

Service units FRC/FRCS, D series

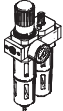
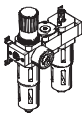
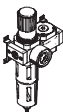
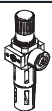
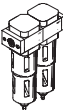
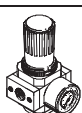
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Service units FRC/FRCS, D series, metal design

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Product range overview D series service units, metal design

Type		Size	Pneumatic connection										Pressure regulation range [bar]			Grade of filtration [µm]			
													0.5 ...			0.5 ...	2.5 ...	0.01	
			M5	M7	G1/8	G1/4	G3/8	G1/2	G3/4	G1	QS4	QS6	7	12	12	0.01	1	5	40
Service units																			
FRC/FRCS		Micro	■	■	■	–	–	–	–	–	■	■	■	–	–	–	–	■	–
		Mini	–	–	■	■	■	–	–	–	–	–	■	–	–	–	–	■	■
		Midi	–	–	–	■	■	■	■	–	–	–	■	–	–	–	–	■	■
		Maxi	–	–	–	–	–	■	■	■	–	–	–	■	–	–	–	■	■
Service unit combinations																			
FRC-K		Micro	–																
		Mini	–	–	■	■	–	–	–	–	–	–	–	■	■	–	–	–	■
		Midi	–	–	–	■	■	■	–	–	–	–	–	■	■	–	–	–	■
		Maxi	–	–	–	–	–	■	■	–	–	–	–	■	■	–	–	–	■
LFR-K LFRS-K		Micro	–																
		Mini	–	–	■	■	–	–	–	–	–	–	–	■	■	–	–	–	■
		Midi	–	–	–	■	■	■	–	–	–	–	–	■	■	–	–	–	■
		Maxi	–	–	–	–	–	■	■	–	–	–	–	■	■	–	–	–	■
Individual devices																			
Filter regulators LFR/LFRS		Micro	■	■	■	–	–	–	–	–	■	■	■	–	–	–	–	■	–
		Mini	–	–	■	■	■	–	–	–	–	–	■	■	–	–	–	■	■
		Midi	–	–	–	■	■	■	■	–	–	–	■	■	–	–	–	■	■
		Maxi	–	–	–	–	–	■	■	■	–	–	■	■	–	–	–	■	■
Filters LF		Micro	■	■	■	–	–	–	–	–	■	■	–	–	–	–	–	■	–
		Mini	–	–	■	■	■	–	–	–	–	–	–	–	–	–	–	■	■
		Midi	–	–	–	■	■	■	■	–	–	–	–	–	–	–	–	■	■
		Maxi	–	–	–	–	–	■	■	■	–	–	–	–	–	–	–	■	■
Fine and micro filters LFMA/LFMB		Micro	–																
		Mini	–	–	■	■	■	–	–	–	–	–	–	–	■	■	–	–	
		Midi	–	–	–	■	■	■	■	–	–	–	–	–	■	■	–	–	
		Maxi	–	–	–	–	–	■	■	■	–	–	–	–	■	■	–	–	
Active carbon filters LFX		Micro	–																
		Mini	–	–	■	■	■	–	–	–	–	–	–	–	–	–	–	–	
		Midi	–	–	–	■	■	■	■	–	–	–	–	–	–	–	–	–	
		Maxi	–	–	–	–	–	■	■	■	–	–	–	–	–	–	–	–	
Filter combinations LFMBA		Micro	–																
		Mini	–	–	■	■	■	–	–	–	–	–	–	–	■	■	–	–	
		Midi	–	–	–	■	■	■	■	–	–	–	–	–	■	■	–	–	
		Maxi	–	–	–	–	–	■	■	■	–	–	–	–	■	■	–	–	
Pressure regulators LR/LRS		Micro	■	■	■	–	–	–	–	–	■	■	■	–	–	–	–	–	
		Mini	–	–	■	■	■	–	–	–	–	–	■	■	–	–	–	–	
		Midi	–	–	–	■	■	■	■	–	–	–	■	■	–	–	–	–	
		Maxi	–	–	–	–	–	■	■	■	–	–	■	■	–	–	–	–	

Service units FRC/FRCS, D series, metal design

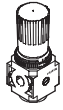
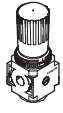
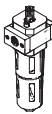
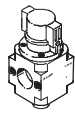
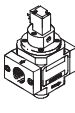
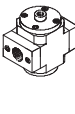
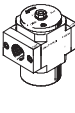
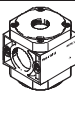
Product range overview D series service units, metal design

Type	Size	Bowl guard		Condensate drain			Pressure indication		Actuator lock		Supply voltage			Options			→ Page/ Internet
		Metal bowl guard	Plastic bowl	Manual rotary	Semi-automatic	Fully automatic	With pressure gauge	Without pressure gauge	Rotary knob with detent	Rotary knob with integrated lock	24 V DC	110 V AC	230 V AC	Directly actuated pressure regulator with integrated return flow function	Pilot actuated pressure regulator with integrated return flow function	Differential pressure indicator	
Service units																	
FRC/FRCS	Micro	–	■	■	■	–	■	■	■	–	–	–	–	–	–	–	6
	Mini	■	–	■	–	■	■	■	■	■	–	–	–	–	–	–	
	Midi	■	–	■	–	■	■	■	■	■	–	–	–	–	–	–	
	Maxi	■	–	■	–	■	■	■	■	■	–	–	–	■	■	–	
Service unit combinations																	
FRC-K	Micro	–															frc
	Mini	■	–	■	–	■	■	–	■	–	–	–	–	–	–	–	
	Midi	■	–	■	–	■	■	–	■	–	–	–	–	–	–	–	
	Maxi	■	–	■	–	■	■	–	■	–	–	–	–	■	■	–	
LFR-K LFRS-K	Micro	–															lfr
	Mini	■	–	■	–	■	■	–	■	■	■	–	–	–	–	–	
	Midi	■	–	■	–	■	■	–	■	■	■	–	–	–	–	–	
	Maxi	■	–	■	–	■	■	–	■	■	■	–	–	■	■	–	
Individual devices																	
Filter regulators LFR/LFRS	Micro	–	■	■	■	–	■	■	■	–	–	–	–	–	–	–	lfr
	Mini	■	–	■	–	■	■	■	■	■	–	–	–	–	–	–	
	Midi	■	–	■	–	■	■	■	■	■	–	–	–	–	–	–	
	Maxi	■	–	■	–	■	■	■	■	■	–	–	–	■	■	–	
Filters LF	Micro	–	■	■	■	–	–	–	–	–	–	–	–	–	–	–	lf
	Mini	■	–	■	–	■	–	–	–	–	–	–	–	–	–	–	
	Midi	■	–	■	–	■	–	–	–	–	–	–	–	–	–	–	
	Maxi	■	–	■	–	■	–	–	–	–	–	–	–	–	–	–	
Fine and micro filters LFMA/LFMB	Micro	–															lfma, lfmb
	Mini	■	–	■	–	■	–	–	–	–	–	–	–	–	–	■	
	Midi	■	–	■	–	■	–	–	–	–	–	–	–	–	–	■	
	Maxi	■	–	■	–	■	–	–	–	–	–	–	–	–	–	■	
Active carbon filters LFX	Micro	–															lfx
	Mini	■	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	Midi	■	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	Maxi	■	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
Filter combinations LFMBA	Micro	–															lfmba
	Mini	■	–	■	–	■	–	–	–	–	–	–	–	–	–	■	
	Midi	■	–	■	–	■	–	–	–	–	–	–	–	–	–	■	
	Maxi	■	–	■	–	■	–	–	–	–	–	–	–	–	–	■	
Pressure regulators LR/LRS	Micro	–	–	–	–	–	■	■	■	–	–	–	–	–	–	–	lr
	Mini	–	–	–	–	–	■	■	■	■	–	–	–	■	–	–	
	Midi	–	–	–	–	–	■	■	■	■	–	–	–	■	–	–	
	Maxi	–	–	–	–	–	■	■	■	■	–	–	–	■	■	–	

Service units FRC/FRCS, D series, metal design

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Product range overview D series service units, metal design

Type		Size	Pneumatic connection										Pressure regulation range [bar]	
			M5	M7	G1/8	G1/4	G3/8	G1/2	G3/4	G1	QS4	QS6	0.5 ... 7	0.5 ... 12
Individual devices														
Pressure regulators LRB/LRBS		Micro	–											
		Mini	–	–	–	■	–	–	–	–	–	–	■	■
		Midi	–	–	–	–	■	–	–	–	–	–	■	■
		Maxi	–											
Pressure regulator combinations LRB-K		Micro	–											
		Mini	–	–	–	■	■	–	–	–	–	–	■	■
		Midi	–	–	–	–	■	■	–	–	–	–	■	■
		Maxi	–											
Lubricators LOE		Micro	■	■	■	–	–	–	–	–	■	■	–	–
		Mini	–	–	■	■	■	–	–	–	–	–	–	–
		Midi	–	–	–	■	■	■	■	–	–	–	–	–
		Maxi	–	–	–	–	–	■	■	■	–	–	–	–
On-off valves HE		Micro	–											
		Mini	–	–	■	■	■	–	–	–	–	–	–	–
		Midi	–	–	–	■	■	■	■	–	–	–	–	–
		Maxi	–	–	–	–	–	■	■	■	–	–	–	–
On-off valves, electrical HEE		Micro	–											
		Mini	–	–	■	■	■	–	–	–	–	–	–	–
		Midi	–	–	–	■	■	■	■	–	–	–	–	–
		Maxi	–	–	–	–	–	■	■	■	–	–	–	–
On-off valves, pneumatic HEP		Micro	–											
		Mini	–	–	■	■	■	–	–	–	–	–	–	–
		Midi	–	–	–	■	■	■	■	–	–	–	–	–
		Maxi	–	–	–	–	–	■	■	■	–	–	–	–
Soft-start valves HEL		Micro	–											
		Mini	–	–	■	■	■	–	–	–	–	–	–	–
		Midi	–	–	–	■	■	■	■	–	–	–	–	–
		Maxi	–	–	–	–	–	■	■	■	–	–	–	–
Membrane air dryers LDM1		Micro	–											
		Mini	–											
		Midi	–											
		Maxi	–	–	–	–	–	■	■	■	–	–	–	–
Branching modules FRM		Micro	–											
		Mini	–	–	■	■	■	–	–	–	–	–	–	–
		Midi	–	–	–	■	■	■	■	–	–	–	–	–
		Maxi	–	–	–	–	–	■	■	■	–	–	–	–
Distributor block FRZ		Micro	–	–	–	–	–	–	–	–	–	–	–	–
		Mini	–	–	–	–	–	–	–	–	–	–	–	–
		Midi	–	–	–	–	–	–	–	–	–	–	–	–
		Maxi	–	–	–	–	–	–	–	–	–	–	–	–

