# The complete range of flow control valves – all from a single source!

Festo flow control valves facilitate high precision adjustment of flow volumes and are used to precisely control the piston speed of a

Reliability is ensured – with the GRXA-HG-.. thanks to speed regulation and the additional function for intermediate stops. When the pneumatic control signal decays, the valve shuts off the exhaust air of the drive and thereby prevents any unwanted piston rod move-

#### Throttle functions and possible applications

Double-acting cylinder with oneway flow control valve

Exhaust air flow control
For adjustable speed via exhaust air flow control. The piston moves between air cushions created through freely flowing supply air and restricted exhaust air. The benefit is improved operating behaviour, even in the event of

load changes.

# Supply air flow control For adjustable speed via supply air flow control. The piston is moved via an air cushion at one end, created by freely flowing exhaust air and restricted supply air. In con-

ated by freely flowing exhaust air and restricted supply air. In contrast with exhaust air restriction, there is a tendency towards a stick-slip effect.

#### Single-acting cylinder with oneway flow control valve

**Supply air flow control**For adjustable speed in the advan-

#### ce stroke. The piston moves via an air cushion at one end, created by freely flowing exhaust air and

freely flowing exhaust air and restricted supply air.

#### Single-acting cylinder with flow control valve

Flow control acting on both sides
The adjustment of speed by means
of flow control at both ends is often
used with single-acting or small

#### Quick navigation

In the first column, select the characteristic(s) relevant to your requirements. Wherever a black square is shown, you will find products with the relevant characteric(s).

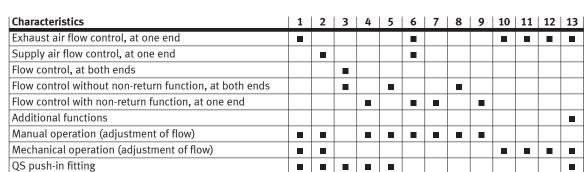
## Example:

You are looking for a flow control valve with male thread (see last line). A square is shown in column 10. You now move into the field marked 10 in the poster and select your product (e.g. GRU-..).

