> Compact design

Technical features

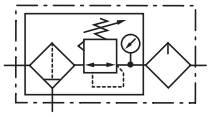
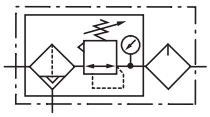
Fluid:
Compressed air
Maximum pressure:
10 bar (145 psi) Transparent bowl
17 bar (246 psi) Metal bowl
Pressure range:
0,3 ... 7 bar (4 ... 101 psi),
0,3 ... 3,5 bar (4 ... 50 psi),
0,1 ... 0,7 bar (1 ... 10 psi)
Filter element:
5 or 40 µm

Port size:
G1/8 or G1/4
Rc1/8 (Gauge)
Bowl:
31 ml
Flow:
Start point 0,24 dm^3/s
see below
Drain:
Manual or automatic

Ambient/Media temperature:
Transparent bowl
-34 ... +50°C (-29 ... +122°F)
Metal bowl
-34 ... +65°C (-29 ... +149°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:
Body: Zinc alloy
Bonnet: Acetal (Regulator)
Knob: Acetal
Bowl: Plastic or Zinc alloy
Filter element: Sintered PE
Valve: Brass
Sight dome: PA
Seals: NBR

Technical data, standard model - relieving

Symbol	Port size	Pressure range (bar)	Filter element (µm)	Flow *1) (dm^3/s)	Drain	Bowl	Gauge	Weight (kg)	Model
	G1/8	0,3 ... 7	40	3	Manual	Plastic	Standard	0,35	P1H-100-M3QG
	G1/4	0,3 ... 7	40	3	Manual	Plastic	Standard	0,35	P1H-200-M3QG
	G1/8	0,3 ... 7	40	3	Automatic	Plastic	Standard	0,35	P1H-100-A3QG
	G1/4	0,3 ... 7	40	3	Automatic	Plastic	Standard	0,35	P1H-200-A3QG

*1) Approximate flow at 7 bar (101psi) inlet pressure, 6,3 bar (91 psi) set pressure and a droop of 1 bar (14 psi) from set.

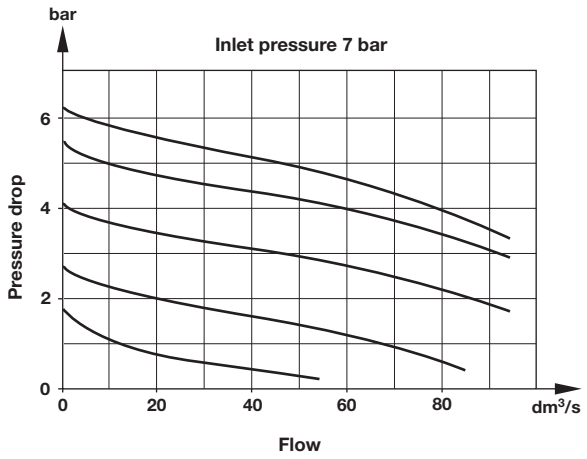
Options selector

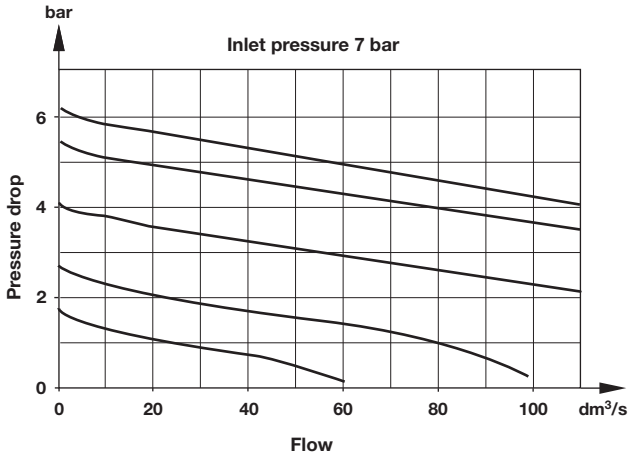
P★H-★★★-★★★★

Integral Wall Bracket	Substitute
Without	1
With	T
Port Size	Substitute
1/8“	1
1/4”	2
Bowl/Pressure range/Gauge	**Substitute**
Plastic/0,3 ... 7 bar/with	00
Plastic/0,3 ... 7 bar/without	01
Plastic/0,3 ... 3,5 bar/without	04
Plastic/0,3 ... 3,5 bar/with	05
Metal/0,3 ... 7 bar/wi h	40
Metal/0,3 ... 7 bar/wi hout	41
Metal/0,3 ... 3,5 bar/without	44
Metal/0,3 ... 3,5 bar/with	45

