

Exhaust air flow control valves

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Exhaust air flow control valves

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Product range overview and type codes

Version	Valve function	Version	Type	Connection direction	Pneumatic connection 1	qnN ¹⁾ [l/min]	Adjustment component	→ Page/ Internet
Exhaust air flow control valve	Metal							
	Flow control/silencer function		GRE	Inline	G1/8, G1/4, G3/8, G1/2	520 ... 3,600	Slotted head screw	3
Flow control/silencer	Polymer							
	Flow control/silencer function		GRU	Inline	G1/8, G1/4, G3/8, G1/2, G3/4	1,000 ... 8,000	Slotted head screw	5

1) Standard nominal flow rate in direction of flow control.

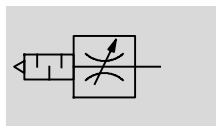
Type codes	
GRU – 1/4 – B	
Type	
GRE	Exhaust air flow control valve
GRU	Flow control/silencer
Pneumatic connection 1	
1/8	Thread G1/8
1/4	Thread G1/4
3/8	Thread G3/8
1/2	Thread G1/2
3/4	Thread G3/4
Generation	
B	B series

Exhaust air flow control valves GRE

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Technical data

Function



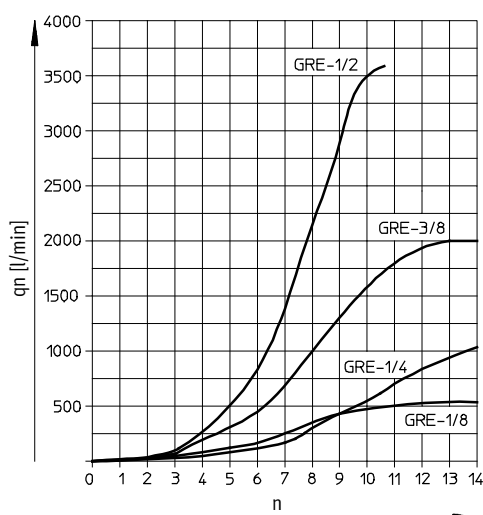
-  Flow rate
520 ... 3,600 l/min
-  Temperature range
-10 ... +70 °C
-  Operating pressure
0 ... 10 bar



General technical data				
Valve function	Flow control/silencer function			
Pneumatic connection 1	G1/8	G1/4	G3/8	G1/2
Adjustment component	Slotted head screw			
Type of mounting	Screw-in			
Mounting position	Any			
Max. tightening torque [Nm]	–	–	15	–

Operating and environmental conditions				
Pneumatic connection 1	G1/8	G1/4	G3/8	G1/2
Operating pressure [bar]	0 ... 10			
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:-:-]	Compressed air in accordance with ISO 8573-1:2010 [7:-:-]	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]	Compressed air in accordance with ISO 8573-1:2010 [7:-:-]
Note on operating/pilot medium	Operation with lubricated medium possible (in which case lubricated operation will always be required)			
Ambient temperature [°C]	-10 ... +70			
Temperature of medium [°C]	-10 ... +70			

Standard nominal flow rate q_{nN} at 6 bar → 5 bar as a function of spindle rotations n



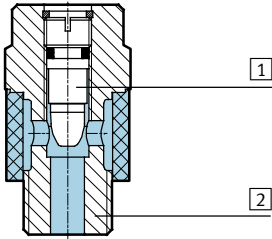
Exhaust air flow control valves GRE

Technical data

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Materials

Sectional view

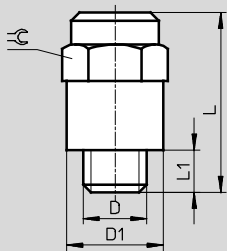


Exhaust air flow control valve

1	Adjusting screw	Brass
2	Threaded plug	Wrought aluminium alloy
–	Seals	NBR
Note on materials		
GRE-3/8		RoHS-compliant

Dimensions

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Type	Connection D	D1 Ø	L	L1	≡
GRE-1/8	G1/8	15	28.5	6.5	14
GRE-1/4	G1/4	18.2	34	8	17
GRE-3/8	G3/8	25	42	8	22
GRE-1/2	G1/2	27	48	12	24