Service units FRC/FRCS, D series, metal design

Product range overview D series service units, metal design

Type	Size	Bowl guard		Pressure indication		Actuator lock		Supply voltage			Options		→ Page/ Internet
		Metal bowl guard	Plastic bowl	With pressure gauge	Without pressure gauge	Rotary knob with detent	Rotary knob with integrated lock	24 V DC	110 V AC	230 V AC	Non-return function	Pressure switch	
Individual devices													
Pressure regulators LRB/LRBS	Micro	-											lrb
	Mini	-	-	-	■	■	■	-	-	-	-	-	
	Midi	-	-	-	■	■	■	-	-	-	-	-	
	Maxi	-											
Pressure regulator combinations LRB-K	Micro	-											lrb
	Mini	-	-	-	■	■	-	-	-	-	-	-	
	Midi	-	-	-	■	■	-	-	-	-	-	-	
	Maxi	-											
Lubricators LOE	Micro	-	■	-	■	-	-	-	-	-	-	-	loe
	Mini	■	-	-	■	-	-	-	-	-	-	-	
	Midi	■	-	-	■	-	-	-	-	-	-	-	
	Maxi	■	-	-	■	-	-	-	-	-	-	-	
On-off valves HE	Micro	-											he
	Mini	-	-	-	■	■	-	-	-	-	-	-	
	Midi	-	-	-	■	■	-	-	-	-	-	-	
	Maxi	-	-	-	■	■	-	-	-	-	-	-	
On-off valves, electrical HEE	Micro	-											hee
	Mini	-	-	-	■	-	-	■	■	■	-	-	
	Midi	-	-	-	■	-	-	■	■	■	-	-	
	Maxi	-	-	-	■	-	-	■	■	■	-	-	
On-off valves, pneumatic HEP	Micro	-											hep
	Mini	-	-	-	■	-	-	-	-	-	-	-	
	Midi	-	-	-	■	-	-	-	-	-	-	-	
	Maxi	-	-	-	■	-	-	-	-	-	-	-	
Soft-start valves HEL	Micro	-											hel
	Mini	-	-	-	■	-	-	-	-	-	-	-	
	Midi	-	-	-	■	-	-	-	-	-	-	-	
	Maxi	-	-	-	■	-	-	-	-	-	-	-	
Membrane air dryers LDM1	Micro	-											ldm1
	Mini	-											
	Midi	-											
	Maxi	■	-	-	■	-	-	-	-	-	-	-	
Branching modules FRM	Micro	-											frm
	Mini	-	-	-	■	-	-	-	-	-	■	■	
	Midi	-	-	-	■	-	-	-	-	-	■	■	
	Maxi	-	-	-	■	-	-	-	-	-	■	■	
Distributor block FRZ	Micro	-	-	-	■	-	-	-	-	-	-	-	frz
	Mini	-	-	-	■	-	-	-	-	-	-	-	
	Midi	-	-	-	■	-	-	-	-	-	-	-	
	Maxi	-	-	-	■	-	-	-	-	-	-	-	

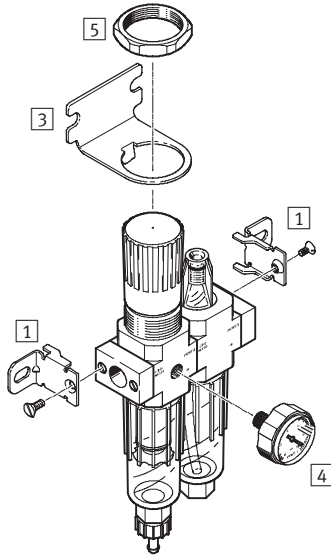
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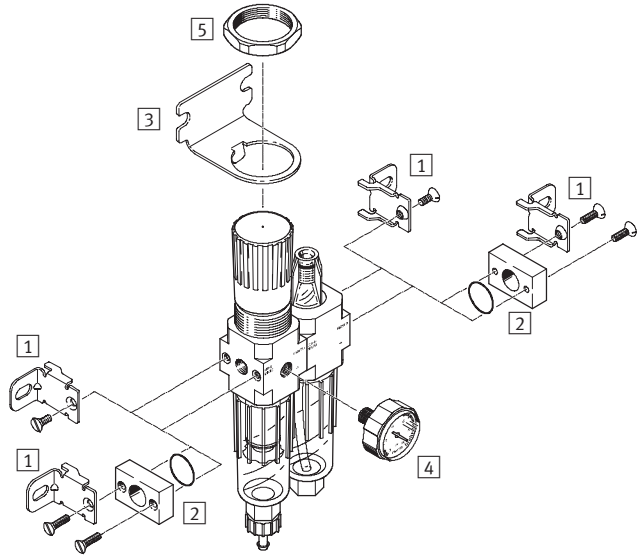
Peripherals overview

Micro

Service unit FRC with connection plates,
connection size G $\frac{1}{8}$, QS4 or QS6



Service unit FRC without connection plates,
connection size M5 or M7 in housing



Mounting attachments and accessories

	with connection plates	without connection plates	→ Page/ Internet
1 Mounting bracket HFOE	■	■	hfoe-d
2 Connecting plate kit PBL	–	■	pbl
3 Mounting bracket HRS	■	■	hrs-d
4 Pressure gauge MA-27	■	■	31
5 Hexagon nut (included in scope of delivery) HMR	■	■	–

Service units FRC/FRCS, D series, metal design

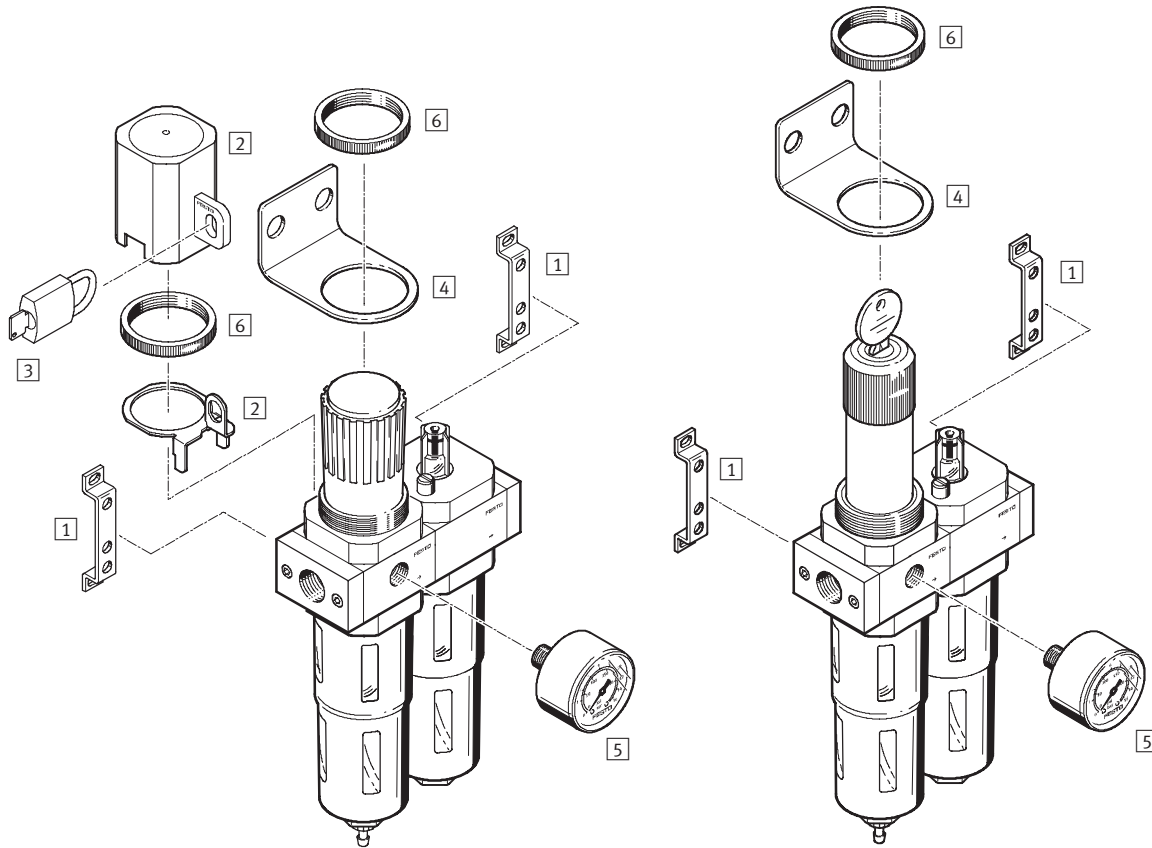
Peripherals overview

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Mini/Midi/Maxi

Service unit FRC

Service unit FRCS, lockable



Mounting attachments and accessories			
	Rotary knob with detent	Rotary knob, lockable	→ Page/ Internet
1 Mounting bracket HFOE	■	■	hfoe-d
2 Regulator lock LRVS	■	—	lrvs-d
3 Padlock LRVS-D	■	—	lrvs-d
4 Mounting bracket HR-D	■	■	hr-d
5 Pressure gauge MA	■	■	31
6 Knurled nut (included in scope of delivery) HMR	■	■	—

Service units FRC/FRCS, D series, metal design

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Type codes

	FRC	–	3/4	–	D	–		–	5M	–	O	–	DI	–	MAXI	–	A
--	-----	---	-----	---	---	---	--	---	----	---	---	---	----	---	------	---	---

Basic function	
FRC	Service unit
FRCS	Service unit, lockable

Pneumatic connection	
M5	Thread M5
M7	Thread M7
QS4	Push-in fitting QS4
QS6	Push-in fitting QS6
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
1	Thread G1

Series	
D	Series

Pressure regulation range	
	0.5 ... 12 bar
7	0.5 ... 7 bar

Grade of filtration	
	40 µm
5M	5 µm

Pressure gauge	
	With pressure gauge
O	Without pressure gauge

Function (FRC and MAXI size only)	
DI	Directly actuated pressure regulator with integrated return flow function

Size	
MICRO	Grid dimension 25 mm (without connecting plates)
MINI	Grid dimension 40 mm (without connecting plates)
MIDI	Grid dimension 55 mm (without connecting plates)
MAXI	Grid dimension 66 mm (without connecting plates)

Condensate drain	
	Turned manually
H	Semi-automatic
A	Fully automatic

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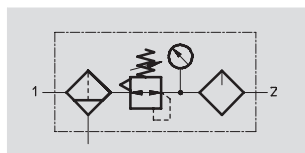
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Technical data

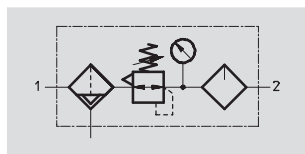
Function

FRC/FRCS-...-D-...

