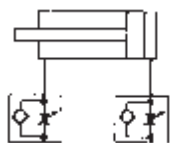


One-way control valves

Function of flow control and one-way control valves

Exhaust air can be controlled (One-way control)



Standard (exhaust air)

Exhaust air can be controlled - free of supply air (throttled from hose to male thread)

Recommended use:

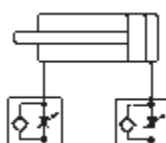
For cylinder from Ø 16 mm

Advantages:

- Good operating options without jumping
- Smooth operation
- Forward and return strokes possible at different speeds

Item: GRLAIQSM ...
GRLAIQS ...
GRAIQS ...
GRL ...

Supply air can be controlled (On-way control)



Special version (supply air)

Supply air can be controlled - free of supply air (throttled from hose to male thread)

Recommended use:

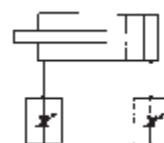
For smaller Ø and short strokes (small volumes)

Advantages:

- Even small air volumes can be controlled
- Forward and return strokes possible at different speeds

Item: GRLBIQS ...
GRLA ...

Supply and exhaust air can be controlled (flow control valve)



Special version (flow control valve)

Supply and exhaust air can be controlled

Recommended use:

For small and single-acting cylinder

Advantages:

- Inlet and return flow same speeds

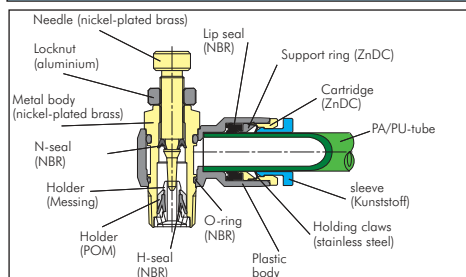
Disadvantages:

- Only used rarely without "jumping"

Item: GRLD ...

IQS one-way control valves

Standard/Mini



Functional principle: One-way control valves choke the flow in one direction, while the flow remains unrestricted in the other direction. The standard construction of the one-way control valves is "exhaust air flow controlling". If they are screwed into a cylinder, for example, then they provide for an even flow without causing a slip-stick effect. In the case of cylinders with small volumes (a small diameter/low stroke rate), one-way control valves are utilised with the special "supply air flow controlling" construction.

Media: Compressed air, neutral gases

One-way control valves, cylindrical threads

Standard

Materials: Body: Brass nickel-plated/PA 66, sleeve: PA 66, seal: NBR, holding claws: Stainless steel, cartridge: ZnDC zinc-plated (only silicone-free seals and lubricants are used during assembly)

Temperature range: -20°C to max. +80°C

Operating pressure: -0.95 to 20 bar

- Advantages:
- Compact design
 - Can be easily adjusted without tools

Type exhaust air flow controlling	Type supply air flow controlling	G	D	Type exhaust air flow controlling	Type supply air flow controlling	G	D
GRLAIQS M54	GRLBIQS M54	M 5	4	GRLAIQS 1410 G	GRLBIQS 1410 G	G 1/4"	10
GRLAIQS M56	GRLBIQS M56	M 5	6	GRLAIQS 386 G	GRLBIQS 386 G	G 3/8"	6
GRLAIQS 184 G	GRLBIQS 184 G	G 1/8"	4	GRLAIQS 388 G	GRLBIQS 388 G	G 3/8"	8
GRLAIQS 186 G	GRLBIQS 186 G	G 1/8"	6	GRLAIQS 3810 G	GRLBIQS 3810 G	G 3/8"	10
GRLAIQS 188 G	GRLBIQS 188 G	G 1/8"	8	GRLAIQS 3812 G	GRLBIQS 3812 G	G 3/8"	12
GRLAIQS 144 G	GRLBIQS 144 G	G 1/4"	4	GRLAIQS 128 G	GRLBIQS 128 G	G 1/2"	8
GRLAIQS 146 G	GRLBIQS 146 G	G 1/4"	6	GRLAIQS 1210 G	GRLBIQS 1210 G	G 1/2"	10
GRLAIQS 148 G	GRLBIQS 148 G	G 1/4"	8	GRLAIQS 1212 G	GRLBIQS 1212 G	G 1/2"	12

One-way control valves with slotted screws

Standard

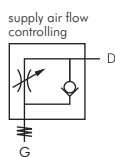
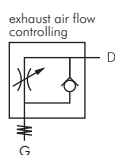
Materials: Body: Brass nickel-plated/PA 66, sleeve: PA 66, seal: NBR, holding claws: Stainless steel, cartridge: ZnDC zinc-plated (only silicone-free seals and lubricants are used during assembly)

Temperature range: -20°C to max. +80°C

Operating pressure: -0.95 to 20 bar

- Advantages:
- Compact design
 - Can be easily adjusted without tools

Type exhaust air flow controlling	G	D	Type exhaust air flow controlling	G	D	Type exhaust air flow controlling	G	D
GRLAIQS M54 S	M 5	4	GRLAIQS 146 G S	G 1/4"	6	GRLAIQS 3812 G S	G 3/8"	12
GRLAIQS M56 S	M 5	6	GRLAIQS 148 G S	G 1/4"	8	GRLAIQS 128 G S	G 1/2"	8
GRLAIQS 184 G S	G 1/8"	4	GRLAIQS 1410 G S	G 1/4"	10	GRLAIQS 1210 G S	G 1/2"	10
GRLAIQS 186 G S	G 1/8"	6	GRLAIQS 386 G S	G 3/8"	6	GRLAIQS 1212 G S	G 1/2"	12
GRLAIQS 188 G S	G 1/8"	8	GRLAIQS 388 G S	G 3/8"	8			
GRLAIQS 144 G S	G 1/4"	4	GRLAIQS 3810 G S	G 3/8"	10			



Only with screwdriver adjustable

