Local regulations may restrict the use of this product to below the conditions quoted.
In the interests of development and improvement of the product, we reserve the right to change the specification without notice. © Copyright 2026

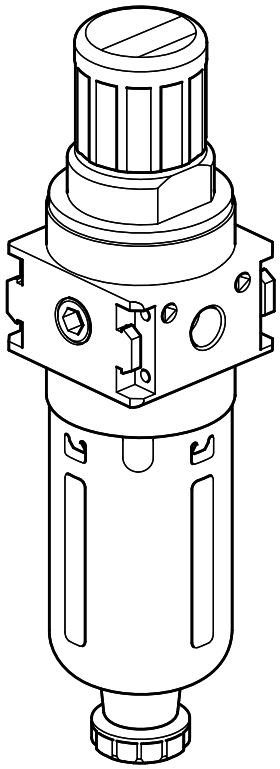
FR Series High Efficiency Compressed Air Filter Regulators

Description

The FR range of self-relieving filter regulators provides high-quality compressed air filtration with precise pressure control for pneumatic and general industrial applications. Designed for reliability and ease of installation, the FR range helps ensure a clean and stable air supply to downstream equipment.

Key features

- Series: FR
- Port connection: G ¼" BSPP
- Maximum flow rate: 1,450 l/min
- Installation orientation: Vertical
- Maximum inlet pressure (P1): 16 bar
- Outlet pressure range (P2): 0.5 to 10 bar
- Media: Compressed air and neutral gases
- Operating temperature: -10 °C to +60 °C
- Bowl material: Polycarbonate or metal
- Filter element: 5 µm
- Condensate drain: Semi-automatic
- Air inlet: Left-hand entry



Standard product range

FR-14-PC-SA-5	Filter Regulator, G¼", 0.5 to 10 bar, 5 µm element, polycarbonate bowl, semi-automatic drain
FR-14-M-SA-5	Filter Regulator, G¼", 0.5 to 10 bar, 5 µm element, metal bowl, semi-automatic drain

Optional configurations

Additional variants are available on request, including:

- Fully automatic drain versions with mechanical float operation
- Fine filtration options down to 0.01 µm using a modular pre-filter and final-stage fine filter arrangement
- Alternative port sizes and mounting options

Note: The standard semi-automatic drain performs the same function as many competitor products marketed as "automatic drains".

Applications

The FR range is suitable for applications requiring clean, regulated compressed air, including:

- Pneumatic positioners
- Air tools
- General machine air supplies
- Instrumentation and control systems

Within Spirax Sarco applications, the FR is primarily used to provide suitable air quality and pressure regulation for pneumatic positioners.

For use in hazardous or explosive atmospheres, a metal bowl version must be specified.

Connections

Standard connection sizes include:

- ¼" G (BSPP)
- ½" G (BSPP)

Additional connection options are available on request.

Spring range (operating pressure range)

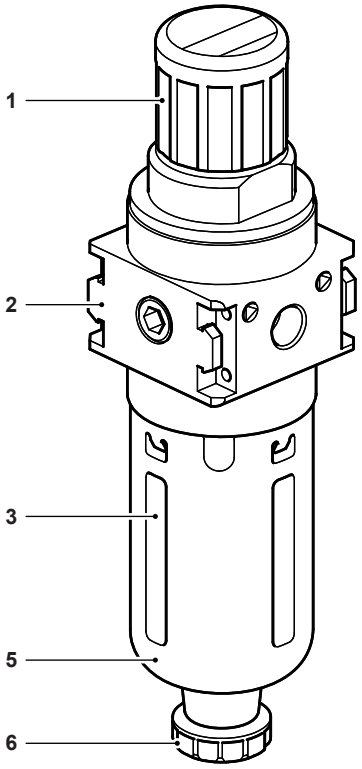
All regulators can be adjusted to zero pressure, or above the figures shown. The operating range is marked on the unit.

Standard spring	10 bar
Optional spring(s)	Upon request

Operating limits (Maximum pressure/temperature)

- Maximum inlet pressure (P1): 16 bar
- Outlet pressure range (P2): 0.5 to 10 bar
- Standard spring range: 10 bar
- Alternative spring ranges: Available on request
- Operating temperature: -10 °C to +60 °C