Condensate drain
turned manually

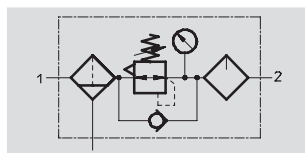


semi- or fully automatic

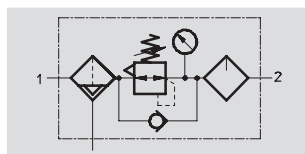


FRC-...-D-DI-MAXI

Condensate drain
turned manually



fully automatic



-  Flow rate
90 ... 8700 l/min
-  Temperature range
-10 ... +60 °C
-  Input pressure
1 ... 16 bar



- Filter, regulator and lubricator functions in a single unit
- High flow rate and highly efficient removal of contaminants
- Good regulating characteristics with minimal pressure hysteresis
- Setting values are secured by locking the rotary knob
- Lockable rotary knob
- Two pressure regulation ranges: 0.5 ... 7 bar and 0.5 ... 12 bar
- Two pressure gauge connections for different fitting options
- With manual, semi-automatic or fully automatic condensate drain
- Choice of filter cartridges: 5 µm or 40 µm
- New filter cartridges → 30

The following oils are recommended for Festo components:

Viscosity range to
ISO 3448 class VG 32
32 mm²/s (cSt) at 40 °C

- Festo special oil
→ 31
- ARAL Vitam GF 32
- BP Energol HLP 32
- Esso Nuto H 32
- Mobil DTE 24
- Shell Tellus Oil DO 32

General technical data																
Size		Micro				Mini			Midi				Maxi			
Pneumatic connection		M5	M7	G1/8	QS4	QS6	G1/8	G1/4	G3/8	G1/4	G3/8	G1/2	G3/4	G1/2	G3/4	G1
Operating medium		Compressed air				Compressed air										
Design		Filter regulator				Filter regulator										
		Proportional standard mist lubricator				Proportional standard mist lubricator										
Type of mounting		Via accessories				Via accessories										
		In-line installation				In-line installation										
Assembly position		Vertical ±5°				Vertical ±5°										
Grade of filtration	[µm]	5				5 or 40										
Max. hysteresis	[bar]	0.3				0.2								0.4		
Pressure regulation range	[bar]	0.5 ... 7				0.5 ... 7										
						0.5 ... 12										
Pressure indication		Via pressure gauge				Via pressure gauge										
		M5 prepared				G1/8 prepared			G1/4 prepared			G1/4 prepared				
Max. condensate volume	[cm³]	3				22			43			80 ¹⁾				
Input pressure		[bar]														
Condensate drain	turned manually	1 ... 10				1 ... 16										
	semi-automatic	1 ... 10				–										
	fully automatic	–				2 ... 12										

1) The max. condensate volume for the FRC-...-DI-MAXI is 43 cm³.

• Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Service units FRC/FRCS, D series, metal design

FESTO

Technical data

Standard nominal flow rate ¹⁾ qnN [l/min]					
Connection	Female thread		Connecting plate		
	M5	M7	G1/8	QS4	QS6
Micro					
FRC/FRCS	90	170	140	100	140

- 1) Measured at p₁ = 10 bar, p₂ = 6 bar and Δp = 1 bar.
A minimum flow rate of 125 l/min is required for flawless functioning.

Standard nominal flow rate ¹⁾ qnN [l/min]						
Connection	G1/8	G1/4	G3/8	G1/2	G3/4	G1
Mini						
FRC/FRCS-...-D-...(-A)	700	1000	1200	–	–	–
FRC/FRCS-...-D-7-...(-A)	800	1300	1500	–	–	–
FRC/FRCS-...-D-5M-...(-A)	600	850	1050	–	–	–
Midi						
FRC/FRCS-...-D-...(-A)	–	1500	2000	2600	2600	–
FRC/FRCS-...-D-7-...(-A)	–	1700	2000	2800	2800	–
FRC/FRCS-...-D-5M-...(-A)	–	1300	1700	1800	2100	–
Maxi						
FRC/FRCS-...-D-...(-A)	–	–	–	7600	8300	8500
FRC/FRCS-...-D-7-...(-A)	–	–	–	7700	8500	8700
FRC/FRCS-...-D-5M-...(-A)	–	–	–	6800	7000	7200
Maxi – Directly actuated pressure regulator with integrated return flow function						
FRC-...-D-...(-A)	–	–	–	3300	3800	4000
FRC-...-D-7-...(-A)	–	–	–	4500	5000	5200
FRC-...-D-5M-...(-A)	–	–	–	3000	3600	3800

- 1) Measured at p₁ = 10 bar, p₂ = 6 bar and Δp = 1 bar.
A minimum flow rate of 125 l/min is required for flawless functioning.

Screw-in depth of connecting thread [mm]					
Connection	M5	M7	G1/8	QS4	QS6
Micro					
In housing	5	6	–	–	–
In connecting plates	–	–	8	–	–

Ambient conditions				
Size	Micro	Mini	Midi	Maxi
Ambient temperature [°C]	–10 ... +60			
Temperature of medium [°C]	–10 ... +60			
Corrosion resistance class CRC ¹⁾	2			

- 1) Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Service units FRC/FRCS, D series, metal design

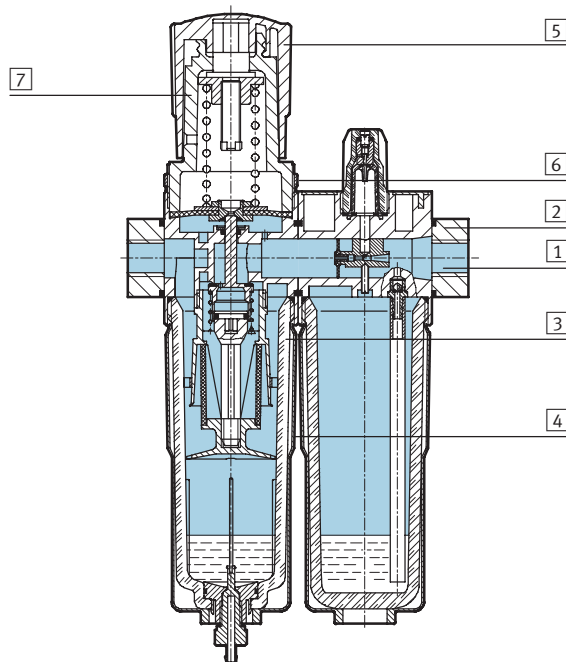
FESTO

Technical data

Weight [g]						
Size	Micro		Mini	Midi	Maxi	
	Female thread	Connecting plate			Connection G1½, G¾	Connection G1
With pressure gauge						
FRC-...	113	133	660	1440	2390	2520
FRC-...-DI	–	–	–	–	2670	2670
FRCS-...	–	–	760	1680	2490	2620
Without pressure gauge						
FRC-...	103	123	600	1350	2280	2460
FRC-...-DI	–	–	–	–	2600	2600
FRCS-...	–	–	700	1590	2380	2560

Materials

Sectional view



Service units	Micro	Mini/Midi/Maxi
1 Housing	Wrought aluminium alloy	Die-cast zinc
2 Connecting plates	Wrought aluminium alloy	Die-cast zinc/aluminium
3 Bowl	Polycarbonate	Polycarbonate
4 Metal bowl guard	–	Aluminium
5 Regulating knob	Polyacetal	Polyacetal
6 Knurled nut	Wrought aluminium alloy	Aluminium
7 Support	Polycarbonate	–
– Seals	Nitrile rubber	Nitrile rubber

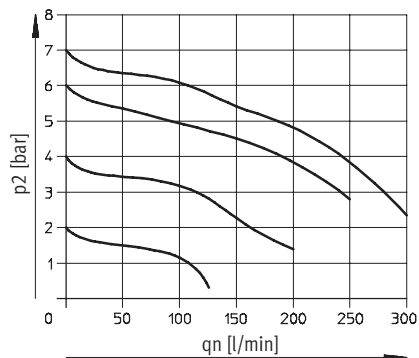
Service units FRC/FRCS, D series, metal design

Technical data

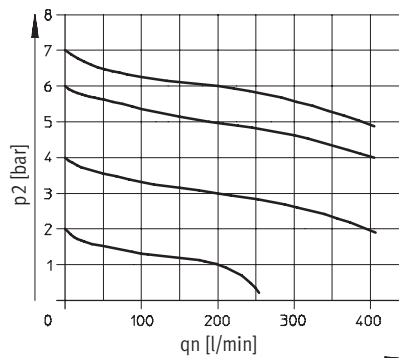
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Standard flow rate q_n as a function of the output pressure p_2

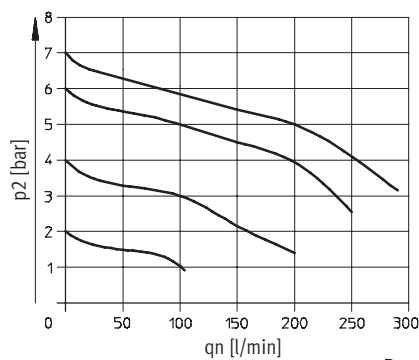
FRC-M5-...-MICRO



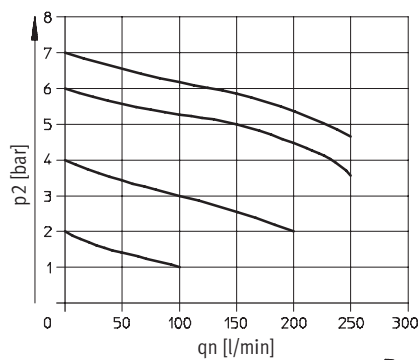
FRC-M7-...-MICRO B



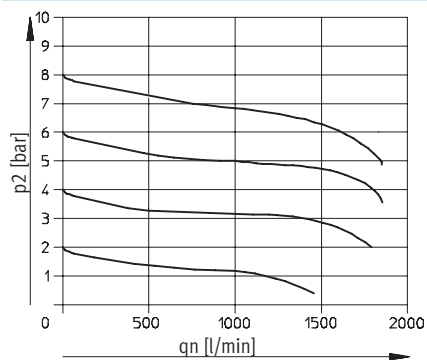
FRC-QS4-...-MICRO



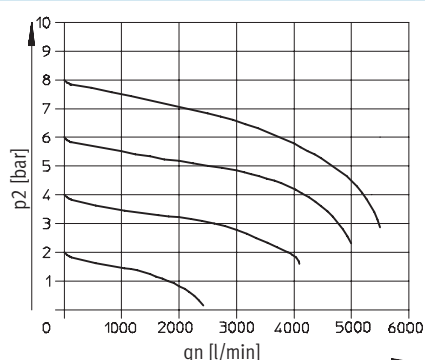
FRC-QS6-...-MICRO and FRC-1/8-...-MICRO



FRC/FRCS-1/4-D-MINI



FRC/FRCS-1/2-D-MIDI



Primary pressure $p_1 = 10$ bar

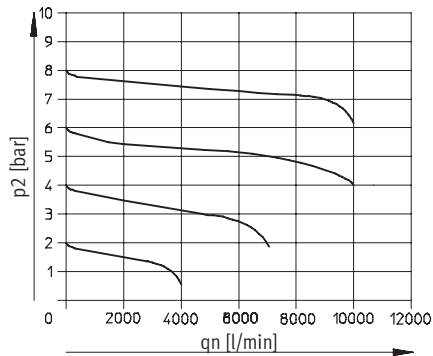
Service units FRC/FRCS, D series, metal design

