AM.3.UP / AM.3.UP1...

SCREWS AND STUDS CH. IV PAGE 21

AM.3.UP... / AM.3.UP1... MODULAR
PILOT OPERATED CHECK VALVES CETOP 3

AM.3.UP type modular check valves allow free flow in one direction by raising a conical seated poppet valve, while in the opposite direction the fluid can return by means of a small piston piloted by the other line pressure (piloted side).

They are available on single A or B lines, and double A and B lines (see hydraulic symbols).

A pre-opening version is also available (AM3UP1..) only with 5 bar spring.

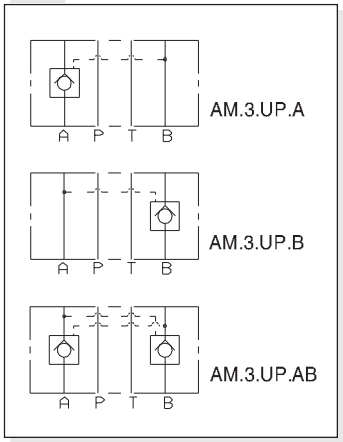
Max. operating pressure	350 bar
Minimum opening pressure spring 1	1 bar
Minimum opening pressure spring 5	5 bar
Piloting ratio AM.3.UP	1:4
Piloting ratio AM.3.UP1	1:12,5
Max. flow	40 l/min
Hydraulic fluids	Mineral oils DIN 51524
Fluid viscosity	10 ÷ 500 mm²/s
Fluid temperature	-25°C ÷ 75°C
Ambient temperature	-25°C ÷ 60°C
Max. contamination level	class 10 in accordance with NAS 1638 with filter $\beta_{25} \geq 75$
Weight	1 Kg

4

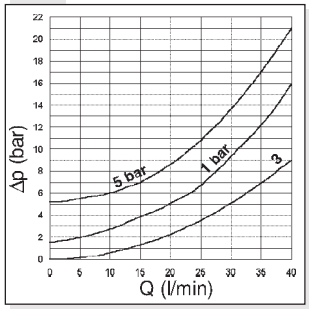
ORDERING CODE

AM	Modular valve
3	CETOP 3/NG6
**	**UP** = Piloted check valve **UP1** = With pre-opening
**	Control on lines **A / B / AB**
*	Minimum opening pressure **1** = 1 bar (only for UP version) **5** = 5 bar
**	**00** = No variant **V1** = Viton
3	Serial No.

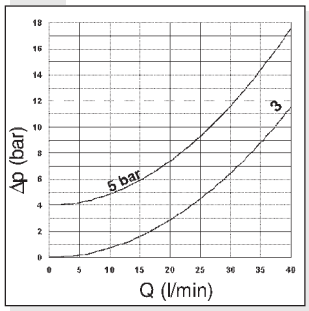
HYDRAULIC SYMBOLS



PRESSURE DROPS AM3UP



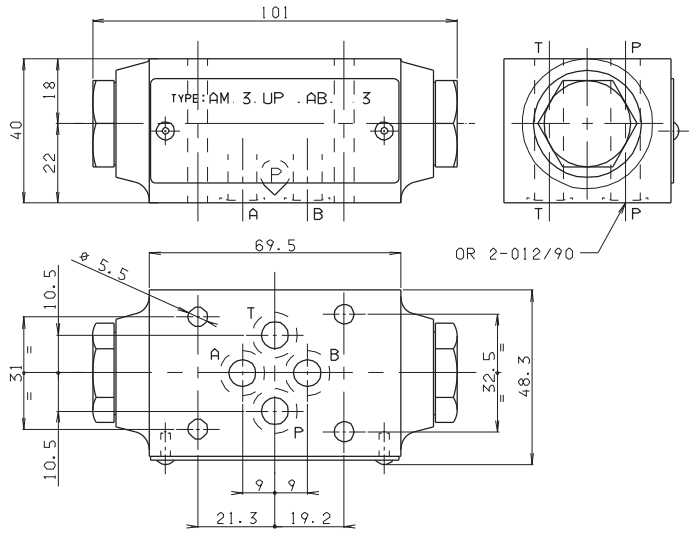
PRESSURE DROPS AM3UP1



Curve n. 3 = Piloted side flow

The fluid used is a mineral oil with a viscosity of 46 mm²/s at 40°C. The tests have been carried out a fluid temperature of 50°C.

OVERALL DIMENSIONS



AM.3.VM... / AM.3.VI... MODULAR
MAX. PRESSURE VALVES CETOP 3

AM.3.VM type pressure regulating valves are available with a pressure range of 2 ÷ 320 bar.

