

# Airline (FRL)

Going right back to 1927 when Carl Norgren first sketched out the design for the original FRL, Norgren have been at the forefront of air preparation products. In this section you will find a range of top quality airline products, from the brand new innovative Excelon Pro, to industry renowned Olympian and Excelon filters, regulators and lubricators to stainless steel units as well as precision and special purpose pressure regulators. Use the fast find guide to speed you to the right product to get the job done, follow the links at the bottom of each page to get rich technical data online or call the team for rapid quotation and delivery.



# Fast Find Guide

## EXCELON® PRO – LIGHTWEIGHT SYSTEM

<b>Filter/regulator and lubricator BL92</b> Ø 8 mm, G1/4  Page 174	<b>General purpose filter F92</b> Ø 8 mm, G1/4  Page 176	<b>Coalescing filter F92C</b> Ø 8 mm, G1/4  Page 177	<b>Regulator R92</b> Ø 8 mm, G1/4  Page 178	<b>Filter/regulator B92</b> Ø 8 mm, G1/4  Page 179	<b>Lubricator (oil-fog) L92</b> Ø 8 mm, G1/4  Page 180
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## EXCELON® – MODULAR SYSTEM

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## OLYMPIAN PLUS – PLUG-IN, QUICK CHANGE SYSTEM

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# Fast Find Guide

## MINIATURE SERIES, GENERAL PURPOSE

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## MAINLINE SERIES UNITS

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## STAINLESS STEEL – GENERAL PURPOSE AND PRECISION

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## SPECIAL PURPOSE

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## CLASSIC PRODUCTS

<p><b>Micro-fog lubricator S3406-3S</b></p> <p>Page 222</p>
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# EXCELON® PRO SERIES

## Combination shut off valve, filter/regulator and lubricator

BL92 - Ø 8 mm, G1/4

Configuration flexibility

Excellent value

No tools required for assembly

### TECHNICAL DATA

#### Medium:

Compressed air

#### Operating pressure:

Manual drain: 12 bar max.

Auto drain: 10 bar

#### Ambient temperature:

-20°C to +52°C

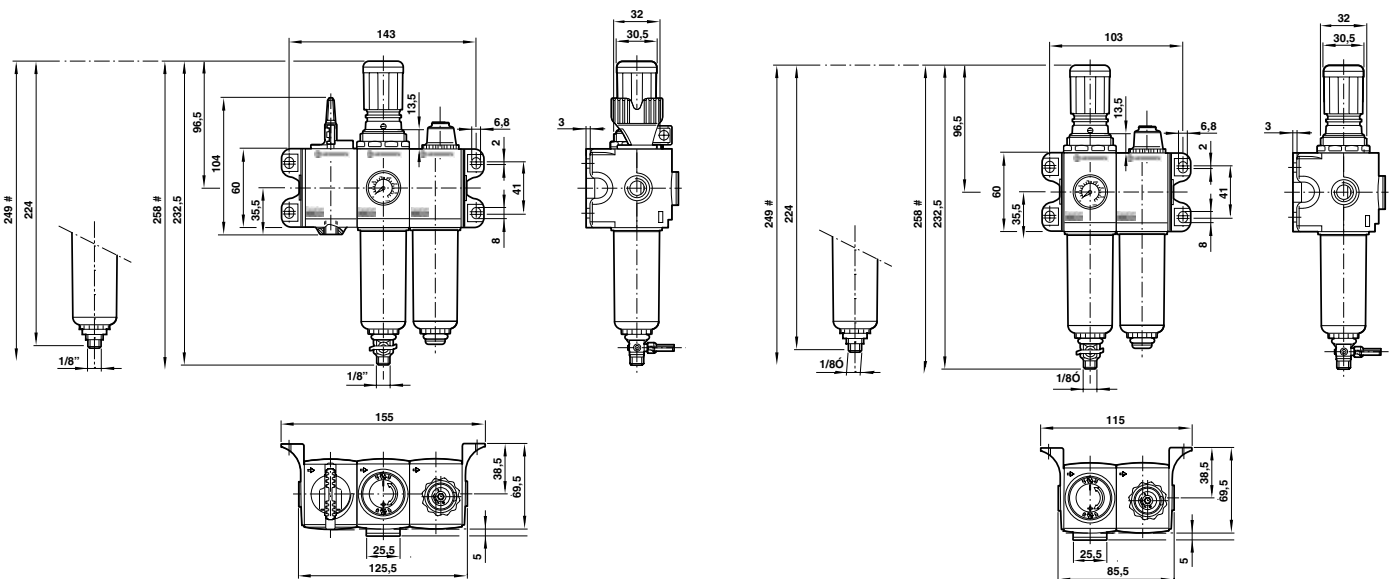
Consult our Technical Service for use below +2°C

#### Element:

5 µm

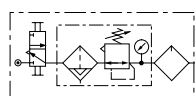
#### Outlet pressure adjustment range:

0,3 to 10 bar



### Models

Combination unit including filter/regulator, lubricator with shut off valve  
 AUTO DRAIN      MANUAL DRAIN      Port Size  
 Model      Model

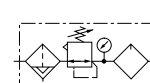


BL92-F11D  
 BL92-211G

BL92-F31D  
 BL92-231G

8 mm  
 G1/4

Combination unit including filter/regulator and lubricator without shut off valve  
 AUTO DRAIN      MANUAL DRAIN      Port Size  
 Model      Model

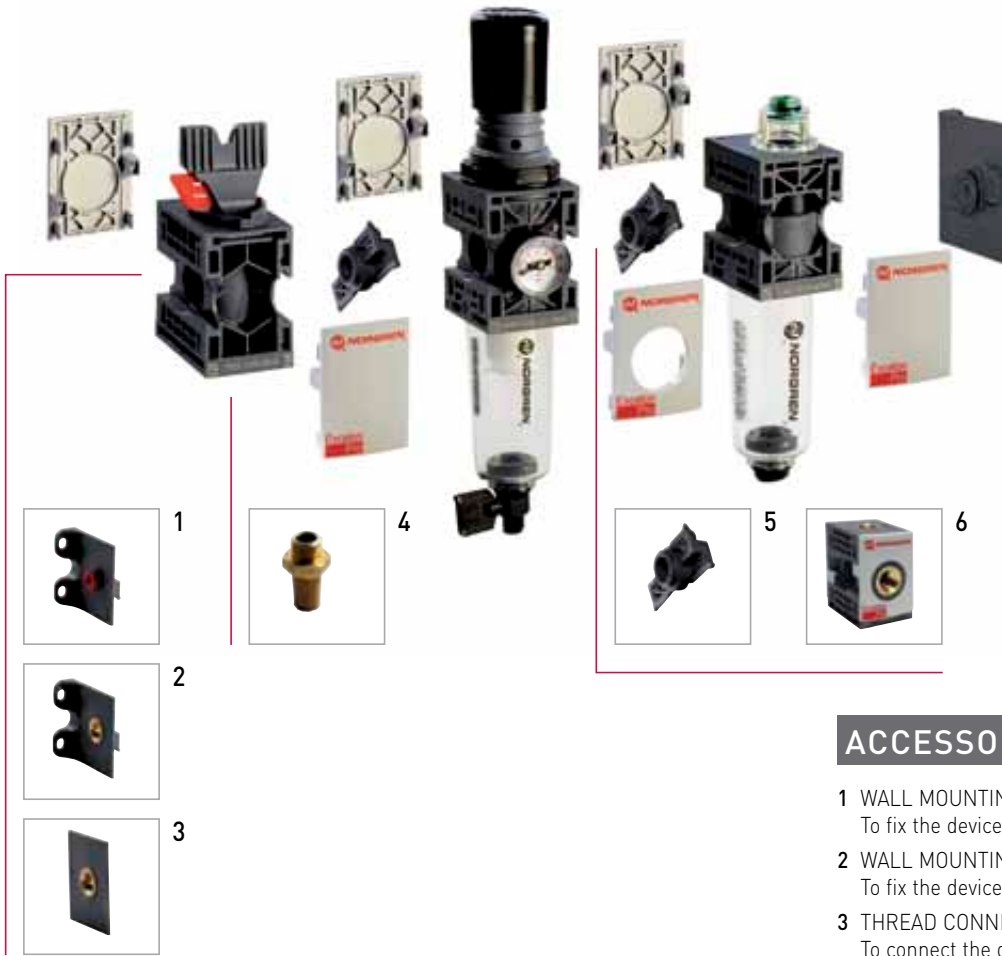


BL92-F15D  
 BL92-215G

BL92-F35D  
 BL92-235G

8 mm  
 G1/4

## EXCELON® PRO SERIES Patented Connection System



### PATENTED CONNECTION SYSTEM

#### EASE OF INSTALLATION

Innovative patent pending connection design combined with integral mounting brackets make the Excelon® Pro user friendly and easy to install.

### ACCESSORY FEATURES

- 1 WALL MOUNTING BRACKET WITH PIF FITTING  
To fix the device to the wall.
- 2 WALL MOUNTING BRACKET WITH THREAD  
To fix the device to the wall.
- 3 THREAD CONNECTOR  
To connect the device directly.
- 4 SILENCER (SHUT-OFF VALVE)  
For noise reduction when exhausting air to atmosphere.
- 5 QUICK CONNECTOR  
Allows easy connection of one Excelon® PRO unit to another.
- 6 PORTING BLOCK  
When placed between a filter-regulator and lubricator allows branching off to systems requiring a non-lubricated supply. The locking plates are included in scope of supply (plugs not included)

Connection size	Push-in fitting connector with mounting bracket	Threaded connector with mounting bracket	Threaded connector without mounting bracket	Quick connector	Shut off valve	Porting block	Accessories
-							
G 1/8	-	9212KIT-1G	-	9210-50	T92T-NNN-B1N	9216-51	T40M0500
G 1/4	-	9212KIT-2G	9211KIT-2V	-	-	-	-
G 3/8	-	9212KIT-3G	-	-	-	-	-
Ø 6 mm	9213KIT-6D	-	-	-	-	-	-
Ø 8 mm	9213KIT-8D	-	-	-	-	-	-
Ø 10 mm	9213KIT-AD	-	-	-	-	-	-
Ø 12 mm	9213KIT-BD	-	-	-	-	-	-

# EXCELON® PRO SERIES General purpose filter

F92G – Ø 8 mm, G1/4

Configuration flexibility

Excellent value

No tools required for assembly

## TECHNICAL DATA

### Medium:

Compressed air

### Operating pressure:

Manual drain: 12 bar max.

Automatic drain: 10 bar max.

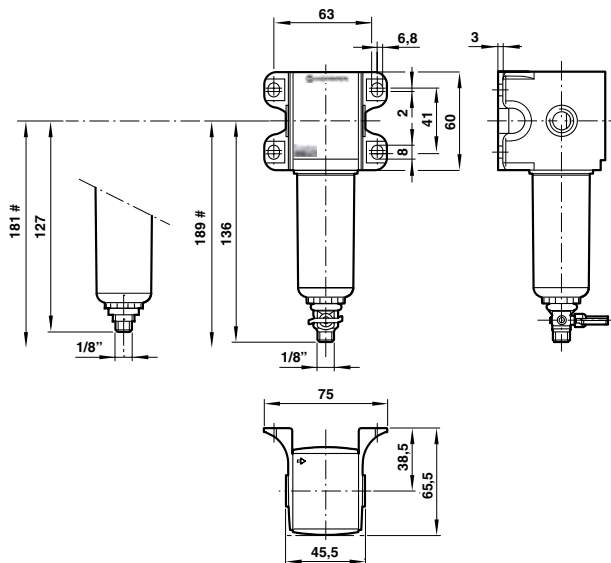
### Ambient temperature:

-20°C to +52°C




Consult our Technical Service for use below +2°C

### Element:



5 µm



## Models

F92G AUTO DRAIN Model	MANUAL DRAIN Model	Port size	Flow*
			
F92G-8DN-AT1	F92G-8DN-QT1	Ø 8 mm	19 dm³/s (1140 l/min)
F92G-2GN-AT1	F92G-2GN-QT1	G1/4	19 dm³/s (1140 l/min)

## Accessories

Service kit	Auto drain
	
F92G-KIT	4000-50R
F92G-KIT	4000-50R

\*Typical flow with 6,3 bar inlet pressure and 0,5 bar pressure drop

# EXCELON® PRO SERIES Coalescing filter

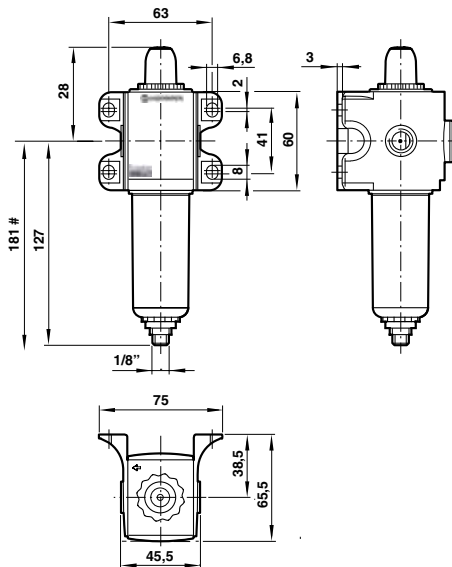
F92C – Ø 8 mm, G1/4





- Configuration flexibility
- Excellent value
- No tools required for assembly
- Automatic drain and service life indicator as standard

## TECHNICAL DATA



- Medium:**  
Compressed air
- Operating pressure:**  
8 bar max.
- Ambient temperature:**  
-20°C to +52°C  
Consult our Technical Service for use below +2°C
- Element:**  
0,01 µm
- Remaining oil content:**  
0,01 mg/m³ at +21°C
- Note:**  
Install with a 5 µm Pre-Filter upstream



### Models

F92C AUTO DRAIN Model	Port size	Flow*
	Ø 8 mm	4,6 dm³/s (276 l/min)
	G1/4	4,6 dm³/s (276 l/min)

### Accessories

Service kit	Auto drain
	
F92C-KIT	4000-50R
F92C-KIT	4000-50R

\* Maximum flow at 6,3 bar to maintain stated oil removal performance. (staturated element)

# EXCELON® PRO SERIES Regulator

R92G – Ø 8 mm, G1/4

- Configuration flexibility
- Excellent value
- No tools required for assembly

## TECHNICAL DATA

### Medium:

Compressed air

### Operating pressure:

12 bar max.

