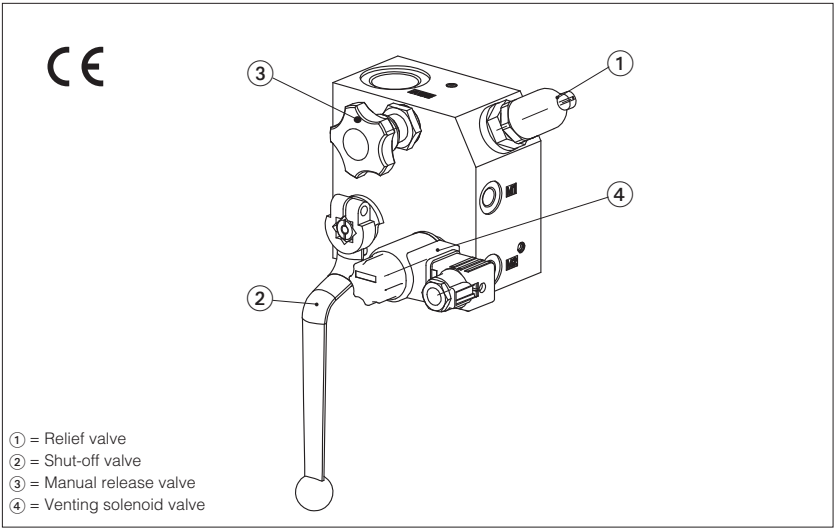


PED safety manifolds for accumulators type BSA

In line mounting - G 1/2" and G 3/4" threaded ports



PED safety manifolds for accumulators type BSA are equipped with relief valves conforming to PED Directive 2014/68/EU (see tab. SP004).
The safety function is ensured by discharging the excess flow across the relief valve ①.
They are equipped with manual shut-off valves ②, manual release valve ③ and venting valve with electric driving as optional ④.
These manifolds are suitable for any hydraulic circuit where there are one or more accumulators.
The manifolds are designed to work in hydraulic systems with oil or synthetic fluids having similar lubricating characteristics..

Max flow: 70, 200 lt/min respectively
Pressure up to 350 bar

1

MODEL CODE

BSA

-

10

-

EM

-

NO

-

24DC

/

235

/

PED

**

/*

Safety manifold

Size:
05 = G 1/2"
10 = G 3/4"
Other sizes are available on request

Release mode:
EM= electric/manual
M = manual

Venting solenoid valve:
NO = normally open
NC = normally closed

Synthetic fluids
WG = water glycol
PE = phosphate ester

Design number

PED = Conforming to 2014/68/EU
(tab. C010 - www.atos.com)

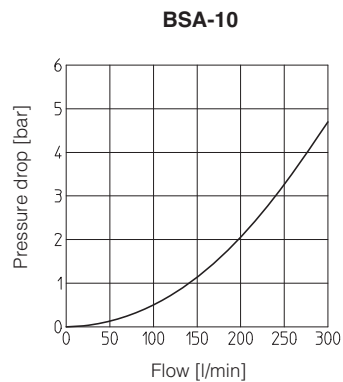
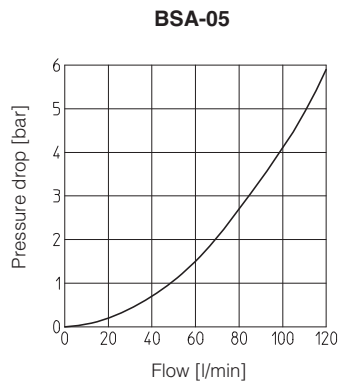
Required setting pressure
/*** = setting @ 50 [l/min]

Electric voltage:
- = manual version
12 DC = 12 V_{DC}
24 DC = 24 V_{DC}
110 AC = 110 V_{AC}
220 AC = 220 V_{AC}

