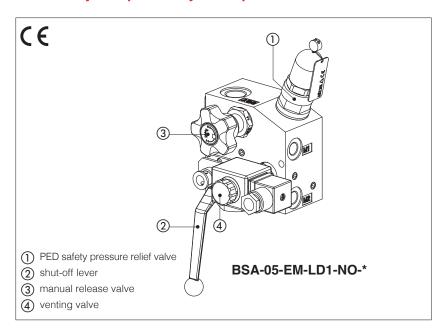


PED safety manifolds for accumulators type BSA

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

Availability and price only on request



PED safety manifolds for accumulators type BSA are equipped with relief valves conforming to PED Directive 2014/68/EU (see tab. CY900).

The safety function is ensured by discharging the excess flow across the relief valve, at required pressure setting value at request (1).

They are equipped with manual shut-off valves to isolate the accumulator from the charging circuit ②, manual release valve ③ to drain the accumulator, and venting solenoid valve with electric driving ④ (optional).

These manifolds are suitable for any hydraulic circuit where there are one or more accumulators.

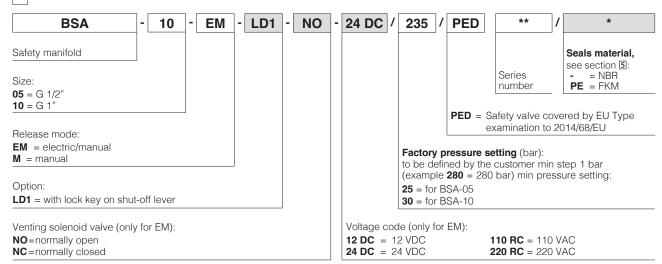
The manifolds are designed to work in hydraulic systems with oil or synthetic fluids having similar lubricating characteristics.

Max flow BSA-05: **70 l/min**

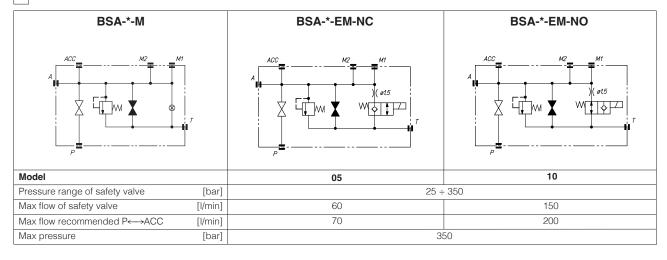
BSA-10: 200 l/min

Pressure up to **350 bar**

1 MODEL CODE



2 HYDRAULIC CHARACTERISTICS



3 GENERAL 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 1" T = G 3/4" A = G 3/8" ACC = G 1" M* = G 1/4"			
Ambient temperature	Standard execution = -20°C ÷ +70°C /PE option = -20°C ÷ +70°C			
Compliance	CE to Low Voltage Directive 2014/35/EU ROHS Directive 2011/65/EU as last update by 2015/863/EU REACH Regulation (EC) n°1907/2006			

4 SEALS AND HYDRAULIC FLUID - for other fluids not included in below table, consult Atos Technical Office

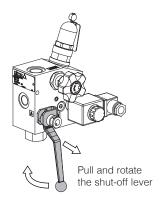
Seals, recommended fluid temperature	NBR seals (standard) = -20° C ÷ $+80^{\circ}$ C, with HFC hydraulic fluids = -20° C ÷ $+50^{\circ}$ C FKM seals (/PE option) = -40° C ÷ $+60^{\circ}$ C, with HFC hydraulic fluids = -40° C ÷ $+50^{\circ}$ C				
Recommended viscosity	15÷100 mm²/s - max allowed range 2.8 ÷ 500 mm²/s				
Max fluid contamination level	ISO 4406 class 20/18/15 NAS 1638 class 9, see also filter section www.atos.com or KTF catalog				
Hydraulic fluid	Suitable seals type	Classification	Ref. Standard		
Mineral oils	NBR, FKM	HL, HLP, HLPD, HVLP, HVLPD	DIN 51524		
Flame resistant without water	FKM	HFDU, HFDR	- ISO 12922		
Flame resistant with water	NBR	HFC			