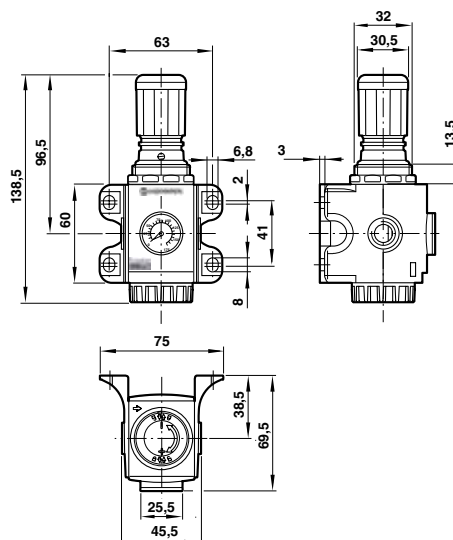
### Ambient temperature:

-20°C to +60°C

Consult our Technical Service for use below +2°C

### Outlet pressure adjustment range:

0,3 to 10 bar



## Models

Model	Port size	Flow*
R92G-8DK-RMG	Ø 8 mm	22 dm³/s (1320 l/min)
R92G-26K-RMG	G1/4	22 dm³/s (1320 l/min)



## Service Kit



R92G-KITR  
R92G-KITR

\* Typical flow with 10 bar inlet pressure 6,3 bar set pressure and a 1 bar drop from set



# EXCELON® PRO SERIES Filter/regulator

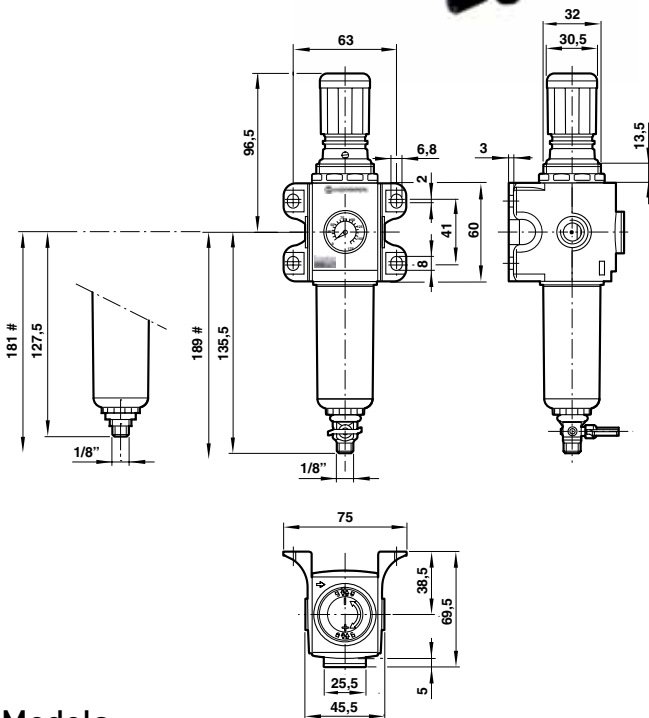
B92G – Ø 8 mm, G1/4



- Configuration flexibility
- Excellent value
- No tools required for assembly

## TECHNICAL DATA

- Medium:**  
Compressed air
- Operating pressure:**  
Manual drain: 12 bar max.  
Automatic drain: 10 bar max.
- Ambient temperature:**  
–20°C to +52°C  
Consult our Technical Service for use below +2°C
- Element:**  
5 µm
- Outlet pressure adjustment range:**  
0,3 to 10 bar



### Models

B92G AUTO DRAIN Model	MANUAL DRAIN Model	Port size	Flow*
B92G-8DK-AT1-RMG	B92G-8DK-QT1-RMG	Ø 8 mm	16 dm³/s (960 l/min)
B92G-2GK-AT1-RMG	B92G-2GK-QT1-RMG	G1/4	16 dm³/s (960 l/min)

### Accessories

Service kit	Auto drain
B92G-KITR	4000-50R
B92G-KITR	4000-50R

\* Typical flow with 10 bar inlet pressure 6,3 bar set pressure and a 1 bar drop from set

# EXCELON® PRO SERIES Lubricator (oil-fog)

L92C - Ø 8 mm, G1/4

- Configuration flexibility
- Excellent value
- No tools required for assembly

## TECHNICAL DATA

### Medium:

Compressed air

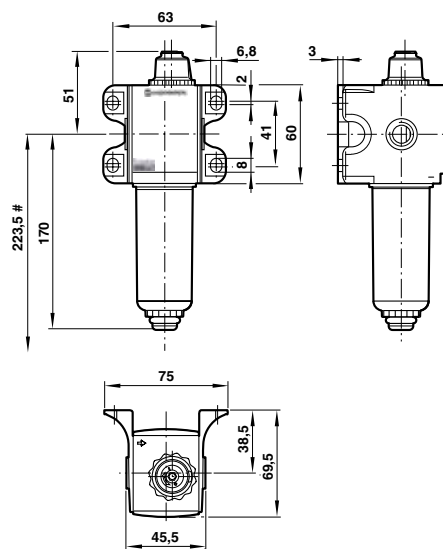
### Operating pressure:

12 bar max.

### Ambient temperature:

-20°C to +52°C

Consult our Technical Service for use below +2°C



## EXPRESS PLUS

### Have you thought about...

Lubricators extend system's life up to 4 times, saving you money

## Models

Model	Port size	Flow*
L92C-8DP-ETN	Ø 8 mm	24 dm <sup>3</sup> /s (1440 l/min)
L92C-2GP-ETN	G1/4	24 dm <sup>3</sup> /s (1440 l/min)

## Service Kit


L92C-KIT
L92C-KIT

\*Typical flow with 6,3 bar inlet pressure and 0,5 bar pressure drop

# EXCELON MODULAR SYSTEM

## Combination filter/regulators and lubricators

BL72, 73, 74 – G1/4 ... G1/2



Boxed sets include: filter/regulator and micro-fog lubricator complete with exhausting shut-off valve, pressure gauge and mounting brackets

High efficiency water and particle removal

Quick release bayonet bowls

Push to lock adjusting knob with tamper resistant option

All round (360°) visibility of lubricator sight feed dome for ease of drip rate setting

Micro-fog lubricator for most general purpose pneumatic applications

### TECHNICAL DATA

**Medium:**

Compressed air

**Maximum inlet pressure:**

10 bar

**Gauge ports:**

RC 1/8

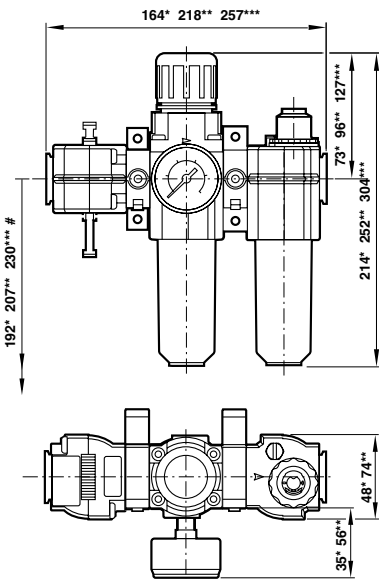
**Ambient temperature:**

-20°C to +50°C

Consult our Technical Service for use below +2°C

**Pressure range:**

0,3 ... 10 bar



\*BL72, \*\*BL73, \*\*\*BL74  
# Minimum clearance required to remove bowl

### Models

BOXED SETS BL72, BL73 AND BL74 WITH SHUT-OFF VALVE				Port Size	Bowl
AUTO DRAIN Model	MANUAL DRAIN Model				
				G1/4	T
				G3/8	T
				G1/2	GT

BOXED SETS BL72, BL73 AND BL74 WITHOUT SHUT-OFF VALVE				Port Size	Bowl
AUTO DRAIN Model	MANUAL DRAIN Model				
				G3/8	T
				G3/8	T
				G1/2	GT

T=Transparent bowl GT= Guarded transparent bowl

### Accessories

Tamper resistant kit	Quick fill nipple	Filter element (40 micron)
4255-51	-	5925-02
4455-51	18-011-024	4438-03
4355-51	18-011-024	4338-05

Tamper resistant kit	Quick fill nipple	Filter element (40 micron)
4255-51	-	5925-02
4455-51	18-011-024	4438-03
4355-51	18-011-024	4338-05

For full service kits including drains refer to individual units

# EXCELON MODULAR SYSTEM General purpose filters

F72G, F73G, F74G – G1/4 to G3/4

Excelon design allows in-line installation or modular installation with other

Excelon products

Quick release bayonet bowl

## TECHNICAL DATA

### Medium:

Compressed air only

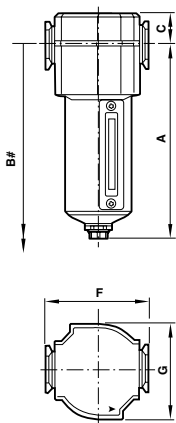
### Maximum inlet pressure:

10 bar

### Ambient temperature:

-34°C to +50°C

Consult our Technical Service for use below +2°C



# Minimum clearance required to remove bowl

## Dimensions

Series	Drain	A	B	C	F	G
72	Auto	141	192	19	50	48
	Manual	134	185	19	50	48
73	Auto	147	207	25	68	62
	Manual	156	216	25	68	62
74	Auto	161	230	25	80	74
	Manual	177	246	25	80	74

## EXPRESS PLUS

### Have you thought about...

Minimise wear and avoid damaging your compressed air system by carrying out routine maintenance on the filters. See the blue shaded area on the page to select the correct service kit.















## EXCELON MODULAR SYSTEM General purpose filters

F72G, F73G, F74G – G1/4 to G3/4

### Models

### Accessories

### Service Kit

F72G SERIES					Wall mounting bracket	Auto drain	Manual drain
AUTO DRAIN Model	MANUAL DRAIN Model	Port size	Flow* (dm <sup>3</sup> /s)	Bowl			
							
F72G-2GN-AL3	F72G-2GN-QT3	G1/4	30	T	4224-50	F72G-KITA40	F72G-KITM40
F72G-3GN-AL3	F72G-3GN-QT3	G3/8	30	T	4224-50	F72G-KITA40	F72G-KITM40
F73G SERIES					Wall mounting bracket	Auto drain	Manual drain
AUTO DRAIN Model	MANUAL DRAIN Model	Port size	Flow* (dm <sup>3</sup> /s)	Bowl			
							
F73G-2GN-AT3	F73G-2GN-QT3	G1/4	29	T	4424-50	F73G-KITA40	F73G-KITM40
F73G-3GN-AT3	F73G-3GN-QT3	G3/8	35	T	4424-50	F73G-KITA40	F73G-KITM40
F73G-4GN-AT3	F73G-4GN-QT3	G1/2	38	T	4424-50	F73G-KITA40	F73G-KITM40
F74G SERIES					Wall mounting bracket	Auto drain	Manual drain
AUTO DRAIN Model	MANUAL DRAIN Model	Port size	Flow* (dm <sup>3</sup> /s)	Bowl			
							
F74G-3GN-AP3	F74G-3GN-QP3	G3/8	66	GT	4324-50	F74G-KITA40	F74G-KITM40
F74G-4GN-AP3	F74G-4GN-QP3	G1/2	83	GT	4324-50	F74G-KITA40	F74G-KITM40
F74G-6GN-AP3	F74G-6GN-QP3	G3/4	83	GT	4324-50	F74G-KITA40	F74G-KITM40

GT= Guarded transparent bowl. T=Transparent bowl \*Typical flow with 6,3 bar inlet pressure and 0,5 bar pressure drop

# EXCELON MODULAR SYSTEM

## 'Puraire'® oil removal filters

F72C, F73C, F74C, F74H – G1/4 to G3/4

Excelon design allows in-line installation or modular installation with other Excelon products

High efficiency oil and particle removal

Quick release bayonet bowl

Service indicator standard

### TECHNICAL DATA

#### Medium:

Compressed air

#### Maximum inlet pressure:

10 bar transparent bowl or guarded

8 bar transparent bowl F72C with auto drain

#### Remaining oil content:

0,01 mg/m<sup>3</sup> at +21°C

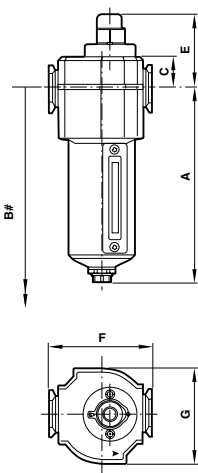
#### Particle removal:

To 0,01 µm

#### Ambient temperature:

-34°C to +50°C

Consult our Technical Service for use below +2°C



# Minimum clearance required to remove bowl

### Dimensions

Series	Drain	A	B	C	E	F	G
F72C	Auto	141	192	19	53	50	48
	Manual	134	185	19	53	50	48
F73C	Auto	147	207	25	60	68	62
	Manual	156	216	25	60	68	62
F74C	Auto	161	230	25	60	80	74
	Manual	177	246	25	60	80	74






## EXCELON MODULAR SYSTEM 'Puraire'® oil removal filters






F72C, F73C, F74C, F74H - G1/4 to G3/4






## Models

## Accessories






## Service Kit

F72C SERIES AUTO DRAIN Model	MANUAL DRAIN Model	Port size	Flow* (dm <sup>3</sup> /s)	Bowl	Wall mounting bracket	Service Kit
						
F72C-2GD-AL0	F72C-2GD-QT0	G1/4	4,5	T	4224-50	F72C-KITA0C
F72C-3GD-AL0	F72C-3GD-QT0	G3/8	4,5	T	4224-50	F72C-KITA0C

F73C SERIES AUTO DRAIN Model	MANUAL DRAIN Model	Port size	Flow* (dm <sup>3</sup> /s)	Bowl	Wall mounting bracket	Service Kit
						
F73C-2GD-AT0	F73C-2GD-QT0	G1/4	10	T	4424-50	F73C-KITA0C
F73C-3GD-AT0	F73C-3GD-QT0	G3/8	10	T	4424-50	F73C-KITA0C
F73C-4GD-AT0	F73C-4GD-QT0	G1/2	10	T	4424-50	F73C-KITA0C

F74C SERIES AUTO DRAIN Model	MANUAL DRAIN Model	Port size	Flow* (dm <sup>3</sup> /s)	Bowl	Wall mounting bracket	Service Kit
						
F74C-3GD-AP0	F74C-3GD-QP0	G3/8	16	GT	4324-50	F74C-KITA0C
F74C-4GD-AP0	F74C-4GD-QP0	G1/2	16	GT	4324-50	F74C-KITA0C

GT= Guarded transparent bowl. T=Transparent bowl. \*To maintain stated oil content at 6,3 bar inlet pressure

F74H SERIES AUTO DRAIN Model	MANUAL DRAIN Model	Port size	Flow* (dm <sup>3</sup> /s)	Bowl	Wall mounting bracket	Service Kit
						
F74H-4GD-AP0	F74H-4GD-QP0	G1/2	28	GT	4324-50	F74H-KITA0C
F74H-6GD-AP0	F74H-6GD-QP0	G3/4	28	GT	4324-50	F74H-KITA0C

GT= Guarded transparent bowl

## EXPRESS PLUS

## Have you thought about...

Compressed air is costly - 7% extra for every 1 bar not needed. Don't let anyone tamper with your pressure settings; fit a lockshroud or tamperproof cap

# EXCELON MODULAR SYSTEM

## 'Ultraire'® oil vapour removal filters

F72V, F74V – G1/4 to G3/4

Excelon design allows in-line or modular installation with other Excelon products

Adsorbing type activated carbon element removes oil vapours and most hydrocarbon odours

Quick release bayonet bowl

High intensity blue colour change indication (F72V)

### TECHNICAL DATA

#### Medium:

Compressed air

#### Maximum inlet pressure:

10 bar (F72V)

17 bar (F74V)

#### Remaining oil content:

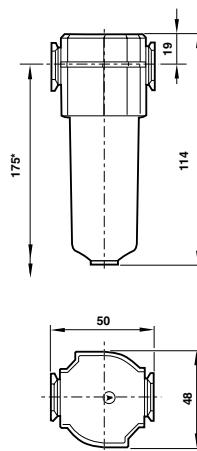
0,003 mg/m<sup>3</sup> max. at +21°C.

#### Ambient temperature:

Transparent bowl: -34°C to +50°C (F72V)

Metal bowl: -34°C to +65°C (F74V)

Consult our Technical Service for use below +2°C

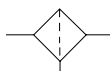


\* Minimum clearance required to remove bowl



### Models

F72V SERIES Model	Port size	Flow* (dm <sup>3</sup> /s)	Bowl
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F72V-2GN-ETC	G1/4	1,6	T
F72V-3GN-ETC	G3/8	1,6	T

### Accessories

Wall mounting bracket
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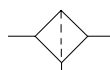
4224-50
4224-50

### Service Kit



F72V-KITA0V
F72V-KITA0V

F74V SERIES Model	Port size	Flow* (dm <sup>3</sup> /s)	Bowl
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F74V-3GN-EMA	G3/8	13	M
F74V-4GN-EMA	G1/2	13	M
F74V-6GN-EMA	G3/4	13	M

Wall mounting bracket
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4324-50
4324-50
4324-50



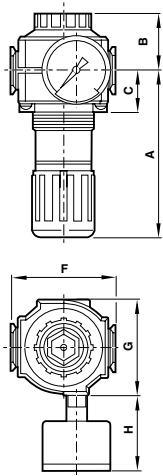
F74V-KITA0V
F74V-KITA0V
F74V-KITA0V

M= Metal bowl. T=Transparent bowl \* To maintain stated oil content at 6,3 bar inlet pressure



# EXCELON MODULAR SYSTEM Pressure regulators

R72G, R73G, R74G – G1/4 to G3/4



Excelon design allows in-line or modular installation

Balanced valve design for optimum pressure control

Standard relieving models allow reduction of downstream pressure when the system is dead-ended

Push to lock adjusting knob with tamper resistant accessory

## TECHNICAL DATA

Medium: Compressed air

Maximum inlet pressure: 20 bar

Gauge ports: Rc1/8

Ambient temperature:

-34°C to +65°C (R72G)

-34°C to +80°C (R73G & R74G)

Consult our Technical Service for use below +2°C

Pressure range: 0,3 ... 10 bar






















## Dimensions

Series	A	B	C	F	G	H	Panel Ø	Panel depth
72	73	33	26	50	48	35	40	0 ... 4
73	96	39	31	68	62	56	48	2 ... 6
74	127	43	31	80	74	56	52	2 ... 6

## Models

## Accessories

## Service Kit

R72G SERIES Model	Port size	Flow* (dm <sup>3</sup> /s)	Wall mounting bracket	Neck mounting bracket	Gauge 0 ... 10 bar	Tamper resistant kit	Service Kit
 							
R72G-2GK-RMN	G1/4	33	4224-50	74316-50	18-013-989	4255-51	R72G-KITR
R72G-3GK-RMN	G3/8	33	4224-50	74316-50	18-013-989	4255-51	R72G-KITR
R73G SERIES Model	Port size	Flow* (dm <sup>3</sup> /s)	Wall mounting bracket	Neck mounting bracket	Gauge 0 ... 10 bar	Tamper resistant kit	Service Kit
 							