Ordering data

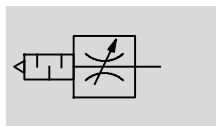
	Pneumatic connection 1	Standard nominal flow rate qnN at 6 bar → 5 bar in direction of flow control [l/min]	Standard flow rate qn at 6 bar → 0 bar in direction of flow control [l/min]	Weight [g]	Part No.	Type
	G1/8	520	0 ... 520	15	10351	GRE-1/8
	G1/4	996	0 ... 996	25	10352	GRE-1/4
	G3/8	2,000	3 ... 2,000	50	35310	GRE-3/8
	G1/2	3,600	0 ... 3,600	75	10353	GRE-1/2

Flow control/silencers GRU

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Technical data

Function



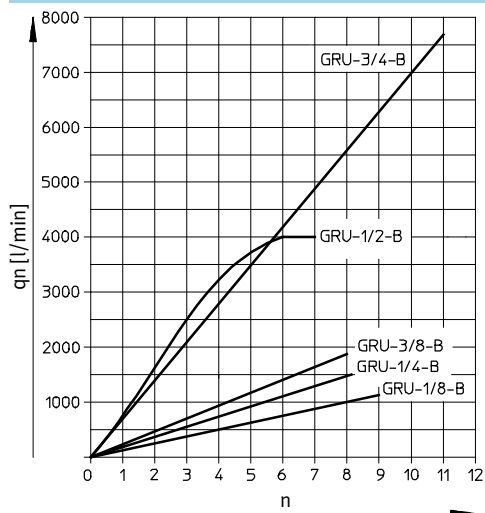
- - Flow rate
1,000 ... 8,000 l/min
- - Temperature range
-10 ... +70 °C
- - Operating pressure
0 ... 10 bar



General technical data					
Valve function	Flow control/silencer function				
Pneumatic connection 1	G $\frac{1}{8}$	G $\frac{1}{4}$	G $\frac{3}{8}$	G $\frac{1}{2}$	G $\frac{3}{4}$
Adjustment component	Slotted head screw				
Type of mounting	Screw-in				
Mounting position	Any				

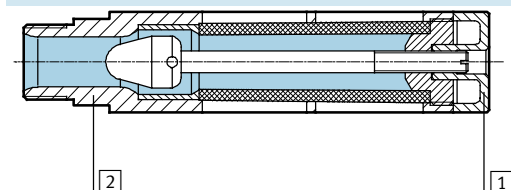
Operating and environmental conditions	
Operating pressure [bar]	0 ... 10
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:-:-]
Note on operating/pilot medium	Operation with lubricated medium possible (in which case lubricated operation will always be required)
Ambient temperature [°C]	-10 ... +70
Temperature of medium [°C]	-10 ... +70

Standard nominal flow rate q_{nN} at 6 bar $\rightarrow$ 5 bar as a function of spindle rotations n



Materials

Sectional view



Flow control/silencer		
1	Adjusting screw	PA
2	Threaded plug	Die-cast aluminium

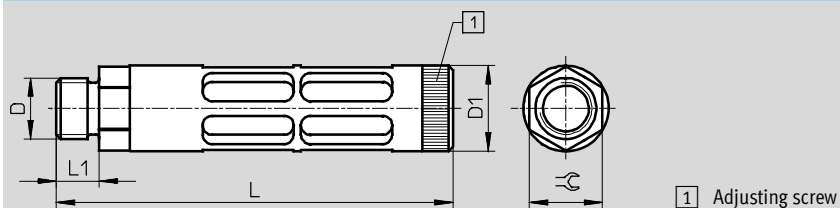
Flow control/silencers GRU

Technical data

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Dimensions

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Type	Connection D	D1 Ø	L	L1	⌀
GRU-1/8	G1/8	16	46	5.4	14
GRU-1/4	G1/4	19.5	63.3	6.4	17
GRU-3/8	G3/8	25	95.3	7.5	19
GRU-1/2	G1/2	28	130	14	24
GRU-3/4	G3/4	38	157	16	32

Ordering data

	Pneumatic con- nection 1	Standard nominal flow rate qnN at 6 bar → 5 bar in direction of flow control [l/min]	Standard flow rate qn at 6 bar → 0 bar in direction of flow control [l/min]	Weight [g]	Part No.	Type
	G1/8	1,000	0 ... 1,000	10	9516	GRU-1/8-B
	G1/4	1,500	0 ... 1,500	25	9517	GRU-1/4-B
	G3/8	1,700	0 ... 1,700	55	9518	GRU-3/8-B
	G1/2	4,000	0 ... 4,000	100	9519	GRU-1/2-B
	G3/4	8,000	0 ... 8,000	170	9520	GRU-3/4-B