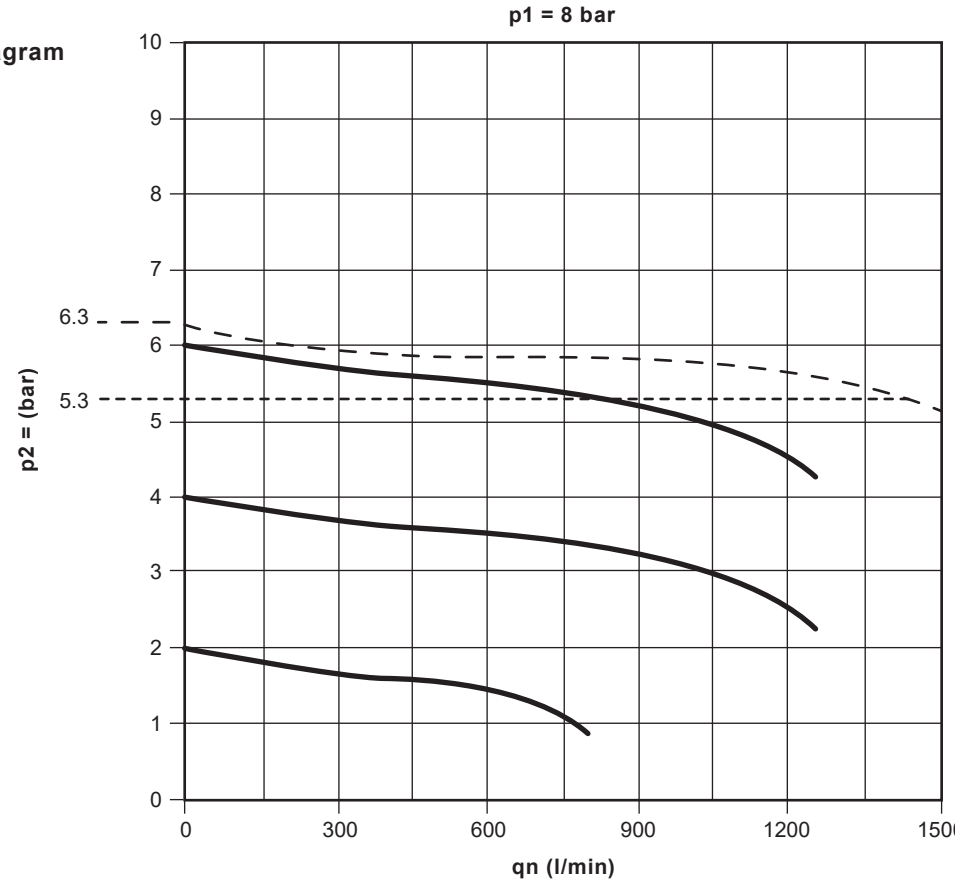
Materials



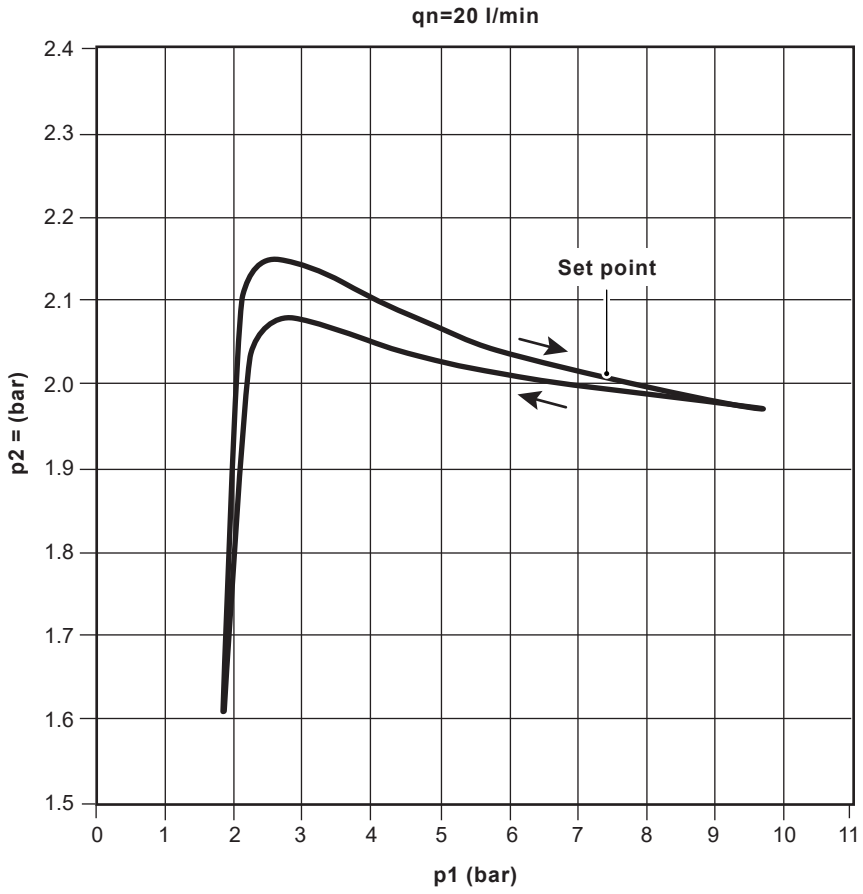
No.	Part	Material
1	Pressure regulating knob	Plastic
2	Body	Aluminium alloy
3	Bowl	Polycarbonate or metal
4	Filter element (not shown)	Sintered polymer
5	Bowl guard	Aluminium alloy
6	Drain	Plastic