R73G-2GK-RMN	G1/4	50	4424-50	4461-50	18-013-013	4455-51	R73G-KITR
R73G-3GK-RMN	G3/8	60	4424-50	4461-50	18-013-013	4455-51	R73G-KITR
R73G-4GK-RMN	G1/2	60	4424-50	4461-50	18-013-013	4455-51	R73G-KITR
R74G SERIES Model	Port size	Flow* (dm <sup>3</sup> /s)	Wall mounting bracket	Neck mounting bracket	Gauge 0 ... 10 bar	Tamper resistant kit	Service Kit
 							
R74G-3GK-RMN	G3/8	98	4324-50	4368-51	18-013-013	4355-51	R74G-KITR
R74G-4GK-RMN	G1/2	105	4324-50	4368-51	18-013-013	4355-51	R74G-KITR
R74G-6GK-RMN	G3/4	105	4324-50	4368-51	18-013-013	4355-51	R74G-KITR

\*Typical flow with 10 bar inlet pressure, 6,3 bar set pressure and 1 bar drop from set

# EXCELON MODULAR SYSTEM Filter/regulators

B72G, B73G, B74G – G1/4 to G3/4

Excelon design allows in-line installation or modular installation with other Excelon products

High efficiency water and particle removal

Quick release bayonet bowl

Push to lock adjusting knob with tamper resistant accessory

## TECHNICAL DATA

### Medium:

Compressed air only

### Maximum inlet pressure:

10 bar

### Pressure range:

0,3 ... 10 bar

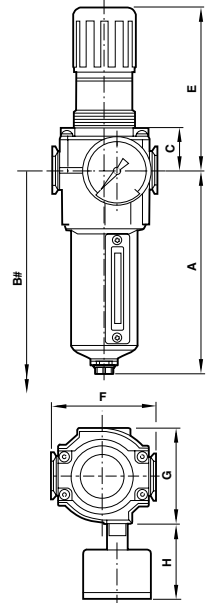
### Gauge ports:

Rc1/8

### Ambient temperature:

-34°C to +50°C

Consult our Technical Service for use below +2°C



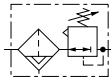
## Dimensions

Series	Drain	A	B	C	E	F	G	H	Panel Ø
72	Auto	141	192	26	73	50	48	35	40
	Manual	134	185	26	73	50	48	35	40
73	Auto	147	207	31	96	68	62	56	48
	Manual	156	216	31	96	68	62	56	48
74	Auto	161	230	31	127	80	74	56	52
	Manual	177	246	31	127	80	74	56	52

# Minimum clearance required to remove bowl

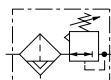
## Models

B72G SERIES AUTO DRAIN Model	MANUAL DRAIN Model	Port size	Flow* (dm³/s)	Bowl
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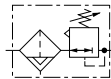
B72G-2GK-AL3-RMN	B72G-2GK-QT3-RMN	G1/4	38	T
B72G-3GK-AL3-RMN	B72G-3GK-QT3-RMN	G3/8	38	T

B73G SERIES AUTO DRAIN Model	MANUAL DRAIN Model	Port size	Flow* (dm³/s)	Bowl
------------------------------------	-----------------------	-----------	------------------	------



B73G-2GK-AT3-RMN	B73G-2GK-QT3-RMN	G1/4	49	T
B73G-3GK-AT3-RMN	B73G-3GK-QT3-RMN	G3/8	50	T
B73G-4GK-AT3-RMN	B73G-4GK-QT3-RMN	G3/8	50	T

B74G SERIES AUTO DRAIN Model	MANUAL DRAIN Model	Port size	Flow* (dm³/s)	Bowl
------------------------------------	-----------------------	-----------	------------------	------



B74G-3GK-AP3-RMN	B74G-3GK-QP3-RMN	G3/8	77	GT
B74G-4GK-AP3-RMN	B74G-4GK-QP3-RMN	G1/2	100	GT
B74G-6GK-AP3-RMN	B74G-6GK-QP3-RMN	G3/4	100	GT

## Accessories

Wall mounting bracket	Neck mounting bracket	Gauge 0...10 bar	Tamper resistant kit
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4224-50	74316-50	18-013-989	4255-51
4224-50	74316-50	18-013-989	4255-51

Wall mounting bracket	Neck mounting bracket	Gauge 0...10 bar	Tamper resistant cover and seal wire
-----------------------	-----------------------	------------------	--------------------------------------



4424-50	4461-50	18-013-013	4455-51
4424-50	4461-50	18-013-013	4455-51
4424-50	4461-50	18-013-013	4455-51

Wall mounting bracket	Neck mounting bracket	Gauge 0...10 bar	Tamper resistant cover and seal wire
-----------------------	-----------------------	------------------	--------------------------------------



4324-50	4368-51	18-013-013	4355-51
4324-50	4368-51	18-013-013	4355-51
4324-50	4368-51	18-013-013	4355-51

## Service Kit

Auto drain	Manual drain
------------	--------------



B72G-KITA40R	B72G-KITM40R
B72G-KITA40R	B72G-KITM40R

Auto drain	Manual drain
------------	--------------



B73G-KITA40R	B73G-KITM40R
B73G-KITA40R	B73G-KITM40R
B73G-KITA40R	B73G-KITM40R

Auto drain	Manual drain
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B74G-KITA40R	B74G-KITM40R
B74G-KITA40R	B74G-KITM40R
B74G-KITA40R	B74G-KITM40R

GT= Guarded transparent bowl. T=Transparent bowl \*Typical flow with 10 bar inlet pressure, 6,3 set pressure and 1 bar drop from set

## EXCELON MODULAR SYSTEM Filter/regulators

B72G, B73G, B74G – G1/4 to G3/4



### PATENTED QUIKCLAMP CONNECTION SYSTEM

Allows easy connection of one Excelon unit to another

One piece – no loose parts

Uniquely, connected products can be rotated in 90° increments

Secure mounting to a wall, panel or machine surface



### ACCESSORY FEATURES

- 1 WALL MOUNTING BRACKET**  
To fix the device to the wall
- 2 NECK MOUNTING BRACKET**  
To fix the device on panel or wall
- 3 GAUGE**  
To monitor the working pressure
- 4 3/2 SHUT-OFF VALVE**  
Slide valve with lockable blade. Threaded exhaust port
- 5 TAMPER RESISTANT KIT**  
Simple accessory to prevent unauthorised adjustment of regulated pressure
- 6 SILENCER (SHUT-OFF VALVE)**  
For noise reduction when exhausting air to atmosphere
- 7 QUIKCLAMP**  
With or without bracket

### Models

### Accessories

Port size	3/2 shut-off valve*	Quikclamp	Quikclamp and Quikclamp wall bracket	Silencer (shut-off valve)	
<b>B72G series</b>	G1/4	T72T-2GA-P1N	4214-51	4214-52	T40M0500
<b>B72G series</b>	G3/8	T72T-3GA-P1N	4214-51	4214-52	T40M0500
<b>B73G series</b>	G1/4	T73T-2GA-P1N	4314-51	4314-52	T40M0500
<b>B73G series</b>	G3/8	T73T-3GA-P1N	4314-51	4314-52	T40M0500
<b>B73G series</b>	G1/2	T73T-4GA-P1N	4314-51	4314-52	T40M0500
<b>B74G series</b>	G3/8	T74T-3GA-P1N	4314-51	4214-52	T40B1800
<b>B74G series</b>	G1/2	T74T-4GA-P1N	4314-51	4214-52	T40B1800
<b>B74G series</b>	G3/4	T74T-6GA-P1N	4314-51	4214-52	T40B1800

\*Threaded exhaust port

# EXCELON MODULAR SYSTEM Lubricators

L72, L73, L74 – G1/4 to G3/4

Excelon design allows in-line or modular installation

Flow sensor provides a nearly constant oil/air ratio over a wide range of flows

All round (360°) visibility of sight-feed dome for ease of drip rate setting

Micro-fog lubricators for best lubrication in general purpose pneumatic applications

## TECHNICAL DATA

Medium: Compressed air

Maximum inlet pressure: 10 bar

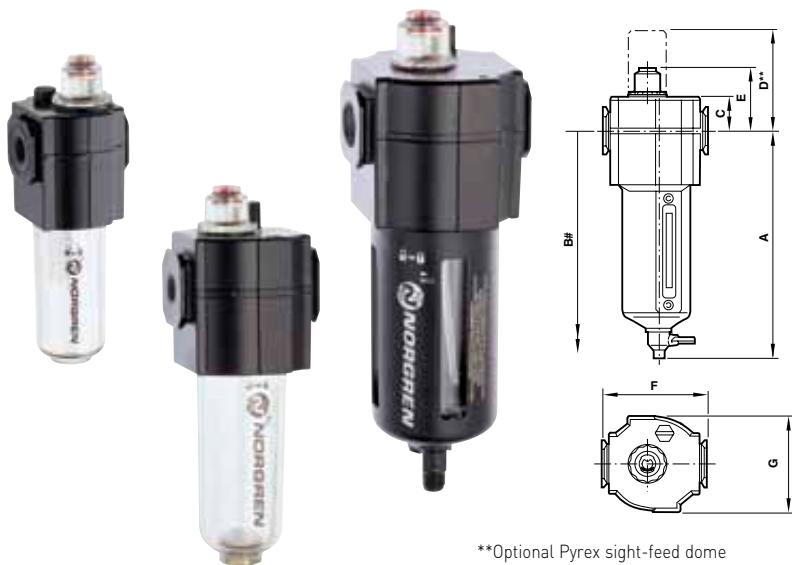
Start point: L72M 0,94 dm<sup>3</sup>/s, L73M 0,71 dm<sup>3</sup>/s, L74M 0,94 dm<sup>3</sup>/s

Minimum flow required for lubricator operation at 6,3 bar inlet pressure

Bowl capacity: L72 0,05 l, L73 0,10 l, L74 0,20 l

Ambient temperature: -20°C to +50°C

Consult our Technical Service for use below +2°C



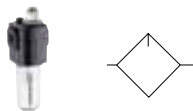
\*\*Optional Pyrex sight-feed dome  
# Minimum clearance required to remove bowl

## Dimensions

Series	A	B	C	D	E	F	G
72	110	191	19	64	41	50	48
73	156	255	25	70	47	68	62
74	177	276	25	68	47	80	74

## Models

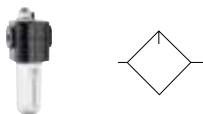
BOXED SETS L72 SERIES Model	Port size	Flow* (dm <sup>3</sup> /s)	Bowl	Wall mounting bracket	Service Kit
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L72M-2GP-ETN	G1/4	24	T	4224-50	L72M-KIT
L72M-3GP-ETN	G3/8	24	T	4224-50	L72M-KIT



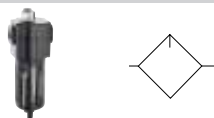
BOXED SETS L73 SERIES Model	Port size	Flow* (dm <sup>3</sup> /s)	Bowl	Wall mounting bracket	Service Kit
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L73M-2GP-ETN	G1/4	50	T	4424-50	L73M-KIT
L73M-3GP-ETN	G3/8	64	T	4424-50	L73M-KIT
L73M-4GP-ETN	G1/2	64	T	4424-50	L73M-KIT



BOXED SETS L74 SERIES Model	Port size	Flow* (dm <sup>3</sup> /s)	Bowl	Wall mounting bracket	Service Kit
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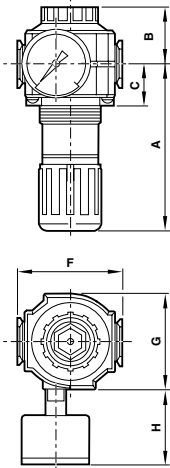
L74M-3GP-QPN	G3/8	50	GT	4324-50	L74M-KIT
L74M-4GP-QPN	G1/2	70	GT	4324-50	L74M-KIT
L74M-6GP-QPN	G3/4	70	GT	4324-50	L74M-KIT



GT= Guarded transparent bowl T=Transparent bowl \* Typical flow with 6,3 bar inlet and 0,5 bar pressure drop

# EXCELON MODULAR SYSTEM Pressure relief valves

V72G, V74G – G1/4to G 3/4



Excelon design allows in-line installation or modular installation with other Excelon products

Push to lock adjusting knob with tamper resistant accessory

Helps protect air operated equipment from over pressurisation

Norgren pressure relief valves comply with category O(S.E.P.) and category 1 of the Pressure Equipment Directive 97/23/EC.

## TECHNICAL DATA

**Medium:**

Compressed air

**Gauge ports:**

Rc1/8

**Relief port:**

G1/4 (V72G), G1/2 (V74G)

**Ambient temperature:**

-34°C to +65°C (V72G)

-34°C to +80°C (V74G)

Consult our Technical Service for use below +2°C


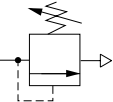







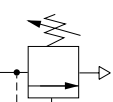






**Relief pressure adjustment range:**

0,3 ... 10 bar

## Dimensions

Series	A	B	C	F	G	H	Panel Ø	Panel depth
72	73	25	26	50	48	35	40	0 ... 4
74	127	43	31	80	74	56	52	2 ... 6

## Models

V72G SERIES		Accessories					Service Kit
Model	Port size	Wall mounting bracket	Neck mounting bracket	Gauge 0 ... 10 bar	Tamper resistant kit	Silencer	
 	G1/4						
V72G-2GK-NMN	G1/4	4224-50	74316-50	18-013-989	4255-51	MB002B	V72G-KIT
V72G-3GK-NMN	G3/8	4224-50	74316-50	18-013-989	4255-51	MB002B	V72G-KIT
V74G SERIES		Accessories					Service Kit
Model	Port size	Wall mounting bracket	Neck mounting bracket	Gauge 0 ... 10 bar	Tamper resistant kit	Silencer	
 	G3/8						
V74G-3GK-NMN	G3/8	4324-50	4368-51	18-013-013	4355-51	MB004B	V74G-KIT
V74G-4GK-NMN	G1/2	4324-50	4368-51	18-013-013	4355-51	MB004B	V74G-KIT
V74G-6GK-NMN	G3/4	4324-50	4368-51	18-013-013	4355-51	MB004B	V74G-KIT

AIRLINE (FRL)

5

# EXCELON MODULAR SYSTEM Soft start/dump valves

P72F, P74F – G1/4 to G3/4

Assists machine designers in complying with the European Machinery Directive

Can help existing machinery to comply with PUWER (Provision and Use of Work Equipment Regulations)

Controlled increase of downstream pressure on start up

High forward flow capacity

High flow dump facility



## TECHNICAL DATA

**Medium:** Compressed air

**Maximum operating pressure:**

10 bar (solenoid pilot operated),

17 bar (air pilot operated)

**Minimum operating pressure:** 3 bar

**Ambient temperature:**

-20°C to +65°C P72F, -20°C to +80°C P74F

Consult our Technical Service for use below +2°C

**Air pilot port:** P72F M5, P74F Rc1/4

**Exhaust port:** P72F Rc1/4, P74F G1/2

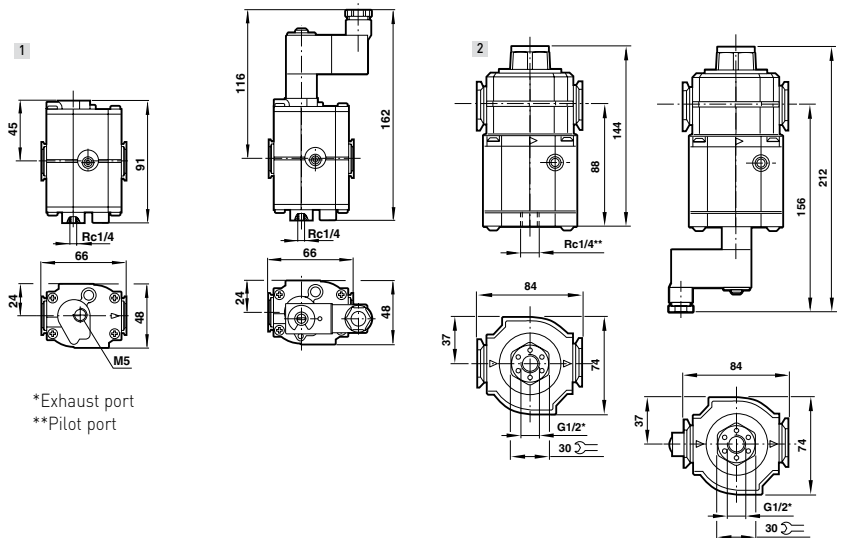
**Maximum flow:** P72F 21 dm<sup>3</sup>/s, P74F 57 dm<sup>3</sup>/s