Technical data

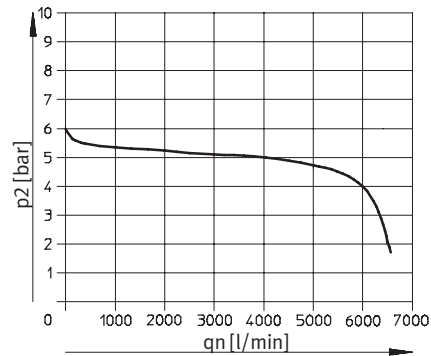
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Standard flow rate q_n as a function of the output pressure p_2

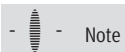
FRC/FRCS-1-D-MAXI



FRC-1-D-DI-MAXI



Primary pressure $p_1 = 10$ bar



Note

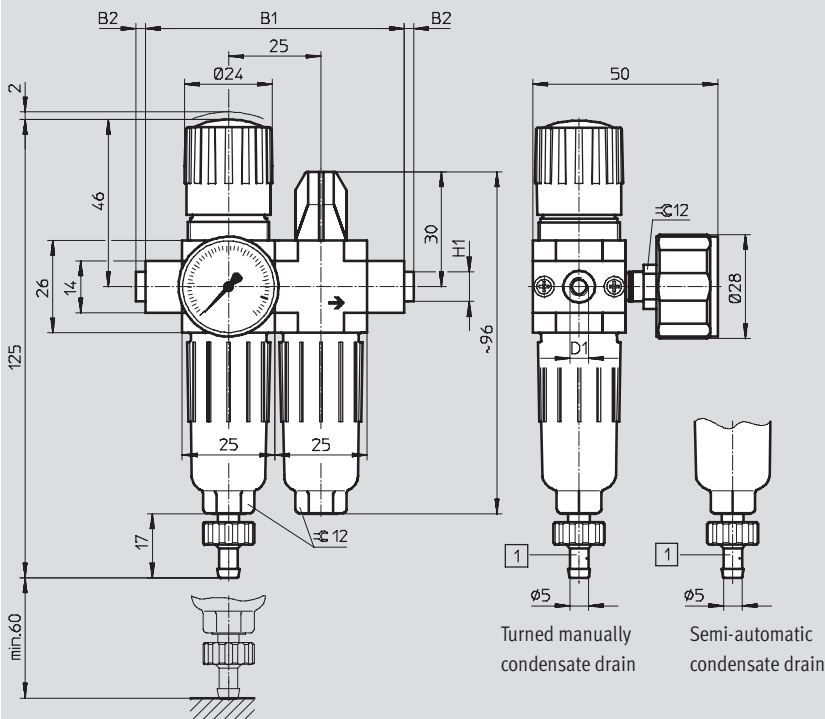
In order to improve control behaviour, primary-pressure dependent

internal air consumption is provided on the FRC/FRCS-...-MAXI.

Dimensions

Download CAD data → www.festo.com

Micro



1 Barbed fitting for plastic tubing type PCN-4

→ Flow direction

Type	B1	B2	D1	H1
FRC-M5-D-7-5M-MICRO (H)	50	-	M5	-
FRC-M7-D-7-5M-MICRO (H) B			M7	
FRC-1/8-D-7-5M-MICRO (H)			G1/8	
FRC-QS4-D-7-5M-MICRO (H)	70	~2.5	QS4	~8
FRC-QS6-D-7-5M-MICRO (H)			QS6	~10

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Service units FRC/FRCS, D series, metal design

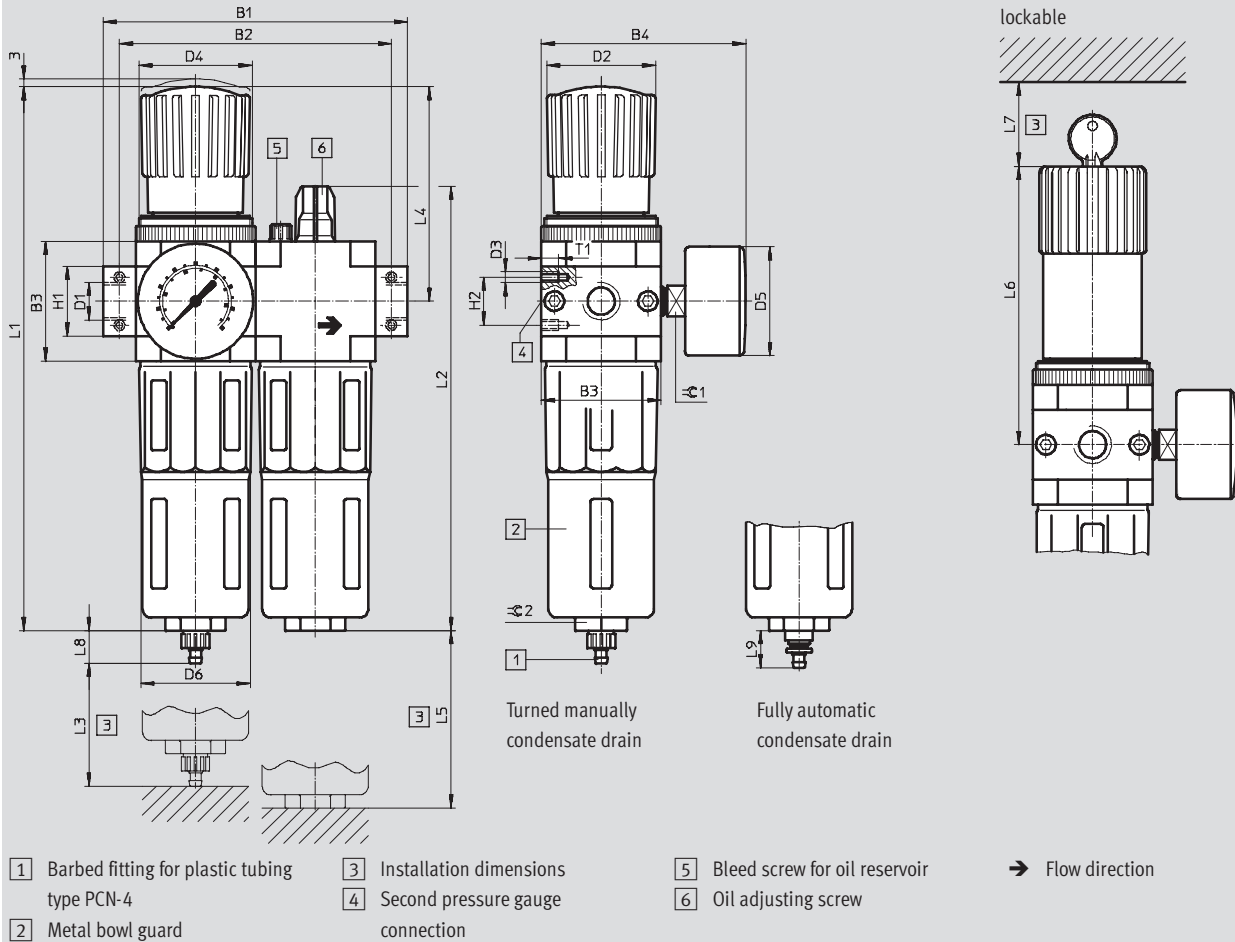
Technical data

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Dimensions

Download CAD data → www.festo.com

Mini/Midi/Maxi



Type	B1	B2	B3	B4	D1	D2 Ø	D3	D4	D5 Ø	D6 Ø
Mini										
FRC/FRCS-1⁄8-D-MINI	104	92	40	76	G1⁄8	31	M4	M36x1.5	41	38
FRC/FRCS-1⁄4-D-MINI					G1⁄4					
FRC/FRCS-3⁄8-D-MINI	110				G3⁄8					
Midi										
FRC/FRCS-1⁄4-D-MIDI	140	125	55	95	G1⁄4	50	M5	M52x1.5	50	52
FRC/FRCS-3⁄8-D-MIDI					G3⁄8					
FRC/FRCS-1⁄2-D-MIDI					G1⁄2					
FRC/FRCS-3⁄4-D-MIDI					G3⁄4					
Maxi										
FRC/FRCS-1⁄2-D-MAXI	162	146	66	107	G1⁄2	31	M5	M36x1.5	50	65
FRC-1⁄2-D-DI-MAXI						49		M52x1.5		
FRC/FRCS-3⁄4-D-MAXI					G3⁄4	31		M36x1.5		
FRC-3⁄4-D-DI-MAXI						49		M52x1.5		
FRC/FRCS-1-D-MAXI	182	157			G1	31		M36x1.5		
FRC-1-D-DI-MAXI						49		M52x1.5		

• Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Service units FRC/FRCS, D series, metal design

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Technical data

Type	H1	H2	L1	L2	L3	L4	L5	L6	L7	L8	L9	T1	≈C 1	≈C 2
Mini														
FRC/FRCS-1⁄8-D-MINI	20	11	193	169	60	69	100	98	60	15	19	7	14	22
FRC/FRCS-1⁄4-D-MINI														
FRC/FRCS-3⁄8-D-MINI														
Midi														
FRC/FRCS-1⁄4-D-MIDI	32	22	250	204	80	99	120	130	60	15	19	8	14	24
FRC/FRCS-3⁄8-D-MIDI														
FRC/FRCS-1⁄2-D-MIDI														
FRC/FRCS-3⁄4-D-MIDI														
Maxi														
FRC/FRCS-1⁄2-D-MAXI	32	22	252	228	90	82	150	111	60	15	19	8	14	24
FRC-1⁄2-D-DI-MAXI			275			105		135						
FRC/FRCS-3⁄4-D-MAXI			252			82		111						
FRC-3⁄4-D-DI-MAXI			275			105		135						
FRC/FRCS-1-D-MAXI	40		252			82		111						
FRC-1-D-DI-MAXI		275	105	135										