Threads	Substitute
PTF	A
ISO G	G
Lubricator reservoir	**Substitute**
Plastic with drain	A
Plastic without drain	Q
Metal with drain	M
Element	**Substitute**
5 µm	1
40 µm	3
Drain	**Substitute**
Automatic	A
Manual	M

Flow characteristics
Port size 1/4”, 40 µm Filter element, pressure range 0,3 ... 7 bar





Accessories

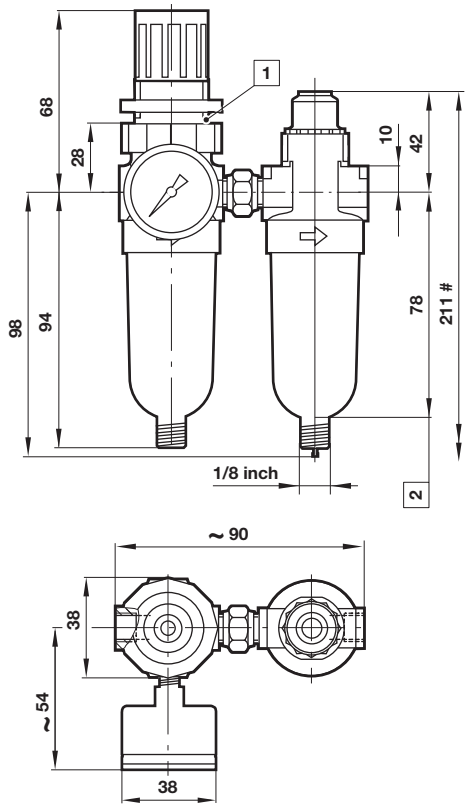
Service kit

	Filter/regulator manual drain	Filter/regulator automatic drain	Lubricator
			
40 µm:	B07-KITM40R	B07-KITA40R	L07-KIT

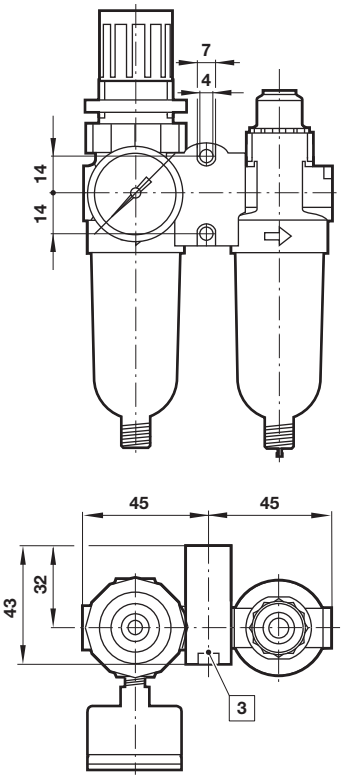
Wall mounting bracket and panel nut	Panel nut	Tamper resistant field modification	Wall mounting bracket	Tamper resistant seal wire for lubricator	Gauge Ø 40 mm
 1 & 4	 4	 3	 7		 6
18-025-003 (with plastic nut)	2962-04 (Metal)	18-001-092	6700-30	2117-01	18-013-990 (0 ... 4 bar)
18-025-004 (with metal nut)	2962-89 (Plastic)				18-013-989 (0 ... 10 bar)

Dimensions

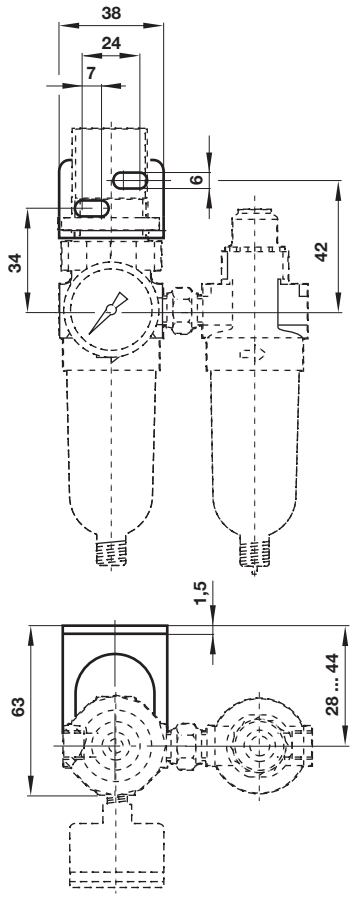
P1H-...