Note: Maximum flow with 6,3 bar inlet pressure and pressure drop of 0,5 bar

**Snap pressure:**

Full flow when downstream pressure reaches

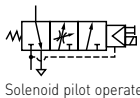
50 to 80% of inlet pressure



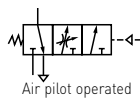
\*Exhaust port  
\*\*Pilot port

## Models

P72F SERIES - 24V d.c. SOLENOID PILOT OPERATED Model	AIR PILOT OPERATED Model	Port size	Drawing No.
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Solenoid pilot operated



Air pilot operated

P72F-2GC-PFN	P72F-2GA-NNN	G1/4	1
P72F-3GC-PFN	-	G3/8	1

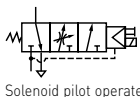
## Accessories

Silencer	Connector plug with cable gland
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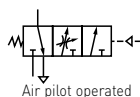


MB002B	0657868000000000
MB002B	0657868000000000

P74F SERIES - 24V d.c. SOLENOID PILOT OPERATED Model	AIR PILOT OPERATED Model	Port size	Drawing No.
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Solenoid pilot operated



Air pilot operated

P74F-4GC-PFN	P74F-4GA-NNN	G1/2	2
P74F-6GC-PFN	-	G3/4	2

Silencer	Connector plug with cable gland
----------	------------------------------------



MB004B	0657868000000000
MB004B	0657868000000000

# OLYMPIAN PLUS PLUG-IN SYSTEM

## Combination filter/regulators and lubricator

BL64, 68 – G1/2 & G1



Complete air processing units pre-assembled, ready to install

Boxed sets include: filter/regulator and micro-fog lubricator complete with exhausting shut-off valve, pressure gauge and mounting brackets

### TECHNICAL DATA

**Medium:**

Compressed air only

**Maximum inlet pressure:**

17 bar

**Ambient temperature:**

-20°C to +65°C

Consult our Technical Service for use below +2°C

**Pressure range:**

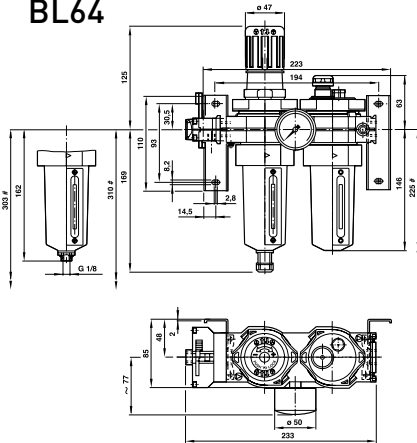
BL64: 0,3...10 bar

BL68: 0,4...8 bar

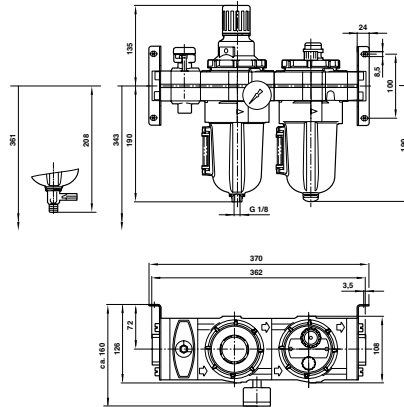
**Gauge ports:**

Rc1/8

**BL64**



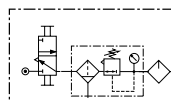
**BL68**



# Minimum clearance required to remove bowl

### Models

BOXED SETS BL64 AND BL68 WITH SHUT-OFF VALVE		
AUTO DRAIN Model	MANUAL DRAIN Model	Port size



BL64-401	BL64-421	G1/2
BL68-801	BL68-821	G1

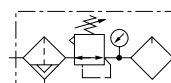
### Accessories

Tamper resistant kit	Quick fill nipple	Filter element (40 micron)
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4355-50	18-011-024	4338-02
4355-50	18-011-024	5576-99

BOXED SETS BL64 AND BL68 WITHOUT SHUT-OFF VALVE		
AUTO DRAIN Model	MANUAL DRAIN Model	Port size



BL64-405	BL64-425	G1/2
BL68-805	BL68-825	G1

Tamper resistant kit	Quick fill nipple	Filter element (40 micron)
----------------------	-------------------	----------------------------



4355-50	18-011-024	4338-02
4355-50	18-011-024	5576-99

For full service kits including drains refer to individual units

# OLYMPIAN PLUS PLUG-IN SYSTEM

## General purpose filters

F64G, F68G – G1/4 to G 1 1/2

Effective liquid removal and positive solid filtration

Large filter element area for minimum pressure drop

### TECHNICAL DATA

#### Medium:

Compressed air only

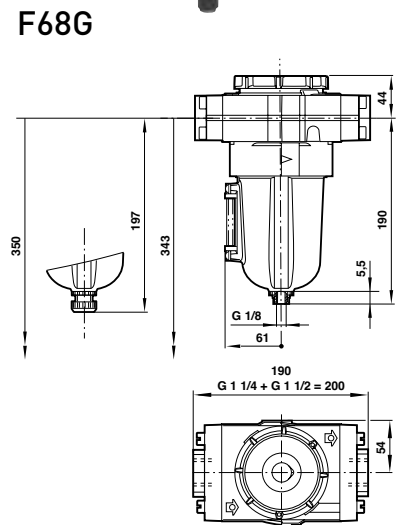
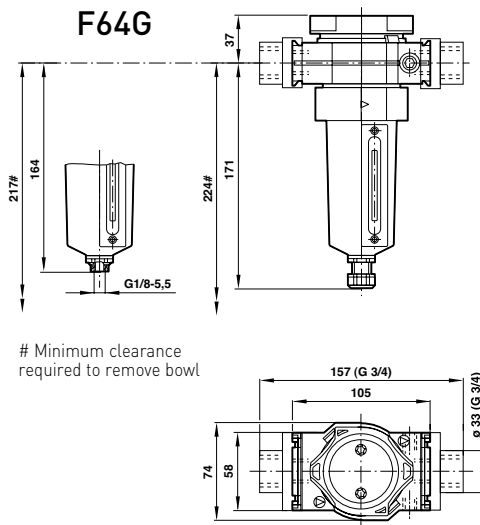
#### Maximum inlet pressure:

17 bar

#### Ambient temperature:

-20°C to +80°C

Consult our Technical Service for use below +2°C



### EXPRESS PLUS

#### Did you know...

You can also purchase individual filter elements as spares as an alternative to a complete service kit. Please call your Express Team



### Models

F64G SERIES AUTO DRAIN Model	MANUAL DRAIN Model	Port size	Flow* (dm³/s)
		G1/4	33
		G3/8	66
		G1/2	75
		G3/4	75

### Accessories

Wall mounting bracket	3/2 Shut-off valve**	Silencer (shut-off valve)

### Service Kit

Auto drain	Manual drain

F68G SERIES AUTO DRAIN Model	MANUAL DRAIN Model	Port size	Flow* (dm³/s)
		G3/4	160
		G1	190
		G1 1/4	200
		G1 1/2	200

Wall mounting bracket	3/2 Shut-off valve**	Silencer (shut-off valve)

Auto drain	Manual drain

\* Typical flow with 6,3 bar inlet pressure and 0,5 bar pressure drop \*\*Threaded exhaust port  
For replacement filter (without yoke) substitute 'N' at the 5th and 6th digits eg: F68G-NNN-AR3 (F68)





# OLYMPIAN PLUS PLUG-IN SYSTEM

## 'Ultraire'® high efficiency oil/oil vapour removal filters

F64B/L, FFV68 – G1/4 to G1

F64B/F64L are 'dual function' products incorporating an oil removal element (bottom) and an oil vapour removal element (top)

FFV68 are two separate coupled filters (F68C/H and F68V/Y)

Ultra high efficiency coalescing filters with active carbon pack

Carbon pack assists in the removal of hydro-carbon gases and odours

High intensity blue colour change indication (64 Series)



### TECHNICAL DATA

#### Medium:

Compressed air only

#### Maximum inlet pressure:

17 bar

#### Remaining oil content:

0,003 mg/m<sup>3</sup> (at 21° C)

#### Particle removal:

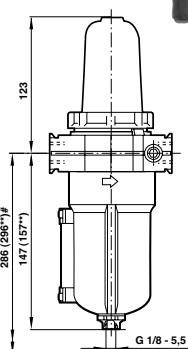
To 0,01 µm

#### Ambient temperature:

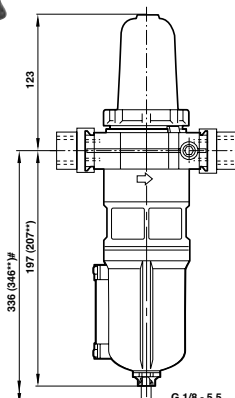
-20°C to +65°C

Consult our Technical Service for use below +2°C

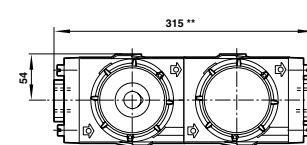
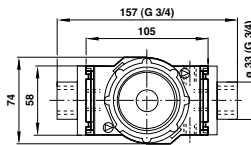
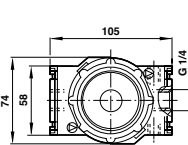
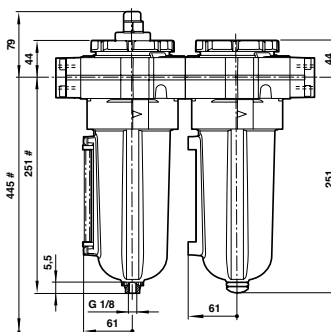
F64B



F64L



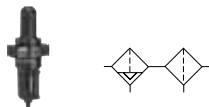
FFV68



\*\*Manual drain. # Minimum clearance required to remove bowl

### Models

F64B/L SERIES AUTO DRAIN Model	Port size	Flow* (dm <sup>3</sup> /s)
--------------------------------------	-----------	-------------------------------



### Accessories

Wall mounting bracket	3/2 Shut-off valve	Silencer (shut-off valve)
-----------------------	--------------------	---------------------------



### Service Kit

Auto drain
------------



F64B-2GN-ARO	G1/4	7	74504-50	T64T-2GB-P1N	T40B1800	F64B-KITA0V
F64L-3GN-ARO	G3/8	11	74504-50	T64T-2GB-P1N	T40B1800	F64L-KITA0V
F64L-4GN-ARO	G1/2	11	74504-50	T64T-2GB-P1N	T40B1800	F64L-KITA0V

FFV68 SERIES AUTO DRAIN Model	Port size	Flow* (dm <sup>3</sup> /s)
-------------------------------------	-----------	-------------------------------



Wall mounting bracket	3/2 Shut-off valve	Silencer (shut-off valve)
-----------------------	--------------------	---------------------------



Auto drain
------------



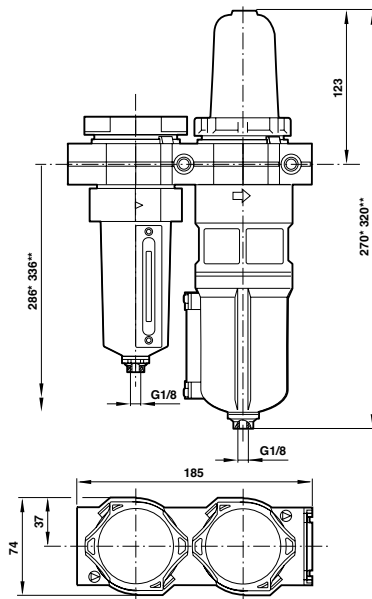
FFV68-408	G1/2	25	18-001-979	T68H-4GB-B2N	T40B2800	F68C-KITA0C, F68V-KIT00V
FFV68-608	G3/4	35	18-001-979	T68H-6GB-B2N	T40B2800	F68H-KITA0C, F68V-KIT00V
FFV68-808	G1	60	18-001-979	T68H-8GB-B2N	T40B2800	F68H-KITA0C, F68V-KIT00V

\* To maintain stated oil at 6,3 bar inlet pressure

# OLYMPIAN PLUS PLUG-IN SYSTEM

## Breathing air sets

FFB64 – G1/4 to G3/8



\* 1 mask model \*\*2 mask model

Pre-assembled combinations include a general purpose pre-filter and 'Ultraire'® oil/oil vapour removal filter

Activated carbon pack assists in the removal of hydro-carbon gases and odours

Pre filter extends life of oil removal filter

### TECHNICAL DATA

#### Medium:

Compressed air only

#### Maximum inlet pressure:

17 bar

#### Remaining oil content:

0,003 mg/m<sup>3</sup> (at 21°C)

#### Particle removal:

To 0,01 µm

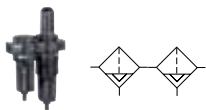
#### Ambient temperature:

-20°C to +65°C

Consult our Technical Service for use below +2°C

### Models

FFB64 SERIES AUTO DRAIN Model	Port size	Flow (dm <sup>3</sup> /s)	Number of masks	Primary pre-filter (µm)
-------------------------------------	--------------	------------------------------	--------------------	----------------------------



FFB64-208	G1/4	7	1	5
FFB64-308	G3/8	11	2	5

For service kit numbers refer to individual units

### Accessories

Wall mounting bracket	Silencer (shut-off valve)	3/2 shut-off valve
--------------------------	------------------------------	-----------------------



74504-50	T40B1800	T64T-2GB-P1N
74504-50	T40B1800	T64T-3GB-P1N

# OLYMPIAN PLUS PLUG-IN SYSTEM

## Pressure regulators

R64G, R68G – G1/4 to G1 1/2

Diaphragm and balanced valve design ensure good regulation characteristics

Non-rising adjusting knob has snap-action lock

### TECHNICAL DATA

#### Medium:

Compressed air only

#### Maximum inlet pressure:

17 bar (R64G)

20 bar (R68G)

#### Gauge ports:

Rc1/8

#### Ambient temperature:

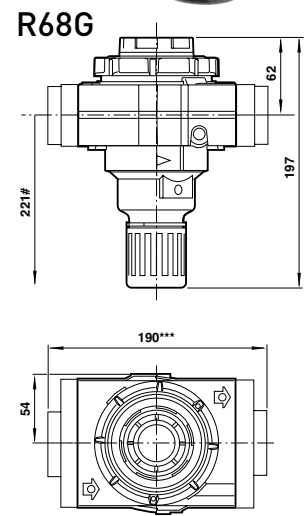
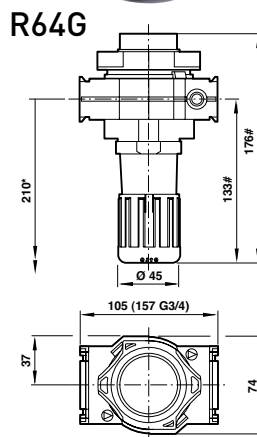
-20°C to +80°C

Consult our Technical Service for use below +2°C

#### Pressure range:

R64G: 0,3...10 bar

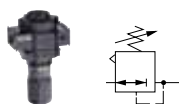
R68G: 0,4...8 bar



\*Minimum clearance required to remove unit from yoke  
 \*\*\*For 1 1/4 and 1 1/2 ported yokes add 10 mm  
 # Reduces by 4 mm with knob in locked position

### Models

R64G SERIES Model	Port size	Flow* [dm <sup>3</sup> /s]
-------------------	-----------	----------------------------



R64G-2GK-RMN	G1/4	35
R64G-3GK-RMN	G3/8	80
R64G-4GK-RMN	G1/2	120
R64G-6GK-RMN	G3/4	120

### Accessories

Wall mounting bracket	Gauge 0 ... 10 bar	3/2 Shut-off valve**	Silencer (shut-off valve)	Tamper resistant kit
-----------------------	--------------------	----------------------	---------------------------	----------------------

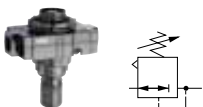


### Service Kit

Service Kit
-------------



R68G SERIES Model	Port size	Flow* [dm <sup>3</sup> /s]
-------------------	-----------	----------------------------



R68G-6GK-RLN	G3/4	150
R68G-8GK-RLN	G1	180
R68G-AGK-RLN	G1 1/4	180
R68G-BGK-RLN	G1 1/2	180

Wall mounting bracket	Gauge 0 ... 10 bar	3/2 Shut-off valve	Silencer (shut-off valve)	Tamper resistant kit
-----------------------	--------------------	--------------------	---------------------------	----------------------



Service Kit
-------------



\* Typical flow with 10 bar inlet pressure, 6,3 bar set pressure 1 bar drop from set  
 For replacement regulator (without yoke) substitute 'N' at the 5th and 6th digits eg: R68G-NNK-RLN