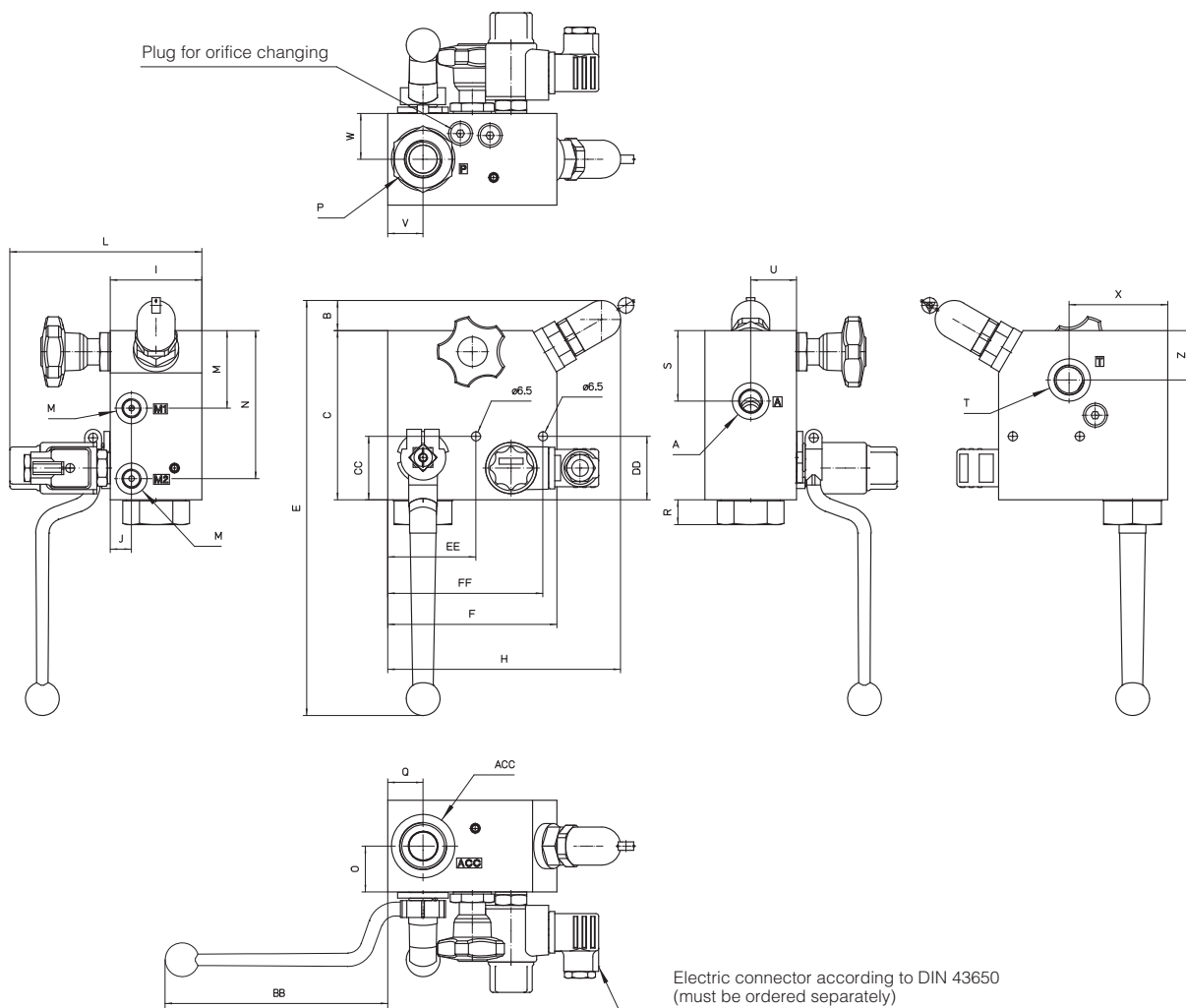
2	HYDRAULIC CHARACTERISTICS		
	<div>BSA-*-M</div>	<div>BSA-*-EM-NC</div>	<div>BSA-*-EM-NO</div>
Model	05	10	
Pressure range of safety valve [bar]	25 ÷ 350		
Max flow of safety valve [l/min]	60	100	
Max flow recommended P↔ACC [l/min]	70	200	
Max pressure [bar]	350		

