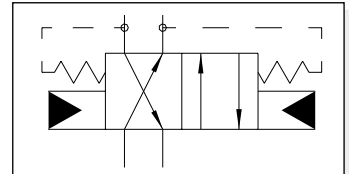## AD5I... AUTOMATIC RECIPROCATING VALVES CETOP 5

AD5I...

The operating principle of this type of inverter valve, with interface UNI ISO 4401 - 05 - 04 - 0 - 94 standard (ex CETOP R 35 H 4.2-4-05), is based on the pressure unbalanced created in its interior as a consequence of the fluid flow rate. On starting the system this valve assumes always a preferential position $P \rightarrow B$ e $A \rightarrow T$.

When a pressure is applied to the cylinder which exceeds the system maximum pressure relief valve setting (e.g. end stroke actuator), a hydraulic unbalanced is generated capable of changing over the valve and inverting the cylinder direction of the movement.

Max. operating pressure port P	320 bar
Max. flow	100 l/min
Minimum permitted flow	10 l/min
Fluid viscosity	$32 \div 60$ mm^2/s
Fluid temperature	$-20°C \div 60°C$
Max. contamination level(*)	class 10 in accordance with NAS 1638 with filter ß$_{25}$≥75
Positioner activating force (measured with 1 bar on the T line)	190 N
Weight of version without positioner	3,4 Kg
Weight of version with positioner	3,6 Kg

(*) Max contamination level must be respect to obtain the right function of the valve
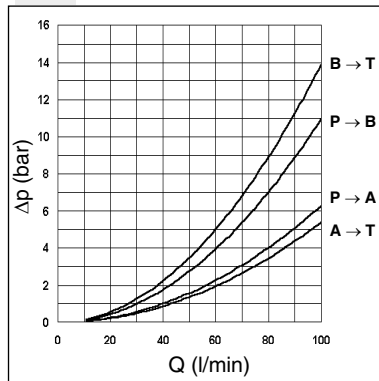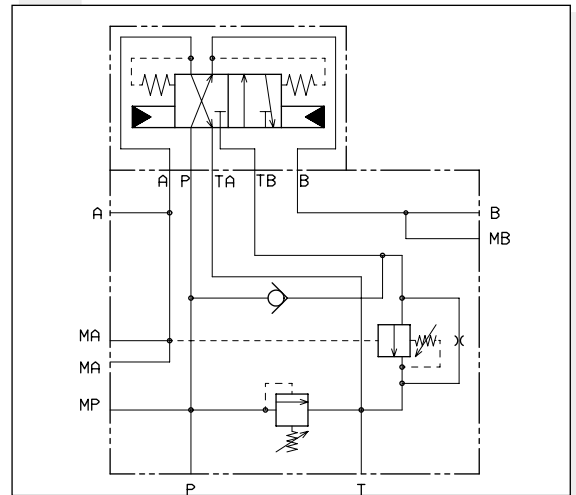
ORDERING CODE

AD	Directional control
5	CETOP 5/NG10
I	Automatic reciprocating valve at null flow
P	Version with positioner to adjust the pressure relief valve of the system
**	**00** = No variant **V1** = Viton **2T** = Variant for regenerative system
1	Serial No.

AD5IP2T1 FOR REGENERATIVE SYSTEM

Version AD5IP2T1 integrated in a regenerative circuit for compactors with roll on-off mobile system, solution useful for all applications where to connect microswitch of proximity is not possible. For any information about our regenerative manifold please contact our technical department. For special subplate BS5RIA see Cap. X • 8.

PRESSURE DROPS

Δp (bar) vs Q (l/min)

B → T
P → B
P → A
A → T

Tests carried out with mineral oil a temperature of 40°C with a viscosity of 46 mm^2/s.

(GSQ TS-014/90 / OR 2-014/90)

GSQ = square section seal

Fixing screws UNI 5931 M6x40
with material specifications min. 8.8
Tightening torque 5 Nm / 0.5 Kgm

Support plane specifications

BREVINI Motion Systems DANA