# OLYMPIAN PLUS PLUG-IN SYSTEM

## Filter/regulators

B64G, B68G – G1/4 to G1 1/2

- High efficiency water removal
- Good regulation characteristics
- Non-rising adjusting knob has snap-action lock

### TECHNICAL DATA

- Medium:**  
Compressed air only
- Maximum inlet pressure:**  
17 bar
- Gauge ports:**  
Rc1/8
- Ambient temperature:**  
-20°C to +80°C  
Consult our Technical Service for use below +2°C
- Pressure range:**  
B64G: 0,3...10 bar  
B68G: 0,4...8 bar



# Minimum clearance required to remove bowl. ## Reduces by 4 mm with knob in locked position  
\*\* Knob in locked position

### Models

B64G SERIES AUTO DRAIN Model	MANUAL DRAIN Model	Port size	Flow* [dm³/s]
		G1/4	30
		G3/8	76
		G1/2	106
		G3/4	106

### Accessories

Wall mounting bracket	Gauge 0...10 bar	3/2 Shut-off valve	Tamper resistant kit	Silencer (shut-off valve)

### Service Kit

Auto drain	Manual drain

B68G SERIES AUTO DRAIN Model	MANUAL DRAIN Model	Port size	Flow* [dm³/s]
		G3/4	240
		G1	240
		G1 1/4	240
		G1 1/2	240

Wall mounting bracket	Gauge 0...10 bar	3/2 Shut-off valve	Tamper resistant kit	Silencer (shut-off valve)

Auto drain	Manual drain

\* Typical flow with 10 bar inlet pressure, and 1 bar set pressure and 1 bar drop from set  
For replacement filter/regulator (without yoke) substitute "N" at the 5<sup>th</sup> and 6<sup>th</sup> digits eg. B68G-NNK-AR3-RLN

# OLYMPIAN PLUS PLUG-IN SYSTEM

## Lubricators

L64, L68 – G1/4 to G1 1/2

Micro-fog plug-in lubricators for best lubrication in general purpose pneumatic applications

### TECHNICAL DATA

#### Medium:

Compressed air only

#### Maximum inlet pressure:

17 bar

#### Start point:

L64: 1,5 dm<sup>3</sup>/s

L68: 6 dm<sup>3</sup>/s

#### Bowl Capacity (litre):

L64: 0,2

L68: 0,5

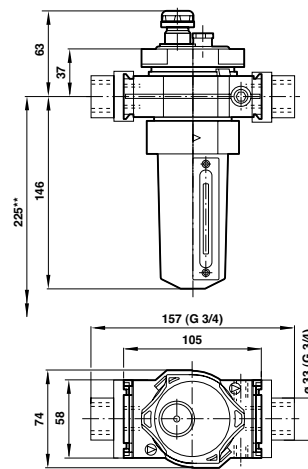
#### Ambient temperature:

-20°C to +80°C

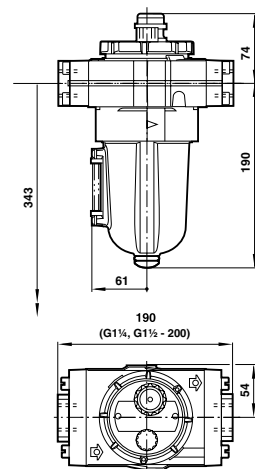
Consult our Technical Service for use below +2°C



L64







L68






\*\* Minimum clearance required to remove bowl


### Models





L64 SERIES Model	Port size	Flow* (dm <sup>3</sup> /s)
	G1/4	25
	G3/8	62
	G1/2	72
	G3/4	72




### Accessories


Wall mounting bracket	3/2 Shut-off valve	Silencer (shut-off valve)
		
74504-50	T64T-2GB-P1N	T40B1800
74504-50	T64T-3GB-P1N	T40B1800
74504-50	T64T-4GB-P1N	T40B1800
74504-50	T64T-6GB-P1N	T40B1800

### Service Kit


L64M-KIT
L64M-KIT
L64M-KIT
L64M-KIT

L68 SERIES Model	Port size	Flow* (dm <sup>3</sup> /s)
	G3/4	200
	G1	200
	G1 1/4	200
	G1 1/2	200

Wall mounting bracket	3/2 Shut-off valve	Silencer (shut-off valve)
		
18-001-979	T68H-6GB-B2N	T40B2800
18-001-979	T68H-8GB-B2N	T40B2800
18-001-979	T68H-AGB-B2N	T40B2800
-	T68H-BGB-B2N	T40B2800


L68M-KIT
L68M-KIT
L68M-KIT
L68M-KIT

\* Typical flow with 6,3 bar inlet, 0,5 bar pressure drop. To order a basic unit without yoke substitute 'N' at the 5th and 6th letters respectively e.g. L68M-NNP-EDN  
Models listed are Micro-fog. For Oil-fog models, including kits, replace 'M' at the 4th digit by 'C' e.g. L68C-4GP-EDN

# OLYMPIAN PLUS PLUG-IN SYSTEM

## Soft start/dump valves

P64F & P68F – G1/4 ... G3/4



- Assists machine designers in complying with the European Machinery Directive
- Can help existing machinery to comply with PWER (Provision and Use of Work Equipment Regulations)
- Controlled increase of downstream pressure on start up
- Solenoid, air pilot or manual operator
- High forward flow capacity
- High flow dump facility

### TECHNICAL DATA

**Medium:**

Compressed air

**Maximum operating pressure:**

For solenoid operated versions: 10 bar

For pilot operated versions: 17 bar

**Minimum operating pressure:**

3 bar

**Ambient temperature:**

-20°C to +80°C (solenoid version up to +50°C)

Consult our Technical Service for use below +2°C

**Air pilot port:**

P64F: Rc1/4      P68F: G1/4

**Exhaust port:**

P64F: G1/2      P68F: G1

**Maximum flow:**

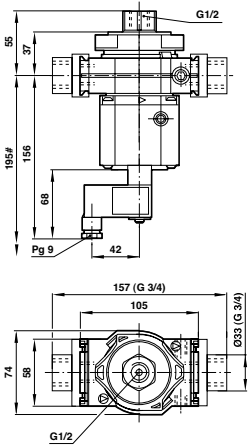
P64F: 57dm<sup>3</sup>/s      P68F: 147dm<sup>3</sup>/s

Note: Maximum flow with 6,3 bar inlet pressure and pressure drop of 0,5 bar

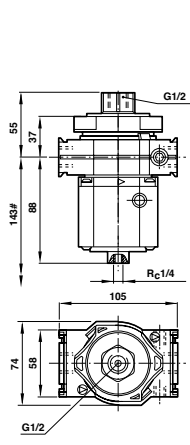
**Snap pressure:**

Full flow when downstream pressure reaches 50-80% of inlet pressure

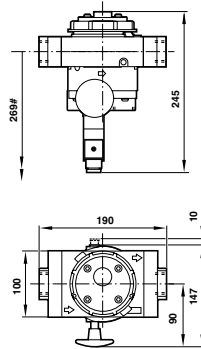
**P64F**  
Solenoid



**P64F**  
Air Pilot



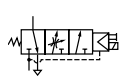
**P68F**



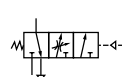
# Minimum clearance required to remove unit

### Models

P64 F & P68 F SERIES – 24V d.c.  
SOLENOID PILOT OPERATED      AIR PILOT OPERATED  
Model      Model      Port size



Solenoid pilot operated



Air pilot operated

P64F-2GC-PFN	P64F-2GA-NNN	G1/4
P64F-3GC-PFN	P64F-3GA-NNN	G3/8
P64F-4GC-PFN	P64F-4GA-NNN	G1/2
P64F-6GC-PFN	P64F-6GA-NNN	G3/4
P68F-6GH-NPN	-	G3/4
P68F-8GH-NPN	-	G1
P68F-AGH-NPN	-	G1 1/4
P68F-BGH-NPN	-	G1 1/2

### Accessories

Wall mounting bracket      3/2 Shut-off valve      Silencer (dump valve)      Silencer (shut-off valve)      Basic solenoid plug



74504-50	T64T-2GB-P1N	MB004B	T40B1800	0657868000000000
74504-50	T64T-3GB-P1N	MB004B	T40B1800	0657868000000000
74504-50	T64T-4GB-P1N	MB004B	T40B1800	0657868000000000
74504-50	T64T-6GB-P1N	MB004B	T40B1800	0657868000000000
18-001-979	T68C-6GB-B2N	MB008B	-	M/P15737
18-001-979	T68C-8GB-B2N	MB008B	-	M/P15737
18-001-978	T68C-AGB-B2N	MB008B	-	M/P15737
-	T68C-BGB-B2N	MB008B	-	M/P15737

# OLYMPIAN PLUS PLUG-IN SYSTEM

## Pressure relief valves

V64H, V68H – G1/4 to G1

Olympian relief valves protect compressed air systems from over-pressurisation

High relief capacity, sensitive and accurate

Threaded relief port for silencer or piped exhaust

Norgren pressure relief valves comply with category O(S.E.P.) and category 1 of the Pressure Equipment Directive 97/23/EC.

### TECHNICAL DATA

#### Medium:

Compressed air only

#### Gauge ports:

Rc1/8

#### Relief port:

G1/2 (V64H), G1 (V68H)

#### Ambient temperature:

-20°C to +80°C

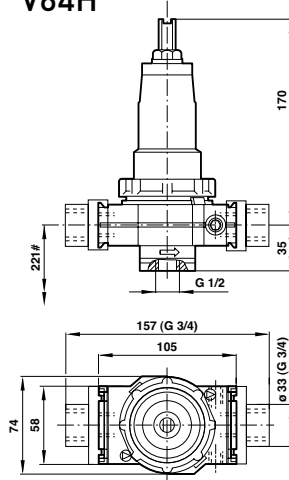
Consult our Technical Service for use below +2°C

#### Relief pressure adjustment range:

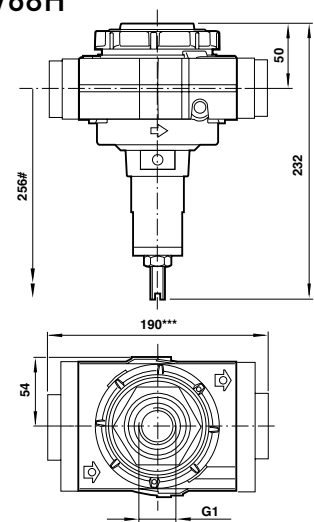
1 ... 10 bar



V64H



V68H





















\*\*\* For 1 1/4 and 1 1/2 ported yokes add 10 mm  
# Minimum clearance required to remove unit from yoke

### Models

### Accessories

### Service Kit

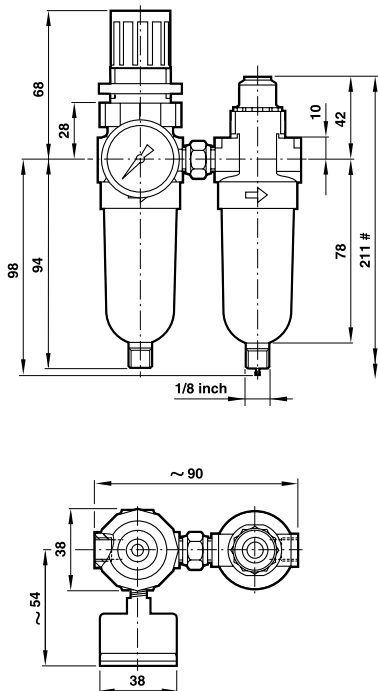
V64H SERIES		Wall mounting bracket	Tamper resistant kit	Gauge 0 ... 10 bar	Silencer (relief valve)	3/2 shut-off valve	Silencer (shut-off valve)	
Model	Port size							
								
V64H-2GD-RMN	G1/4	74504-50	1581-90	18-013-013	MB004B	T64T-2GB-P1N	T40B1800	V64H-KIT
V64H-3GD-RMN	G3/8	74504-50	1581-90	18-013-013	MB004B	T64T-3GB-P1N	T40B1800	V64H-KIT
V64H-4GD-RMN	G1/2	74504-50	1581-90	18-013-013	MB004B	T64T-4GB-P1N	T40B1800	V64H-KIT
V64H-6GD-RMN	G3/4	74504-50	1581-90	18-013-013	MB004B	T64T-6GB-P1N	T40B1800	V64H-KIT
V68H SERIES		Wall mounting bracket	Tamper resistant kit	Gauge 0 ... 10 bar	Silencer (relief valve)	3/2 shut-off valve	Silencer (shut-off valve)	
Model	Port size							
								
V68H-6GD-RMN	G3/4	18-001-979	1581-90	18-013-013	MB008B	T68H-6GB-B2N	T40B2800	V68H-KIT
V68H-8GD-RMN	G1	18-001-979	1581-90	18-013-013	MB008B	T68H-8GB-B2N	T40B2800	V68H-KIT



# MINIATURE UNITS, GENERAL PURPOSE

## Combination filter/regulators and lubricators

P1H – G1/8, G1/4



# Minimum clearance required to remove bowl

Combinations of filter-regulators and lubricators can be ordered as pre-assembled units

Complete control of filtration, regulation and lubrication at a single point

Micro-fog versions for most general purpose pneumatic applications

### TECHNICAL DATA

**Medium:**

Compressed air only

**Maximum inlet pressure:**

10 bar

**Ambient temperature:**

-20°C to +50°C

Consult our Technical Service for use below +2°C

**Pressure range:**

0,3 ... 7 bar

### EXPRESS LINKS

**Have you thought about...**

Shut-off valves.

See page 280



### Models

P1H SERIES AUTO DRAIN Model	MANUAL DRAIN Model	Port size
P1H-100-A3QG	P1H-100-M3QG	G1/8
P1H-200-A3QG	P1H-200-M3QG	G1/4

### Accessories

Neck mounting bracket	Gauge 0 ... 10 bar
18-025-003	18-013-989
18-025-003	18-013-989

\* Typical flow with 10 bar inlet pressure 6,3 bar set pressure and a 1 bar droop from set

# MINIATURE UNITS, GENERAL PURPOSE Filter

F07 – G1/8, G1/4

Direct ported filters with high water removal efficiency

Automatic drains supplied as standard

High flow miniature unit

Transparent bowl for 360° visibility

## TECHNICAL DATA

### Medium:

Compressed air only

### Maximum inlet pressure:

10 bar

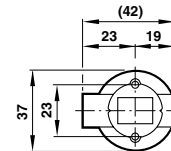
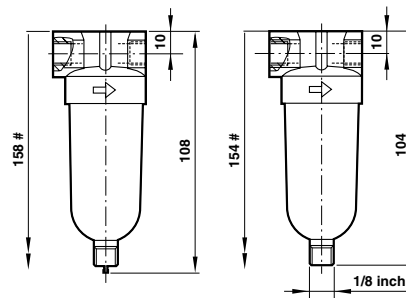
### Ambient temperature:

-34°C to +50°C

Consult our Technical Service for use below +2°C









### Manual drain    Auto drain






# Minimum clearance required to remove bowl

## Models

F07 SERIES AUTO DRAIN Model	MANUAL DRAIN Model	Port size	Flow* (dm <sup>3</sup> /s)
			9
F07-100-A3TG	F07-100-M3TG	G1/8	9
			11,5
F07-200-A3TG	F07-200-M3TG	G1/4	11,5

## Accessories

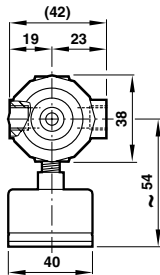
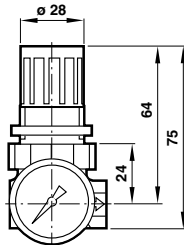
Wall mounting bracket	Auto drain	Manual drain
		
5939-06	F07-KITA40	F07-KITM40
5939-06	F07-KITA40	F07-KITM40

\* Typical flow with 6,3 bar inlet pressure and 0,5 bar pressure drop

# MINIATURE UNITS, GENERAL PURPOSE

## Pressure regulator

R07 – G1/8, G1/4



Ported regulators for general purpose  
pneumatic applications

Relieving operation as standard

Non-rising adjusting knob with snap-action lock

### TECHNICAL DATA

#### Medium:

Compressed air only

#### Maximum inlet pressure:

20 bar

#### Gauge ports:

Rc1/8

#### Ambient temperature:



-34°C to +65°C

Consult our Technical Service for use below +2°C





#### Pressure range:

0,3 ... 7 bar


### Models

R07 SERIES	Port size	Outlet pressure range	Flow* (dm <sup>3</sup> /s)
Model			
			
R07-100-RNKG	G1/8	0,3 to 7 bar	6,5
R07-200-RNKG	G1/8	0,3 to 7 bar	6,5
R07-105-RNMG	G1/4	0,5 to 10 bar	7
R07-205-RNMG	G1/4	0,5 to 10 bar	7

