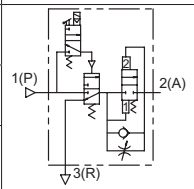
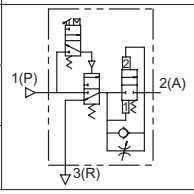
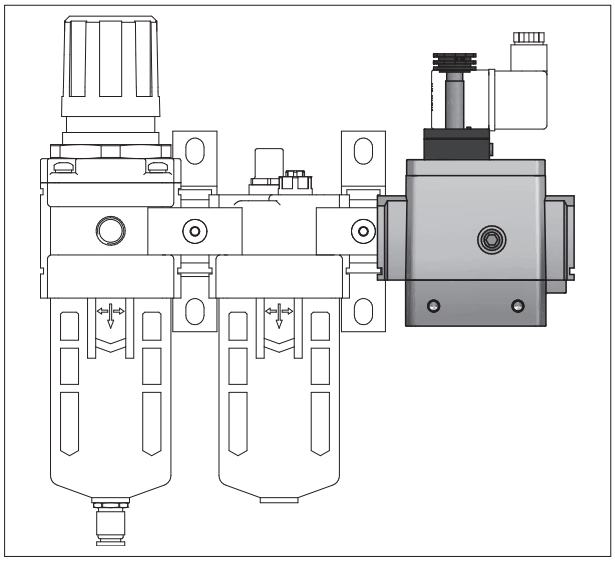
| Standard executions | | | |
|---|---|---|---|
| Version | Symbol | Type | Item |
| Electric 1/4 |  | 090231 | AVP14E |
| Electric 3/8 | | 090232 | AVP38E |
| Electric 1/2 | | 090233 | AVP12E |
| Pneumatic 1/4 |  | 090247 | AVP14P |
| Pneumatic 3/8 | | 090248 | AVP38P |
| Pneumatic 1/2 | | 090249 | AVP12P |



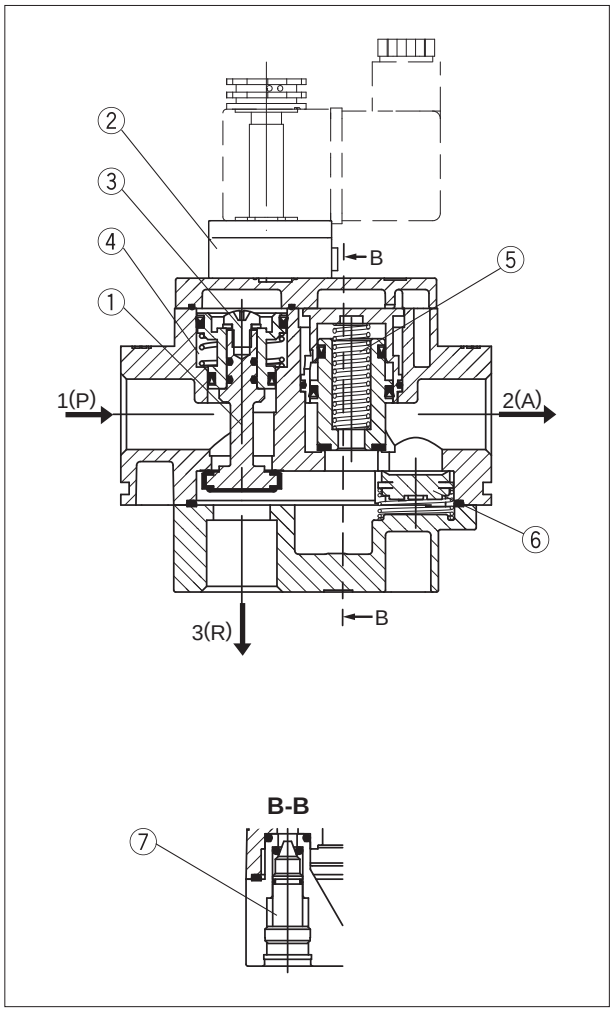


Soft/start valve, for progressive pressurizing the pneumatic lines when switch on.
Is indicated as safety valve, to quickly exhaust the downstream circuit.
- Manual override;
- Exhausting function;
- Low consumption;
- Modular assembly with airline equipment.