Performance selection (with primary pressure 10 bar)

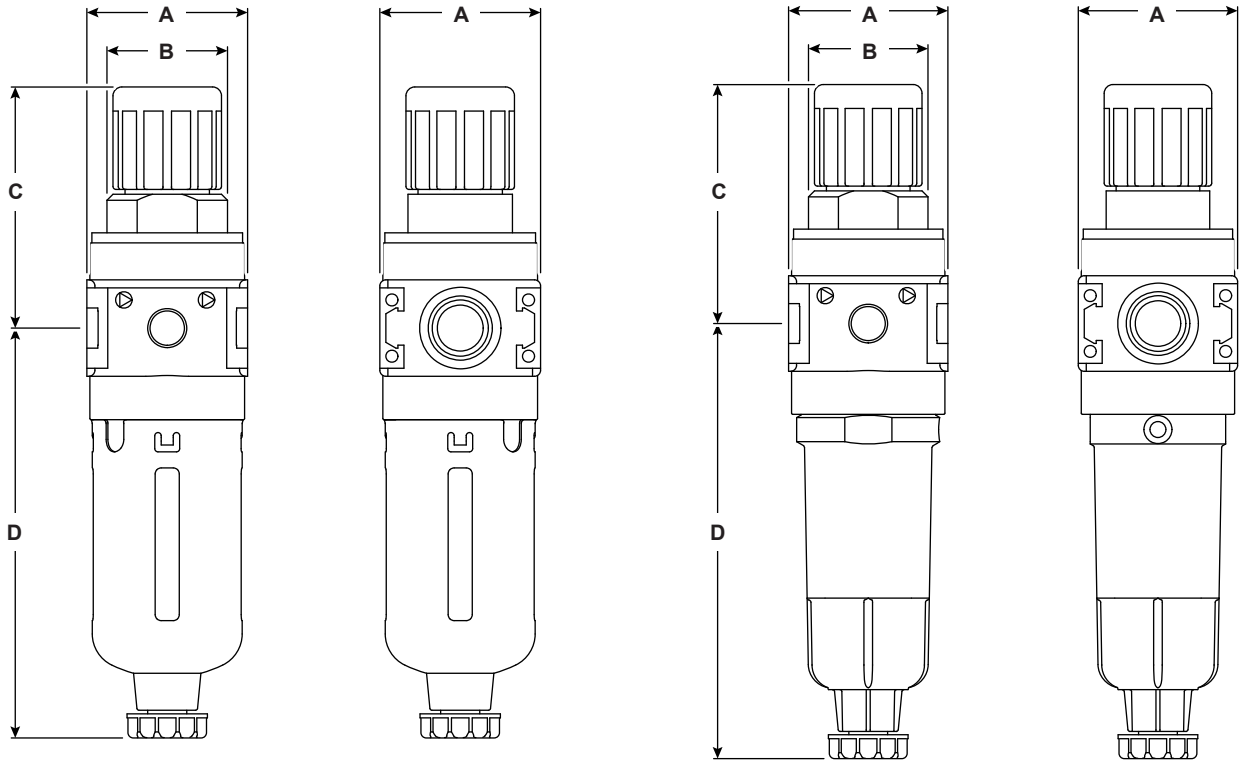
Flow diagram



Hysteresis



Dimensions (approximate) in mm



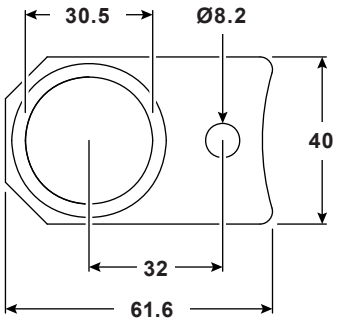
Polycarbonate bowl (with metal guard)

Metal bowl

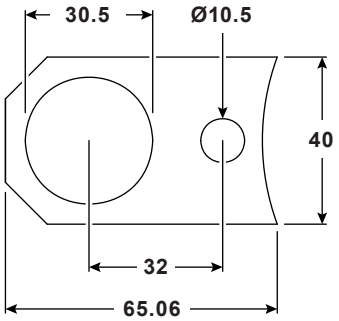
	A	B	C	D
Polycarbonate bowl (with metal guard)	40	M30 x 1.5	60	103
Metal bowl				102