### Accessories

Neck mounting bracket (incl. nut)	Mounting nut only plastic	Mounting nut only metal	Gauge
			
18-025-003	2962-89	2962-04	18-013-989
18-025-003	2962-89	2962-04	18-013-989
18-025-003	2962-89	2962-04	18-013-989
18-025-003	2962-89	2962-04	18-013-989

### Service Kit

Service Kit

R07-KITR
R07-KITR
R07-KITR
R07-KITR

\* Typical flow with 10 bar inlet pressure, 6,3 bar set pressure and 1 bar drop from set

# MINIATURE UNITS, GENERAL PURPOSE

## Filter regulator

B07 – G1/8, G1/4

Filter-regulators for all general purpose pneumatic applications

High performance design provides high flow with minimum pressure drop

Non-rising adjusting knob has snap-action lock

Transparent bowl for 360° visibility

### TECHNICAL DATA

**Medium:**

Compressed air only

**Maximum inlet pressure:**

10 bar

**Gauge ports:**

Rc1/8

**Pressure range:**

0,3...7 bar

**Ambient temperature:**

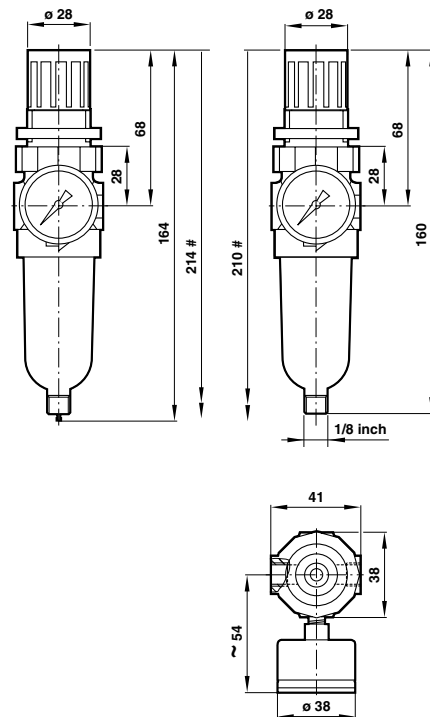
-34°C to +50°C

Consult our Technical Service for use below +2°C







Manual drain

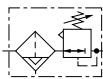
Auto drain







# Minimum clearance required to remove bowl

### Models

B07 SERIES AUTO DRAIN Model	MANUAL DRAIN Model	Port size	Flow* (dm <sup>3</sup> /s)
		G 1/8	6,2
		G 1/4	6,5



### Accessories

Neck mounting bracket (incl. nut)	Mounting nut only plastic	Mounting nut only metal	Gauge
			
18-025-003	2962-89	2962-04	18-013-989
18-025-003	2962-89	2962-04	18-013-989

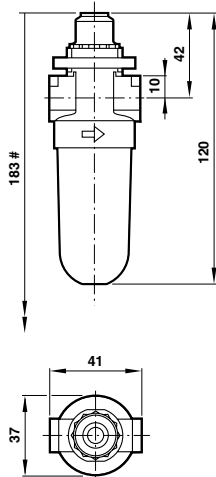
### Service Kit

Auto drain	Manual drain
	
B07-KITA40R	B07-KITM40R
B07-KITA40R	B07-KITM40R

\* Typical flow with 10 bar inlet pressure, 6,3 bar set pressure and 1 bar drop

# MINIATURE UNITS, GENERAL PURPOSE Lubricators

L07 – G1/8, G1/4



# Minimum clearance required to remove bowl



Micro-fog lubricators provide a fine mist for most general purpose pneumatic applications  
Transparent bowl for 360° visibility

## TECHNICAL DATA

**Medium:**

Compressed air only

**Maximum inlet pressure:**

10 bar

**Start point:**

0,24 dm<sup>3</sup>/s



Minimum flow required for lubricator operation at 6,3 bar inlet pressure

**Ambient temperature:**

-20°C to +50°C

Consult our Technical Service for use below +2°C

### Models


L07 SERIES	Port size	Flow* (dm <sup>3</sup> /s)
Model		
		
		
L07-100-MPQG	G1/8	5
L07-200-MPQG	G1/4	6,7

### Accessories

Neck mounting bracket

18-025-003
18-025-003

### Service Kit


L07-KIT
L07-KIT

\*Typical flow with 6,3 bar inlet pressure and 0,5 bar pressure drop

# MINIATURE UNITS, GENERAL PURPOSE

## Pressure relief valve – Diaphragm type

V07 – G1/8, G1/4

Protect compressed air systems  
from over-pressurisation

Norgren pressure relief valves comply with category O(S.E.P.)  
and category 1 of the Pressure Equipment Directive 97/23/EC.

### TECHNICAL DATA

**Medium:**

Compressed air only

**Gauge ports:**

Rc1/8

**Relief port:**

As inlet port

**Pressure range:**

0,3...9bar

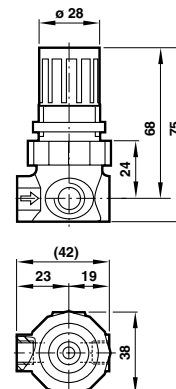
**Ambient temperature:**

-34°C to +65°C

Consult our Technical Service for use below +2°C

**Relief pressure adjustment range:**

0,3 ... 9 bar



### Models

V07 SERIES

Model

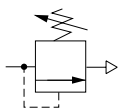
Port size

### Accessories

Neck mounting bracket

Gauge

### Service Kit



V07-100-NNLG

G1/8

18-025-003

18-013-989

V07-KIT

V07-200-NNLG

G1/4

18-025-003

18-013-989

V07-KIT

# MAINLINE GENERAL PURPOSE UNITS

## General purpose filters

F18 – G1/2 and 2



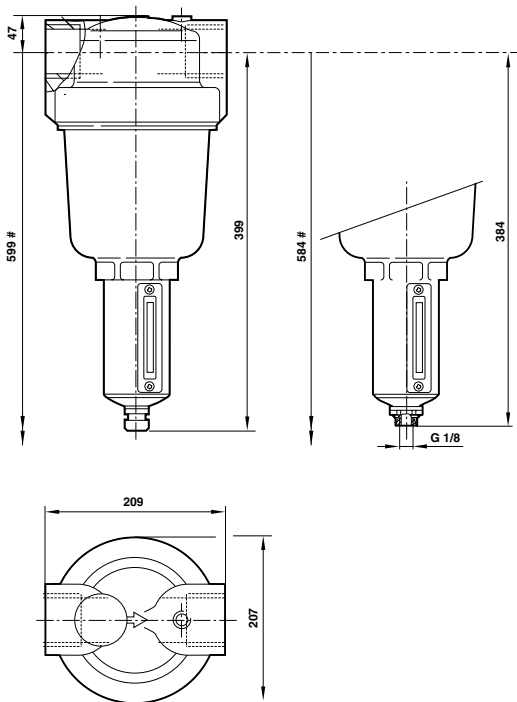
- Direct ported filter with high water removal efficiency
- High flow with minimal pressure drop
- Highly visible prismatic liquid level indicator lens
- Two gauge ports on top of the body for installation of pressure gauges
- Can be disassembled without removal from the airline

### TECHNICAL DATA

- Fluid:** Compressed air
- Maximum pressure:** 17 bar
- Operating temperature:** -20° ... +80°C
- Particle removal:** 5 or 40 µm

Manual drain

Auto drain



# Minimum clearance required to remove bowl

### Models

F18 Model	Port size	Flow* (dm³/s)	Element Size	Drain	Bowl
-----------	-----------	---------------	--------------	-------	------

### Accessories

Element
---------

### Service Kit

Service Kit
-------------

<b>F18-B00-A1DG</b>	G1 1/2	765	5 µm	Auto	Metal	5882-97	F18-100A
<b>F18-B00-A3DG</b>	G1 1/2	765	40 µm	Auto	Metal	5882-98	F18-100A
<b>F18-C00-A1DG</b>	G2	765	5 µm	Auto	Metal	5882-97	F18-100A
<b>F18-C00-A3DG</b>	G2	765	40 µm	Auto	Metal	5882-98	F18-100A

\*Typical flow with a 40 µm element at 6,3 bar inlet pressure and 0,5 bar pressure drop

# MAINLINE PILOT OPERATED REGULATORS

## R18 Series

1 1/2 and 2"

The R18 remote pilot operated regulator can be installed at any point in the compressed air system without regard to accessibility – pilot regulator can be installed in the most convenient location

The R18 with conventional integral pilot enables easy pressure adjustment at the regulator

Balanced valve minimises effect of changes in inlet pressure on outlet pressure

Constant bleed feature in pilot regulator provides quick response and minimum dead-band

Exceptionally high relief flow

### TECHNICAL DATA

**Fluid:**

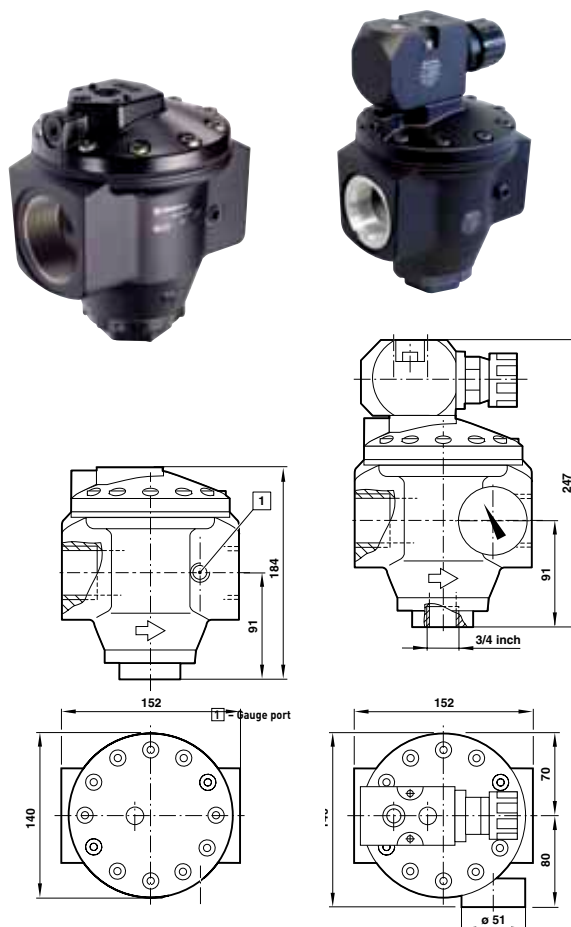
Compressed air

**Inlet pressure range:**



0,7 to 31 bar

**Operating temperature:**





-18° to +80°C





### Models





R18 REMOTE PILOT					
Model	Port size	Flow* (dm³/s)	Outlet pressure	Operation	Adjustment method
 R18-B00-RNXG	G1 1/2	950 dm³/s	0,16 ... 17	Relieving	Remote pilot
 R18-C00-RNXG	G2	950 dm³/s	0,16 ... 17	Relieving	Remote pilot

### Accessories

Exhaust silencer	Gauge adaptor	Gauge	Service Kit
			
MB006B	150232818	18-013-014	R18-100R

### Service Kit

R18 INTEGRAL PILOT					
Model	Port size	Flow* (dm³/s)	Outlet pressure	Operation	Adjustment method
 R18-B05-RNLG	G1 1/2	950 dm³/s	0,3 ... 8,5	Relieving	Integral pilot
 R18-C05-RNLG	G2	950 dm³/s	0,3 ... 8,5	Relieving	Integral pilot

Exhaust silencer	Gauge adaptor	Gauge	Service Kit
			
MB006B	150232818	18-013-014	5945-40

\* Max. flow with 7 bar inlet pressure, 6,3 bar outlet pressure and a droop of 1 bar from set  
Alternative models available – contact Norgren technical service

### EXPRESS LINKS

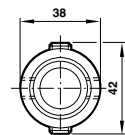
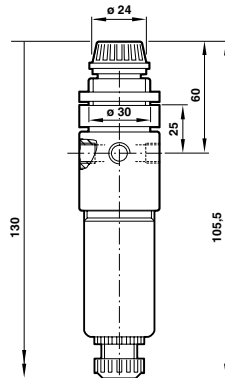
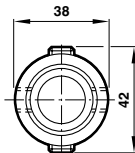
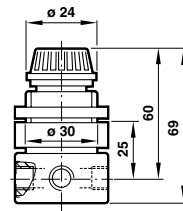
For details of...  
recommended remote pilot regulators  
See page 219





# GENERAL PURPOSE STAINLESS STEEL Regulators and filter-regulator

R05, B05 – 1/4" PTF



Metallic parts meet NACE\* recommendations  
 Miniature high corrosion resistant design  
 Adjusting knob has snap-action lock  
 Particularly suitable for marine, petro-chemical,  
 food processing, medical, dental and similar  
 applications  
 Panel mounting facility

\* National Association of Corrosion Engineers - recognised oil-field recommendation for resistance to sulphide stress cracking common in well-head and other corrosive environments.

## TECHNICAL DATA

### Medium:

Compressed air only

### Maximum inlet pressure:

17 bar

### Gauge ports:

1/8" PTF

### Pressure range:

0,3...8,6 bar

### Ambient temperature:


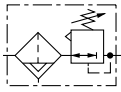




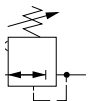



-34°C to +66°C

Consult our Technical Service for use below +2°C

## Models

## Accessories

## Service Kit

B05 SERIES			Gauge**	Mounting nut	Service Kit
Model	Port size	Flow* (dm³/s)			
 					
B05-233-M1LA	1/4 PTF	5	18-013-844	2962-89	B05-KITM05R
R05 SERIES			Gauge**	Mounting nut	Service Kit
Model	Port size	Flow* (dm³/s)			
 					
R05-200-RNLA	1/4 PTF	3	18-013-844	2962-89	R05-KITR

\* Typical flow with 10 bar inlet pressure, 6,3 pressure and 1 bar drop from set \*\* Not NACE standard

# STAINLESS STEEL GENERAL PURPOSE

## Filters, pressure regulators, lubricators

F22, R22, L22 – 1/2" NPTF

Lloyds Register Type Approved

Materials meet NACE\* recommendations  
(MR-0175, 2002 revision)

25 µm filter element as standard

Orientable metal bowls with sightglasses

\* National Association of Corrosion Engineers – recognised oil-field recommendation for resistance to sulphide stress cracking common in well-head and other corrosive environments

### TECHNICAL DATA

**Medium:**

Compressed air only

**Maximum inlet pressure:**

17 bar (F22, L22)

20 bar (R22)

**Gauge ports:**

1/4 PTF (R22)

**Pressure range:**

R22: 0,4...10 bar

**Operation:**

R22: Relieving

L22: Oil-fog

**Start Point:**

L22: 1,7 dm<sup>3</sup>/sat 6,3 bar

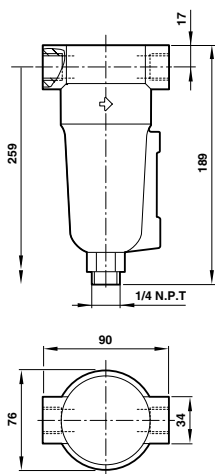
**Ambient temperature:**

-20°C ... +80°C

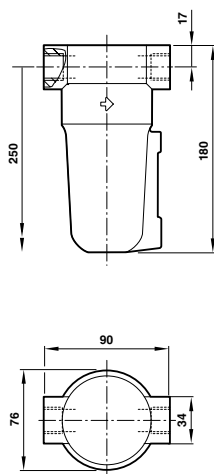
Consult our Technical Service for use below +2°C



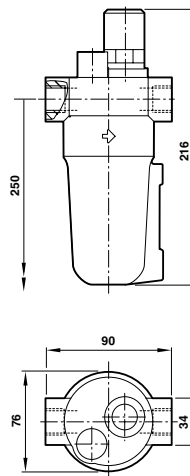
F22 Auto Drain



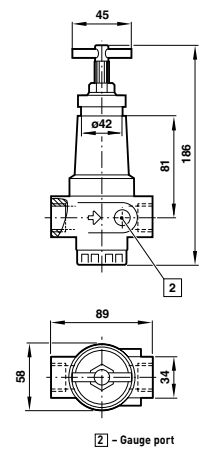
F22 Manual Drain



L22



R22



## STAINLESS STEEL GENERAL PURPOSE Filters, pressure regulators, lubricators

F22, R22, L22 – 1/2" NPTF

### Models

F22 SERIES AUTO DRAIN Model		MANUAL DRAIN Model	Port size	Flow* (dm <sup>3</sup> /s)	Wall mounting bracket	Auto drain	Manual drain
			1/2 PTF	57			
F22-400-A7DA	F22-400-M7DA				18-001-962	F22-KITA25	F22-KITM25

\* Typical flow with 10 bar inlet pressure, 6,3 bar pressure and 0,5 bar pressure drop

R22 SERIES AUTO DRAIN Model		Port size	Flow* (dm <sup>3</sup> /s)	Neck mounting bracket	Gauge**	Wall mounting bracket	Auto drain
		1/2 PTF	50				
R22-401-RNMA				18-001-959	18-013-909	18-001-962	R22-KITR

\* Typical flow with 10 bar inlet pressure, 6,3 bar set pressure and 1 bar drop from set \*\*Not to NACE standard

L22 SERIES AUTO DRAIN Model		Port size	Flow* (dm <sup>3</sup> /s)	Wall mounting bracket	
		1/2 PTF	48		
L22-400-OP8A				18-001-962	L22-KIT

\* Typical flow with 10 bar inlet pressure, 6,3 bar pressure and 0,5 bar pressure drop

### EXPRESS PLUS

#### Have you thought about...

Air preparation units not fixed with brackets can move and cause leaks, wasting costly air. Always fit a mounting bracket.

