART M4/350/R JO-DL-4-2/FV-X • JO-DL-4-2/NC-X . DR-5/G • • LIMZO-A-1/315/18 • • 15 -KM-503600 • • Y-AK-04-GOR • • • •

Atos code

-N -C

Note: the -N solution has the same hydraulic scheme but without monitor signal on valves (2) and (6)

6.4 Installation dimensions of PB06-*-HA central block



6.5 Certified hydraulic scheme -C (with -HT, -HTE proportional control type)



| Pos | Description | Atos code | -N | -C |
|-----|---------------------------------|-----------------------|----|----|
| 1 | SUBPLATE | | ٠ | • |
| 2.1 | SAFETY VALVE | DHE-0631/2/FV-X | | • |
| 2.2 | DIRECTIONAL VALVE | DHE-0631/2/-X | ٠ | |
| 3.1 | PROPORTIONAL VALVE | 090290 DHZO-T-071-L* | ٠ | • |
| 3.2 | PROPORTIONAL VALVE | 090290 DHZO-TE-071-L* | ٠ | • |
| 4 | SAFETY PRESSURE RELIEF VALVE | CART M4/350/RS | ٠ | • |
| 5 | BALANCING VALVE | CART M4/350/R | ٠ | • |
| 6.1 | SAFETY VALVE | JO-DL-4-2/FV-X | | • |
| 6.2 | CARTRIDGE | JO-DL-4-2/NC-X | ٠ | |
| 7 | CHECK VALVE | DR-5/G | ٠ | • |
| 8 | PROP. RELIEF VALVE | LIMZO-A-1/315/18 | ٠ | • |
| 9 | CARTRIDGE | 15 -KM-503600 | ٠ | • |
| 10 | MINIMESS | Y-AK-04-GOR | ٠ | • |
| 11 | PREFILLING VALVE | | ٠ | • |

6.6 Installation dimensions of PB06-*-HT(E) central block



6.7 Certified hydraulic scheme -C (with -HTEB, -HTES proportional control type)



| Pos | Description | Atos code | -N | -C |
|-----|---------------------------------|---------------------------|----|----|
| 1 | SUBPLATE | | ٠ | ٠ |
| 2.1 | SAFETY VALVE | DHE-0631/2/FV-X | | ٠ |
| 2.2 | DIRECTIONAL VALVE | DHE-0631/2/-X | ٠ | |
| 3.1 | PROPORTIONAL VALVE | 090290 DHZO-TEB-NP-071-L* | ٠ | ٠ |
| 3.2 | PROPORTIONAL VALVE | 090290 DHZO-TES-NP-071-L* | ٠ | ٠ |
| 4 | SAFETY PRESSURE RELIEF VALVE | CART M4/350/RS | ٠ | • |
| 5 | BALANCING VALVE | CART M4/350/R | ٠ | • |
| 6.1 | SAFETY VALVE | JO-DL-4-2/FV-X | | • |
| 6.2 | CARTRIDGE | JO-DL-4-2/NC-X | • | |
| 7 | CHECK VALVE | DR-5/G | ٠ | • |
| 8 | PROP. RELIEF VALVE | LIMZO-A-1/315/18 | ٠ | ٠ |
| 9 | CARTRIDGE | 15 -KM-503600 | ٠ | ٠ |
| 10 | MINIMESS | Y-AK-04-GOR | ٠ | • |
| 11 | PREFILLING VALVE | | • | • |

Note: the -N solution has the same hydraulic scheme but without monitor signal on valves (2) and (6)