Mounting accessories

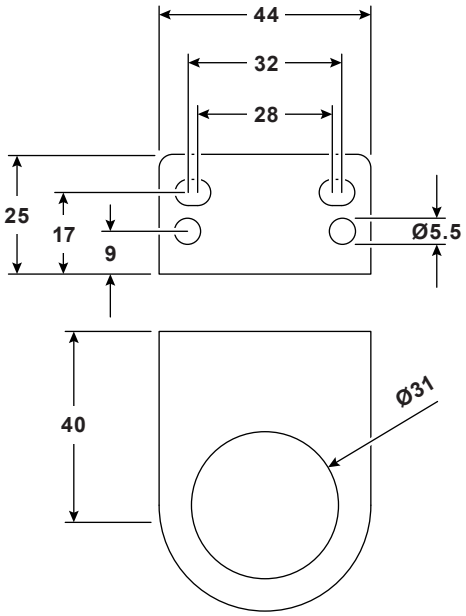
FK21 Fixing Kit
Required for mounting the FR or MPC_M regulator onto Spirax Sarco PN series pneumatic actuators.
The mounting ring and retaining nut required to secure the bracket are now included with the FR regulator.



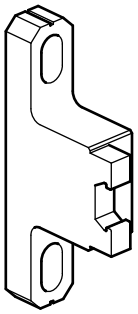
FK28 Fixing Kit
Required for mounting the FR or MPC_M regulator onto Spirax Sarco PN series pneumatic actuators.
The mounting ring and retaining nut are supplied with the FR range.



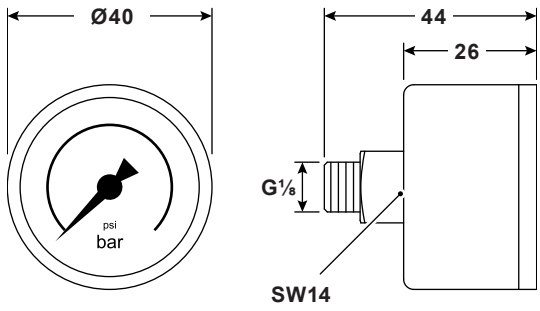
General Purpose Mounting Brackets
Standard mounting brackets are available for wall or panel installation and must be specified at the time of ordering.



Modular Type Bracket
A sliding wedge console option is also available for modular filter/regulator assemblies.



Optional pressure gauges



Performance

For any given inlet pressure, a maximum recommended airflow should be observed to maintain filtration efficiency and ensure effective removal of oil and water contaminants.

Installation and Maintenance

For full installation, operation and maintenance requirements, refer to the Installation and Maintenance Instructions supplied with the product.

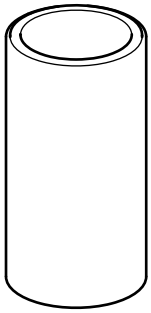
Configuration

FR	14	PC	SA	5
Type	**Thread**	**Bowl**	**Drain**	**Filtration**
Regulator = R	¼" G = 14	Polycarbonate bowl = PC	Automatic = A	0.01 µm = 01
Filter = F	½" G = 12	Metal bowl = M	Semi-auto = SA	5 µm = 5
Filter/regulator = FR				
Lubricator = L				

Spare parts

Filter element

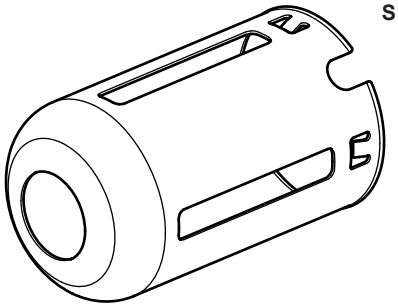
Description:	5 um Filter Element (Coarse filter)
Article number:	1000220279
Part Code:	FE-5



Bowl Guard/Spring Cage

Description:	Bowl Guard
Article number:	1000220057
Part Code:	FR-14-BG

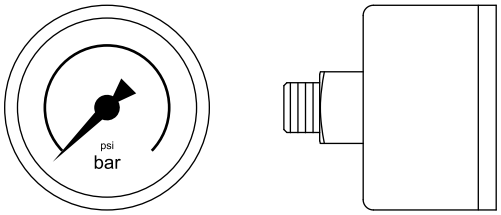
Spring gauge



Pressure Gauge (psi/bar)

Description:	G⅛" 40 mm Gauge Rear Entry (ATEX compliant)
Article number:	1000220378
Part Code:	G-40-10-R

Gauge



Repair kits

Description:	Metal bowl w/semi-auto drain and O-ring
Article number:	1000220281
Part Code:	FR-14-MBSA

Description:	Plastic bowl w/semi-auto drain and O-ring
Article number:	1000220282
Part Code:	FR-14-PCBSA