# STAINLESS STEEL GENERAL PURPOSE Filter/regulator

B38

Designed for use in corrosive environments

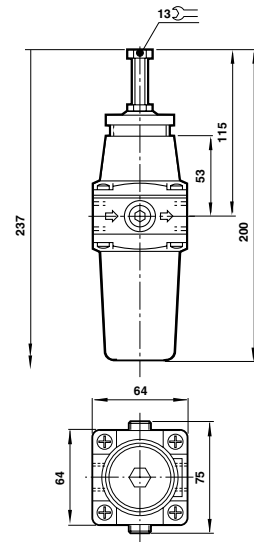
Metallic parts meet NACE Standard MR-01-75\*

Lloyd's register type approval

Applications include marine environments, oil and gas production, chemical and food processing, medical analysis

Relieving or non relieving models. Relieving models allow reduction of outlet pressure even when the system is dead-ended

\* National Association of Corrosion Engineers – recognised oil-field recommendation for resistance to sulphide stress cracking common in well-head and other corrosive environments



## TECHNICAL DATA

### Medium:

Compressed air only

### Maximum inlet pressure:

17 bar (autodrain)

31 bar (manual drain)

### Flow:

50 dm<sup>3</sup>/s

Typical flow with 12 bar inlet pressure, 8 bar set pressure and 1 bar droop from set

### Gauge ports:

1/4" PTF

### Relief port:

1/8" PTF

### Ambient temperature:

-40°C ... +80°C


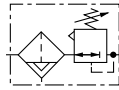
Consult our Technical Service for use below +2°C

### Particle removal:

5 µm or 25 µm filter element

## Models

## Accessories

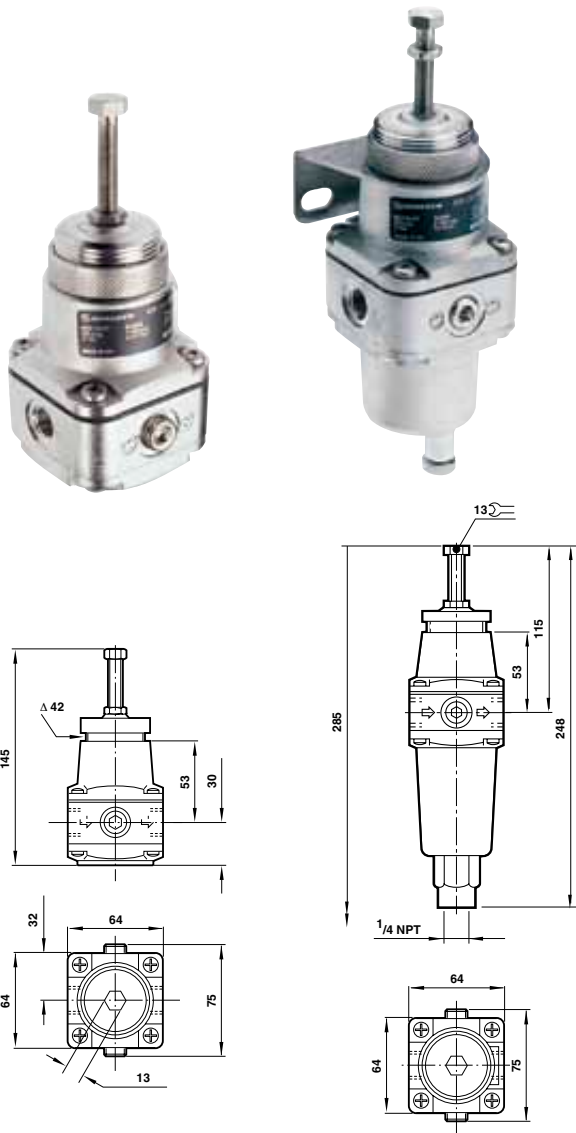
B38 SERIES Model	Port size	Outlet pressure range	Flow* (dm <sup>3</sup> /s)	Operation	Drain	Element	Neck mounting bracket & nut	Panel nut – only	Gauge	Plastic adjusting knob
										
B38-444-M1LA	1/2 PFT	0,3 ... 9 bar	50	Relieving	Manual	5 µm	18-001-973	5988-02	18-013-909	74630-04
B38-444-M2LA	1/2 PFT	0,3 ... 9 bar	50	Relieving	Manual	25 µm	18-001-973	5988-02	18-013-909	74630-04
B38-444-A1LA	1/2 PFT	0,3 ... 9 bar	50	Relieving	Automatic	5 µm	18-001-973	5988-02	18-013-909	74630-04
B38-444-A2LA	1/2 PFT	0,3 ... 9 bar	50	Relieving	Automatic	25 µm	18-001-973	5988-02	18-013-909	74630-04

\* Typical flow with 12 bar inlet pressure, 8 bar set pressure and 1 bar droop from set



# STAINLESS STEEL PRECISION Filter/regulator

R38, B38



Exceptionally high flow and relief flow characteristics

Easy to adjust even at high output pressures

Balanced valve minimises effect of variations in inlet pressure on outlet pressure

Relieving feature allows outlet pressure reduction even when the system is dead ended

Full flow gauge ports

Panel mounting facility

## TECHNICAL DATA

### Medium:

Compressed air

### Maximum inlet pressure:

20 bar \*

### Gauge ports:

G1/4 with 1/4 main, G3/8 with 3/8 main, G1/2 with all others

### Pressure range:




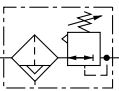
0,7...8 bar

### Ambient temperature:

-40°C ... +80°C

Consult our Technical Service for use below +2°C

## Models

R38 SERIES PRECISION PRESSURE REGULATOR							Neck mounting bracket & nut	Gauge	Plastic adjusting knob
Model	Port size	Outlet pressure range	Flow* (dm <sup>3</sup> /s)	Operation					
									
R38-240-RNCA	1/4 PFT	0,04 ... 2 bar	8	Relieving			18-001-973	18-013-913	74630-04
R38-240-RNFA	1/4 PFT	0,07 ... 4 bar	8	Relieving			18-001-973	18-013-913	74630-04
R38-240-RNMA	1/4 PFT	0,50 ... 10 bar	8	Relieving			18-001-973	18-013-909	74630-04
B38 SERIES PRECISION FILTER/REGULATOR							Neck mounting bracket & nut	Gauge	Plastic adjusting knob
Model	Port size	Outlet pressure range	Flow* (dm <sup>3</sup> /s)	Operation	Drain	Element			
									
B38-244-B1KA	1/4 PFT	0,25 ... 7 bar	8	Relieving	Manual	5 µm	18-001-973	18-013-909	74630-04
B38-244-B2KA	1/4 PFT	0,25 ... 7 bar	8	Relieving	Manual	25 µm	18-001-973	18-013-909	74630-04
B38-244-A1KA	1/4 PFT	0,25 ... 7 bar	8	Relieving	Automatic	5 µm	18-001-973	18-013-909	74630-04
B38-244-A2KA	1/4 PFT	0,25 ... 7 bar	8	Relieving	Automatic	25 µm	18-001-973	18-013-909	74630-04
B38-244-B1MA	1/4 PFT	0,5 ... 10 bar	8	Relieving	Manual	5 µm	18-001-973	18-013-909	74630-04
B38-244-B2MA	1/4 PFT	0,5 ... 10 bar	8	Relieving	Manual	25 µm	18-001-973	18-013-909	74630-04
B38-244-A1MA	1/4 PFT	0,5 ... 10 bar	8	Relieving	Automatic	5 µm	18-001-973	18-013-909	74630-04
B38-244-A2MA	1/4 PFT	0,5 ... 10 bar	8	Relieving	Automatic	25 µm	18-001-973	18-013-909	74630-04

\* Typical flow with 7 bar inlet pressure, 1 bar set pressure and 0,05 bar drop from set

# SPECIAL PURPOSE

## High flow pressure regulator

20AG – G1/2, G1

Ported regulators for general purpose  
pneumatic applications

Relieving operation as standard, optional non-relieving

Options include non-relieving models and alternative spring ranges

### TECHNICAL DATA

**Medium:**

Compressed air only

**Maximum inlet pressure:**

28 bar max.

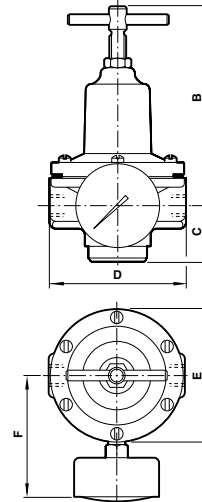
**Gauge ports:**

G1/8

**Ambient temperature:**

-20°C ... +80°C

Consult our Technical Service for use below +2°C



### MATERIALEN

**Body and bonnet:** zinc alloy

**Bottom plug:** brass

**Adjusting screw:** steel plated

**Elastomers:** synthetic rubber

### Dimensions

Series	B (max.)	C	D	E	F
20AG-X4G	125	35	85	85	125
20AG-X6G	185	40	115	125	160
20AG-X8G	185	40	115	125	160

### Models

20AG SERIES Model	Port size	Outlet pressure range	Flow* (dm³/s)	Operation method	Adjustment	Mounting
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### Accessories

Bracket	Gauge
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### Service Kit

|--|



20AG-X4G/PD100	G 1/2	0,1 ... 3,5 bar	60	Relieving	T Bar	Bracket	18-001-005	18-013-011	20AG-X4-100
20AG-X4G/PH100	G 1/2	0,2 ... 8,0 bar	60	Relieving	T Bar	Bracket	18-001-005	18-013-013	20AG-X4-100
20AG-X4G/PH102	G 1/2	0,2 ... 8,0 bar	60	Relieving	Plastic Knob	Bracket	18-001-005	18-013-013	20AG-X4-100
20AG-X4G/PH103	G 1/2	0,2 ... 8,0 bar	60	Relieving	T Bar	Panel Mounting	-	18-013-013	20AG-X4-100
20AG-X4G/PJ100	G 1/2	7 ... 16 bar	60	Relieving	T Bar	Bracket	18-001-005	18-013-014	20AG-X4-100
20AG-X4G/PJ103	G 1/2	7 ... 16 bar	60	Relieving	T Bar	Panel Mounting	-	18-013-014	20AG-X4-100
20AG-4G/PD100	G 1/2	0,1 ... 3,5 bar	60	Non-relieving	T Bar	Bracket	18-001-005	18-013-011	20AG-4-100
20AG-4G/PH100	G 1/2	0,2 ... 8,0 bar	60	Non-relieving	T Bar	Bracket	18-001-005	18-013-013	20AG-4-100
20AG-4G/PJ100	G 1/2	7 ... 16 bar	60	Non-relieving	T Bar	Bracket	18-001-005	18-013-014	20AG-4-100
20AG-X6G/PD100	G 3/4	0,1 ... 3,5 bar	80	Relieving	T Bar	Bracket	18-001-029	18-013-011	20AG-X8-100
20AG-X6G/PH100	G 3/4	0,2 ... 8,0 bar	80	Relieving	T Bar	Bracket	18-001-029	18-013-013	20AG-X8-100
20AG-6G/PH100	G 3/4	0,2 ... 8,0 bar	80	Non-relieving	T Bar	Bracket	18-001-029	18-013-013	20AG-8-100
20AG-X8G/PD100	G 1	0,1 ... 3,5 bar	100	Relieving	T Bar	Bracket	18-001-029	18-013-011	20AG-X8-100
20AG-X8G/PH100	G 1	0,2 ... 8,0 bar	100	Relieving	T Bar	Bracket	18-001-029	18-013-013	20AG-X8-100
20AG-X8G/PH102	G 1	0,2 ... 8,0 bar	100	Relieving	Plastic Knob	Bracket	18-001-029	18-013-013	20AG-X8-100
20AG-8G/PH100	G 1	0,2 ... 8,0 bar	100	Non-relieving	T Bar	Bracket	18-001-029	18-013-013	20AG-8-100

\* Typical flow with 7 bar inlet pressure, 4 bar set pressure and 1 bar drop from set

# SPECIAL PURPOSE 'MICRO TROL'

## High flow, high relief pressure regulator

R24 - G1/4 ... G1 1/4



Exceptionally high flow and relief flow characteristics

Easy to adjust even at high output pressures

Balanced valve minimises effect of variations in inlet pressure on outlet pressure

Panel mounted facility

### TECHNICAL DATA

**Medium:**

Compressed air only

**Maximum inlet pressure:**

20 bar max.

**Ambient temperature:**

0°C ... +80°C

Consult our Technical Service for use below +2°C

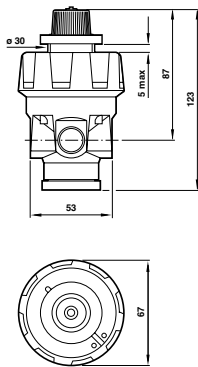
### MATERIALEN

**Body and bonnet:** zinc alloy

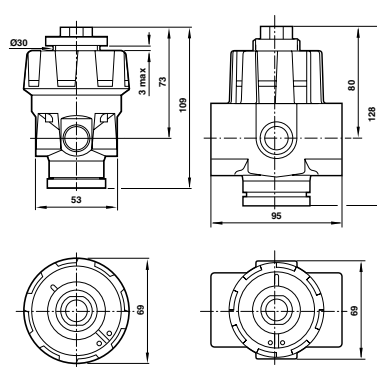
**Bottom plug and adjusting**

**knob (manual):** acetal resin


### Manual



### Air Pilot



### Models

R24 SERIES Model	Port size	Outlet pressure range	Flow* (dm <sup>3</sup> /s)	Operation method	Adjustment	Neck mounting bracket	Gauge adaptor	Gauge	Service Kit
									
R24-200-RNCG	G1/4	0,3 ... 2 bar	-	Relieving	Manual - Knob	18-999-412	150232818	18-013-010	5292-52
R24-200-RNFG	G1/4	0,3 ... 4 bar	-	Relieving	Manual - Knob	18-999-412	150232818	18-013-012	5292-52
R24-200-RNLG	G1/4	0,7 ... 8 bar	-	Relieving	Manual - Knob	18-999-412	150232818	18-013-013	5292-52
R24-200-RNSG	G1/4	0,7 ... 17 bar	-	Relieving	Manual - Knob	18-999-412	150232818	18-013-014	5292-52
R24-300-RNLG	G3/8	0,7 ... 8 bar	-	Relieving	Manual - Knob	18-999-412	150233818	18-013-013	5292-52
R24-300-RNSG	G3/8	0,7 ... 17 bar	-	Relieving	Manual - Knob	18-999-412	150233818	18-013-014	5292-52
R24-400-RNCG	G1/2	0,3 ... 2 bar	-	Relieving	Manual - Knob	18-999-412	150234818	18-013-010	5292-52
R24-400-RNFG	G1/2	0,3 ... 4 bar	-	Relieving	Manual - Knob	18-999-412	150234818	18-013-012	5292-52
R24-400-RNLG	G1/2	0,7 ... 8 bar	100	Relieving	Manual - Knob	18-999-412	150234818	18-013-013	5292-52
R24-400-RNSG	G1/2	0,7 ... 17 bar	-	Relieving	Manual - Knob	18-999-412	150234818	18-013-014	5292-52
R24-401-RNXG	G1/2	0,3 ... 17 bar	-	Relieving	Air Pilot	18-999-412	150234818	18-013-014	5292-54
R24-600-RNLG	G3/4	0,7 ... 8 bar	-	Relieving	Manual - Knob	18-999-412	150234818	18-013-013	5292-53
R24-601-RNXG	G3/4	0,3 ... 17 bar	-	Relieving	Air Pilot	18-999-412	150234818	18-013-014	5292-55
R24-800-RNLG	G1	0,7 ... 8 bar	300	Relieving	Manual - Knob	18-999-412	150234818	18-013-013	5292-53
R24-801-RNXG	G1	0,3 ... 17 bar	-	Relieving	Air Pilot	18-999-412	150234818	18-013-014	5292-55
R24-A00-RNLG	G1 1/4	0,7 ... 8 bar	-	Relieving	Manual - Knob	18-999-412	150234818	18-013-013	5292-53
R24-A01-RNXG	G1 1/4	0,3 ... 17 bar	-	Relieving	Air Pilot	18-999-412	150234818	18-013-014	5292-55