Adjustment is by means of a grub screw or a plastic knob.

Three basic versions are available:
- AM3VM on single A or B lines, and on A and B lines, with drainage to T;
- AM3VMP on single P line, with drainage to T;
- AM3VI on single A or B lines, and on A and B lines, with crossed drainage on A or B (see hydraulic symbols).

All versions can accept three types of springs with calibrated ranges as shown in the specifications.

The cartridge, which is the same for all versions, is the direct acting type CMP10.
For the minimum permissible setting pressure depending on the spring, see minimum pressure setting curve.

Max. operating pressure		320 bar
Setting ranges:	spring 1	max. 50 bar
	spring 2	max. 150 bar
	spring 3	max. 320 bar
Max. flow		40 l/min
Hydraulic fluids		Mineral oils DIN 51524
Fluid viscosity		10 ÷ 500 mm²/s
Fluid temperature		-25°C ÷ 75°C
Ambient temperature		-25°C ÷ 60°C
Max. contamination level		class 10 in accordance with NAS 1638 with filter $\beta_{25} \geq 75$
Weight AM.3.VM.A/B/P...		1,2 Kg
Weight AM.3.VM.AB...		1,3 Kg
Weight AM.3.VI.A/B...		2 Kg
Weight AM.3.VI.AB...		2,2 Kg

AM.3.VM / AM.3.VI...

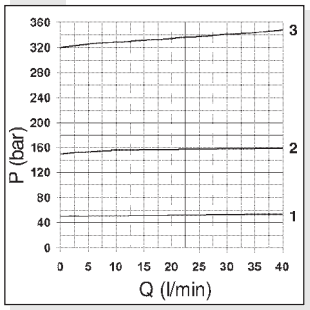
CMP.10...	BFP CARTRIDGE CATALOGUE
SCREWS AND STUDS	CH. IV PAGE 21

4

ORDERING CODE

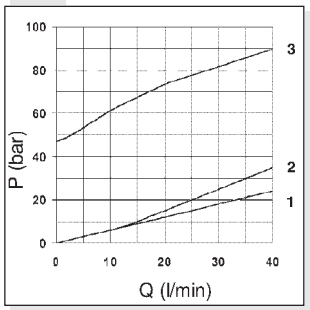
AM	Modular valve
3	CETOP 3/NG6
**	**VM** = Maximum pressure **VI** = Maximum pressure crossline
**	Adjustment on the lines AM.3.VM Version = **A / B / P / AB** AM.3.VI Version = **A / B / AB**
*	Type of adjustment **M** = Plastic knob **C** = Grub screw
*	Setting ranges at port A/B/P **1** = max. 50 bar **(white spring)** **2** = max. 150 bar **(yellow spring)** **3** = max. 320 bar **(green spring)**
*	Setting ranges at port B (Omit if the setting is same as that at port A) **1** = max. 50 bar **(white spring)** **2** = max. 150 bar **(yellow spring)** **3** = max. 320 bar **(green spring)**
**	**00** = No variant **V1** = Viton
3	Serial No.