PTH-...



Wall mounting bracket



Minimum clearance required to remove bowl
[1] Ø31 mm for panel mounting

Warning

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System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

- **Port size: G1/8 & G1/4**
- **Very compact unit**
- **Direct ported filters with high water removal efficiency**

Technical features

Medium:
Compressed air only
Maximum inlet pressure:
10 bar (145 psi) Transparent bowl
17 bar (246 psi) Metal bowl
Filter element:
5 or 40 µm

Typical flow:
see below
Port sizes:
G1/8 or G1/4
Bowl volume:
31 ml
Drain:
Manual or automatic

Ambient/Media temperature:
Transparent bowl
-34 ... +50°C (-29 ... +122°F)
Metal bowl
-34 ... +80°C (-29 ... +176°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F)

Materials:
Body: Zinc alloy
Bowl: Plastic or Zinc alloy
Filter element: PE
Elastomers: NBR

Technical data, standard model

Symbol	Port size	Filter element (µm)	Flow *1) (dm^3/s)	Drain	Bowl	Weight (kg)	Model
	G1/8	40	9	Manual	Plastic	0,13	F07-100-M3TG
	G1/4	40	11,5	Manual	Plastic	0,13	F07-200-M3TG
	G1/8	40	9	Automatic	Plastic	0,13	F07-100-A3TG
	G1/4	40	11,5	Automatic	Plastic	0,13	F07-200-A3TG

*1) Typical flow with 6,3 bar (91 psi) inlet pressure and a 0,3 bar (4,3 psi) droop from set.

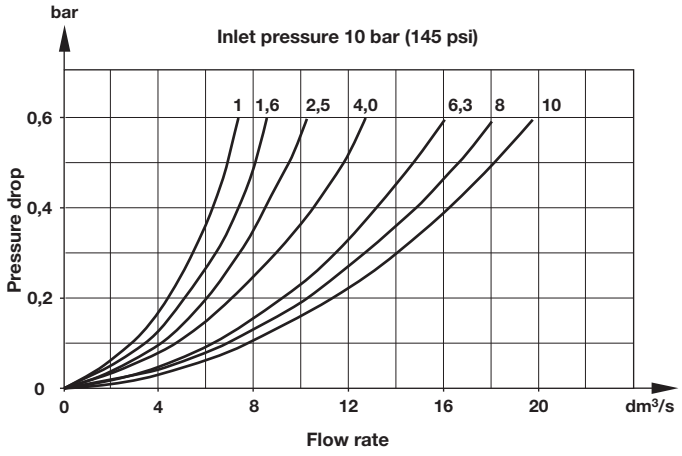
Option selector

F07-★00-★★★★

Port size	Substitute
1/8“	1
1/4”	2
Drain	Substitute
Automatic	A
Manual	M

Thread form	Substitute
PTF	A
ISO G	G
Bowl	**Substitute**
Plastic	T
Metal	M
Filter element	**Substitute**
5 µm	1
40 µm	3

Flow characteristics Port size 1/4”, filter element 40 µm



Accessories and sevice kit

Wall mounting bracket

5939-06

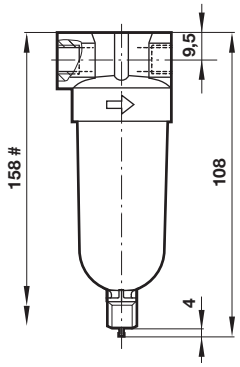
Sevice kit

	Service kit manual drain	Service kit automatic drain
		
5 µm:	F07-KITM05 (5 µm – black)	F07-KITA05 (5 µm – black)
40 µm:	F07-KITM40 (40 µm – green)	F07-KITA40 (40 µm – green)