\* Typical flow with 10 bar inlet, 4 bar set pressure and 1 bar droop from set

# SPECIAL PURPOSE Pilot operated regulators

11-808, R18, 11-400/11-204

Can be installed at any point in the compressed air system without regard to accessibility – pilot regulator can be installed in the most convenient location

Can be used with conventional or feedback pilot regulator

Feedback pilot regulator senses downstream pressure and automatically adjusts pilot operated regulator outlet pressure

## TECHNICAL DATA

### Medium:

Compressed air

### Inlet pressure range:

20 bar (11-808, 11-204), 25 bar (11-400), 31 bar (R18)

### Ambient temperature:

-20° ... +80°C

Consult our Technical Service for use below +2°C

## MATERIALS

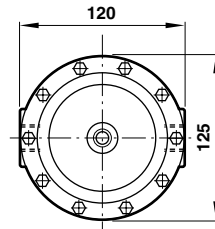
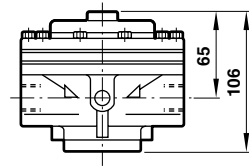
**Body:** zinc alloy (11-808, 11-204), aluminium alloy (R18)

**Bonnet:** aluminium alloy (11-808, R18), zinc alloy (11-204)

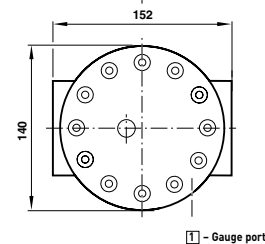
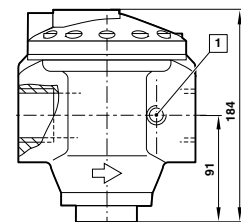
**Elastomers:** nitrile (11-808, R18), synthetic rubber (11-204)





11-808






R18





## Models





11-808 SERIES				
Model	Port size	Flow*	Outlet pressure range	Operation
	G3/4	180 dm <sup>3</sup> /s	20 bar Max.	Relieving
	G1	180 dm <sup>3</sup> /s	20 bar Max.	Relieving

## Accessories

Wall mounting bracket	Gauge	Service Kit
		
18-001-027	18-013-014	11-908-100
18-001-027	18-013-014	11-908-100

\* Max. flow with 8 bar inlet pressure, 6,3 bar outlet pressure and a droop of 1 bar from set

R18 SERIES				
Model	Port size	Flow*	Outlet pressure range	Operation
	G1 1/2	950 dm <sup>3</sup> /s	0,16 ... 17	Relieving
	G2	950 dm <sup>3</sup> /s	0,16 ... 17	Relieving

Exhaust silencer	Gauge adaptor	Gauge	Service Kit
			
MB006B	150232818	18-013-014	R18-100R
MB006B	150232818	18-013-014	R18-100R

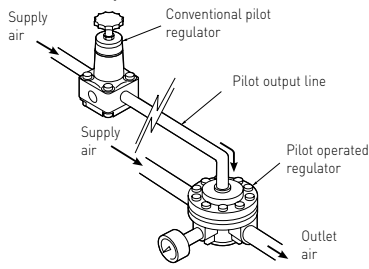
\* Max. flow with 7 bar inlet pressure. 6,3 bar outlet pressure and a droop of 1 bar from set  
Pilot method – Conventional or Feedback see diagrams



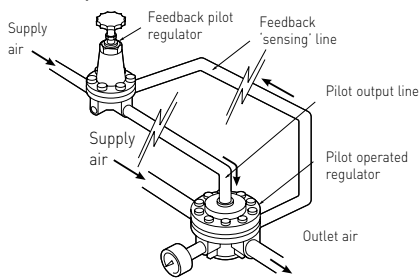
## SPECIAL PURPOSE Pilot operated regulators

11-808, R18, 11-400/11-204

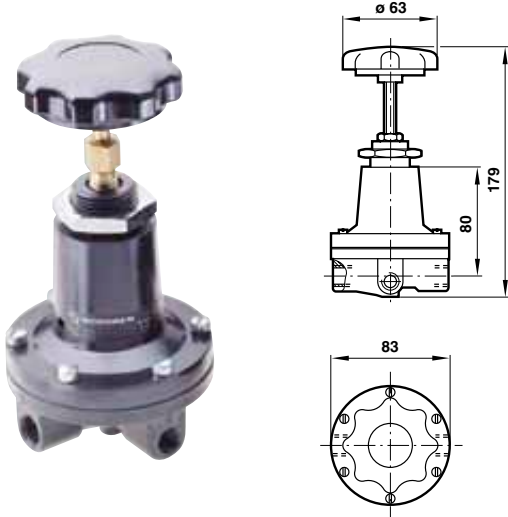
### Conventional pilot




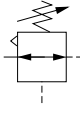



### Feedback pilot








Feedback pilot regulators give more sensitive control and quicker reaction to downstream pressure changes. Feedback 'sensing' line to be kept to minimum length (<200mm).



### Model – Conventional Pilot Regulators

11-400, 20AL SERIES						Bracket	Gauge	Service Kit
Model	Port size	Outlet pressure range	Operation option	Mounting				
								
11400-2G/PC100	G1/4	0,06 ... 2	Relieving	Bracket	18-001-005	18-013-010	11400-100	
11400-2G/PC103	G1/4	0,06 ... 2	Relieving	Panel	-	18-013-010	11400-100	
11400-2G/PE100	G1/4	0,06 ... 4	Relieving	Bracket	18-001-005	18-013-011	11400-100	
11400-2G/PE103	G1/4	0,06 ... 4	Relieving	Panel	-	18-013-011	11400-100	
11400-2G/PG100	G1/4	0,16 ... 7	Relieving	Bracket	18-001-005	18-013-012	11400-100	
11400-2G/PG103	G1/4	0,16 ... 7	Relieving	Panel	-	18-013-012	11400-100	
20AL-X2G/PK100	G1/4	7 ... 20	Relieving	Bracket	18-001-005	18-013-014	11400-100	

### Model – Feedback Pilot Regulators

11-204 SERIES						Bracket	Gauge	Service Kit
Model	Port size	Outlet pressure range	Operation option	Mounting				
								
11-204-004	G1/4	0,16 ... 7	Relieving	Panel/Bracket	18-001-005	18-013-012	11-204-100	
11-204-006	G1/4	4 ... 17	Relieving	Panel/Bracket	18-001-005	18-013-014	11-204-100	

# PRECISION INSTRUMENT

## Pressure regulator

11-818, R27

11-818

Precision instruments with integral pilot to ensure very close pressure control in a compact form

Unit double filters air before reaching pilot valve to help prevent leakage and malfunction

Panel mounting facility

\* Not recommended for dead-end applications

R27

High precision regulator using a control chamber instead of a spring, so increasing its sensitivity to any variations and eliminating any spring hysteresis

Perfect for dead-end applications

Excellent long term stability



11-818



R27

### TECHNICAL DATA

Medium:

11-818 - Compressed air, R27 - dry, oil free air filter to 25µm

Maximum inlet pressure:

11-818 Low pressure: 8 bar

11-818 Standard pressure: 10 bar

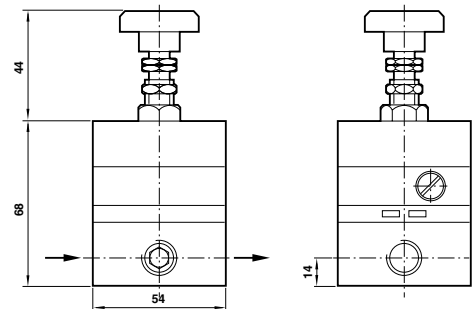
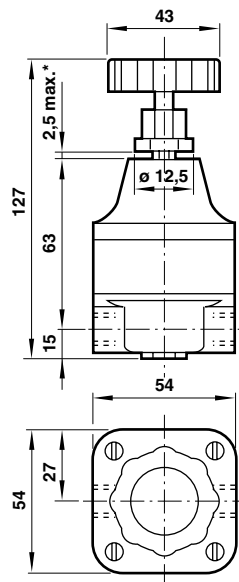
11-818 High pressure: 14 bar

R27: 10 bar (minimum 0,2 above output)

Ambient temperature:

11-818: 0 ... +70°C

R27: -20 ... +70°C



### Models

11-818 Series	Port size	Outlet pressure range (bar)	Flow* (dm³/s)	Accuracy # (bar)	Operation	Gauge Ports	Tamper proof adjusting screw	Panel mounting nut	
11-818-999	G1/4	0,02 ... 0,50 (low)		0,01	Relieving	-	-	3081-01	2787-96
11-818-998	G1/4	0,02 ... 0,50 (low)		0,01	Relieving	-	Tamper proof	3081-01	2787-96
11-818-100	G1/4	0,07 ... 4 (Standard)	8,0	0,03	Relieving	-	-	3081-01	2787-98
11-818-101	G1/4	0,07 ... 4 (Standard)	8,0	0,03	Relieving	-	Tamper proof	3081-01	2787-98
11-818-110	G1/4	0,4 ... 10 (high)		0,05	Relieving	-	-	3081-01	2787-97
11-818-987	G1/4	0,02 ... 0,50 (low)		0,01	Relieving	R1/4	-	3081-01	2787-96
11-818-993	G1/4	0,07 ... 4 (Standard)	8,0	0,03	Relieving	R1/4	-	3081-01	2787-98
11-818-991	G1/4	0,4 ... 10 (high)		0,05	Relieving	G1/4	-	3081-01	2787-97

\* Typical flow with 8 bar inlet pressure, 4 bar set pressure and 0.005 bar droop from set. # Typical mid range variance from set pressure with 7 bar inlet at 2 dm³/s flow

Note: 11-818 is not a constant bleed device, when being used under flow conditions no air is consumed. Air bleed is only effective under zero flow conditions as in a dead end application.

R27 Series	Port size	Outlet pressure range (bar)	Flow* (dm³/s)	Hysteresis/ repeatability#	Sensitivity	Operation	Gauge Ports
R27-200-RNCG	G1/4	0,14 ... 2,0 bar	8,0	< 0,05%	> 0,3 mbar	Relieving	G1/4
R27-200-RNFG	G1/4	0,14 ... 4,0 bar	8,0	< 0,05%	> 0,3 mbar	Relieving	G1/4
R27-200-RNLG	G1/4	0,14 ... 8,0 bar	8,0	< 0,05%	> 0,3 mbar	Relieving	G1/4

\* Maximum flow achieved under ideal conditions # Typical values at mid range

Note - R27 regulators are designed as constant bleed devices and consume air, typically less than 0.016dm³/s

### Accessories Service Kit

# AIR PREPARATION ACCESSORIES

## Gauges, Auto-drain, Drip leg drain

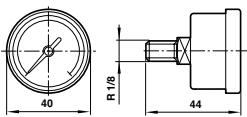


### GAUGES

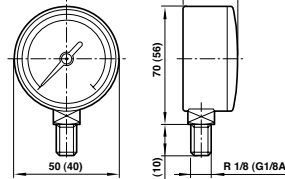
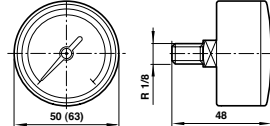
Monitor pressures in a compressed air system for optimum efficiency

Choice of pressure ranges

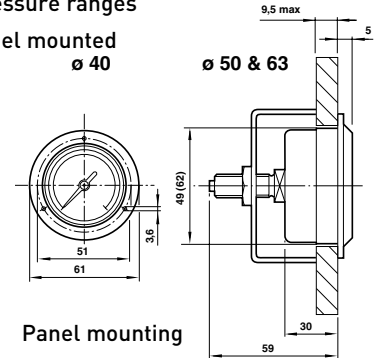
Direct or panel mounted  
 ø 40



Centre back



Bottom



Panel mounting

Standard Steel and plastic	Pressure range (bar)	Nominal diameter (mm)	Connection type / mounting	Port connection
18-013-887	0 ... 1	40	Centre Back	R1/8
18-013-991	0 ... 1,6	40	Centre Back	R1/8
18-013-886	0 ... 2,5	40	Centre Back	R1/8
18-013-990	0 ... 4	40	Centre Back	R1/8
18-013-885	0 ... 6	40	Centre Back	R1/8
18-013-989	0 ... 10	40	Centre Back	R1/8
18-013-884	0 ... 16	40	Centre Back	R1/8
18-013-908	0 ... 25	40	Centre Back	R1/8
18-013-010	0 ... 1,6	50	Centre Back	R1/8
18-013-011	0 ... 4	50	Centre Back	R1/8
18-013-012	0 ... 6	50	Centre Back	R1/8
18-013-013	0 ... 10	50	Centre Back	R1/8
18-013-014	0 ... 25	50	Centre Back	R1/8
18-013-893	0 ... 1	63	Centre Back	R1/8
18-013-892	0 ... 2,5	63	Centre Back	R1/8
18-013-891	0 ... 6	63	Centre Back	R1/8
18-013-856	0 ... 10	63	Centre Back	R1/8
18-013-855	0 ... 16	63	Centre Back	R1/8
18-013-888	0 ... 25	63	Centre Back	R1/8

Standard Steel and plastic	Pressure range (bar)	Nominal diameter (mm)	Connection type / mounting	Port connection
18-013-879	0 ... 1,6	40	Panel Mounted	G1/8A
18-013-878	0 ... 6	40	Panel Mounted	G1/8A
18-013-877	0 ... 10	40	Panel Mounted	G1/8A
18-013-858	0 ... 6	50	Panel Mounted	G1/8A
18-013-857	0 ... 10	50	Panel Mounted	G1/8A
18-013-883	0 ... 1,6	63	Panel Mounted	G1/4A
18-013-882	0 ... 6	63	Panel Mounted	G1/4A
18-013-852	0 ... 10	63	Panel Mounted	G1/4A
18-013-851	0 ... 16	63	Panel Mounted	G1/4A
18-013-024	0 ... 1,6	50	Bottom	R1/8
18-013-025	0 ... 4	50	Bottom	R1/8
18-013-026	0 ... 6	50	Bottom	R1/8
18-013-027	0 ... 10	50	Bottom	R1/8
18-013-028	0 ... 25	50	Bottom	R1/8
18-013-854	0 ... 10	63	Bottom	G1/4A
18-013-853	0 ... 25	63	Bottom	G1/4A

Stainless Steel	Pressure range (bar)	Nominal diameter (mm)	Connection type / mounting	Port connection
18-013-844	0 ... 10	40	Centre Back	1/8 NPT
18-013-913	0 ... 6	40	Centre Back	1/4 NPT
18-013-909	0 ... 10	40	Centre Back	1/4 NPT
18-013-905	0 ... 25	40	Centre Back	1/4 NPT

### DRIP LEG DRAIN

Fully automatic unit that can drain liquid from low points in compressed air systems



Model	Port size	Bowl
17-816-998	G1/2	Metal
17-816-999	G1/2	Transparent

### AUTO-DRAIN

Spare parts for filters and filter/regulators



Model	Series
4000-50R	Excelon 72, Excelon Pro
4000-51R	Excelon 73
3000-97	Excelon 74
6000-50	Olympian 64, 68

# CLASSIC RANGE

## MICRO-FOG LUBRICATOR

S3406-3S

For use with small air operated devices having a maximum air requirement of 170 litres/min at 5,5 bar or for machine bearing lubrication applications

### TECHNICAL DATA

**Port size:**

3/8 BSPT

**Oil reservoir capacity:**

1 litre

**Maximum pressure:**

10,5 bar

**Maximum temperature:**

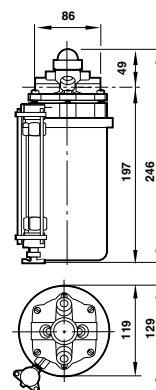
50°C

**Bearing inch rating:**



32 Maximum

**Performance – As a machine bearing lubricator**

Bearing Inches	Pressure Setting (bar)	Air Consumption (litres/min)
8	0,56	33
16	0,56 ... 0,9	33 ... 42
24	0,7 ... 1,4	37 ... 54
32	1,2 ... 1,7	51 ... 61



### Models

Order No.	Port size	Capacity	Accessories
			
S3406-3S/P315100	G3/8	1 litre	18-001-015

Note. For machine bearing lubricator applications these lubricators are recommended as replacements only products