PRESSURE - FLOW RATE

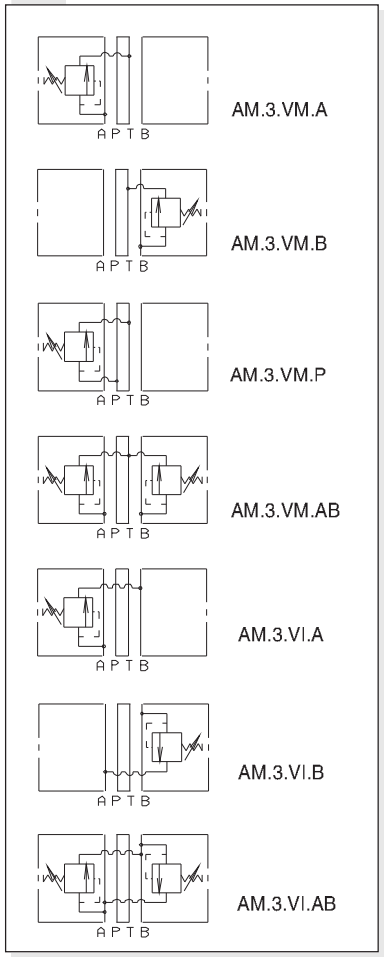


Curves n° 1 - 2 - 3 = setting ranges

MINIMUM SETTING PRESSURE



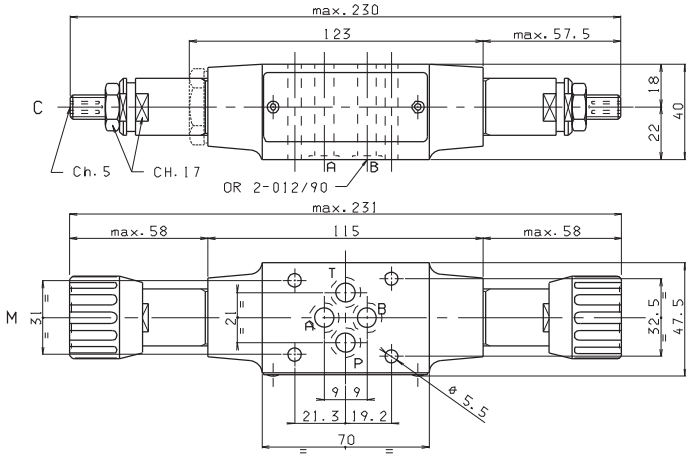
HYDRAULIC SYMBOLS



4

OVERALL DIMENSIONS

AM.3.VM.AB...

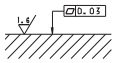


Type of adjustment

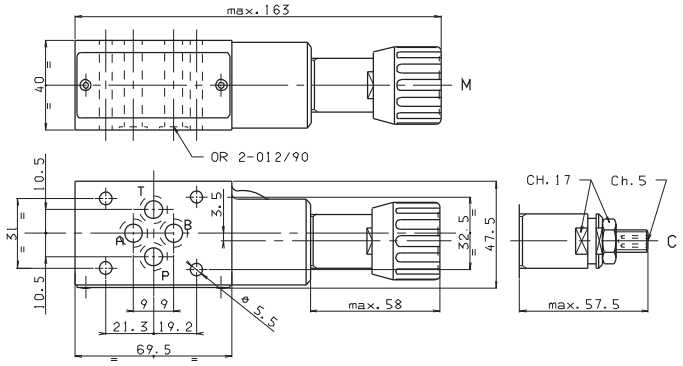
M Plastic knob

C Grub screw

Support plane specifications



AM.3.VM.P...

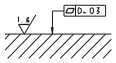


Type of adjustment

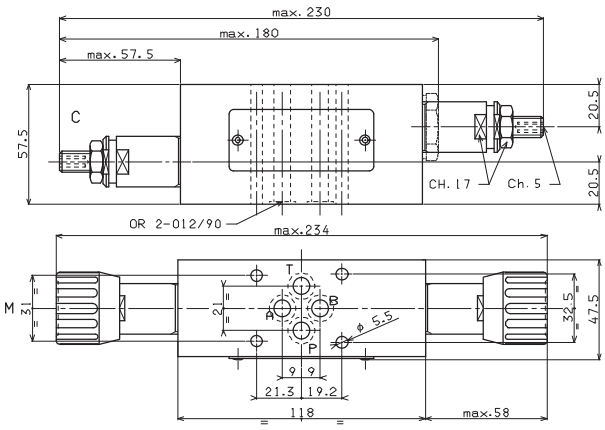
M Plastic knob

C Grub screw

Support plane specifications



AM.3.VI.AB...

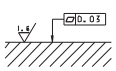


Type of adjustment

M Plastic knob

C Grub screw

Support plane specifications



AM.3.QF...

SCREWS AND STUDS CH. IV PAGE 21

AM.3.QF... MODULAR FLOW REGULATOR CETOP 3

AM.3.QF type one way non-compensated throttle valve are fitted with an O-Ring mounting plate which allows its assembly for either input or output regulation. Adjustment is obtained by means of a grub screw or a plastic knob. They are available in the four regulating configurations shown in the hydraulic diagrams.

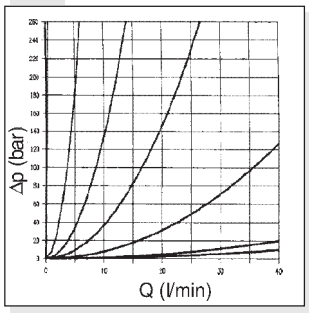
The standard valve configuration allows "meter in" regulation, while it is possible to obtain "meter out" regulation by turning the valve by 180° along its longitudinal axis.

