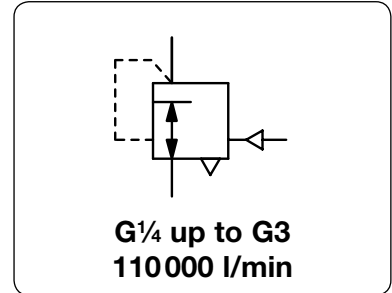


Precision Volume Booster with High Volume Flow up to G3

R119-J

| | | |
|---------------------------|--|---|
| Description | Pilot-operated regulator adapted for control by small remote pilot regulator or by proportional pressure valve. Ideal for continuous high-capacity requirements where reduced pressure must be held constant over wide variations in flow. Booster with diaphragm up to regulator size G1½, with piston from regulator size G2 on. The booster is silicone-free. | |
| Media | compressed air or non-corrosive gases | |
| Supply pressure | max. 21 bar | |
| Pilot pressure | max. 18 bar | |
| Pilot port | G¼ at regulator size G¼ and G¾, | G¼ from regulator size G½ on |
| Air consumption | approx. 0.1 l/min of pilot signal | |
| Relieving function | relieving, optionally non-relieving | |
| Gauge port | G¼ on both sides of the body | |
| Temperature range | 0 °C to 50 °C / 32 °F to 122 °F | up to 80 °C / 176 °F at G3 |
| Material | Body: zinc die-cast, aluminium at G3 Diaphragm: NBR/Buna-N, optionally FKM | Mounting position any Inner valve: brass Bottom screw: reinforced nylon |



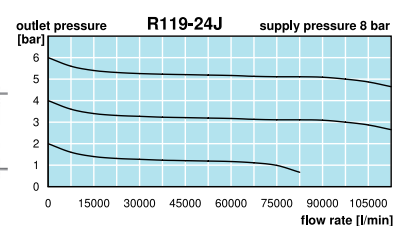
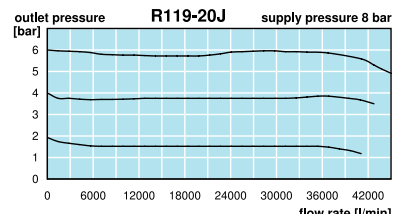
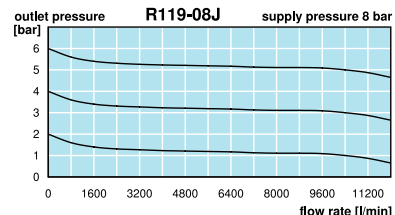
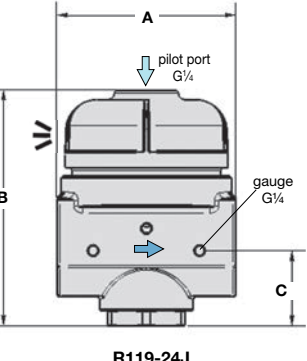
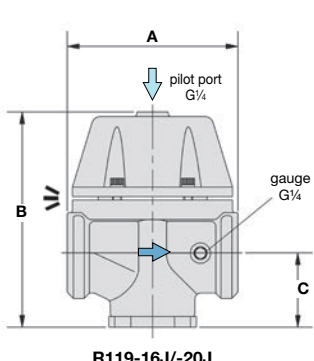
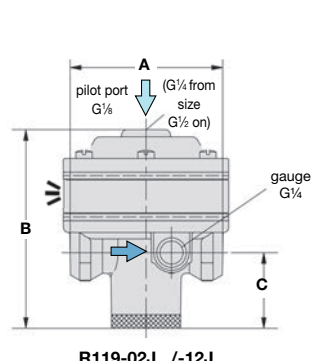
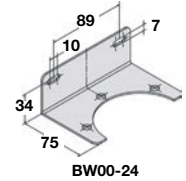
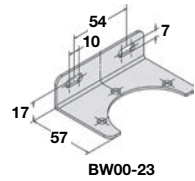
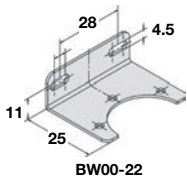
| Dimensions | | | Nominal size | K _v value | Flow rate | | Connection thread | Order number |
|------------|----|----|--------------|----------------------|-----------|---------|-------------------|--------------|
| A | B | C | DN | (m³/h) | m³/h*1 | l/min*1 | G | |
| mm | mm | mm | | | | | | |

| Volume booster | | | | | | | | |
|--|-----|----|----|------|------|--------|-----|-----------------|
| supply pressure max. 21 bar, outlet pressure 0.2...18 bar with constant bleed, transmission ratio 1:1, relieving | | | | | | | | |
| 70 | 86 | 35 | 5 | 2.1 | 102 | 1700 | G¼ | R119-02J |
| 70 | 86 | 35 | 10 | 2.8 | 150 | 2500 | G¾ | R119-03J |
| 83 | 98 | 37 | 15 | 5.0 | 340 | 5600 | G½ | R119-04J |
| 113 | 123 | 49 | 20 | 7.6 | 540 | 9000 | G¾ | R119-06J |
| 113 | 123 | 49 | 25 | 8.4 | 600 | 10000 | G1 | R119-08J |
| 125 | 132 | 48 | 32 | 9.2 | 660 | 11000 | G1¼ | R119-10J |
| 125 | 132 | 48 | 40 | 10.0 | 720 | 12000 | G1½ | R119-12J |
| 186 | 225 | 79 | 50 | 35.4 | 2520 | 42000 | G2 | R119-16J |
| 186 | 225 | 79 | 65 | 37.1 | 2640 | 44000 | G2½ | R119-20J |
| 214 | 282 | 95 | 80 | 56.0 | 6600 | 110000 | G3 | R119-24J |



| Special options, add the appropriate letter | | |
|---|--|--------------|
| NPT | connection thread | R119-...JN |
| non-relieving | without relieving function | R119-...JK |
| FKM elastomer | | R119-...JX64 |
| | for G¼ to G1½ | R119-24JX64 |
| | for G3 | R119-...JX71 |
| | for G¼ to G1½ | R119-...JF |
| without constant bleed | inside the pilot chamber | R119-24JX27 |
| flange connection | see chapter for SST devices / flanges | R119-24JX06 |
| external feedback | for increased accuracy | |
| pre-pressure regulation | 340 mbar, advisable if P ₁ is close to P ₂ | |

| Accessories, enclosed | | |
|-------------------------|--|--|
| pressure gauge | Ø 50 mm, 0...*2 bar, G¼ Ø 63 mm, 0...*2 bar, G¼ | for G¼ up to G½ MA5002 -*2 for G¾ up to G3 MA6302 -*2 |
| mounting bracket | made of steel | for G¼ and G¾ BW00-22 for G½ BW00-23 for G¾ up to G1½ BW00-24 |



*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop
*2 02 = 0...2.5 bar, 04 = 0...4 bar, 10 = 0...10 bar, 16 = 0...16 bar, 20 = 0...20 bar, 25 = 0...25 bar



Order example
R119-02J
China website: www.duray-control.cn