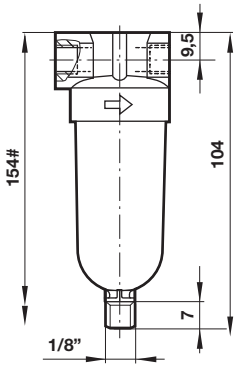
Dimensions

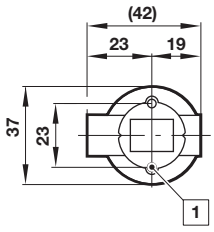
Abmessungen in mm
Projection/First angle

Manual drain



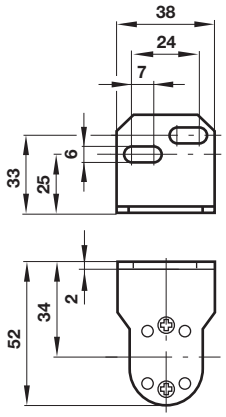
Automatic drain





Minimum clearance required to remove bowl
1 Mounting holes, ø 4 mm, 13 mm deep

Wall mounting bracket



Use 1/8” (3 mm) screws
to mount bracket to wall.

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System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

- **Port size: G1/8 & G1/4**
- **Very compact unit**
- **High efficiency fluids and particle removal**

Technical features

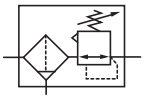
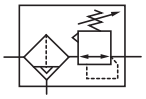
Medium:
Compressed air only
Maximum inlet pressure:
10 bar (145 psi) Transparent bowl
17 bar (246 psi) Metal bowl
Pressure range:
0,3 ... 7 bar (4 ... 101 psi),
0,3 ... 3,5 bar (4 ... 50 psi),
0,1 ... 0,7 bar (1 ... 10 psi),
0,3 ... 10 bar (4 ... 145 psi)

Element:
5 or 40 µm
Flow:
see below
Port sizes:
G1/8 or G1/4
Rc1/8 (Gauge)
Bowl:
31 ml

Drain:
Manual or automatic
Ambient/Media temperature:
Transparent bowl
-34 ... +50°C (-29 ... +122°F)
Metal bowl
-34 ... +65°C (-29 ... +149°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F)

Materials:
Body: Zinc alloy
Bonnet: Acetal
Bowl: Plastic or zinc alloy
Filter element: Sintered PE
Seals: NBR

Technical data, standard models with relieving

Symbol	Port size	Pressure range (bar)	Element (µm)	Flow *1) (dm^3/s)	Drain	Bowl	Weight (kg)	Model
	G1/8	0,3 ... 7	40	6,2	Manual	Plastic	0,26	B07-101-M3KG
	G1/4	0,3 ... 7	40	6,5	Manual	Plastic	0,26	B07-201-M3KG
	G1/8	0,3 ... 7	40	6,2	Automatic	Plastic	0,26	B07-101-A3KG
	G1/4	0,3 ... 7	40	6,5	Automatic	Plastic	0,26	B07-201-A3KG

*1) Flow at inlet pressure 10 bar (145 psi), outlet pressure 6,3 bar (91 psi) and pressure drop 1 bar (14 psi)

Option selector

B07-★★★-★★★★

Port size	Substitute
1/8“	**1**
1/4”	**2**

Bowl/Option	Substitute
Plastic/relieving	**01**
Plastic/non-relieving	**03**
Metal/relieving	**33**
Metal/non-relieving	**35**
Metal/relieving	**05 *2)**
Metal/non-relieving	**07 *2)**

Thread	Substitute
PTF	**A**
ISO G	**G**

Pressure range (bar) *1)	Substitute
0,1 ... 0,7	**A**
0,3 ... 3,5	**E**
0,3 ... 7	**K**
0,3 ... 10	**M *2)**

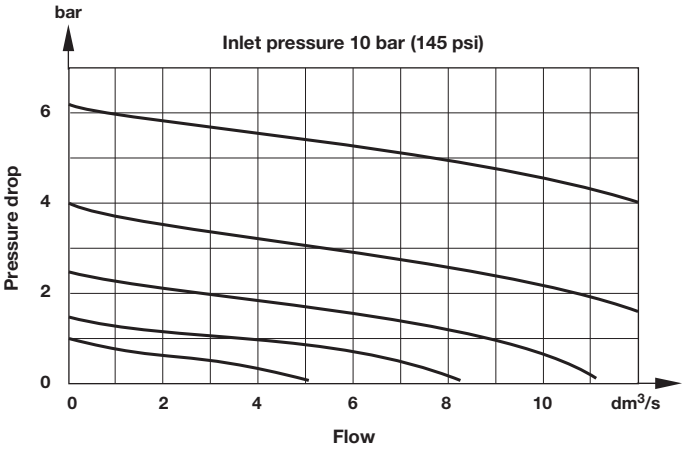
Element (µm)	Substitute
5	**1**
40	**3**

Drain	Substitute
Automatic	**A**
Manual	**M**

*1) Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

*2) When specifying 10 bar (145 psi) unit, eg. B07-205-A3MG, also note correct code at 5th, 6th and 9th digits.