Max. operating pressure	350 bar
Max. pressure adjustable	250 bar
Flow rate regulation	on 8 screw turns
Max. flow	40 l/min
Hydraulic fluids	Mineral oils DIN 51524
Fluid viscosity	10 ÷ 500 mm²/s
Fluid temperature	-25°C ÷ 75°C
Ambient temperature	-25°C ÷ 60°C
Max. contamination level	class 10 in accordance with NAS 1638 with filter $\beta_{25} \geq 75$
Weight	1,5 Kg

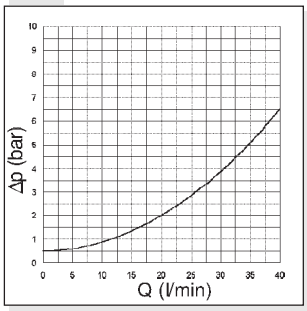
ORDERING CODE

AM	Modular valve
3	CETOP 3/NG6
QF	Non compensated throttle valve
**	Control on lines **A / B / P / AB**
*	Type of adjustment **M** = Plastic knob **C** = Grub screw
**	**00** = No variant **V1** = Viton
4	Serial No.

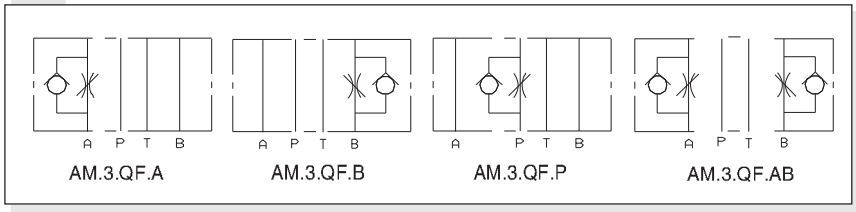
FLOW REGULATION



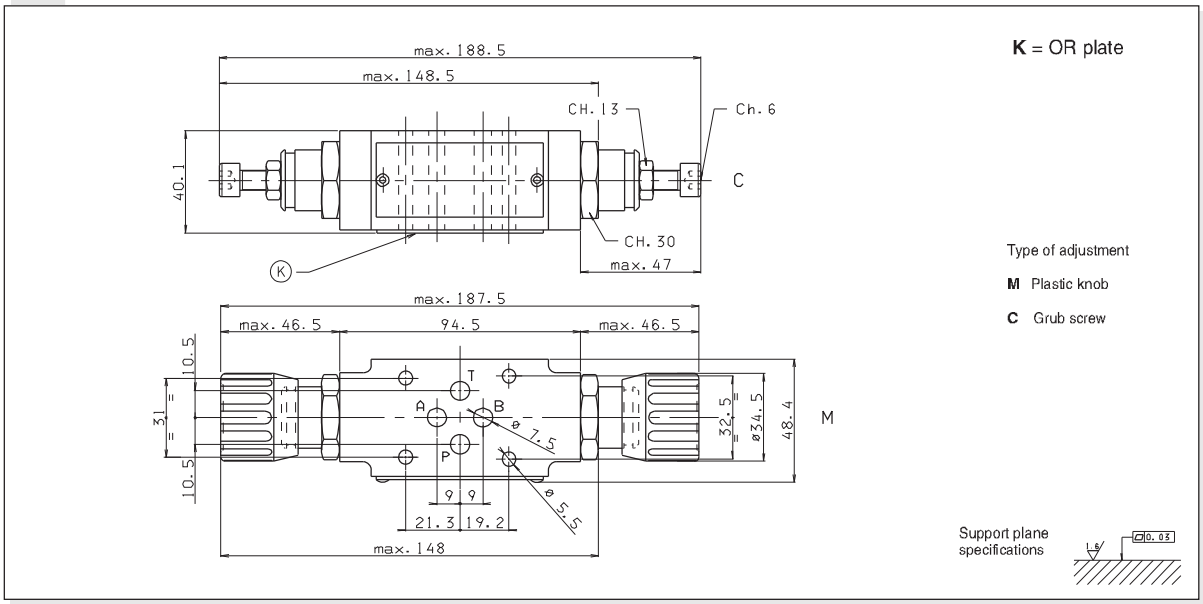
FREE FLOW TOWARDS CHECK VALVE



HYDRAULIC SYMBOLS

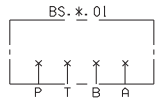


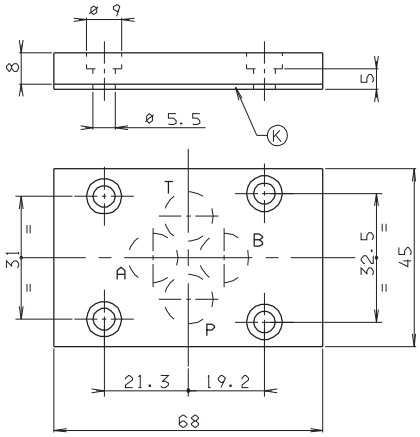
OVERALL DIMENSIONS



BS.3.01...

BS	Single subplate (blanking)
3	CETOP 3/NG6
01	P / T / A / B closed
00	No variant
1	Serial No.



