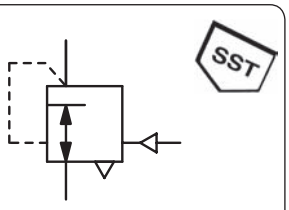
High Pressure Booster up to 100 bar — RLN / RLP

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 / -4 °F to 266 °F for EPDM
Material	Body: brass or stainless steel Inner valve: brass or stainless steel Elastomer: FKM, optionally EPDM



G1, 0.1 … 24 / 99 bar brass or SST

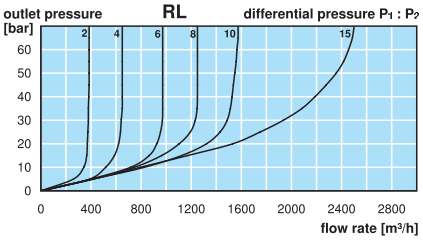
Dimensions A mm	B mm	C mm	K_v value (m^3/h)	Flow rate m^3/h*1	l/min*1	Connection thread G	Supply pressure max. bar*2	Pressure range bar	Order number
Brass pressure regulator supply pressure max. 25 / 100 bar, non-relieving, without constant bleed, transmission ratio 1:1, FKM									**RLN**
127	170	54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

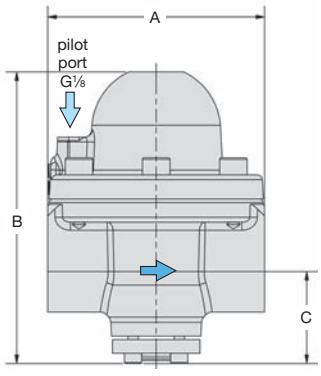
RLN, made of brass

RLP, made of stainless steel

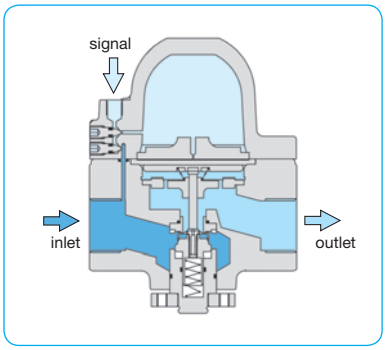
Special options, add the appropriate letter

EPDM elastomer								RL . -0 . J . **E**
nitrogen	N_2:	**07**	**carbon dioxide**	CO_2:	**03**	**argon**	Ar:	RL . -0 . J . **05**
helium	He:	**09**	**hydrogen**	H_2:	**11**	**methane**	CH_4:	RL . -0 . J . **13**
oxygen	O_2:	**15**	**propane**	C_3H_6:	**16**	**nitrous oxide**	N_2O:	RL . -0 . J . **17**





RL.



cross section

*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

Order example: RLN-08J1

China website: www.duray-control.cn

Volume boosters