Flow characteristics
Port size 1/4”, 40 µm Element, Pressure range 0,3 ... 7 bar



Accessories

Service kit

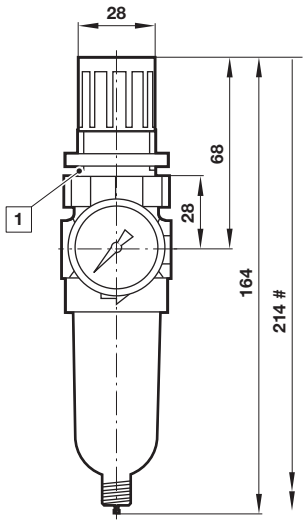
	Manual drain	Automatic drain
		
40 µm:	B07-KITM40R	B07-KITA40R
5 µm:	B07-KITM05R	B07-KITA05R

Wall mounting bracket and panel nut	Panel nut	Tamper resistant field modification	Gauge ø 40 mm
			
1 & 4	4	3	6
18-025-003 (with plastic nut)	2962-04 (Metal)	18-001-092	18-015-990 (0 ... 4 bar)
18-025-004 (with metal nut)	2962-89 (Plastic)		18-015-989 (0 ... 10 bar)

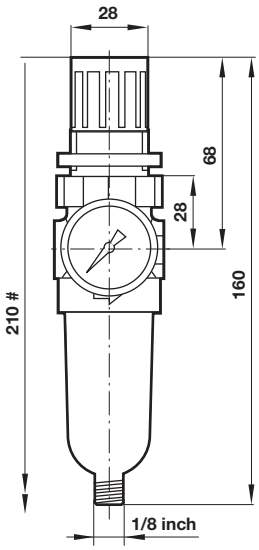
Dimensions

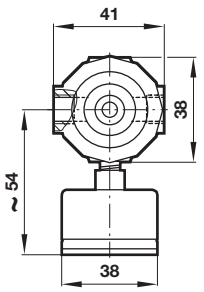
Dimensions in mm
Projection/First angle

Manual drain

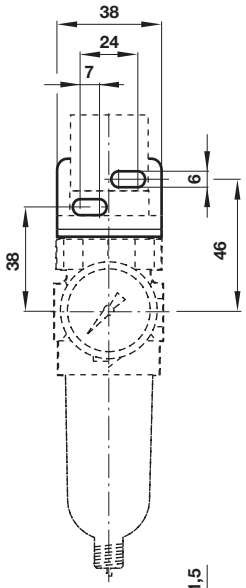


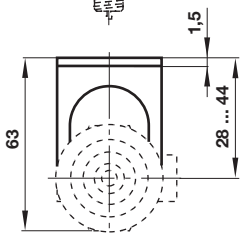
Automatic drain





Bracket mounting





Minimum clearance required to remove bowl
1 Panel mounting hole Ø 31 mm

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- **Port size: G1/8 & G1/4**
- **Very compact unit**
- **Constant oil/air ratio over a wide range of flows**

Technical features

Medium:
Compressed air only
Maximum inlet pressure:
10 bar (145 psi) (Transparent bowl)
17 bar (246 psi) (Metal bowl)

Typical flow:
Start point 0,24 dm^3/s
see below
Port sizes:
G1/8 or G1/4
Bowl volume:
31 ml

Ambient/Media temperature:
Transparent bowl
-20 ... +50°C (-4 ... +122°F)
Metal bowl
-20 ... +80°C (-4 ... +176°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F)

Materials:
Body: Zinc alloy
Bowl: PC or Zinc alloy
Sight-feed dome: PA
Elastomers: NBR

Technical data, standard models

Symbol	Port size	Flow *1) (dm^3/s)	Bowl	Weight (kg)	Model
	G1/8	5	Transparent	0,13	L07-100-MPQG
	G1/4	6,7	Transparent	0,13	L07-200-MPQG

*1) Typical flow with 6,3 bar (91 psi) inlet pressure and a 0,3 bar drop from set.