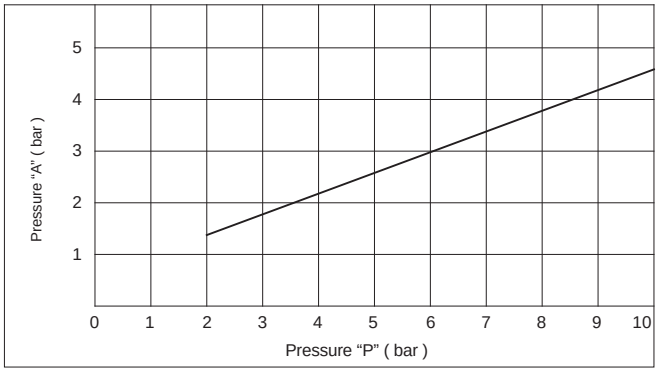
For airline equipment see page 3.2.1
For coils type ASA12... see page 2.200.1
For connector type A122... see page 2.210.20
Pressure gauges to be ordered separately, see page 3.50.1
For accessories, assembly kits and spare parts see page 3.5.1



| Technical data | | | | |
|---|---|---|---|---|
| Fluid | | Compressed air | | |
| Maximum pressure | | 15 bar | | |
| Regulation range | | 0,2 ÷ 10 bar | | |
| Temperature range | | 0 ÷ 60 °C | | |
| Size | | 1/4" | 3/8" | 1/2" |
| Section | 1 (P) → 2(A) | 20 $mm^2$ | 37 $mm^2$ | 61 $mm^2$ |
| | 2 (A) → 3(R) | 24 $mm^2$ | 49 $mm^2$ | 76 $mm^2$ |
| Gauges mountings | | 1/8" | 1/8" | 1/8" |
| Manual Override | | Spring return | | |
| Materials | | Body: Painted aluminium<br>Cover Painted aluminium<br>End cover Painted aluminium<br>Piston guide POM / NBR<br>Seals NBR<br>Internal parts Brass / NBR<br>Springs Stainless steel | | |




**Pressure in the start-up phase of the valve**




## OPERATING CONDITIONS

### Start-up phase

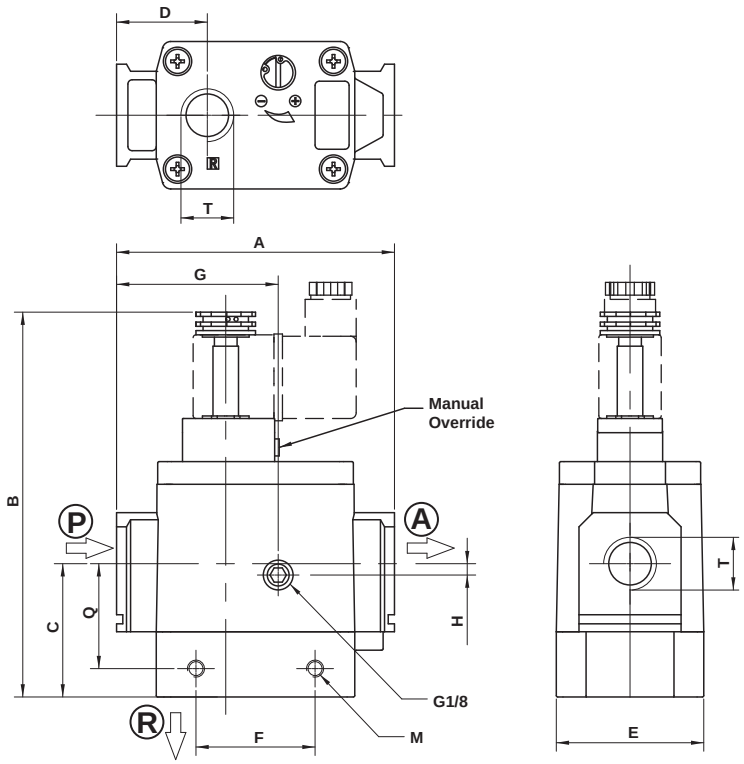
By actuating electro-pilot or pneumatic-pilot ② ( or the manual override ), piloting air will push the poppet ① down opening this way the main power valve and at the same time, closing the exhaust Ⓡ.
Air from inlet Ⓟ will go through the regulation needle ⑦ and out to Ⓐ.
Opening speed can be adjustable by the side screw.

