

Characteristics

Туре	FRL 11	FRL 12
Port	G 1/4	G 3/8
Pressure gauge port	G 1/4	
Type of construction	- Diaphragm pressure regulator with	
	self-relieving design - Centrifugal filter	
	Sintered filter element	
	- Proportional lubricator	
Input pressure p₁	Max. 16 bar with plastic bowl	
Imput pressure p ₁	Max. 20 bar with metal bowl	
Input pressure p ₁	Min. 1.5 bar	
with fully-automatic drain	Max. 16 bar	
Control range p ₂	0.5 to 10 bar / 0.5 to 16 bar	
5	0.1 to 3 bar / 0.2 to	6 bar on request
Mounting position	Vertical, drain plug	at bottom
Mounting type	Bracket on regulator, hole Ø30.5	
	Bracket and two thi	
Medium temperature	Max. 60 °C (other	r temperature
Ambient temperature	Max. 60 °C range	s on request)
Filter rating	5 μm	
Bowl capacity	Filter: Max. 25 cm³ condensate	
·	Oil-mist lubricato	r: 50 cm ³
Condensate drain	Semi-automatic	
	Fully-automatic on	request
Weight [g]	1190	

Materials

Part		Material
Head piece (body)		Z 410
Spring bonnet		POM-brass
Diaphragm	\rightarrow	NBR-brass
Pressure spring		Galvanised steel
Valve cone	\rightarrow	NBR-brass
Counter-pressure spring		Stainless steel
O-ring 30x2	\rightarrow	NBR
Filter element 5 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



Port	
11	G 1/4
12	G 3/8
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

Order example: FRL 11 K-HA Description

- Simple block mounting with other devices
- Joiner sets (KP 11) required for block mounting
- Pressure setting can be locked by pushing the knob down
- Flow direction indicated by arrows
- Entry in direction of arrow
- Independent of inlet pressure
- Pressure gauge \varnothing 40 mm included
- Lockable adjusting knob (on request)
- Filter rating acc. to ISO 4003
- Bowl guard can be retrofitted without tools
- Oil can be filled underpressure

Recommended oil

Special pneumatic oil 32

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

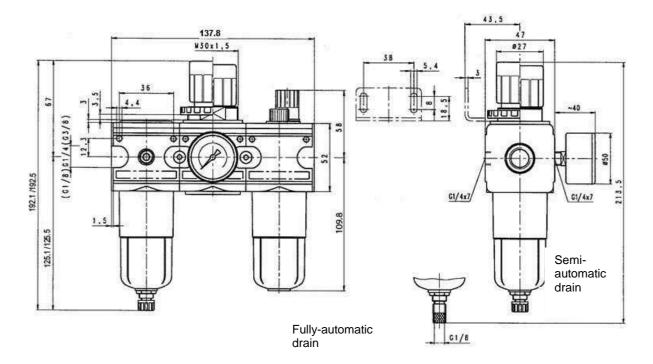
Oil bowls made of plastic (polycarbonate) are corroded by additives, anti-freeze agents and synthetic oils. We therefore recommend using mineral oils from approx. 22 to 32 cSt or up to 68 cSt in conjunction with impacttools.

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

Compressed air conditioning



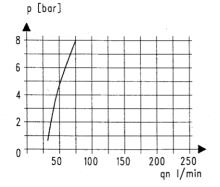
Dimensions [mm]



Flow characteristic

Lubricator operating limit

p₂ [bor] p₁ = 8 bor 8 6 4 2 0 400 800 1200 1600 2000 qn 1/min



Flow rates

Flow rates at $p_1 = 10 bar$

Output pressure $p_2 = [bar]$		6
Nominal flow ($\Delta p = 1 bar$)	QN m³/h	66
, , ,	l/min	1200

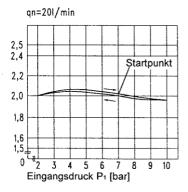
Accessories

Designation	Article No.	Ident No.
Mounting bracket with nut R 11-55	MV 30	100344
Mounting bracket with two screws, cmpl.	ZW 11	100435
Joiner set	KP 11	100436
Joiner set for narrow diverterblock	KP 11 Z	100437
Metal bowl with sight glass (filter)	MS 11 FS	100498
Metal bowl with sight glass and	MS 11 FS-A	100499
fully-automatic drain valve (filter)		
Metal bowl with sight glass (lubricator)	MS 11 NS	100547
Polycarbonate bowl with	KS 11 F-HA	100500
semi-automatic drain valve (filter)		
Polycarbonate bowl with	KS 11 F-A	100361
fully-automatic drain valve (filter)		
Polycarbonate bowl (lubricator)	KS 11 N	100385
Automatic drain valve	655.6.900	100362
Bowl guard	SK 11	100501

Hysteresis

Hysteresis of p_2 as a function of rising (falling) p_1 at a constant draw-off rate QN 20 l/min Basic setting (starting point): p_1 : 7.0 bar

p₂: 2.0 bar



Main spare parts

Part	Article No.	Ident No.
→Set of wearing parts Sight dome (metal) Sight dome (polycarbonate) Filter element 5 µm	22.1811.4 1233.7.909 1233.7.990 611.6.905	100438 100393 100392 100134
Pr. gauge Ø 40 mm, G 1/4 0 to 10 bar 0 to 16 bar	110.03-KD 110.04-KD	116896 116901

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1.2 Data subject to change



Compressed air conditioning

Article No.	Ident No.
FRL 11 K-HA	100581
FRL 12 K-HA	100582
FRL 11 S	100586
FRL 12 S	100587
FRL 11 M-SR	100591
FRL 12 M-SR	100592

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