6.8 Installation dimensions of PB06-*-HTES central block



6.9 Certified hydraulic scheme -C (with -LT , -LTE proportional control type)



| Pos | Description | Atos code | -N | -C |
|-----|---------------------------------|------------------|----|----|
| 1 | SUBPLATE | | • | • |
| 2.1 | SAFETY VALVE | DHE-0631/2/FV-X | | • |
| 2.2 | DIRECTIONAL VALVE | DHE-0631/2/-X | ٠ | |
| 3.1 | SERVOPROPORTIONAL VALVE | DLHZO-T-040-L* | ٠ | • |
| 3.2 | SERVOPROPORTIONAL VALVE | DLHZO-TE-040-L* | • | • |
| 4 | SAFETY PRESSURE RELIEF VALVE | CART M4/350/RS | ٠ | • |
| 5 | BALANCING VALVE | CART M4/350/R | • | • |
| 6.1 | SAFETY VALVE | JO-DL-4-2/FV-X | | • |
| 6.2 | CARTRIDGE | JO-DL-4-2/NC-X | ٠ | |
| 7 | CHECK VALVE | DR-5/G | ٠ | • |
| 8 | PROP. RELIEF VALVE | LIMZO-A-1/315/18 | ٠ | • |
| 9 | CARTRIDGE | 15 -KM-503600 | • | • |
| 10 | MINIMESS | Y-AK-04-GOR | • | • |
| 11 | PREFILLING VALVE | | • | • |

Note: the -N solution has the same hydraulic scheme but without monitor signal on valves 0 and 0

6.10 Installation dimensions of PB06-*-LT(E) central block



6.11 Certified hydraulic scheme -C (with -LTEB , -LTES proportional control type)



| Pos | Description | Atos code | -N | -C |
|-----|---------------------------------|---------------------|----|----|
| 1 | SUBPLATE | | • | • |
| 2.1 | SAFETY VALVE | DHE-0631/2/FV-X | | • |
| 2.2 | DIRECTIONAL VALVE | DHE-0631/2/-X | ٠ | |
| 3.1 | SERVOPROPORTIONAL VALVE | DLHZO-TEB-NP-040-L* | ٠ | • |
| 3.2 | SERVOPROPORTIONAL VALVE | DLHZO-TES-NP-040-L* | • | • |
| 4 | SAFETY PRESSURE RELIEF VALVE | CART M4/350/RS | ٠ | • |
| 5 | BALANCING VALVE | CART M4/350/R | • | • |
| 6.1 | SAFETY VALVE | JO-DL-4-2/FV-X | | • |
| 6.2 | CARTRIDGE | JO-DL-4-2/NC-X | ٠ | |
| 7 | CHECK VALVE | DR-5/G | ٠ | • |
| 8 | PROP. RELIEF VALVE | LIMZO-A-1/315/18 | ٠ | • |
| 9 | CARTRIDGE | 15 -KM-503600 | ٠ | • |
| 10 | MINIMESS | Y-AK-04-GOR | ٠ | • |
| 11 | PREFILLING VALVE | | • | • |
| | | | | |

Note: the -N solution has the same hydraulic scheme but without monitor signal on values 0 and 0

6.12 Installation dimensions of PB06-*-LTES central block



7 MODULAR BLOCK DESIGN TYPE PB10

7.1 Certified hydraulic scheme -C (with -HE proportional control type)



Note: the -N solution has the same hydraulic scheme but without monitor signal on valves (5) and (10)

7.2 Installation dimensions of PB10-*-HE synchronization block (for pressure control blocks see section 9.2)

SYNCHRONIZATION CONTROL BLOCK

Fastening bolts: 4 socket head screw M8x140 class 12.9 Port dimensions:

P = G 1" P1 = G 1" (plugged) T = G 1 1/4" A / A1 = G 3/4" B / B1 = G 1" M* = G 1/4"



Dotted line = PBBC execution



ZBE-06 Sensor plastic connector to be ordered separately





7.3 Certified hydraulic scheme -C (with -HA proportional control type)



Note: the -N solution has the same hydraulic scheme but without monitor signal on values 5 and 0

7.4 Installation dimensions of PB10-*-HA synchronization block (for pressure control blocks see section 9.2)

SYNCHRONIZATION CONTROL BLOCK

Fastening bolts: 4 socket head screw M8x140 class 12.9 Port dimensions: $P = G 1^{"} P1 = G 1^{"} (plugged)$ $T = G 1 1/4^{"}$ $A / A1 = G 3/4^{"}$ $B / B1 = G 1^{"}$ $M^* = G 1/4^{"}$



Dotted line = PBBC execution



ZBE-06 Sensor plastic connector to be ordered separately







Note: the -N solution has the same hydraulic scheme but without monitor signal on valves (5) and (10)

7.6 Installation dimensions of PB10-*-HT(E) synchronization block (for pressure control blocks see section 9.2)

SYNCHRONIZATION CONTROL BLOCK

Fastening bolts: 4 socket head screw M8x140 class 12.9 Port dimensions:

P = G 1" **P1** = G 1" (plugged) $T = G \ 1 \ 1/4$ " A / A1 = G 3/4" **B/B1 =** G 1" **M* =** G 1/4"



Dotted line = HTE execution



ZBE-06 Sensor plastic connector to be ordered separately







Note: the -N solution has the same hydraulic scheme but without monitor signal on valves (5) and (0)

7.8 Installation dimensions of PB10-*-HTES synchronization block (for pressure control blocks see section 9.2)

SYNCHRONIZATION CONTROL BLOCK

Fastening bolts: 4 socket head screw M8x140 class 12.9 Port dimensions: **P** = G 1" **P1** = G 1" (plugged) **T** = G 1 1/4"

A / A1 = G 3/4" **B/B1 =** G 1" **M* =** G 1/4"









ZBE-06 Sensor plastic connector to be ordered separately



Note: the PBB solution has the same hydraulic scheme but without monitor signal on valves 5 and 0

7.10 Installation dimensions of PB10-*-LT(E) synchronization block (for pression control blocks see section 9.2)

SYNCHRONIZATION CONTROL BLOCK



ZH-7P



Dotted line = TE proportional control type

т

M2

0

132 135 ◄ M1 ۰ \bigcirc 0 m \geq Power supply connector metallic or plastic, to be ordered separately ΞŒ P1, A1, B1



to be ordered separately







318

135

M1

M2

 \bigcirc

P1, A1, B1 side

 \bigcirc

165

◄

m

≻

۵.



SYNCHRONIZATION CONTROL BLOCK

Fastening bolts: 4 socket head screw M8x140 class 12.9

Port dimensions: **P** = G 1" **P1** = G 1" (plugged) **T** = G 1 1/4" **A / A1 =** G 3/4' **B / B1 =** G 1" **M* =** G 1/4"





ZBE-06 Sensor connector plastic to be ordered separately

8 MODULAR BLOCK DESIGN TYPE PB11

8.1 Certified hydraulic scheme -C (with -HT, -HTE proportional control type)



| Pos | Descritption | Atos code | -N | -C |
|------|---------------------------------|-----------------------|----|----|
| 1 | SUBPLATE | | • | ٠ |
| 2.1 | PROPORTIONAL VALVE | 100270 DPZO-T-171-L5 | • | • |
| 2.2 | PROPORTIONAL VALVE | 100270 DPZO-TE-171-L5 | • | • |
| 3 | SAFETY PRESSURE RELIEF VALVE | CART M6/350/RS | ٠ | • |
| 4 | BALANCING VALVE | CART M6/350/R | • | • |
| 5.1 | SAFETY VALVE | JO-DL-10-2/FV-X | | • |
| 5.2 | CARTRIDGE | JO-DL-10-2/NC-X | • | |
| 6 | PREFILLING VALVE | | • | • |
| 7 | SUBPLATE | | | |
| 8 | CARTRIDGE | | | |
| 9 | PROP. PRESSURE VALVE | SEE SECTION 9 | | |
| 10.1 | SAFETY VALVE | - SEE SECTION 9 | | |
| 10.2 | DIRECTIONAL VALVE | | | |
| 11 | CHECK VALVE | | | |
| 12 | MINIMESS | Y-AK-04-GOR | ٠ | ٠ |
| | | | | |

Note: the PBB solution has the same hydraulic scheme but without monitor signal on valves (5) and (10)

8.2 Installation dimensions of PB11-*-HT(E) synchronization block (for pression control blocks see section 9.2)

SYNCHRONIZATION CONTROL BLOCK Hydraulic scheme мз т Fastening bolts: 1 4 socket head screw M8x140 class 12.9 Port dimensions: ₩**F**3 **P** = G 1" **P1** = G 1" (plugged) **T** = G 1 1/4" wjojj - em 5152 ₩₽_© A / A1 = G 3/4 **B / B1 =** G 1" 2122 **M* =** G 1/4" M1 P1 Dotted line = TE proportional control type 211.5 336 36.5 175 201 135 140 17.5 ŗ, 6 (0 8 Ф МЗ M1 ZH-7P \bigcirc _____ ٢ Power supply connector metallic or plastic, to be ordered separately 56 m 315 0 M2 0 0 6 H Ē P1, A1, B1 Lipser \square 늄 в Α \bigcirc (\bigcirc Safety valve with monitor signal only for -C execution — ZBE-06 -Sensor connector plastic to be ordered separately