Service units FRC/FRCS, D series, metal design

Technical data

FESTO

Ordering data				
Pressure regulation range 0.5 ... 7 bar				
Condensate drain	Size	Connection	Grade of filtration 5 µm	
			Part No.	Type
With pressure gauge				
Turned manually	Micro	Without threaded connecting plates, connecting thread in housing		
		M5	527 860	FRC-M5-D-7-5M-MICRO
		M7	534 189	FRC-M7-D-7-5M-MICRO B
		With threaded connecting plates		
		G $\frac{1}{8}$	527 864	FRC- $\frac{1}{8}$ -D-7-5M-MICRO
		With connecting plate and push-in fitting		
		QS4	527 876	FRC-QS4-D-7-5M-MICRO
		QS6	527 880	FRC-QS6-D-7-5M-MICRO
Semi-automatic	Micro	Without threaded connecting plates, connecting thread in housing		
		M5	527 861	FRC-M5-D-7-5M-MICRO-H
		M7	534 190	FRC-M7-D-7-5M-MICRO-H B
		With threaded connecting plates		
		G $\frac{1}{8}$	527 865	FRC- $\frac{1}{8}$ -D-7-5M-MICRO-H
		With connecting plate and push-in fitting		
		QS4	527 877	FRC-QS4-D-7-5M-MICRO-H
		QS6	527 881	FRC-QS6-D-7-5M-MICRO-H
Without pressure gauge				
Turned manually	Micro	Without threaded connecting plates, connecting thread in housing		
		M5	527 862	FRC-M5-D-7-O-5M-MICRO
		M7	534 191	FRC-M7-D-7-O-5M-MICRO B
		With threaded connecting plates		
		G $\frac{1}{8}$	527 866	FRC- $\frac{1}{8}$ -D-7-O-5M-MICRO
		With connecting plate and push-in fitting		
		QS4	527 878	FRC-QS4-D-7-O-5M-MICRO
		QS6	527 882	FRC-QS6-D-7-O-5M-MICRO
Semi-automatic	Micro	Without threaded connecting plates, connecting thread in housing		
		M5	527 863	FRC-M5-D-7-O-5M-MICRO-H
		M7	534 192	FRC-M7-D-7-O-5M-MICRO-H B
		With threaded connecting plates		
		G $\frac{1}{8}$	527 867	FRC- $\frac{1}{8}$ -D-7-O-5M-MICRO-H
		With connecting plate and push-in fitting		
		QS4	527 879	FRC-QS4-D-7-O-5M-MICRO-H
		QS6	527 883	FRC-QS6-D-7-O-5M-MICRO-H

Service units FRC/FRCS, D series, metal design

FESTO

Technical data

Ordering data						
Pressure regulation range 0.5 ... 12 bar, metal bowl guard						
Condensate drain	Size	Connection	Grade of filtration 5 µm		Grade of filtration 40 µm	
			Part No.	Type	Part No.	Type
With pressure gauge						
Turned manually	Mini	G1/8	162 770	FRC-1/8-D-5M-MINI	159 604	FRC-1/8-D-MINI
		G1/4	162 771	FRC-1/4-D-5M-MINI	159 605	FRC-1/4-D-MINI
		G3/8	162 772	FRC-3/8-D-5M-MINI	162 734	FRC-3/8-D-MINI
	Midi	G1/4	186 499	FRC-1/4-D-5M-MIDI	186 497	FRC-1/4-D-MIDI
		G3/8	162 773	FRC-3/8-D-5M-MIDI	159 588	FRC-3/8-D-MIDI
		G1/2	162 774	FRC-1/2-D-5M-MIDI	159 590	FRC-1/2-D-MIDI
		G3/4	162 775	FRC-3/4-D-5M-MIDI	162 735	FRC-3/4-D-MIDI
	Maxi	G1/2	186 507	FRC-1/2-D-5M-MAXI	186 505	FRC-1/2-D-MAXI
		G3/4	162 776	FRC-3/4-D-5M-MAXI	159 606	FRC-3/4-D-MAXI
		G1	162 777	FRC-1-D-5M-MAXI	159 607	FRC-1-D-MAXI
Fully automatic	Mini	G1/8	162 778	FRC-1/8-D-5M-MINI-A	159 608	FRC-1/8-D-MINI-A
		G1/4	162 779	FRC-1/4-D-5M-MINI-A	159 609	FRC-1/4-D-MINI-A
		G3/8	162 780	FRC-3/8-D-5M-MINI-A	162 736	FRC-3/8-D-MINI-A
	Midi	G1/4	186 502	FRC-1/4-D-5M-MIDI-A	186 500	FRC-1/4-D-MIDI-A
		G3/8	162 781	FRC-3/8-D-5M-MIDI-A	159 589	FRC-3/8-D-MIDI-A
		G1/2	162 782	FRC-1/2-D-5M-MIDI-A	159 591	FRC-1/2-D-MIDI-A
		G3/4	162 783	FRC-3/4-D-5M-MIDI-A	162 737	FRC-3/4-D-MIDI-A
	Maxi	G1/2	186 510	FRC-1/2-D-5M-MAXI-A	186 508	FRC-1/2-D-MAXI-A
		G3/4	162 784	FRC-3/4-D-5M-MAXI-A	159 610	FRC-3/4-D-MAXI-A
		G1	162 785	FRC-1-D-5M-MAXI-A	159 611	FRC-1-D-MAXI-A
Without pressure gauge						
Turned manually	Mini	G1/8	192 650	FRC-1/8-D-5M-O-MINI	162 738	FRC-1/8-D-O-MINI
		G1/4	192 651	FRC-1/4-D-5M-O-MINI	162 739	FRC-1/4-D-O-MINI
		G3/8	192 652	FRC-3/8-D-5M-O-MINI	162 740	FRC-3/8-D-O-MINI
	Midi	G1/4	192 653	FRC-1/4-D-5M-O-MIDI	186 498	FRC-1/4-D-O-MIDI
		G3/8	192 654	FRC-3/8-D-5M-O-MIDI	162 741	FRC-3/8-D-O-MIDI
		G1/2	192 655	FRC-1/2-D-5M-O-MIDI	162 742	FRC-1/2-D-O-MIDI
		G3/4	192 656	FRC-3/4-D-5M-O-MIDI	162 743	FRC-3/4-D-O-MIDI
	Maxi	G1/2	192 657	FRC-1/2-D-5M-O-MAXI	186 506	FRC-1/2-D-O-MAXI
		G3/4	192 658	FRC-3/4-D-5M-O-MAXI	162 744	FRC-3/4-D-O-MAXI
		G1	192 659	FRC-1-D-5M-O-MAXI	162 745	FRC-1-D-O-MAXI
Fully automatic	Mini	G1/8	192 660	FRC-1/8-D-5M-O-MINI-A	162 746	FRC-1/8-D-O-MINI-A
		G1/4	192 661	FRC-1/4-D-5M-O-MINI-A	162 747	FRC-1/4-D-O-MINI-A
		G3/8	192 662	FRC-3/8-D-5M-O-MINI-A	162 748	FRC-3/8-D-O-MINI-A
	Midi	G1/4	192 663	FRC-1/4-D-5M-O-MIDI-A	186 501	FRC-1/4-D-O-MIDI-A
		G3/8	192 664	FRC-3/8-D-5M-O-MIDI-A	162 749	FRC-3/8-D-O-MIDI-A
		G1/2	192 665	FRC-1/2-D-5M-O-MIDI-A	162 750	FRC-1/2-D-O-MIDI-A
		G3/4	192 666	FRC-3/4-D-5M-O-MIDI-A	162 751	FRC-3/4-D-O-MIDI-A
	Maxi	G1/2	192 667	FRC-1/2-D-5M-O-MAXI-A	186 509	FRC-1/2-D-O-MAXI-A
		G3/4	192 668	FRC-3/4-D-5M-O-MAXI-A	162 752	FRC-3/4-D-O-MAXI-A
		G1	192 669	FRC-1-D-5M-O-MAXI-A	162 753	FRC-1-D-O-MAXI-A

