

Function fittings

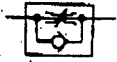
One-way flow control valves, M5 to G³/₄
FESTO
PNEUMATIC

One-way flow control valve
with swivel connection

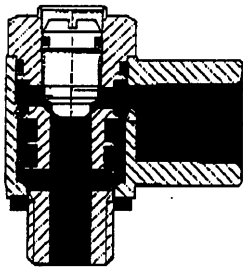
Type GRLA-...-B

with knurled screw for manual adjustment

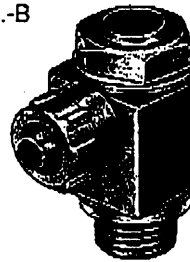
Type GRLA-...-RS-B



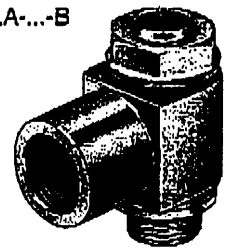
These valves are used to regulate the exhaust air flow in double-acting cylinders, thus producing a change in the piston speed.



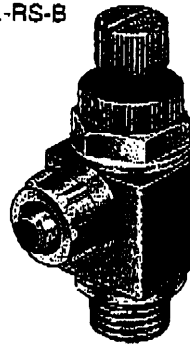
Type GRLA-...-PK-...-B



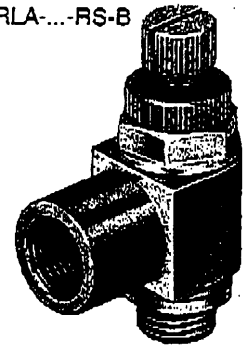
Type GRLA-...-B



Type GRLA-...-PK-...-RS-B



Type GRLA-...-RS-B



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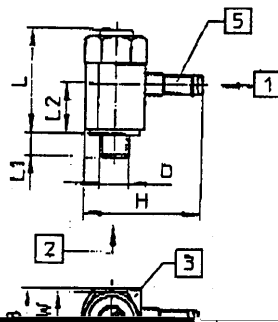
The adjusting screw controls the amount of air in the direction of the arrow. In the reverse direction, the air flows through the non-return valve, thus providing full cross sectional flow.

These space-saving valves are fitted directly on the cylinder without any accessories. The connection can be rotated through 360°.

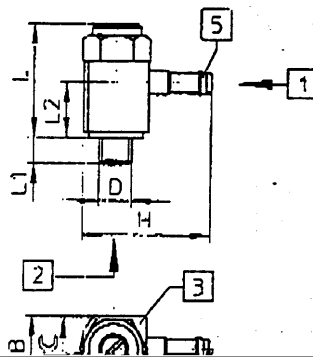
Order code Part No./Type	with thread	151160 GRLA-M5-B	151165 GRLA-1/8-B	151172 GRLA-1/4-B	151178 GRLA-3/8-B	151179 GRLA-1/2-B	151180 GRLA-3/4-B	
	with barbed fitting	151161 GRLA-M5-PK-3-B	151166 GRLA-1/8-PK-3-B	-	-	-	-	
	with tube connector	151162 GRLA-M5-PK-4-B	151167 GRLA-1/8-PK-4-B	151173 GRLA-1/4-PK-4-B	-	-	-	
		-	151168 GRLA-1/8-PK-6-B	151174 GRLA-1/4-PK-6-B	-	-	-	
	with knurled screw	151163 GRLA-M5-RS-B	151169 GRLA-1/8-RS-B	151175 GRLA-1/4-RS-B	-	-	-	
		151164 GRLA-M5-PK-3-RS-B	151170 GRLA-1/8-PK-4-RS-B	151176 GRLA-1/4-PK-4-RS-B	-	-	-	
		-	151171 GRLA-1/8-PK-6-RS-B	151177 GRLA-1/4-PK-6-RS-B	-	-	-	
	Medium		Compressed air, filtered (lubricated or unlubricated)					
	Design		Combined throttle and non-return valve					
	Mounting		Screwed connection					
	Connection thread/for tubing		M5/NW 3	G ¹ / ₈ /NW 3, 4, 6	G ¹ / ₄ /NW 4, 6	G ³ / ₈	G ¹ / ₂	G ³ / ₄
	Nominal bore	mm	2	4	6	8.5	10.8	14
Standard nominal flow rate in throttle direction l/min (throttle open)	Thread	0 to 100	0 to 380	0 to 720	0 to 1450	0 to 2330	0 to 4320	
	PK-3	0 to 85	0 to 120	-	-	-	-	
	PK-4	0 to 100	0 to 250	0 to 250	-	-	-	
	PK-6	-	0 to 300	0 to 580	-	-	-	
Against throttle direction l/min (throttle open/closed)	Thread	100/65	410/230	780/340	1520/780	2400/1250	4720/3220	
	PK-3	85/55	110/90	-	-	-	-	
	PK-4	100/60	240/160	230/170	-	-	-	
	PK-6	-	290/190	600/320	-	-	-	
Permissible tightening torque	Nm	1.5	6	11	20	40	60	
Pressure range		0.2 to 10 bar 0.3 to 10 bar						
Temperature range		-10 to +60 °C						
Material		Rotating connector: die-cast Zn; sleeve, O-ring: Perbunan						
Weight		0.015 kg	0.030 kg	0.060 kg	0.100 kg	0.200 kg	0.400 kg	

705-2807

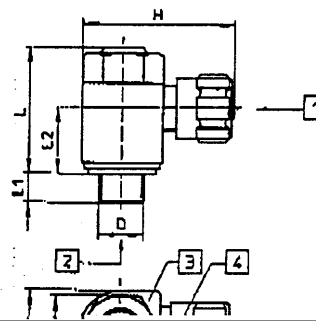
Type GRLA-M5-PK-...-B



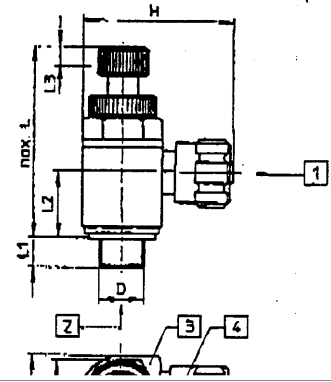
Type GRLA-...-PK-...-B



Type GRLA-...-B



Type GRLA-...-PK-...-RS



Type	B	D	H	H ₁	L	L ₁	L ₂	≈
GRLA-M5-B	10	M5	17.5	12.5	17.6	4	7.1	9
GRLA-M5-PK-3-B	10	M5	19.7	14.7	17.6	4	8.5	9
GRLA-M5-PK-4-B	10	M5	21.7	16.7	17.6	4	8.5	9
GRLA-1/8-B	16	G ^{1/8}	28	20	25.2	5.8	10.3	14
GRLA-1/4-PK-3-B	16	G ^{1/4}	27.1	20.1	25.2	5.8	10.3	14

- 1 Non-return direction
- 2 Throttle direction
- 3 360° rotatable
- 4 Barbed fitting for 3, 4 and 6 mm tubing with locking union nut
- 5 Barbed fitting

Type GRLA-...-RS-B