8.3 Certified hydraulic scheme -C (with -HTEB, -HTES proportional control type)



| -N • | -C |
|---------|----|
| • | • |
| • | • |
| | - |
| • | • |
| • | • |
| • | • |
| | ٠ |
| • | |
| • | ٠ |
| | |
| | |
| | |
| | |
| | |
| 1 | |
| • | • |
| | • |

Note: the PBB solution has the same hydraulic scheme but without monitor signal on valves (5) and (0)

8.4 Installation dimensions of PB11-*-HTES synchronization block (for pression control blocks see section 9.2)



9 PRESSURE CONTROL BLOCK (FOR PB-10 AND PB-11)

9.1 Hydraulic scheme of pressure control blocks for PB1*



| Com | Composition of pressure control block size 16 | | | | | | |
|------|---|-------------------|----|----|--|--|--|
| Pos | Descritption | Atos code | -N | -C | | | |
| 7 | SUBPLATE | | • | • | | | |
| 8 | CARTRIDGE | SC LI-16313 | • | • | | | |
| 9 | PROP. PRESSURE VALVE | LIMZO-A-1/315/18 | ٠ | • | | | |
| 10.1 | SAFETY VALVE | DHE-0631/2/AFV-X | | • | | | |
| 10.2 | DIRECTIONAL VALVE | DHE-0631/2/A/NC-X | • | | | | |
| 11 | CHECK VALVE | CART ADR-10 | • | • | | | |

Composition of pressure control block size 25

| Pos | Descritption | Atos code | -N | -C |
|------|-------------------------|-------------------|----|----|
| 7 | SUBPLATE | | ٠ | • |
| 8 | CARTRIDGE | SC LI-25313 | ٠ | ٠ |
| 9 | PROP. PRESSURE VALVE | LIMZO-A-2/315/18 | ٠ | ٠ |
| 10.1 | SAFETY VALVE | DHE-0631/2/AFV-X | | ٠ |
| 10.2 | DIRECTIONAL VALVE | DHE-0631/2/A/NC-X | ٠ | |
| 11 | CHECK VALVE | CART ADR-10 | ٠ | • |

9.2 Installation dimensions of PB10 and PB11 pressure control blocks

PRESSURE CONTROL BLOCK size 16

Fastening bolts: 2 socket head screw M8x95 class 12.9

Port dimensions: $\mathbf{P} = \mathbf{G} \ 1^{"}$ $\mathbf{T} = \mathbf{G} \ 1^{"}$



B = G 3/8" **M2** = G 1/4"







PRESSURE CONTROL BLOCK size 25

Fastening bolts: 2 socket head screw M10x115 class 12.9

Port dimensions: **P** = 1 1/4" SAE 6000 **T** = G 2" **A** = G 3/8" **B** = G 3/8" **M2** = G 1/4"







10 CROWNING OPTION FOR CENTRAL BLOCK DESIGN TYPE PB06

10.1 Certified hydraulic scheme with crowning option PB-06C (example with -HT* proportional control type)



Note: the PB06-N solution has the same hydraulic scheme but without monitor signal on valves 2 and 6

10.2 Installation dimensions of PB06-* central block with crowning option (example with -T* proportional control type)



11 CROWNING OPTION FOR MODULAR BLOCK DESIGN TYPE PB1*

11.1 Installation dimensions of pressure control block with crowning option for PB1* solution

Size 16

For solution PB1* the crowning proportional reducing valve (2) is installed on the pressure control block

Fastening bolts: 2 socket head screw M8x115 class12.9

Port dimensions: $\mathbf{P} = \mathbf{G} \ 1$ "

T = G 1" **A** = G 3/8" **B** = G 3/8"

C = G 3/8"

M2 = G 1/4"

MC = G 1/4"

Block's hydraulic scheme





Size 25

For solution PB1* the crowning proportional reducing valve (2) is installed on the pressure control block

Fastening bolts: 2 socket head screw M8x115 class12.9

Port dimensions: **P** = G 1 1/4" SAE 3000 **T** = G 2" **A** = G 3/8" **B** = G 3/8" **C** = G 3/8" **M2** = G 1/4" **MC** = G 1/4"



12 INSTALLATION DIMENSIONS OF PREFILLING BLOCKS TYPE PFB-*