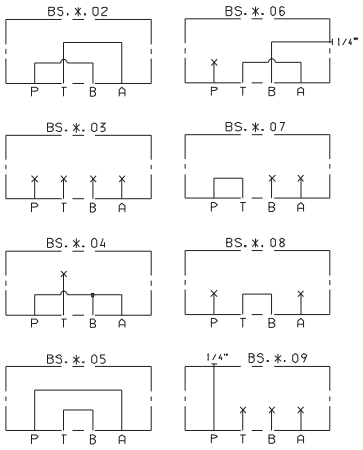


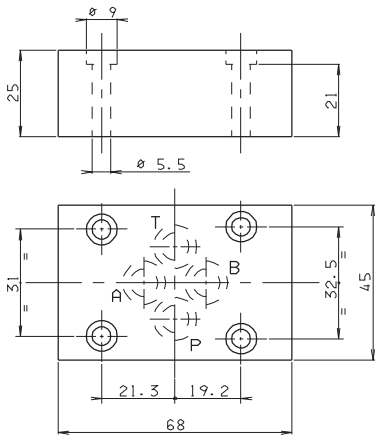
Weight: 0,2 Kg

Fixing screws
M5x14 UNI 5931
K = plate OR (Q25.95.0001)

BS.3.**...

BS	Single subplate (blanking)
3	CETOP 3/NG6
**	**02/03/04/05/06/07/08/09**
00	No variant
1	Serial No.





Weight: 0,5 Kg

Fixing screws M5x30 UNI 5931

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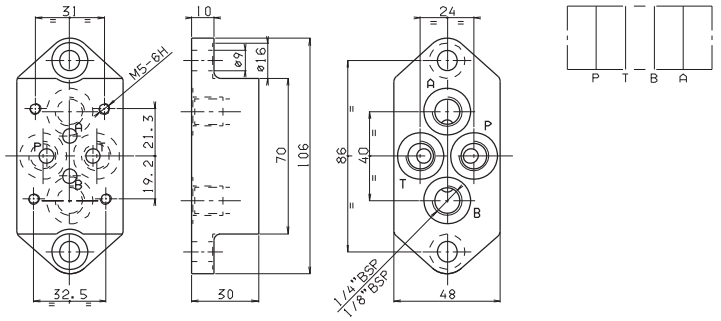
BS.3.10/11... (REAR CONNECTORS)

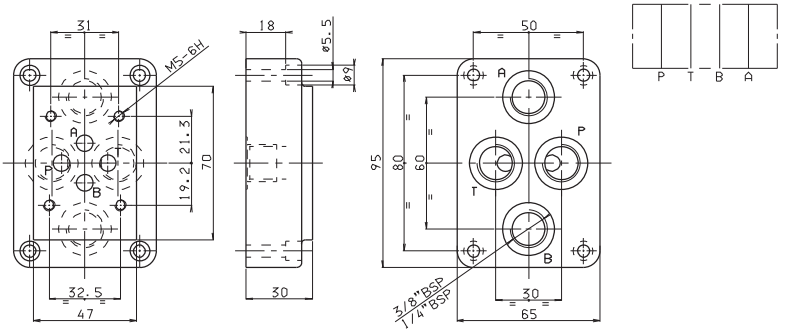
BS	Single subplate
3	CETOP 3/NG6
**	**10** = 1/8" BSP rear connectors **11** = 1/4" BSP rear connectors
00	No variant
1	Serial No.



Weight: 0,7 Kg - Fixing screws M8x20 UNI 5931

BS.3.12/13 (REAR CONNECTORS)

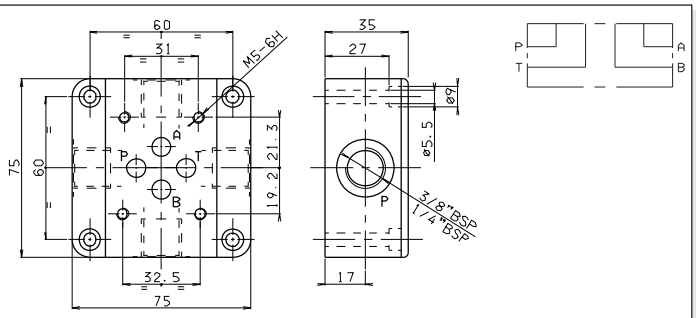
BS	Single subplate
3	CETOP 3/NG6
**	**12** = 3/8" BSP rear connectors **13** = 1/4" BSP rear connectors
00	No variant
1	Serial No.