3	MAIN CHARACTERISTICS			
Installation position	Any position.			
Hydraulic connection	BSA-05 : P = G 1/2" T = G 3/8" A = G 3/8" ACC = G 1/2" M* = G 1/4" BSA-10 : P = G 3/4" T = G 1/2" A = G 3/8" ACC = G 1" M* = G 1/4"			
Fluid	Hydraulic oil as per DIN 51524...535; for other fluids contact our technical office			
Recommended viscosity	15 ÷ 100 mm2/s at 40°C (ISO VG 15 ÷ 100)			
Fluid contamination class	ISO 19/16, achieved with in line filters at 25 µm and β25 ≥ 75 (recommended)			
Fluid temperature	-20°C +60°C (standard and /WG seals) -20°C +80°C (/PE seals)			
Ambient temperature	from -15°C to +70°C			

4 FLOW VERSUS PRESSURE DROP DIAGRAMS based on mineral oil ISO VG 46 at 50°C



5 DIMENSIONS [mm]



Model	B	C	E	F	H	I	J	L	M	N	O	Q	R	S	U	V	W	X	Z	BB	CC	DD	EE	FF	ACC	A	P	T	M*	Mass [Kg]
BSA-05	60	95	240	100	123	55	15	87	30	80	23	20	18,7	47,5	30	20	23	80	70	88	65	45	5	95	G 1/2"	G 3/8"	G 1/2"	G 3/8"	G 1/4"	4,6
BSA-10	27	120	300	120	170	65	15	137	55	105	32,5	25	17,6	50	32,5	25	32,5	70	35	158	45	45	62,5	110	G 1"	G 3/8"	G 3/4"	G 1/2"	G 1/4"	7,5

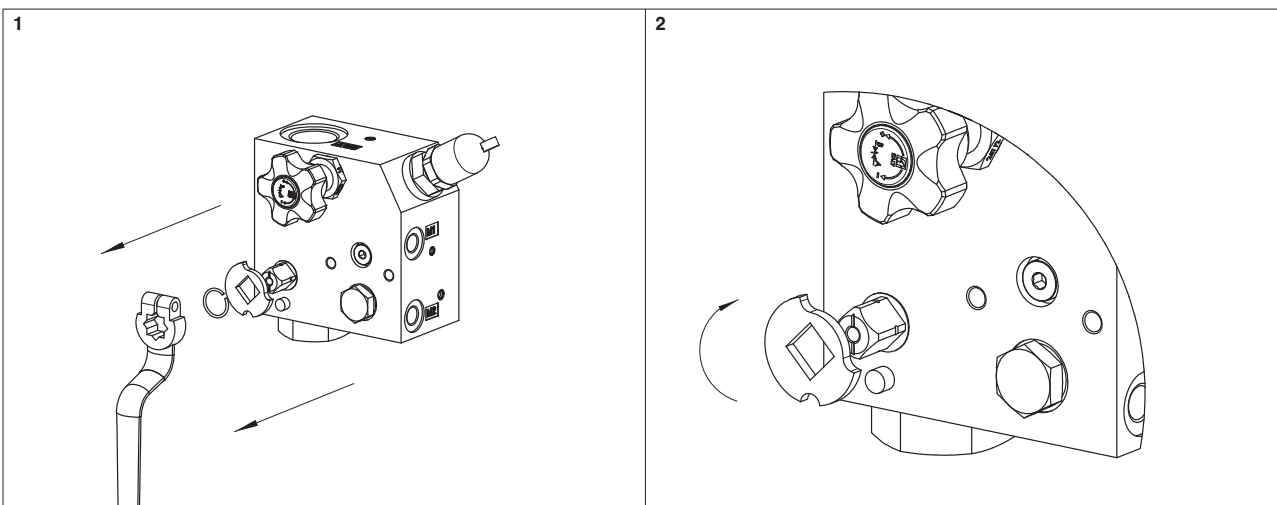
2 MAINTENANCE ISTRUCTIONS

For safety reasons BSA manifold is provided with clamping lever locked in the open position.
In case you need to unlock the lever, follow the following instructions



