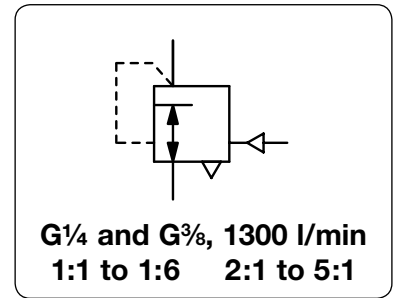


| | |
|--------------------------|--|
| Description | The volume booster amplifies the volume at a 1:1 ratio of pilot pressure to outlet pressure. The pilot pressure has no constant bleed and shows the same function as a spring in a common regulator: generating counter pressure on the diaphragm. |
| Media | compressed air or non-corrosive gases |
| Supply pressure | max. 17 bar |
| Pilot pressure | max. 10 bar at 1:1 ratio, 5 bar at 1:2, 3.3 bar at 1:3, 2.5 bar at 1:4, 1.7 bar at 1:6 |
| Accuracy | at supply pressure variation of 7 bar: < 7 mbar pressure deviation transmission error: 1% from 1:1 to 1:3 ratio, 2% at greater or inverse transmission |
| Air consumption | max. 3 l/min, subject to outlet pressure |
| Relief capacity | 310 l/min at 1.5 bar outlet and 0.35 bar overpressure above setpoint |
| Gauge port | G $\frac{1}{4}$ on both sides of the body, screw plugs supplied |
| Temperature range | 0 °C to 80 °C / 32 °F to 176 °F, NBR, for appropriately conditioned compr. air down to -40 °C / -40 °F 0 °C to 90 °C / 32 °F to 194 °F, FKM, for appropriately conditioned compr. air down to -40 °C / -40 °F |
| Material | Body: aluminium die-cast Inner valve: brass and zinc-plated steel Elastomer: NBR/Buna-N |



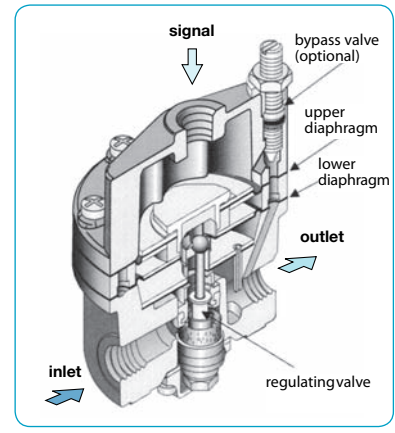
| Dimensions | | | K _v | Flow rate | Connection | Pilot pressure | Transmission ratio | Order number |
|------------|---|---|----------------|---------------------|------------|----------------|--------------------|--------------|
| A | B | C | value | m ³ /h*1 | thread | max. bar | signal : outlet | |

| Volume booster | | | | | | | | | |
|---|-----|----|-----|----|------|-----------------|-----|-------|-----------------|
| with transmission ratio, supply pressure max. 17 bar, relieving, with constant bleed, pressure range 0...10 bar | | | | | | | | | |
| 76 | 98 | 24 | 0.7 | 78 | 1300 | G $\frac{1}{4}$ | 10 | 1 : 1 | R218-02I |
| | | | | | | | 5.0 | 1 : 2 | R218-02K |
| | | | | | | | 3.3 | 1 : 3 | R218-02L |
| 76 | 110 | 24 | 0.7 | 78 | 1300 | G $\frac{1}{4}$ | 2.5 | 1 : 4 | R218-02M |
| | | | | | | | 2.0 | 1 : 5 | R218-02N |
| | | | | | | | 1.7 | 1 : 6 | R218-02O |
| 76 | 98 | 24 | 0.7 | 78 | 1300 | G $\frac{1}{4}$ | 10 | 2 : 1 | R218-02R |
| | | | | | | | | 3 : 1 | R218-02S |
| 76 | 110 | 24 | 0.7 | 78 | 1300 | G $\frac{1}{4}$ | 10 | 4 : 1 | R218-02T |
| | | | | | | | | 5 : 1 | R218-02U |



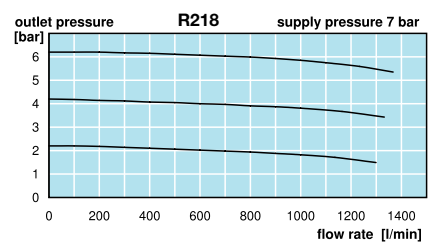
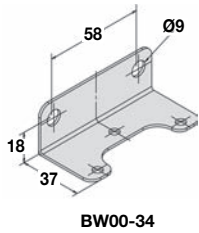
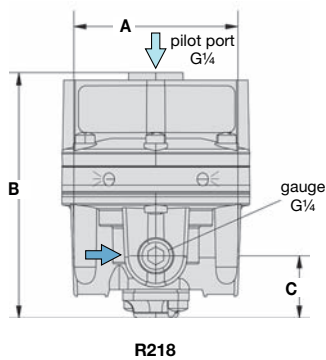
Special options, add the appropriate letter

| | | |
|----------------------------------|--|----------------------|
| G$\frac{3}{8}$ | connection thread | R218-03 . |
| NPT | connection thread | R218-02 . N |
| non-relieving*3 | without relieving function | R218-02 . K |
| tapped exhaust*3 | connection thread G $\frac{1}{4}$ | R218-02 . X12 |
| bypass with restrictor | between control chamber and outlet, | 1:1 only |
| negative bias*3 | preset to -0.24 bar, adjustable by 30 mbar | R218-02 . Y |
| silicone elastomer | supply pressure: max. 5 bar, | 1:1 only |
| FKM elastomer | | R218-02 . V |



Accessories, enclosed

| | | |
|-------------------------|--------------------------------------|--------------------|
| pressure gauge | Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$ | MA5002-..*2 |
| mounting bracket | made of steel | BW00-34 |



*1 at 7 bar supply pressure and 1.4 bar outlet pressure
*2 02 = 0...2.5 bar, 04 = 0...4 bar, 06 = 0...6 bar, 10 = 0...10 bar, 16 = 0...16 bar

*3 only for 1:1, 1:2, 1:3, 2:1 and 3:1



Order example:
R218-02I
China website: www.duray-control.cn