Service units FRC/FRCS, D series, metal design

FESTO

Technical data

Ordering data				
Pressure regulation range 0.5 ... 7 bar, metal bowl guard				
Condensate drain	Size	Connection	Grade of filtration 40 µm	
			Part No.	Type
With pressure gauge				
Turned manually	Mini	G $\frac{1}{8}$	162 754	FRC- $\frac{1}{8}$ -D-7-MINI
		G $\frac{1}{4}$	162 755	FRC- $\frac{1}{4}$ -D-7-MINI
		G $\frac{3}{8}$	162 756	FRC- $\frac{3}{8}$ -D-7-MINI
	Midi	G $\frac{1}{4}$	186 503	FRC- $\frac{1}{4}$ -D-7-MIDI
		G $\frac{3}{8}$	162 757	FRC- $\frac{3}{8}$ -D-7-MIDI
		G $\frac{1}{2}$	162 758	FRC- $\frac{1}{2}$ -D-7-MIDI
		G $\frac{3}{4}$	162 759	FRC- $\frac{3}{4}$ -D-7-MIDI
	Maxi	G $\frac{1}{2}$	186 511	FRC- $\frac{1}{2}$ -D-7-MAXI
		G $\frac{3}{4}$	162 760	FRC- $\frac{3}{4}$ -D-7-MAXI
		G1	162 761	FRC-1-D-7-MAXI
Fully automatic	Mini	G $\frac{1}{8}$	162 762	FRC- $\frac{1}{8}$ -D-7-MINI-A
		G $\frac{1}{4}$	162 763	FRC- $\frac{1}{4}$ -D-7-MINI-A
		G $\frac{3}{8}$	162 764	FRC- $\frac{3}{8}$ -D-7-MINI-A
	Midi	G $\frac{1}{4}$	186 504	FRC- $\frac{1}{4}$ -D-7-MIDI-A
		G $\frac{3}{8}$	162 765	FRC- $\frac{3}{8}$ -D-7-MIDI-A
		G $\frac{1}{2}$	162 766	FRC- $\frac{1}{2}$ -D-7-MIDI-A
		G $\frac{3}{4}$	162 767	FRC- $\frac{3}{4}$ -D-7-MIDI-A
	Maxi	G $\frac{1}{2}$	186 512	FRC- $\frac{1}{2}$ -D-7-MAXI-A
		G $\frac{3}{4}$	162 768	FRC- $\frac{3}{4}$ -D-7-MAXI-A
		G1	162 769	FRC-1-D-7-MAXI-A
Without pressure gauge				
Turned manually	Mini	G $\frac{1}{8}$	192 630	FRC- $\frac{1}{8}$ -D-7-O-MINI
		G $\frac{1}{4}$	192 631	FRC- $\frac{1}{4}$ -D-7-O-MINI
		G $\frac{3}{8}$	192 632	FRC- $\frac{3}{8}$ -D-7-O-MINI
	Midi	G $\frac{1}{4}$	192 633	FRC- $\frac{1}{4}$ -D-7-O-MIDI
		G $\frac{3}{8}$	192 634	FRC- $\frac{3}{8}$ -D-7-O-MIDI
		G $\frac{1}{2}$	192 635	FRC- $\frac{1}{2}$ -D-7-O-MIDI
		G $\frac{3}{4}$	192 636	FRC- $\frac{3}{4}$ -D-7-O-MIDI
	Maxi	G $\frac{1}{2}$	192 637	FRC- $\frac{1}{2}$ -D-7-O-MAXI
		G $\frac{3}{4}$	192 638	FRC- $\frac{3}{4}$ -D-7-O-MAXI
		G1	192 639	FRC-1-D-7-O-MAXI
Fully automatic	Mini	G $\frac{1}{8}$	192 640	FRC- $\frac{1}{8}$ -D-7-O-MINI-A
		G $\frac{1}{4}$	192 641	FRC- $\frac{1}{4}$ -D-7-O-MINI-A
		G $\frac{3}{8}$	192 642	FRC- $\frac{3}{8}$ -D-7-O-MINI-A
	Midi	G $\frac{1}{4}$	192 643	FRC- $\frac{1}{4}$ -D-7-O-MIDI-A
		G $\frac{3}{8}$	192 644	FRC- $\frac{3}{8}$ -D-7-O-MIDI-A
		G $\frac{1}{2}$	192 645	FRC- $\frac{1}{2}$ -D-7-O-MIDI-A
		G $\frac{3}{4}$	192 646	FRC- $\frac{3}{4}$ -D-7-O-MIDI-A
	Maxi	G $\frac{1}{2}$	192 647	FRC- $\frac{1}{2}$ -D-7-O-MAXI-A
		G $\frac{3}{4}$	192 648	FRC- $\frac{3}{4}$ -D-7-O-MAXI-A
G1	192 649	FRC-1-D-7-O-MAXI-A		

Service units FRC/FRCS, D series, metal design

FESTO

Technical data

Ordering data						
Pressure regulation range 0.5 ... 12 bar, directly actuated pressure regulator with integrated return flow function, metal bowl guard						
Condensate drain	Size	Connection	Grade of filtration 5 µm		Grade of filtration 40 µm	
			Part No.	Type	Part No.	Type
With pressure gauge						
Turned manually	Maxi	G½	192 406	FRC-½-D-5M-DI-MAXI	192 404	FRC-½-D-DI-MAXI
		G¾	192 412	FRC-¾-D-5M-DI-MAXI	192 410	FRC-¾-D-DI-MAXI
		G1	192 418	FRC-1-D-5M-DI-MAXI	192 416	FRC-1-D-DI-MAXI
Fully automatic	Maxi	G½	192 424	FRC-½-D-5M-DI-MAXI-A	192 422	FRC-½-D-DI-MAXI-A
		G¾	192 430	FRC-¾-D-5M-DI-MAXI-A	192 428	FRC-¾-D-DI-MAXI-A
		G1	192 436	FRC-1-D-5M-DI-MAXI-A	192 434	FRC-1-D-DI-MAXI-A
Without pressure gauge						
Turned manually	Maxi	G½	192 407	FRC-½-D-5M-O-DI-MAXI	192 405	FRC-½-D-O-DI-MAXI
		G¾	192 413	FRC-¾-D-5M-O-DI-MAXI	192 411	FRC-¾-D-O-DI-MAXI
		G1	192 419	FRC-1-D-5M-O-DI-MAXI	192 417	FRC-1-D-O-DI-MAXI
Fully automatic	Maxi	G½	192 425	FRC-½-D-5M-O-DI-MAXI-A	192 423	FRC-½-D-O-DI-MAXI-A
		G¾	192 431	FRC-¾-D-5M-O-DI-MAXI-A	192 429	FRC-¾-D-O-DI-MAXI-A
		G1	192 437	FRC-1-D-5M-O-DI-MAXI-A	192 435	FRC-1-D-O-DI-MAXI-A

Ordering data						
Pressure regulation range 0.5 ... 7 bar, directly actuated pressure regulator with integrated return flow function, metal bowl guard						
Condensate drain	Size	Connection	Grade of filtration 5 µm		Grade of filtration 40 µm	
			Part No.	Type	Part No.	Type
With pressure gauge						
Turned manually	Maxi	G½	–		192 408	FRC-½-D-7-DI-MAXI
		G¾	–		192 414	FRC-¾-D-7-DI-MAXI
		G1	–		192 420	FRC-1-D-7-DI-MAXI
Fully automatic	Maxi	G½	–		192 426	FRC-½-D-7-DI-MAXI-A
		G¾	–		192 432	FRC-¾-D-7-DI-MAXI-A
		G1	–		192 438	FRC-1-D-7-DI-MAXI-A
Without pressure gauge						
Turned manually	Maxi	G½	–		192 409	FRC-½-D-7-O-DI-MAXI
		G¾	–		192 415	FRC-¾-D-7-O-DI-MAXI
		G1	–		192 421	FRC-1-D-7-O-DI-MAXI
Fully automatic	Maxi	G½	–		192 427	FRC-½-D-7-O-DI-MAXI-A
		G¾	–		192 433	FRC-¾-D-7-O-DI-MAXI-A
		G1	–		192 439	FRC-1-D-7-O-DI-MAXI-A

Service units FRC/FRCS, D series, metal design

FESTO

Technical data

Ordering data						
Pressure regulation range 0.5 ... 12 bar, metal bowl guard, lockable						
Condensate drain	Size	Connection	Grade of filtration 5 µm		Grade of filtration 40 µm	
			Part No.	Type	Part No.	Type
With pressure gauge						
Turned manually	Mini	G $\frac{1}{8}$	194 860	FRCS- $\frac{1}{8}$ -D-5M-MINI	194 852	FRCS- $\frac{1}{8}$ -D-MINI
		G $\frac{1}{4}$	194 872	FRCS- $\frac{1}{4}$ -D-5M-MINI	194 864	FRCS- $\frac{1}{4}$ -D-MINI
		G $\frac{3}{8}$	194 884	FRCS- $\frac{3}{8}$ -D-5M-MINI	194 876	FRCS- $\frac{3}{8}$ -D-MINI
	Midi	G $\frac{1}{4}$	194 896	FRCS- $\frac{1}{4}$ -D-5M-MIDI	194 888	FRCS- $\frac{1}{4}$ -D-MIDI
		G $\frac{3}{8}$	194 908	FRCS- $\frac{3}{8}$ -D-5M-MIDI	194 900	FRCS- $\frac{3}{8}$ -D-MIDI
		G $\frac{1}{2}$	194 920	FRCS- $\frac{1}{2}$ -D-5M-MIDI	194 912	FRCS- $\frac{1}{2}$ -D-MIDI
		G $\frac{3}{4}$	194 932	FRCS- $\frac{3}{4}$ -D-5M-MIDI	194 924	FRCS- $\frac{3}{4}$ -D-MIDI
	Maxi	G $\frac{1}{2}$	194 944	FRCS- $\frac{1}{2}$ -D-5M-MAXI	194 936	FRCS- $\frac{1}{2}$ -D-MAXI
		G $\frac{3}{4}$	194 956	FRCS- $\frac{3}{4}$ -D-5M-MAXI	194 948	FRCS- $\frac{3}{4}$ -D-MAXI
		G1	194 968	FRCS-1-D-5M-MAXI	194 960	FRCS-1-D-MAXI
Fully automatic	Mini	G $\frac{1}{8}$	194 862	FRCS- $\frac{1}{8}$ -D-5M-MINI-A	194 853	FRCS- $\frac{1}{8}$ -D-MINI-A
		G $\frac{1}{4}$	194 874	FRCS- $\frac{1}{4}$ -D-5M-MINI-A	194 865	FRCS- $\frac{1}{4}$ -D-MINI-A
		G $\frac{3}{8}$	194 886	FRCS- $\frac{3}{8}$ -D-5M-MINI-A	194 877	FRCS- $\frac{3}{8}$ -D-MINI-A
	Midi	G $\frac{1}{4}$	194 898	FRCS- $\frac{1}{4}$ -D-5M-MIDI-A	194 889	FRCS- $\frac{1}{4}$ -D-MIDI-A
		G $\frac{3}{8}$	194 910	FRCS- $\frac{3}{8}$ -D-5M-MIDI-A	194 901	FRCS- $\frac{3}{8}$ -D-MIDI-A
		G $\frac{1}{2}$	194 922	FRCS- $\frac{1}{2}$ -D-5M-MIDI-A	194 913	FRCS- $\frac{1}{2}$ -D-MIDI-A
		G $\frac{3}{4}$	194 934	FRCS- $\frac{3}{4}$ -D-5M-MIDI-A	194 925	FRCS- $\frac{3}{4}$ -D-MIDI-A
	Maxi	G $\frac{1}{2}$	194 946	FRCS- $\frac{1}{2}$ -D-5M-MAXI-A	194 937	FRCS- $\frac{1}{2}$ -D-MAXI-A
		G $\frac{3}{4}$	194 958	FRCS- $\frac{3}{4}$ -D-5M-MAXI-A	194 949	FRCS- $\frac{3}{4}$ -D-MAXI-A
		G1	194 970	FRCS-1-D-5M-MAXI-A	194 961	FRCS-1-D-MAXI-A
Without pressure gauge						
Turned manually	Mini	G $\frac{1}{8}$	194 861	FRCS- $\frac{1}{8}$ -D-5M-O-MINI	194 854	FRCS- $\frac{1}{8}$ -D-O-MINI
		G $\frac{1}{4}$	194 873	FRCS- $\frac{1}{4}$ -D-5M-O-MINI	194 866	FRCS- $\frac{1}{4}$ -D-O-MINI
		G $\frac{3}{8}$	194 885	FRCS- $\frac{3}{8}$ -D-5M-O-MINI	194 878	FRCS- $\frac{3}{8}$ -D-O-MINI
	Midi	G $\frac{1}{4}$	194 897	FRCS- $\frac{1}{4}$ -D-5M-O-MIDI	194 890	FRCS- $\frac{1}{4}$ -D-O-MIDI
		G $\frac{3}{8}$	194 909	FRCS- $\frac{3}{8}$ -D-5M-O-MIDI	194 902	FRCS- $\frac{3}{8}$ -D-O-MIDI
		G $\frac{1}{2}$	194 921	FRCS- $\frac{1}{2}$ -D-5M-O-MIDI	194 914	FRCS- $\frac{1}{2}$ -D-O-MIDI
		G $\frac{3}{4}$	194 933	FRCS- $\frac{3}{4}$ -D-5M-O-MIDI	194 926	FRCS- $\frac{3}{4}$ -D-O-MIDI
	Maxi	G $\frac{1}{2}$	194 945	FRCS- $\frac{1}{2}$ -D-5M-O-MAXI	194 938	FRCS- $\frac{1}{2}$ -D-O-MAXI
		G $\frac{3}{4}$	194 957	FRCS- $\frac{3}{4}$ -D-5M-O-MAXI	194 950	FRCS- $\frac{3}{4}$ -D-O-MAXI
		G1	194 969	FRCS-1-D-5M-O-MAXI	194 962	FRCS-1-D-O-MAXI
Fully automatic	Mini	G $\frac{1}{8}$	194 863	FRCS- $\frac{1}{8}$ -D-5M-O-MINI-A	194 855	FRCS- $\frac{1}{8}$ -D-O-MINI-A
		G $\frac{1}{4}$	194 875	FRCS- $\frac{1}{4}$ -D-5M-O-MINI-A	194 867	FRCS- $\frac{1}{4}$ -D-O-MINI-A
		G $\frac{3}{8}$	194 887	FRCS- $\frac{3}{8}$ -D-5M-O-MINI-A	194 879	FRCS- $\frac{3}{8}$ -D-O-MINI-A
	Midi	G $\frac{1}{4}$	194 899	FRCS- $\frac{1}{4}$ -D-5M-O-MIDI-A	194 891	FRCS- $\frac{1}{4}$ -D-O-MIDI-A
		G $\frac{3}{8}$	194 911	FRCS- $\frac{3}{8}$ -D-5M-O-MIDI-A	194 903	FRCS- $\frac{3}{8}$ -D-O-MIDI-A
		G $\frac{1}{2}$	194 923	FRCS- $\frac{1}{2}$ -D-5M-O-MIDI-A	194 915	FRCS- $\frac{1}{2}$ -D-O-MIDI-A
		G $\frac{3}{4}$	194 935	FRCS- $\frac{3}{4}$ -D-5M-O-MIDI-A	194 927	FRCS- $\frac{3}{4}$ -D-O-MIDI-A
	Maxi	G $\frac{1}{2}$	194 947	FRCS- $\frac{1}{2}$ -D-5M-O-MAXI-A	194 939	FRCS- $\frac{1}{2}$ -D-O-MAXI-A
		G $\frac{3}{4}$	194 959	FRCS- $\frac{3}{4}$ -D-5M-O-MAXI-A	194 951	FRCS- $\frac{3}{4}$ -D-O-MAXI-A
G1	194 971	FRCS-1-D-5M-O-MAXI-A	194 963	FRCS-1-D-O-MAXI-A		