Female thread connection

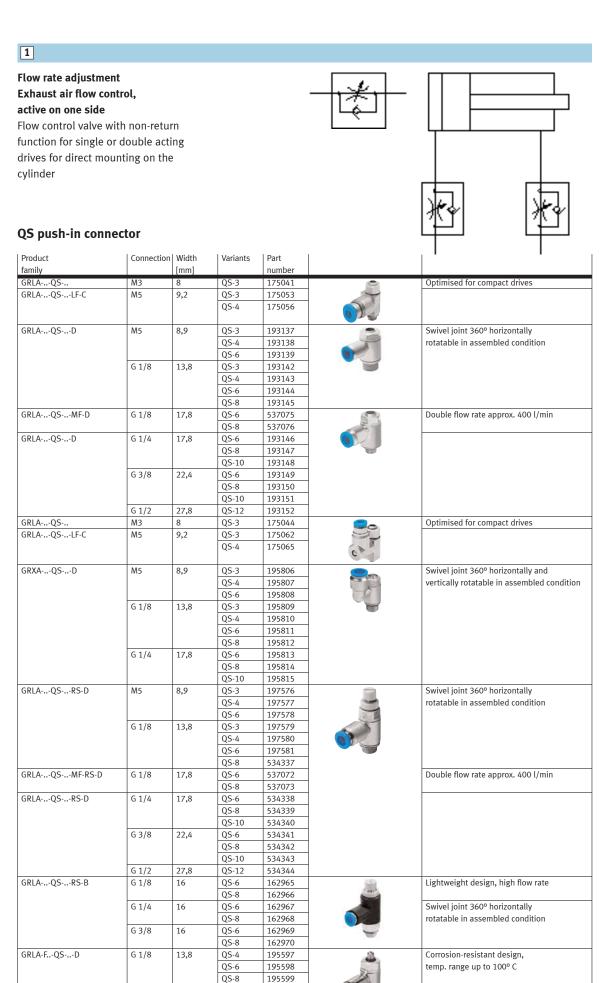
Barbed fitting connection

Male thread connection





Precision adjustment and control – with flow control valves from Festo





G 1/4

17,8

Product family	Connection	Width [mm]	Variants	Part number		
GRLAB	M3	5	M3	175038	(8)	Compact and robust design
GRLALF-C	M5	8	M5	175047		
GRLAB	M5	10	M5	151160		
	G 1/8	16	G1/8	151165		
	G 1/4	20	G1/4	151172		
	G 3/8	25	G3/8	151178		
	G 1/2	32	G1/2	151179		
	G 3/4	41	G 3/4	151180		
GRLARS-B	M5	10	M5	151163	9	Compact and robust design
	G 1/8	16	G1/8	151169		
	G 1/4	20	G1/4	151175		
CRGRLAB	M5	10	M5	161403		Excellent corrosion resistance
	G 1/8	16	G1/8	161404		Design for the food processing industry
	G 1/4	20	G1/4	161405		
	G 3/8	25	G3/8	161406		
	G 1/2	32	G1/2	161407		

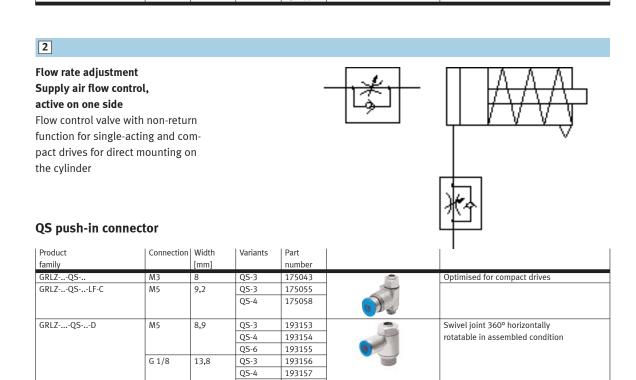
Swivel joint 360° horizontally

Optimised for compact drives

QS-6 195600 QS-8 195601

# Barbed fitting connection

Product	Connection	Width	Variants	Part		
family		[mm]		number		
GRLAPKLF-C	M5	8	PK-3	175050	(3)	Compact and robust design
GRLAPKB	M5	10	PK-3	151161	9	
			PK-4	151162		
	G 1/8	16	PK-3	151166		
			PK-4	151167		
			PK-6	151168		
	G 1/4	20	PK-4	151173		
			PK-6	151174		
GRLAPKB	M5	10	PK-3	151164	2	Compact and robust design
	G 1/8	1/8 16	PK-4	151170		
			PK-6	151171		
	G 1/4	1/4 20	PK-4	151176	95	
			PK-6	151177		



193158 193159

QS-3 175064

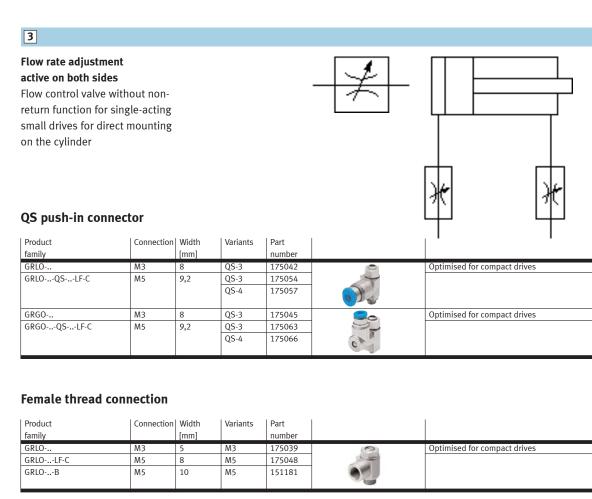
## Female thread connection

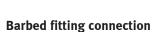
GRGZ-..-QS-..-LF-C

Product	Connection	Width	Variants	Part		
family		[mm]		number		
GRLZ	M3	5	M3	175040	(0)	Optimised for compact drives
GRLZLF-C	M5	8	M5	175049		
GRLZB	M5	10	M5	151183		Compact and robust design
	G 1/8	16	G1/8	151188		
	G 1/4	20	G1/4	151195		
GRLZRS-B	M5	10	M5	151186	9	Compact and robust design
	G 1/8	16	G1/8	151192		
	G 1/4	20	G1/4	151198		