Weight: 1 Kg - Fixing screws M5x25 UNI 5931

BS.3.14/15 (SIDE CONNECTORS)

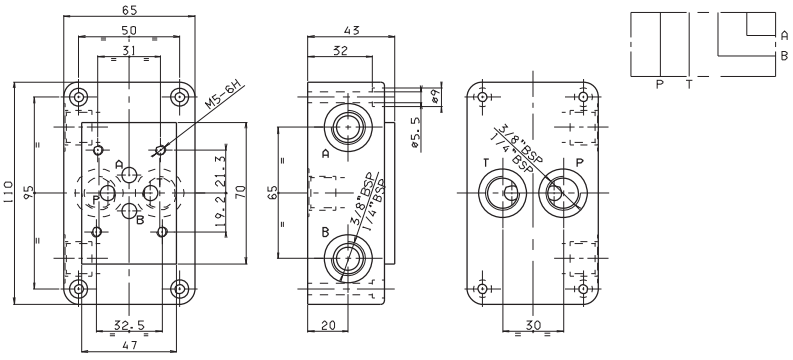
BS	Single subplate
3	CETOP 3/NG6
**	**14** = 3/8" BSP side connectors **15** = 1/4" BSP side connectors
00	No variant
1	Serial No.



Weight: 1,2 Kg - Fixing screws M5x35 UNI 5931

BS.3.16/17 (CONNECTORS SIDE A AND B, REAR P AND T)

BS	Single subplate
3	CETOP 3/NG6
**	**16** = 3/8" BSP rear and side connectors **17** = 1/4" BSP rear and side connectors
00	No variant
1	Serial No.



Weight: 1,8 Kg - Fixing screws M5x40 UNI 5931

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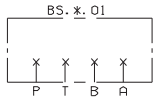
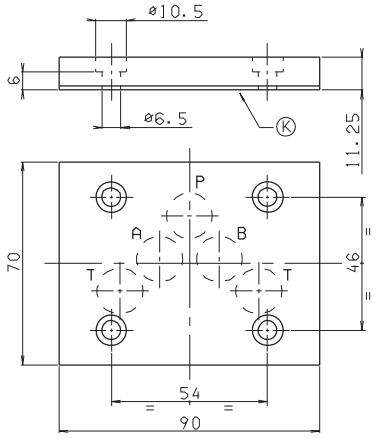
CETOP 5 SUBPLATES	
BS.5.01 / BS.5.0*	CH. VII PAGE 19
BS.5.12... / BS.5.13...	
BS.5.14... / BS.5.15...	CH. VII PAGE 20
BS.5.16... / BS.5.17...	
BS.5.3...	CH. VII PAGE 21
BS.5.30/31...	CH. VII PAGE 22
BS.VMP.20... / BS.5.29...	CH. VII PAGE 23
BC.5.36/28...	CH. VII PAGE 24
BC.5.41/*... / BC.5.40...	CH. VII PAGE 25
BC.5.30/32... / BC.5.50... / BC.5.51...	CH. VII PAGE 26
BC.5.07... / BC.5.107...	
BC.5.3A... / BC.10.06...	CH. VII PAGE 27
BM.5.**... / BM.5.50...	CH. VII PAGE 28
BM.5.60... / BM.5.70...	
BM.5.80...	CH. VII PAGE 29
CMP.20...	BFP CARTRIDGE CATALOGUE
CMP.30...	BFP CARTRIDGE CATALOGUE

BS.5.01...

BS	Single subplate (blanking)
5	CETOP 5/NG10
01	P/T/A/B closed
00	No variant
1	Serial No.



• Pay attention please, use these subplate in applications at slow pressure (P max. 150 bar dynamic)



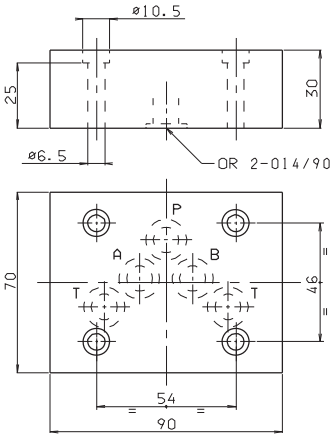
Weight: 0,5 Kg

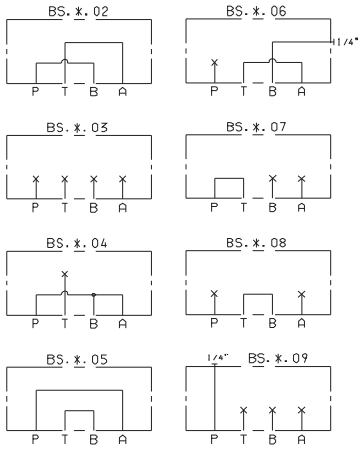
Fixing screws
M6x15 UNI 5931
K = plate OR (Q25.95.0002)

7

BS.5.**...