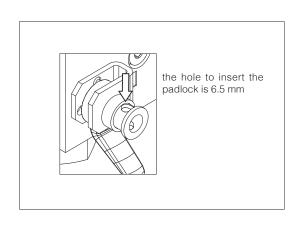
5 ELECTRIC CHARACTERISTICS

Relative duty factor		100%	
Supply voltage		See model code at section 1	
Supply voltage tolerance		±10%	
Max power		20 Watt	
Power connector to be ordered separately		DC voltage: 666 (plastic); 3 pins, cable clamp PG11, cable max ø10mm RC voltage: 669 (plastic, with built-in rectifier bridge); 3 pins, cable clamp PG11, cable max ø10mm	
Connectors features		DIN 43650 - ISO 4400; IP65 (DIN 40050); VDE 0110C	

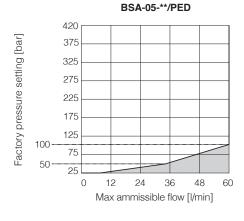
6 OPTION

LD1 option allows to mechanically lock the lever position, and consequently the opening or closing condition of the shut-off valve.

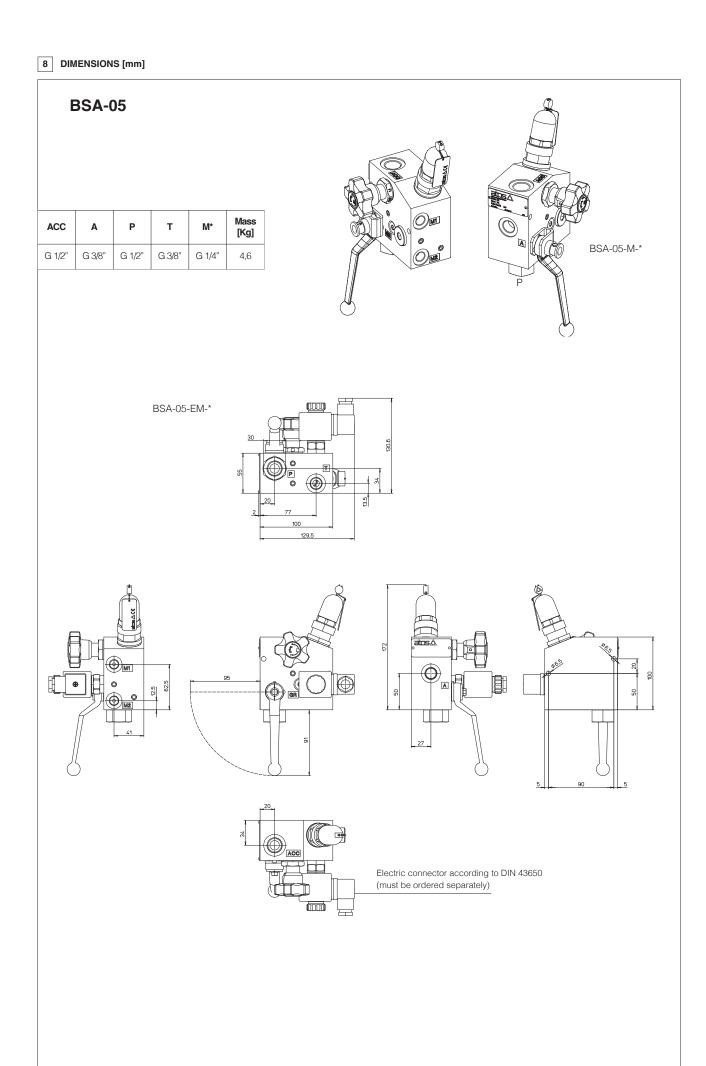




7 DIAGRAMS

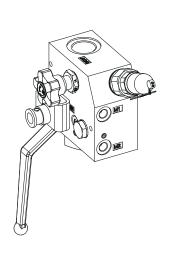


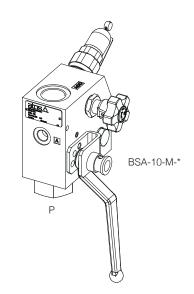
BSA-10-**/PED 430 400 Factory pressure setting [bar] 380 330 290-280 230 200 180 130 110-80 60-30 Max ammissible flow [I/min]