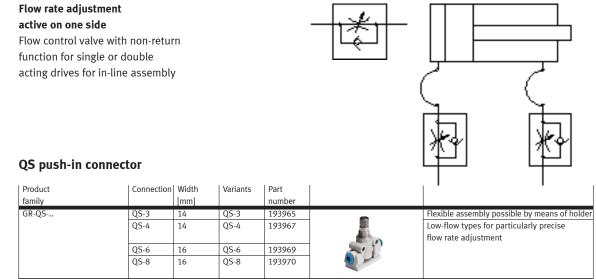
## Rarhad fitting connection

Product	Connection	Width	Variants	Part		
family		[mm]		number		
GRLZPKLF-C	M3	8	PK-3	175052	(9)	Optimised for compact drive
GRLZPKB	M5	10	PK-3	151184		Compact and robust design
			PK-4	151185	927	
	G 1/8	16	PK-3	151189		
			PK-4	151190		
			PK-6	151191		
	G 1/4	20	PK-3	151196		
			PK-4	151197		
GRGZPKLF-C	M5	8	PK-3	175061		Optimised for compact drive
GRLZPKRS-B	M5	10	PK-3	151187	4	Compact and robust design
	G 1/8	16	PK-4	151193		
			PK-6	151194		
	G 1/4	20	PK-4	151199	9	
			PK-6	151200		



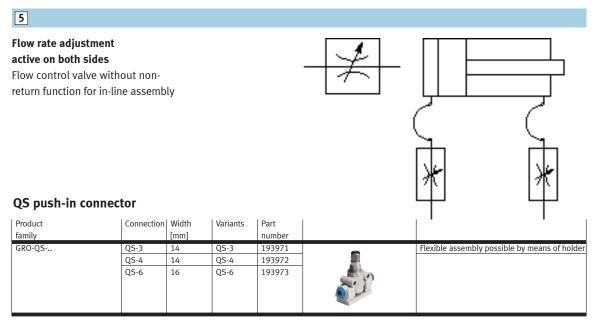


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Product	Connection	Width	Variants	Part		
family		[mm]		number		
GRLOPKLF-C	M5	8	PK-3	175051	9	Optimised for compact drives
GRLOPKB	M5	10	PK-3	151182	1	
GRGOLF-C	M5	8	PK-3	175060		Optimised for compact drives

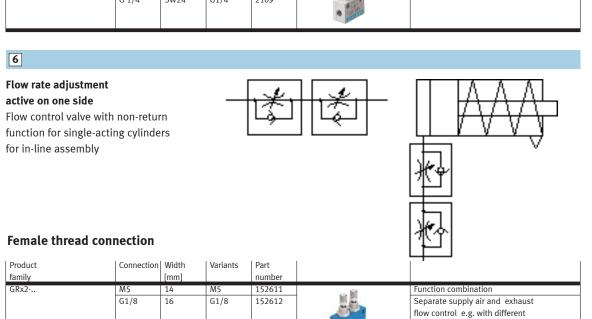


## Female thread connection

Product	Connection	Width	Variants	Part		
family		[mm]		number		
GRB	M3	6	M3	15899		Optimised for compact drive
	M5	14	M5	151213		
	G1/8	16	G1/8	151215		
iRAB	G1/4	26,5	G1/4	6509	- Care	
GRB	G3/8	33	G3/8	6308	The state of the s	
	G 1/2	42	G1/2	3720		
	G3/4	40	G3/4	2103		