BS	Single subplate (blanking)
5	CETOP 5/NG10
**	**02/03/04/05/06/07/08/09**
00	No variant
1	Serial No.



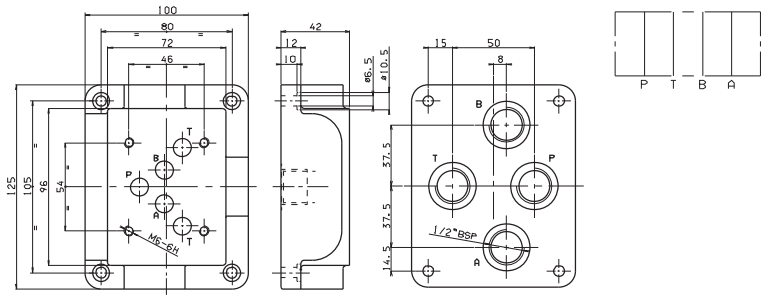


Weight: 1,2 Kg

Fixing screws M6x35 UNI 5931

BS.5.12 (REAR CONNECTORS)

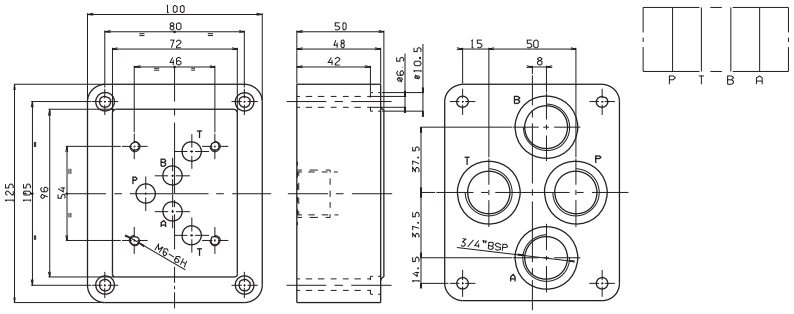
BS	Single subplate
5	CETOP 5/NG10
12	1/2" BSP rear connectors
00	No variant
1	Serial No.



Weight: 2,7 Kg - Fixing screws M6x25 UNI 5931

BS.5.13 (REAR CONNECTORS)

BS	Single subplate
5	CETOP 5/NG10
13	3/4" BSP rear connectors
00	No variant
1	Serial No.



Weight: 3,8 Kg - Fixing screws M6x50 UNI 5931

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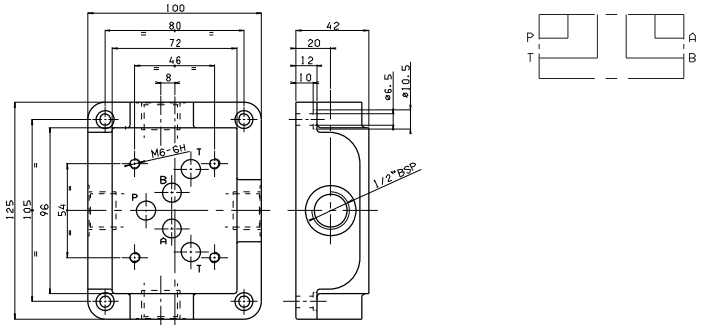
BS.5.14 (SIDE CONNECTORS)

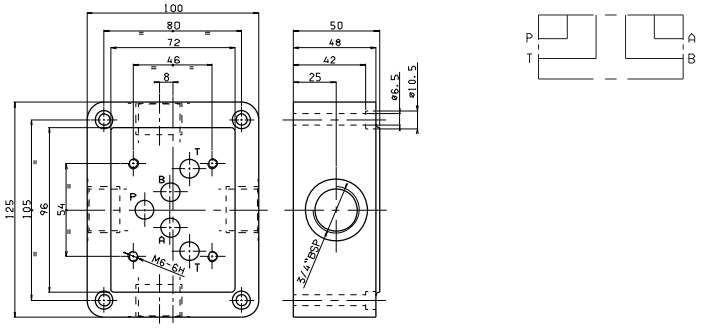
BS	Single subplate
5	CETOP 5/NG10
14	1/2" BSP side connectors
00	No variant
1	Serial No.



Weight: 2,6 Kg - Fixing screws M6x20 UNI 5931

BS.5.15 (SIDE CONNECTORS)

BS	Single subplate
5	CETOP 5/NG10
15	3/4" BSP side connectors
00	No variant
1	Serial No.



