

FLOW CONTROL VALVE

Series GR

Cat No GR - 01 - 02 - A

FLOW CONTROL VALVE - M5, 1/8, 1/4, 3/8, 1/2

Features

- Directly mountable on cylinder / valve ports
- Fine regulation of air flow
- Male threads (G) with sealing washer
- Elegant design and finish
- Slotted head screw adjusting type



Function

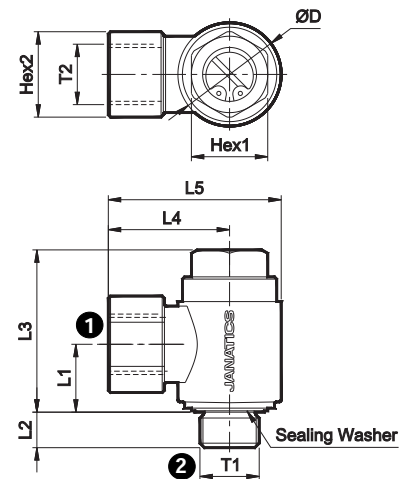
These valves allow controlled flow of air in one direction and free flow in the other direction. These are available in two versions - a) Supply control version, and b) Exhaust control version.

Application

These valves are used to control the speed of piston in a pneumatic cylinder.

Technical Specifications

Type	Supply control					Exhaust control				
Model	GR1					GR5				
Free flow	2 → 1					1 → 2				
Controlled flow	1 → 2					2 → 1				
Sizes	M5	G1/8	G1/4	G3/8	G1/2					
No. of needle rotations	9	9	9	9	8					
Tightening torque in Nm	1.5	5.5	11	20	30					
Medium	Compressed air - Dry / Lubricated									
Operating pressure range	0.5 - 10 bar									
Ambient Temperature	5° - 60° C									
Materials of construction	Zinc, Brass, Nitrile, Aluminium, Steel									



Sl. No	Ordering No.	Thread		Hex1	Hex2	L1	L2	L3	L4	L5	ØD	Free Flow min. [#] Lts/min [@]	Controlled Flow max. [#] Lts/min
		T1	T2										
1	GR1137070	M5	M5	8	9	9	3.7	23	12	18	12	80	0 to 100
2	GR5137070												
3	GR1136060	G1/8	G1/8	13	15	12	5.5	32	19.5	28.5	17.5	300	0 to 400
4	GR5136060												
5	GR1136161	G1/4	G1/4	17	19	15	8	36.5	27	38.5	23	650	0 to 750
6	GR5136161												
7	GR1136262	G3/8	G3/8	21	24	19	9	40.5	29.5	43.5	28	1000	0 to 1500
8	GR5136262												
9	GR1136363	G1/2	G1/2	24	30	24	13	50.3	37	54	34	2250	0 to 2750
10	GR5136363												

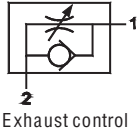
@ - Needle fully closed condition.

- Inlet pressure 6 bar, and pressure drop 1 bar.

How to Order

While ordering Flow control valve, mention the ordering number given in the corresponding tables.

Subject to change



FLOW CONTROL VALVE

Series GR

Cat No GR - 01 - 03 - A

FLOW CONTROL VALVE - 3/4

Features

- ❑ Directly mountable on the cylinder
- ❑ Fine regulation of air flow
- ❑ Male threads (G) with sealing washer
- ❑ Elegant design and finish
- ❑ Slotted head screw adjusting type



Function

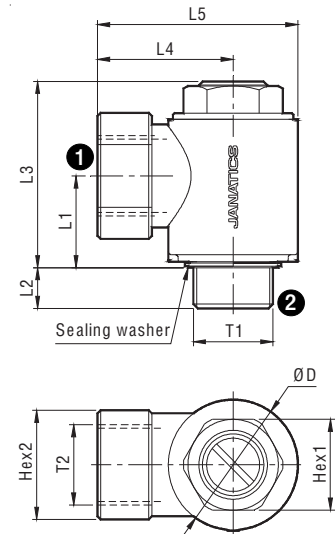
These valves allow controlled flow of air in one direction and free flow in the other direction.

Application

These valves are used to control the speed of the piston in a pneumatic cylinder.

Technical Specifications

Type	Exhaust control
Ordering No.	GR5136464
Free flow	1 → 2
Controlled flow	2 → 1
Sizes	G3/4
No. of needle rotations	13
Tightening torque in Nm	45
Medium	Compressed air - Dry / Lubricated
Operating pressure range	0.5 - 10 bar
Ambient Temperature	5° - 60° C
Materials of construction	Brass, Nitrile, Aluminium



Thread		Hex1	Hex2	L1	L2	L3	L4	L5	ØD	Free Flow min. # Lts/min [@]	Controlled Flow max. # Lts/min
T1	T2										
G3/4	G3/4	30	36	30.3	13.5	61.5	45	66.5	43	4000	0 to 5000

@ - Needle fully closed condition.

- Inlet pressure 6 bar, and pressure drop 1 bar.