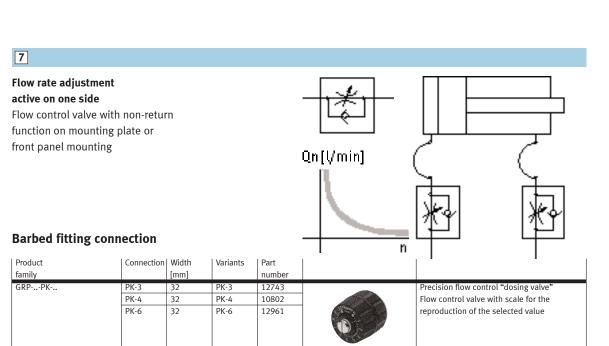
## Female thread connection

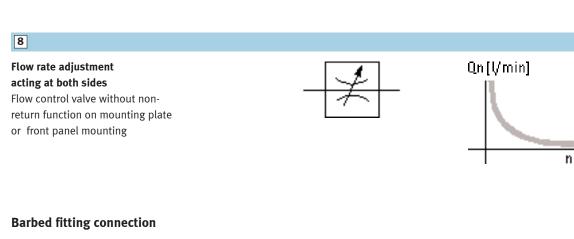


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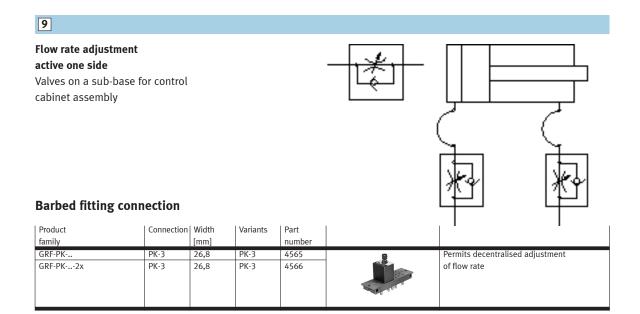
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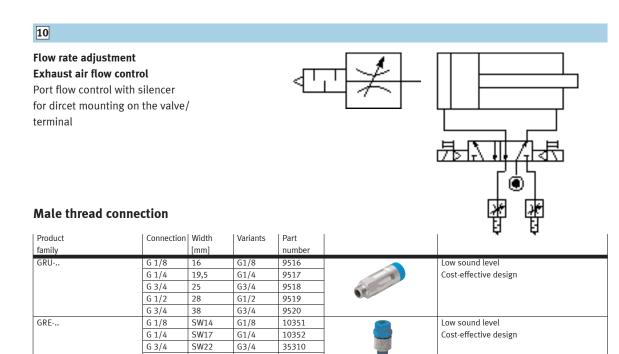
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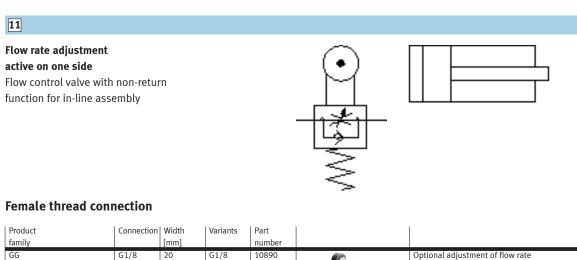


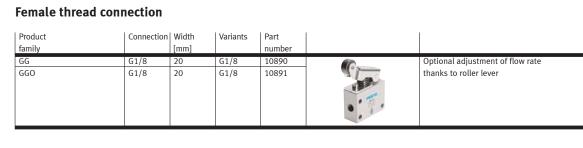


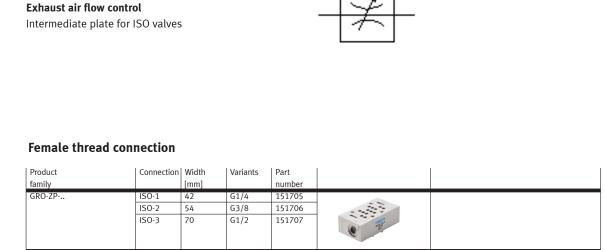
Product	Connection	Width	Variants	Part		
family		[mm]		number		
GRPO	PK-3	32	PK-3	13229		Precision flow control "dosing valve"
	PK-4	32	PK-4	10803		Flow control valve with scale for the
	PK-6	32	PK-6	13230		reproduction of the selected value











Flow rate adjustment