Service units FRC/FRCS, D series, metal design

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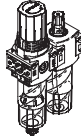
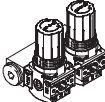
Technical data

Ordering data				
Pressure regulation range 0.5 ... 7 bar, metal bowl guard, lockable				
Condensate drain	Size	Connection	Grade of filtration 40 µm	
			Part No.	Type
With pressure gauge				
Turned manually	Mini	G1⁄8	194 856	FRCS-1⁄8-D-7-MINI
		G1⁄4	194 868	FRCS-1⁄4-D-7-MINI
		G3⁄8	194 880	FRCS-3⁄8-D-7-MINI
	Midi	G1⁄4	194 892	FRCS-1⁄4-D-7-MIDI
		G3⁄8	194 904	FRCS-3⁄8-D-7-MIDI
		G1⁄2	194 916	FRCS-1⁄2-D-7-MIDI
		G3⁄4	194 928	FRCS-3⁄4-D-7-MIDI
	Maxi	G1⁄2	194 940	FRCS-1⁄2-D-7-MAXI
		G3⁄4	194 952	FRCS-3⁄4-D-7-MAXI
		G1	194 964	FRCS-1-D-7-MAXI
Fully automatic	Mini	G1⁄8	194 858	FRCS-1⁄8-D-7-MINI-A
		G1⁄4	194 870	FRCS-1⁄4-D-7-MINI-A
		G3⁄8	194 882	FRCS-3⁄8-D-7-MINI-A
	Midi	G1⁄4	194 894	FRCS-1⁄4-D-7-MIDI-A
		G3⁄8	194 906	FRCS-3⁄8-D-7-MIDI-A
		G1⁄2	194 918	FRCS-1⁄2-D-7-MIDI-A
		G3⁄4	194 930	FRCS-3⁄4-D-7-MIDI-A
	Maxi	G1⁄2	194 942	FRCS-1⁄2-D-7-MAXI-A
		G3⁄4	194 954	FRCS-3⁄4-D-7-MAXI-A
		G1	194 966	FRCS-1-D-7-MAXI-A
Without pressure gauge				
Turned manually	Mini	G1⁄8	194 857	FRCS-1⁄8-D-7-O-MINI
		G1⁄4	194 869	FRCS-1⁄4-D-7-O-MINI
		G3⁄8	194 881	FRCS-3⁄8-D-7-O-MINI
	Midi	G1⁄4	194 893	FRCS-1⁄4-D-7-O-MIDI
		G3⁄8	194 905	FRCS-3⁄8-D-7-O-MIDI
		G1⁄2	194 917	FRCS-1⁄2-D-7-O-MIDI
		G3⁄4	194 929	FRCS-3⁄4-D-7-O-MIDI
	Maxi	G1⁄2	194 941	FRCS-1⁄2-D-7-O-MAXI
		G3⁄4	194 953	FRCS-3⁄4-D-7-O-MAXI
		G1	194 965	FRCS-1-D-7-O-MAXI
Fully automatic	Mini	G1⁄8	194 859	FRCS-1⁄8-D-7-O-MINI-A
		G1⁄4	194 871	FRCS-1⁄4-D-7-O-MINI-A
		G3⁄8	194 883	FRCS-3⁄8-D-7-O-MINI-A
	Midi	G1⁄4	194 895	FRCS-1⁄4-D-7-O-MIDI-A
		G3⁄8	194 907	FRCS-3⁄8-D-7-O-MIDI-A
		G1⁄2	194 919	FRCS-1⁄2-D-7-O-MIDI-A
		G3⁄4	194 931	FRCS-3⁄4-D-7-O-MIDI-A
	Maxi	G1⁄2	194 943	FRCS-1⁄2-D-7-O-MAXI-A
		G3⁄4	194 955	FRCS-3⁄4-D-7-O-MAXI-A
G1	194 967	FRCS-1-D-7-O-MAXI-A		

Service units FRC, D series, polymer

Product range overview D series service units, polymer

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Type		Size	Pneumatic connection			Pressure regulation range [bar]	Grade of filtration [µm]	
			G1/8	G1/4	G1/2	0.5 ... 7	5	40
Service units								
FRC		Mini	■	■	–	■	■	■
Individual devices								
Filter regulators LFR		Mini	■	■	–	■	■	■
Pressure regulators LR		Mini	■	■	–	■	–	–
Pressure regulator combinations LRB-K		Mini	–	–	■	■	–	–

Service units FRC, D series, polymer

Product range overview D series service units, polymer

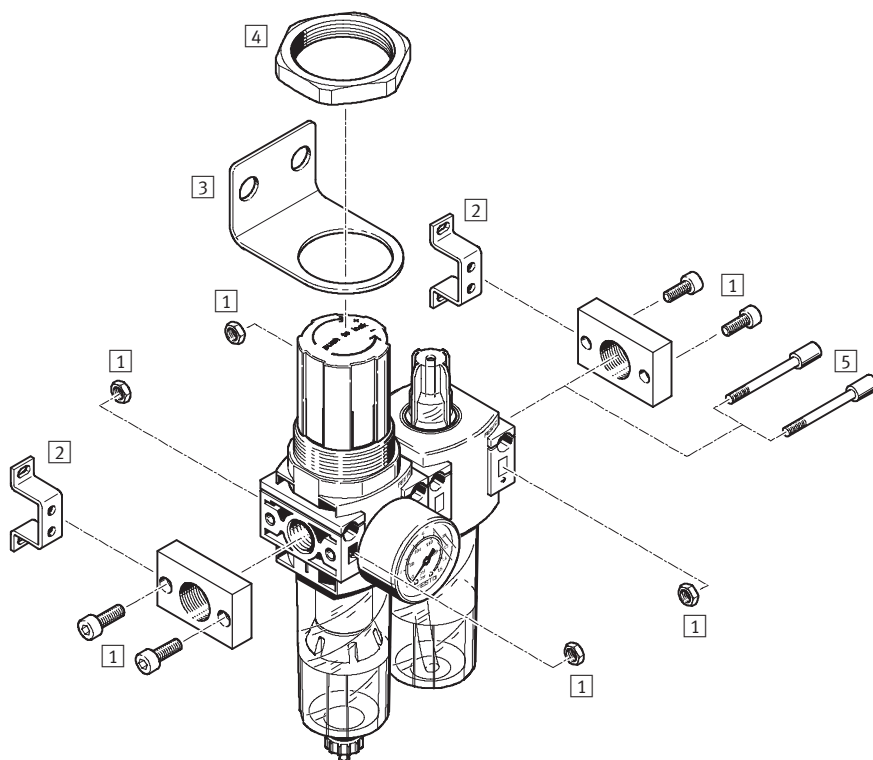
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Type	Size	Condensate drain		Pressure display		Actuator lock	Regulating functions		→ Page/ Internet
		Manual rotary	Semi-automatic	With pressure gauge	Without pressure gauge	Rotary knob with detent	With secondary venting	With return flow function	
Service units									
FRC	Mini	■	■	■	-	■	■	■	24
Individual devices									
Filter regulators LFR	Mini	■	■	■	■	■	■	■	lfr
Pressure regulators LR	Mini	-	-	■	■	■	■	■	lr
Pressure regulator combinations LRB-K	Mini	-	-	-	■	■	■	■	lrb

