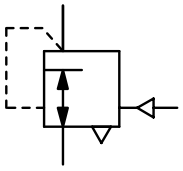
Description	The pilot pressure regulator / booster regulates the outlet pressure through a signal pressure at ratio of 1:1. Functioning as a pressure regulator the pilot pressure may either be internally inducted from the inlet pressure or externally. The dome chamber is closed by a needle valve. Functioning as a volume booster the dome is controlled by a proportional pressure regulator or a pilot pressure regulator.
Media	compressed air, non-corrosive gases or liquids
Supply pressure	max. 25 bar for RL.-0.J1, max. 100 bar for RL.-0.J2, max. 40 bar for oxygen, max. 1.5 bar for acetylene
Pilot pressure	max. 24 bar for RL.-0.J1, max. 99 bar for RL.-0.J2, pilot port G¼
Accuracy	at supply pressure variation of 10 bar: 0.1 bar pressure deviation at temperature variation of 3 °C / K: 1% pressure deviation at internal pilot pressure
Air consumption	without constant bleed
Relieving function	non-relieving
Gauge port	not available
Mounting position	any, dome preferably mounted up
Temperature range	-20 °C to 100 °C / -4 °F to 212 °F for FKM, -40 °C to 130 °C / -40 °F to 266 °F for EPDM
Material	Body: brass or stainless steel 1.4571 Inner valve: brass or stainless steel 1.4571 Elastomer: FKM, optionally EPDM



G1, 0.1 ... 24 / 99 bar
brass or stainless steel

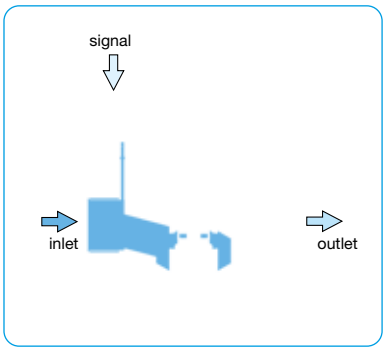
Dimensions A	B	C	K_v-value	Flow rate		Connection thread	Supply pressure	Pressure range	Order number
mm	mm	mm	(m^3/h)	m^3/h*1	l/min*1	G	max. bar*2	bar	
Brass pressure regulator supply pressure max. 25 / 100 bar, non-relieving, without constant bleed, transmission ratio 1:1, FKM									**RLM**
127	170	54	2.9	340	5600	G1	25	0.1 ... 24	**RLM-08J1**
				2500	60000	G1	100	0.5 ... 99	**RLM-08J2**
SST pressure regulator supply pressure max. 25 / 100 bar, non-relieving, without constant bleed, transmission ratio 1:1, FKM									**RLE**
127	170	54	2.9	340	5600	G1	25	0.1 ... 24	**RLE-08J1**
				2500	60000	G1	100	0.5 ... 99	**RLE-08J2**

RLM, made of brass

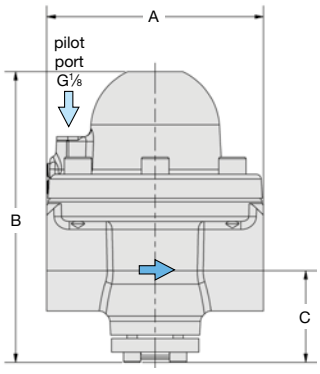
RLE, made of stainless steel

Special options, add the appropriate letter

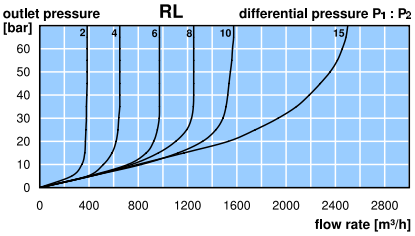
EPDM elastomer		RL . -0 . J . **E**
carbon dioxide	CO_2	RL . -0 . J . **03**
argon	Ar	RL . -0 . J . **05**
nitrogen	N_2	RL . -0 . J . **07**
helium	He	RL . -0 . J . **09**
hydrogen	H_2	RL . -0 . J . **11**
oxygen	O_2	RL . -0 . J . **15**
propane	C_3H_8	RL . -0 . J . **16**
nitrous oxide	N_2O	RL . -0 . J . **17**



cross section



RL.



*1 RL.-J1: at 25 bar supply pressure and 5 bar outlet pressure
RL.-J2: at 85 bar supply pressure and 70 bar outlet pressure

*2 supply pressure max. 40 bar for oxygen
supply pressure max. 1.5 bar for acetylene

PDF CAD
www.aircom.net

Order example:
RLM-08J1