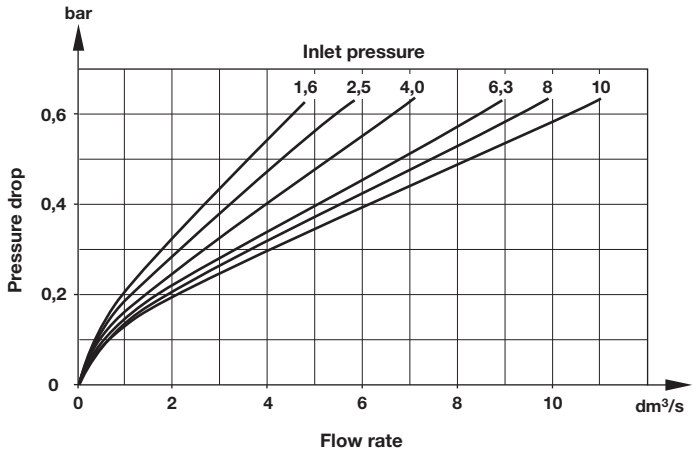
Option selector

L07-★00-MP★★

Port size	Substitute
1/8“	1
1/4”	2

Thread form	Substitute
PTF	A
ISO G	G
Bowl	**Substitute**
Transparent with drain	A
Transparent non-drain	Q
Metal with drain	M

Flow characteristics Port size 1/4”

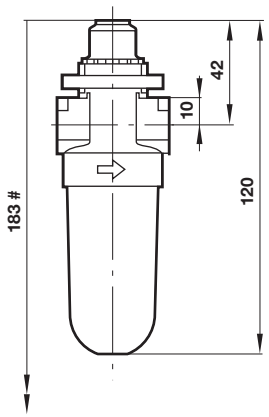


Accessories and sevice kit

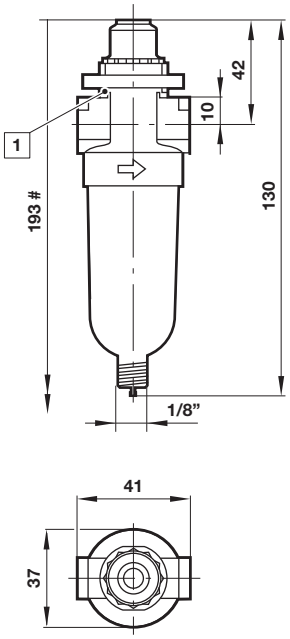
Wall mounting bracket and panel nut	Panel nut	Service kit
 1 & 4	 4	
18-025-003 (with plastic nut)	2962-04 (Metal)	L07-KIT
18-025-004 (with metal nut)	2962-89 (Plastic)	

Dimensions

Non-drain

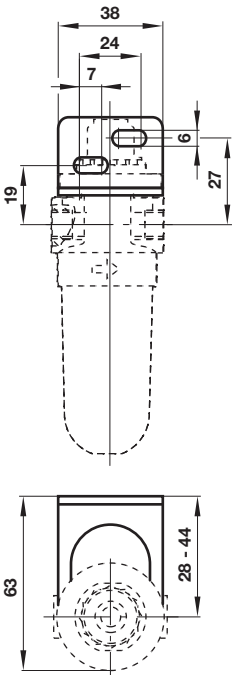


Manual drain



Bracket mounting

Dimensions in mm
Projection/First angle



Minimum clearance required to remove bowl
1 Panel mounting hole Ø 31 mm

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System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

- **Port size: G1/8 & G1/4**
- **Very compact unit**
- **Universal useable**

Technical features

Medium:
Compressed air only
Maximum inlet pressure:
20 bar (290 psi)
Pressure range:
0,3 ... 7 bar (4 ... 101 psi),
0,3 ... 3,5 bar (4 ... 50 psi),
0,1 ... 0,7 bar (1 ... 10 psi),
0,3 ... 10 bar (4 ... 145 psi)

Flow:
see below
Port size:
G1/8 or G1/4
Rc1/8 (Gauge)

Ambient/Media temperature:
-20° ... +65°C (-4° ... +149°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:
Body: Zinc alloy
Bonnet and knop: Acetal
Valve: Brass
Seals: NBR

Technical data, standard models with relieving

Symbol	Port size	Pressure range (bar)	Flow *1) (dm^3/s)	Weight (kg)	Model
	G1/8	0,3 ... 7	6,5	0,19	R07-100-RNKG
	G1/4	0,3 ... 7	7	0,19	R07-200-RNKG

*1) Flow at inlet pressure 10 bar (145 psi), outlet pressure 6,3 bar (91 psi) and pressure drop 1 bar (14 psi).