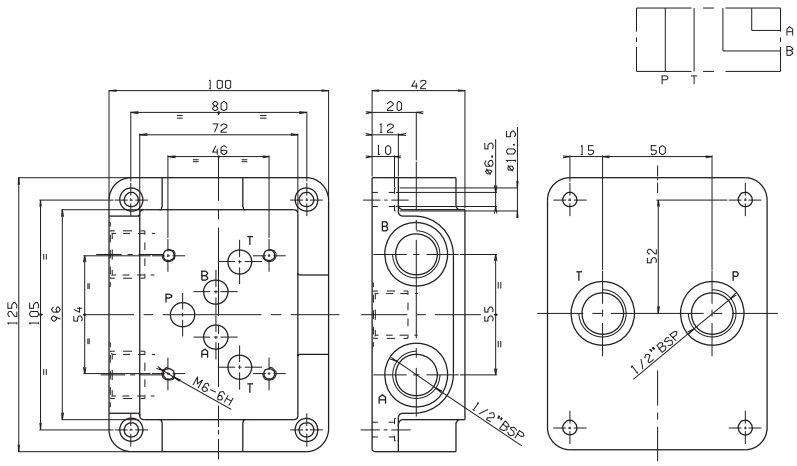
Weight: 3,8 Kg - Fixing screws M6x50 UNI 5931

BS.5.16 (CONNECTORS SIDE A AND B, REAR P AND T)

BS	Single subplate
5	CETOP 5/NG10
16	1/2" BSP rear and side connectors
00	No variant
1	Serial No.

Weight: 2,6 Kg

Fixing screws M6x20 UNI 5931

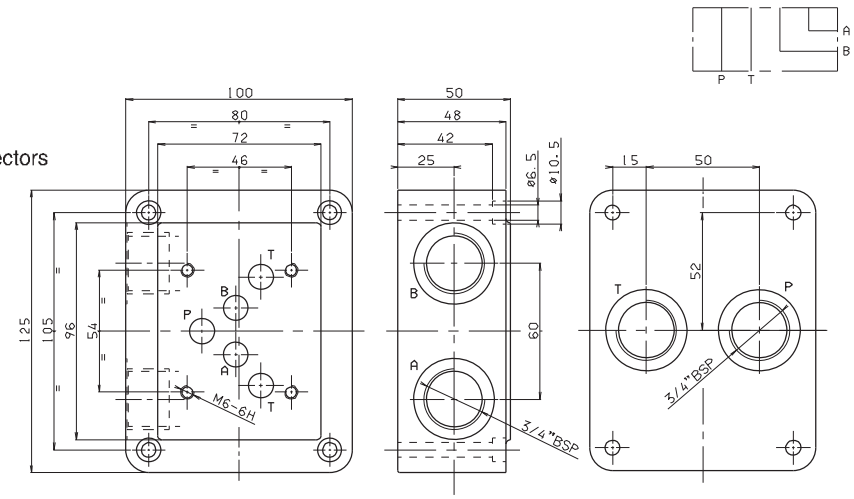


BS.5.17 (CONNECTORS SIDE A AND B, REAR P AND T)

BS	Single subplate
5	CETOP 5/NG10
17	3/4" BSP rear and side connectors
00	No variant
1	Serial No.

Weight: 3,9 Kg

Fixing screws
M6x50 UNI 5931

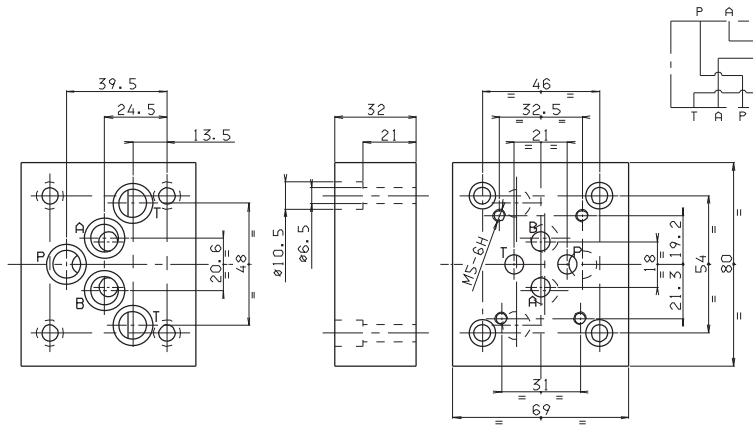


BS.5.3 (REDUCTION PLATE FROM CETOP 5/NG10 TO CETOP 3/NG6)

BS	Single subplate
5	CETOP 5/NG10
3	CETOP 3/NG6
00	No variant
1	Serial No.

Weight: 1,1 Kg

Fixing screws
M6x30 UNI 5931



7