### Switching and working phase

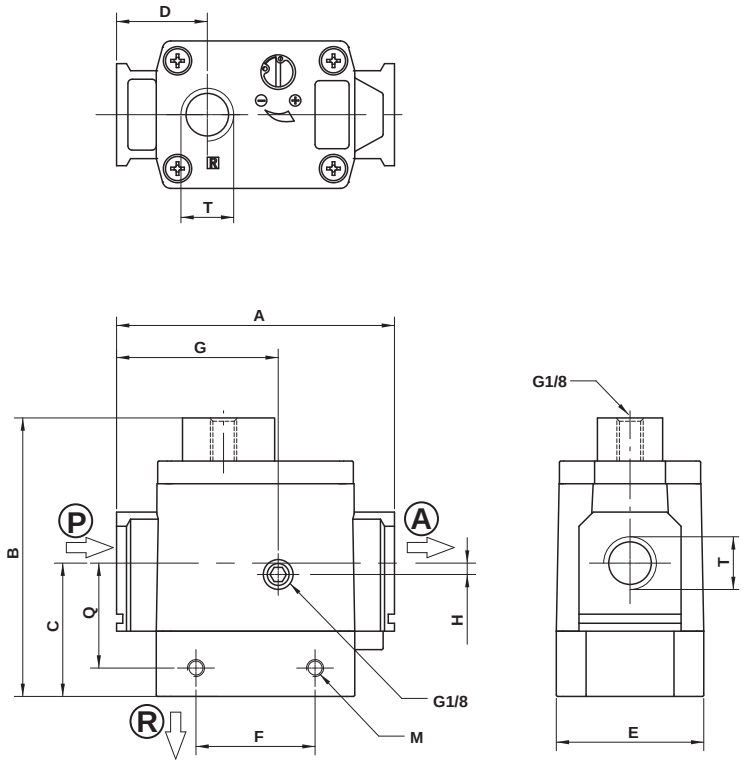
In the moment the pressure difference between Ⓟ and Ⓐ is (A) ≥ ½ (P) the poppet ⑤ fully open and outlet pressure Ⓐ rapidly increase until equalize inlet one at Ⓟ.
Soft-start valve will not represent any obstacle for the air-flow going through it.

### Closing and exhausting phase

By deactivating electro-pilot or pneumatic pilot ② ( or the manual override ), the poppet ① will reposition stopping the air from inlet Ⓟ and contemporary exhaust the downstream air in the circuit from Ⓡ.




| Code | Item | Size | A | B | C | D | E | G | H | F | Q | M | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 090231 | AVP14E | 1/4 | 66 | 114 | 31 | 22 | 40 | 38 | 0 | 29 | 23,5 | M4 | 1/4” |
| 090232 | AVP38E | 3/8 | 76 | 131 | 36 | 24 | 48 | 43 | 2 | 28 | 27,5 | M5 | 3/8” |
| 090233 | AVP12E | 1/2 | 98 | 146 | 47 | 32 | 52 | 57 | 3 | 42 | 42 | M6 | 1/2” |




| Code | Item | Size | A | B | C | D | E | G | H | F | Q | M | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 090247 | AVP14P | 1/4 | 66 | 75 | 31 | 22 | 40 | 38 | 0 | 29 | 23,5 | M4 | 1/4” |
| 090248 | AVP38P | 3/8 | 76 | 84 | 36 | 24 | 48 | 43 | 2 | 28 | 27,5 | M5 | 3/8” |
| 090249 | AVP12P | 1/2 | 98 | 90 | 47 | 32 | 52 | 57 | 3 | 42 | 42 | M6 | 1/2” |