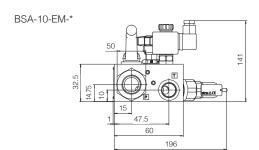


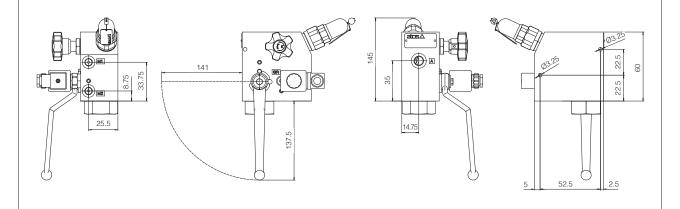
BSA-10

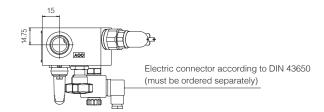
ACC	Α	Р	т	M*	Mass [Kg]
G 1"	G 3/8"	G 3/4"	G 1/2"	G 1/4"	7,5











9 INSTRUCTIONS AND MAINTENANCE

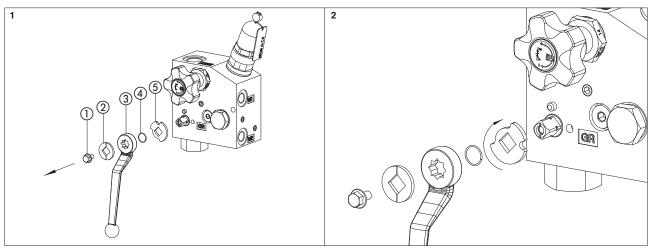
For safety reasons BSA manifold is provided with shut-off lever locked in **open position**. In case you need to unlock the lever, follow these instructions



ATTENTION:

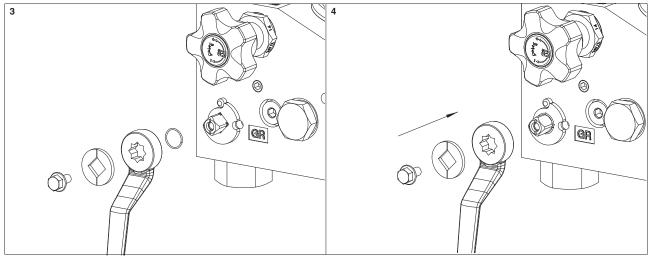
- System under pressure before performing any operation turn off and discharge the pressure of the circuit.

9.1 START-UP



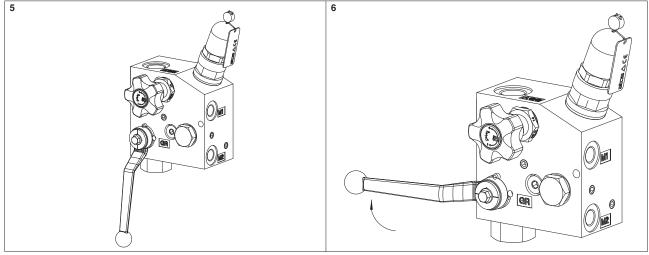
Remove the screw (1) and the flow indicator washer (2), pull out the shut-off lever (3), the snap ring (4) and the stopping disk (5)

Rotate 90° clockwise the stopping disk



Reinsert the stopping disk

Reinsert the snap ring



Reinsert the shut-off lever, the flow indicator washer and the fixing screw

Shut-off lever can be rotated

9.2 MAINTENANCE



ATTENTION:

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

In case of any operating problems, after having emptied and depressurized the system, check the following conditions:

- check the seals and replace them if damaged
- \bullet remove the venting solenoid valve (for EM option)
- remove GR plug, check the screw hole is not clogged

10 RELATED DOCUMENTATION

CY900 Operating and maintenance information for PED certified valves