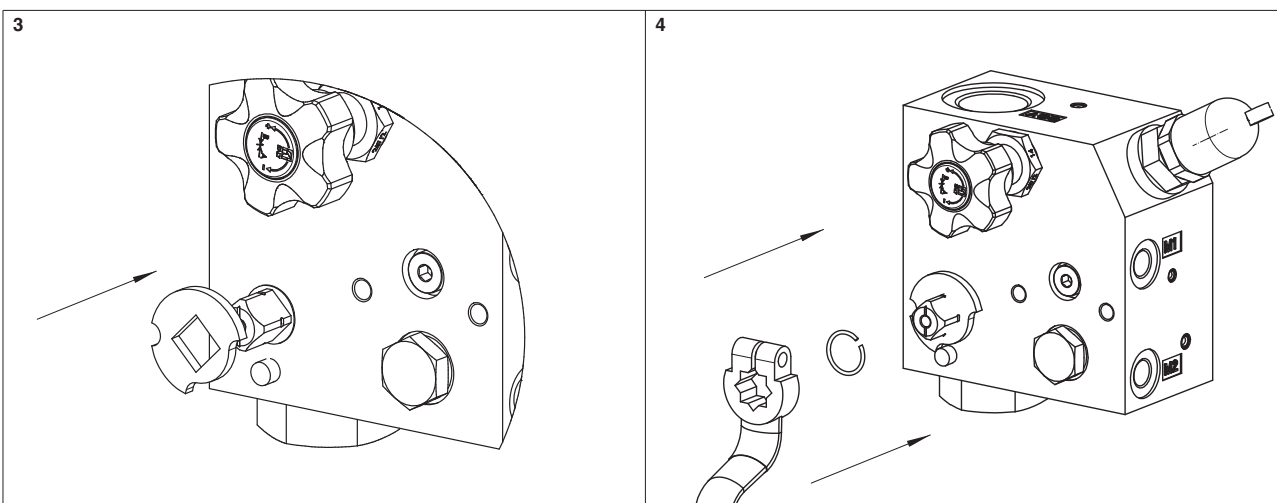
ATTENTION:

- System under pressure before performing any operation turn off and discharge the pressure of the circuit.

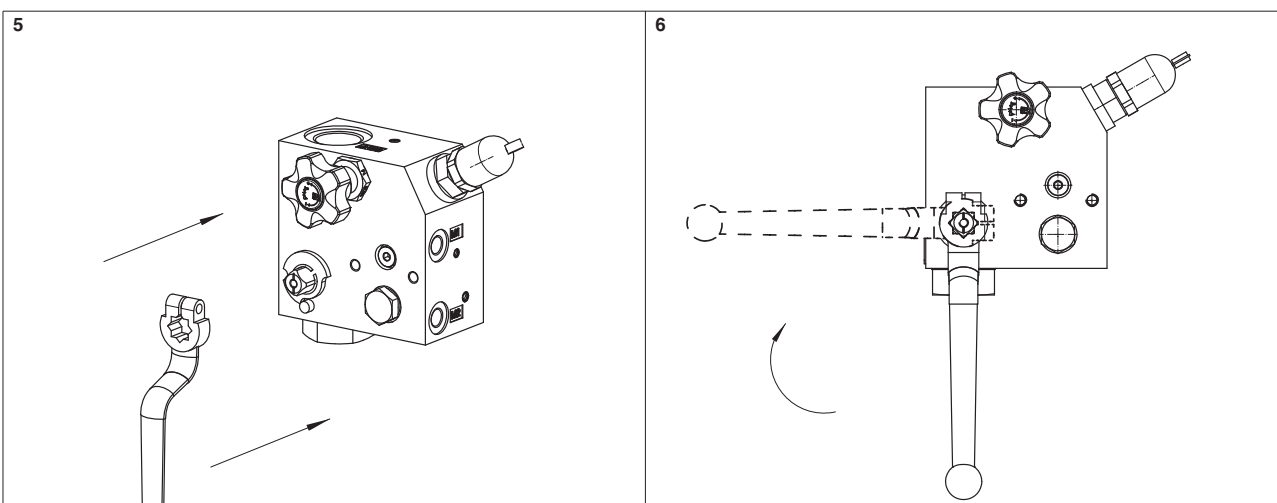


Pull out the clamping lever, the elastic ring and the pressure washer

Rotate 90° clockwise the pressure washer



Reinsert the pressure washer



Reinsert the elastic ring and the clamping lever