



Service unit 3-piece Size 5 FRL 54* FRL 55 G 3/4 G 1 0.5 to 10 bar 0.5 to 16 bar

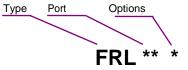
Characteristics

Type	FRL 54	FRL 55	
Port	G 3/4	G 1	
Pressure gauge port	G 1	/4	
Type of construction	- Diaphragm pressu	re regulator with	
	self-relieving desi	self-relieving design, pilot-controlled	
		- Centrifugal filter	
	Sintered filter elen		
	- Proportional lubricator		
Input pressure p1	Max. 16 bar with pla		
	Max. 20 bar with me	Max. 20 bar with metal bowl	
Input pressure p1	Min. 1.5 bar	Min. 1.5 bar	
with fully-automatic drain	Max. 16 bar		
Control range p2	0.5 to 10 bar / 0.5 to	0.5 to 10 bar / 0.5 to 16 bar	
	0.1 to 3 bar / 0.2 to 6 bar on request		
Mounting position	Vertical, drain plug at bottom		
Mounting type	In-line or bracket and two through		
	holes		
Medium temperature	-10 to 60 °C (other	r temperature	
Ambient temperature	-10 to 60 °C range	s on request)	
Filter rating	40 µm, 8 µm on req	uest	
Bowl capacity	Filter: Max. 125 cm ³ condensate		
	Oil-mist lubricator	: 450 cm ³	
Condensate drain	Semi-automatic		
	Fully-automatic on r	equest	
Weight [g]	5200		
Internal air consumption	Depending on seco	ndary pressure	

Materials

Part	Material
Body	Al
O-ring 80 x 2.5	NBR
Diaphragm	NBR-brass-Al
Pressure spring	Galvanised steel
Valve cone	NBR-brass
Counter-pressure spring	Stainless steel
O-ring 50x2	NBR
Filter element 40 µm	PE
Condensate bowl	Polycarbonate
Air deflector	POM
Baffle	PA
Oil bowl	Polycarbonate
Oil fill plug	POM-NBR
Joiner set	Z 410-steel-NBR
Sight dome	PA
Sight dome – metal	Zinc-glass-NBR

Ordering information *On request



Order example: FRL 55 K-HA

Port	
54	G 3/4
55	G 1
Options	
K-HA	Plastic bowl
M-SR	Metal bowl with sight glass
S	Bowl guard

Please use the suffix »A« to order fully-automatic drain

Description

- Simple block mounting with other devices using conical clamps and half threads
- Joiner sets (KP 55) required for block mounting
- Joiner sets (KP 55 Z) required for block mounting with K 55 ball valve and T 55 diverter block
- Pressure setting can be locked by pushing the knob down
- Flow direction indicated by arrows
- Entry in direction of arrow
- Independent of inletpressure
- Pressure gauge \varnothing 63 mm included
- Filter rating acc. to ISO 4003, glass bead test
- Bowl guard can be retrofitted without toolsOil can be filled under pressure

Recommended oil

Special pneumatic oil 32

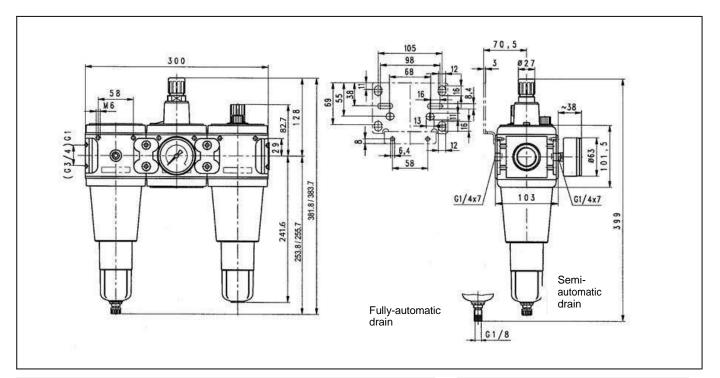
Viscosity at 40 °C: 32 cSt [mm²/s] Temperature range: -35 to +85 °C

Oil bowls made of plastic (polycarbonate) are corroded by additives, anti-freeze agents and synthetic oils. We therefore recommend using mineral oils from approx. 22 to 32 cSt or up to 68 cSt in conjunction with impact tools.

Metal bowls and metal sight domes should be used for all other oil grades.

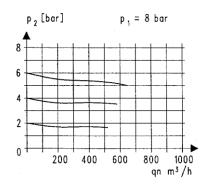


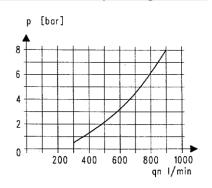
Dimensions [mm]



Flow characteristic

Lubricator operating limit

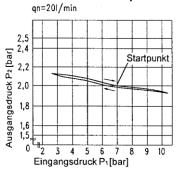




Hysteresis

Hysteresis of **p2** as a function of rising (falling) **p1** with a constant draw-off quantity QN 20 l/min Basic setting (starting point): **p1: 7.0 bar**

p2: 2.0 bar



Flow rates

Flow rates at p1 = 10 bar

Output pressure p2 [bar]		2	4	6
Nominal flow ($\Delta p = 1 \text{ bar}$)	QN m³/h	510	580	678
()	l/min	8500	9666	13500

Accessories

Designation	Article No.	Ident No.
Mounting bracket with two screws, cmpl.	ZW 55	100445
Joiner set	KP 55	100446
Joiner set(s) for K 54/55 and T 54/55	KP 55 Z	123922
Metal bowl with sight glass (filter)	MS 33 FS	100502
Metal bowl with sight glass and	MS 33 FS-A	100503
fully-automatic drain valve (filter)		
Metal bowl with sight glass (lubricator)	MS 33 NS	100549
Polycarbonate bowl with	KS 33 F-HA	100504
semi-automatic drain valve (filter)		
Polycarbonate bowl with	KS 33 F-A	100505
fully-automatic drain valve (filter)		
Polycarbonate bowl (lubricator)	KS 33 N	100548
Automatic drain	655.6.900	100362
Bowl guard	SK 33	100506

Main spare parts

Part	Article No.	Ident No.
→ Set of wearing parts Filter element 40 µm Filter element 8 µm Sight dome (polycarbonate) Sight dome (metal)	22.1855.4 655.6.940 655.6.908 1233.7.990 1233.7.909	100447 100511 100510 100392 100393
Pr. gauge Ø 63 mm, G1/4 0 to 10 bar 0 to 16 bar	217-KD 218-KD	101244 101398

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Article No.	Ident No.
FRL 55 K-HA	100585
FRL 55 S	100590
FRL 55 M-SR	100595