Option selector

R07-★**0**★-★★★★

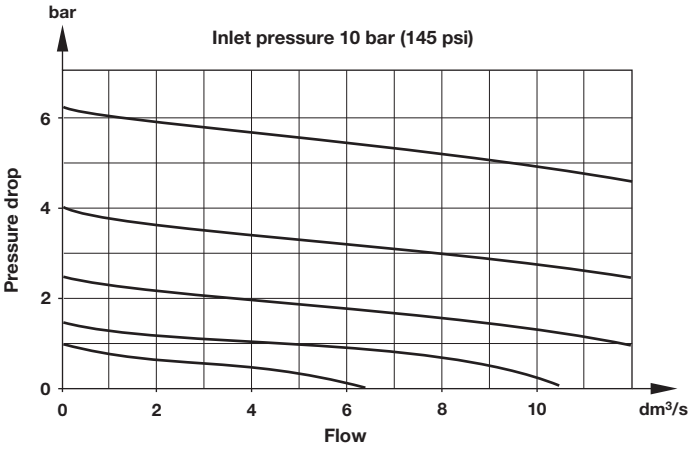
Port size	Substitute
1/8“	**1**
1/4”	**2**
Option	**Substitute**
Standard	**0**
Pressure range 10 bar	**5**

Thread	Substitute
PTF	**A**
ISO G	**G**
Pressure range (bar) *1)	**Substitute**
0,1 ... 0,7	**A**
0,3 ... 3,5	**E**
0,3 ... 7	**K**
0,3 ... 10	**M *2)**
Gauge	**Substitute**
With	**G**
Without	**N**
Diaphragm	**Substitute**
Relieving	**R**
Non-relieving	**N**

*1) Outlet pressure can be adjusted to pressures in excess of and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

*2) When specifying 10 bar (145 psi) unit, eg. R07-205-RNMG, also note correct code at 6th digit.

Flow characteristics
Port size 1/4”, Pressure range 0,3 ... 7 bar



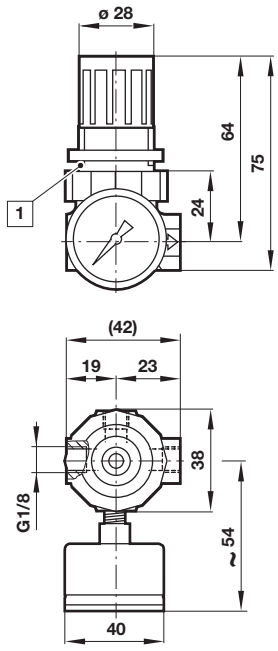
Accessories

Service kit

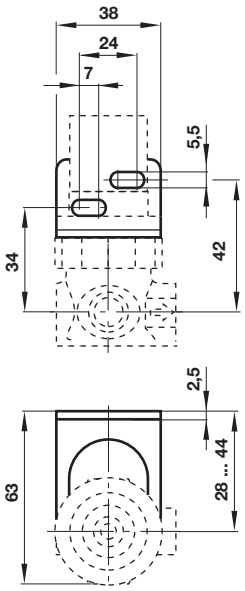
R07-KITR

Wall mounting bracket and panel nut	Panel nut	Tamper resistant field modification	Gauge ø 40 mm
			
1 & 4	4	3	6
18-025-003 (with plastic nut)	2962-04 (Metal)	18-001-092	18-015-990 (0 ... 4 bar) (14,5 ... 58 psi)
18-025-004 (with metal nut)	2962-89 (Plastic)		18-015-989 (0 ... 10 bar) (14,5 .... 145 psi)

Dimensions



Bracket mounting



Dimensions in mm
Projection/First angle

1 Panel mounting hole Ø 31 mm

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under »**Technical features/data**«.
Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult
IMI Precision Engineering, Norgren Ltd.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.
System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.
System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.