Service units FRC, D series, polymer

Peripherals overview

FESTO



Mounting attachments and accessories		→ Page/ Internet
1	Connecting plate kit PBL	pbl
2	Mounting bracket HFOE	hfoe-d
3	Mounting bracket HR-D	hr-d
4	Hex nut HMR	hmr-d
5	Threaded pin FRB	frb-db

Service units FRC, D series, polymer

FESTO

Type codes

		FRC	–	1/8	–	DB	–	7	–	5M	–	MINI	–	H
Basic function														
FRC	Service unit													
Pneumatic connection														
1/8	Thread G1/8													
1/4	Thread G1/4													
Series														
DB	Series													
Pressure regulation range														
7	0.5 ... 7 bar													
Grade of filtration														
	40 µm													
5M	5 µm													
Size														
	MINI													
Condensate drain														
	Manual rotary													
H	Semi-automatic													

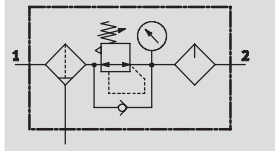
Service units FRC, D series, polymer

Technical data

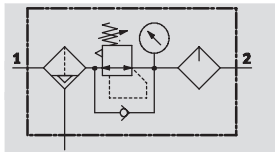
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Function

Condensate drain
manual rotary



semi-automatic



-  - Flow rate
400 ... 650 l/min
-  - Temperature range
-5 ... +50 °C
-  - Input pressure
1.5 ... 10 bar



- Filter, regulator and lubricator functions in a single unit
- High flow rate and highly efficient removal of contaminants
- Good regulating characteristics with minimal pressure hysteresis
- Setting values are secured by means of the rotary knob with detent
- With manual or semi-automatic condensate drain
- New filter cartridges → 30

The following oils are recommended for Festo components:

Viscosity range to
ISO 3448 class VG 32
32 mm²/s (cSt) at 40 °C

- Festo special oil
→ 31
- ARAL Vitam GF 32
- BP Energol HLP 32
- Esso Nuto H 32
- Mobil DTE 24
- Shell Tellus Oil DO 32

General technical data		
Size	Mini	
Pneumatic connection	G $\frac{1}{8}$	G $\frac{1}{4}$
Operating medium	Compressed air	
Design	Filter/regulator/lubricator	
Regulating function	With return flow function	
	With secondary venting	
Type of mounting	Inline installation	
	Via through-holes	
	Via mounting bracket	
Assembly position	Vertical $\pm 5^\circ$	
Grade of filtration	[μ m]	5 or 40
Max. hysteresis	[bar]	0.5
Input pressure	[bar]	1.5 ... 10
Pressure regulation range	[bar]	0.5 ... 7
Pressure indication	Via pressure gauge	
Pressure gauge connection	G $\frac{1}{8}$	

Standard nominal flow rate ¹⁾ qnN [l/min]			
Pneumatic connection		G1/8	G1/4
Mini			
Grade of filtration	5 µm	≥ 400	≥ 550
	40 µm	≥ 550	≥ 650

1) Measured at p₁ = 10 bar, p₂ = 6 bar and Δp = 1 bar.

Service units FRC, D series, polymer

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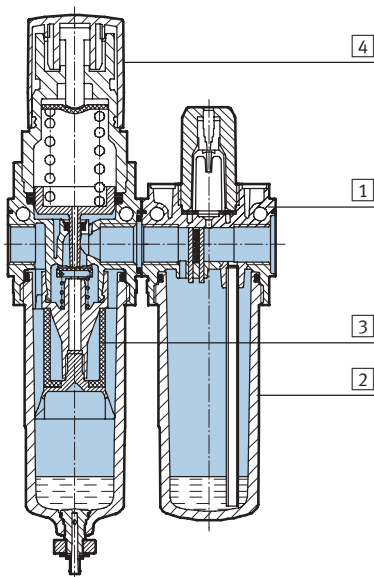
Technical data

Ambient conditions		
Size		Mini
Ambient temperature	[°C]	−5 ... +50
Temperature of medium	[°C]	−5 ... +50
Corrosion resistance class	CRC ¹⁾	1

1) Corrosion resistance class 1 according to Festo standard 940 070
Components requiring low corrosion resistance. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

Weight [g]	
Size	Mini
Service unit	300

Materials	
Sectional view	



Service unit	Mini
1 Housing	Polyamide, reinforced
2 Bowl	Polycarbonate
3 Filter	Polyethylene
4 Rotary knob	Polyacetate
– Seals	Nitrile rubber

Service units FRC, D series, polymer

Technical data

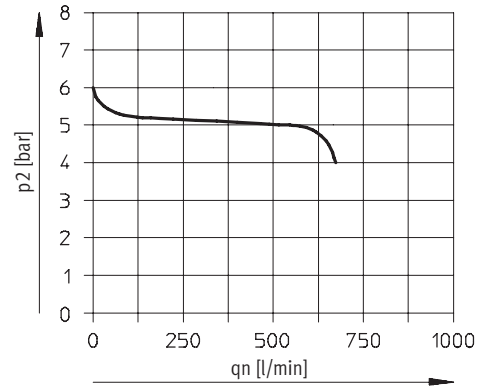
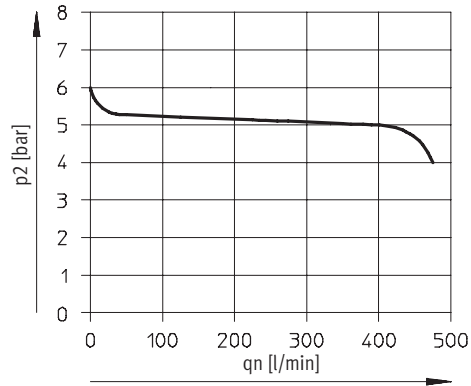
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Standard flow rate q_n as a function of output pressure p_2

Pneumatic connection $G\frac{1}{8}$

Grade of filtration $5\ \mu\text{m}$

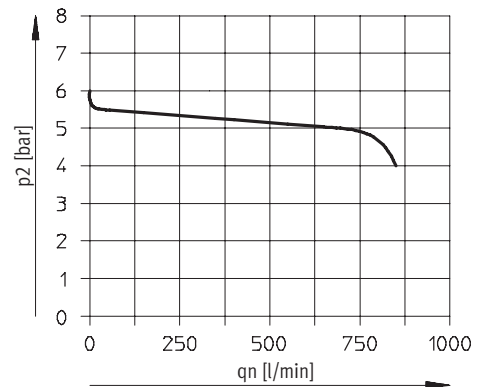
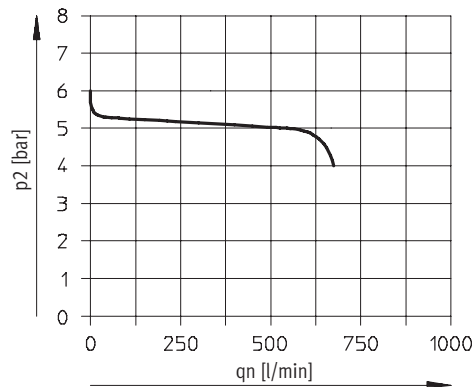
Grade of filtration $40\ \mu\text{m}$



Pneumatic connection $G\frac{1}{4}$

Grade of filtration $5\ \mu\text{m}$

Grade of filtration $40\ \mu\text{m}$



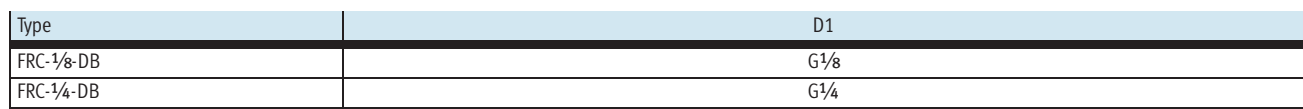
Primary pressure $p_1 = 10\ \text{bar}$

-  - Note

In order to improve control behaviour, primary-pressure dependent internal air consumption is provided.

Technical data

Mini



Ordering data

Pressure regulation range 0.5 ... 7 bar

Condensate drain	Size	Connection	Grade of filtration 5 µm		Grade of filtration 40 µm	
			Part No.	Type	Part No.	Type
With pressure gauge						
Manual rotary	Mini	G $\frac{1}{8}$	537 659	FRC- $\frac{1}{8}$ -DB-7-5M-MINI	537 655	FRC- $\frac{1}{8}$ -DB-7-MINI
		G $\frac{1}{4}$	537 658	FRC- $\frac{1}{4}$ -DB-7-5M-MINI	537 654	FRC- $\frac{1}{4}$ -DB-7-MINI
Semi-automatic	Mini	G $\frac{1}{8}$	537 661	FRC- $\frac{1}{8}$ -DB-7-5M-MINI-H	537 657	FRC- $\frac{1}{8}$ -DB-7-MINI-H
		G $\frac{1}{4}$	537 660	FRC- $\frac{1}{4}$ -DB-7-5M-MINI-H	537 656	FRC- $\frac{1}{4}$ -DB-7-MINI-H

Service units FRC/FRCS, D series

Accessories

FESTO

Filter cartridges, D series, metal design



Ordering data			
Size	Grade of filtration [µm]	Part No.	Type
Micro	5	526 818	LFP-D-MICRO-5M
	40	363 665	LFP-D-MINI-40M
Mini	5	159 640	LFP-D-MINI-5M
	40	363 665	LFP-D-MINI-40M
Midi	5	159 594	LFP-D-MIDI-5M
	40	363 667	LFP-D-MIDI-40M
Maxi	5	159 641	LFP-D-MAXI-5M
	40	363 664	LFP-D-MAXI-40M

Filter cartridges, D series, polymer



Ordering data			
Size	Grade of filtration [µm]	Part No.	Type
Mini	5	547 957	LFP-DB-MINI-5M
	40	534 502	MS4-LFP-E

Service units FRC/FRCS, D series

Accessories

FESTO

Special oil



Ordering data		
Scope of delivery	Part No.	Type
1 litre	152 811	OFSW-32

Ordering data – Pressure gauge MA						
	Nominal size	Pneumatic connection	Indicating range		Part No.	Type
			[bar]	[psi]		
	Pressure gauge MA					Technical data → Internet: ma
	27	M5	0 ... 10	–	526 323	MA-27-10-M5
	40	G1/8	0 ... 10	0 ... 145	359 874	MA-40-10-1/4
			0 ... 16	0 ... 232	345 395	MA-40-16-1/4
	50	G1/4	0 ... 10	0 ... 145	359 873	MA-50-10-1/4
			0 ... 16	0 ... 232	356 759	MA-50-16-1/4