

# Exhaust Flow Controls

With Silencer G 1/8 ISO to G 1/2 ISO and 1/8" to 1/2" NPT

## Exhaust Flow Control

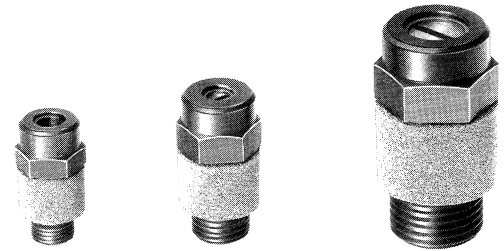
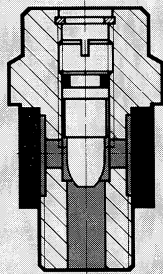
With sintered metal silencer

Type GRE-...  
GRE-...-NPT

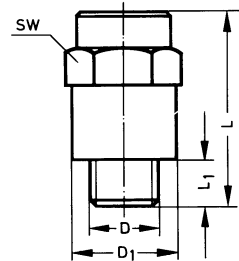
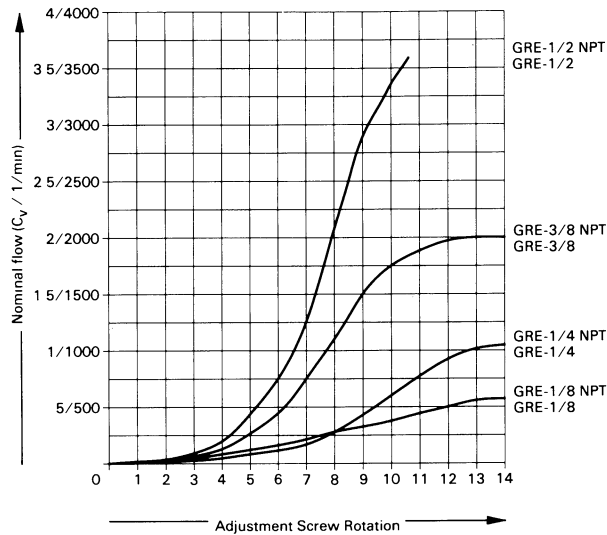


The valve is screwed into the exhaust ports (R or S) of control valves, and makes it possible to control the piston speed of cylinders by means of exhaust port flow control.

The adjustment screw regulates exhaust flow. The air discharges via the built-in silencer, thereby reducing exhaust noise.



Flow versus Adjustment Screw Rotation (Q-S Characteristic Curve)



SW = wrench size, mm

Type	D	D <sub>1</sub> in / mm	L in / mm	L <sub>1</sub> in / mm	SW mm
GRE-1/8 (NPT)	G 1/8 (1/8 NPT)	0.59 / 15	1.12 / 28.5	0.26 / 6.5	14
GRE-1/4 (NPT)	G 1/4 (1/4 NPT)	0.72 / 18.2	1.34 / 34	0.31 / 8	17
GRE-3/8 (NPT)	G 3/8 (3/8 NPT)	0.98 / 25	1.65 / 42	0.31 / 8	22
GRE-1/2 (NPT)	G 1/2 (1/2 NPT)	1.02 / 27	1.89 / 48	0.47 / 12	24

Order Number	Part No./Type	NPT	10057 GRE-1/8-NPT	10058 GRE-1/4-NPT	35311 GRE-3/8-NPT	10059 GRE-1/2-NPT
		ISO	10351 GRE-1/8	10352 GRE-1/4	35310 GRE-3/8	10353 GRE-1/2
Medium	Compressed air, filtered (lubricated or unlubricated)					
Design	Exhaust needle valve with integrated silencer					
Mounting	Port mounted					
Connection	G 1/8 ISO / 1/8 NPT	G 1/4 ISO / 1/4 NPT	G 3/8 ISO / 3/8 NPT	G 1/2 ISO / 1/2 NPT		
Orifice Size	0.14 in / 3.5 mm	0.20 in / 5 mm	0.28 in / 7 mm	0.39 in / 10 mm		
Flow Rate**	0 to 18.5 scfm / 0 to 520 l/min		0 to 35.7 scfm / 1000 l/min		0 to 71.4 scfm / 2000 l/min	
Pressure Range	0 to 150 psi / 0 to 10 bar					
Temperature Range	14 to 158°F / -10 to +70°C					
Noise Level at 90 psi / 6 bar to Atmosphere*	85 dB(A)		80 dB(A)		87 dB(A)	
Materials	Housing: Aluminum, brass; silencer: Sinter bronze; seals: Buna N					
Weight	0.03 lb / 0.015 kg		0.06 lb / 0.025 kg		0.11 lb / 0.050 kg	

\*Measured at a distance of 3 ft / 1 m

\*\*At 90 psi / 6 bar to atmosphere