

B72G - EXCELRON® Modular System

General purpose filter regulator

- Port size: 1/4" or 3/8" (ISO G/PTF)
- Excelcon design allows in-line installation or modular installation with other Excelcon products
- High efficiency water and particle removal
- Quick release bayonet bowl
- Push to lock adjusting knob with tamper resistant accessory
- Metal bowl with prismatic liquid level indicator lens



Technical features

Medium:

Compressed air only

Maximum operating pressure:

10 bar (145 psi)

Pressure range:

0,3 ... 10 bar (4 ... 145 psi)
0,3 ... 4 bar (4 ... 58 psi) optional,
0,3 ... 2 bar (4 ... 29 psi) optional

Filter element:

40 µm and 5 µm

Port size:

G1/4, G3/8, 1/4 or 3/8 NPT

Gauge port:

Rc 1/8 with ISO G main ports
1/8 PTF with PTF main ports

Flow:

38 dm³/s maximum
At port size: 1/4"
Inlet pressure 10 bar (145 psi);
6,3 bar (91 psi) set pressure and a
Δp: 1 bar (14,5 psi) droop from set.

Relieving:

Standard

Drain:

Manual, automatic or semi-automatic

Automatic drain operating conditions (float operated):

Bowl pressure required to close drain: > 0,35 bar (5 psi)
Bowl pressure required to open drain: ≤ 0,2 bar (2.9 psi)
Minimum air flow required to close drain: 0,1 m³/s (0.2 scfm)
Manual operation: depress pin inside drain outlet to drain bowl

Semi automatic drain operating conditions (pressure operated):

Bowl pressure required to close drain: Greater than 0,1 bar (1.5 psig)
Bowl pressure required to open drain: Less than 0,1 bar (1.5 psig)
Minimum air flow required to close drain: 0,5 dm³/s (1 scfm)

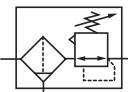
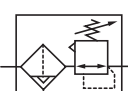
Ambient/Media temperature:

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
Bonnet: Acetal
Valve: PP and TPV
Transparent bowl: PC
Metal bowl: Zinc
Liquid level indicator lens (metal bowl): transparent PA
Filter element: sintered PP
Elastomers: CR & NBR

Technical data B72G - standard models

Symbol	Port size	Size	Drain	Pressure range		Filter element	Adjustment	Bowl	Weight	Model
				(bar)	(psi)	(µm)			(kg)	
	G1/4	Basic	Manual	0,3 ... 10	4 ... 145	40	Knob	PC (transparent)	0,52	B72G-2GK-QT3-RMN
	G3/8	—	Manual	0,3 ... 10	4 ... 145	40	Knob	PC (transparent)	0,52	B72G-3GK-QT3-RMN
	G1/4	Basic	Manual	0,3 ... 10	4 ... 145	5	Knob	PC (transparent)	0,52	B72G-2GK-QT1-RMN
	G3/8	—	Manual	0,3 ... 10	4 ... 145	5	Knob	PC (transparent)	0,52	B72G-3GK-QT1-RMN
	G1/4	Basic	Automatic	0,3 ... 10	4 ... 145	40	Knob	PC (transparent)	0,52	B72G-2GK-AL3-RMN
	G3/8	—	Automatic	0,3 ... 10	4 ... 145	40	Knob	PC (transparent)	0,52	B72G-3GK-AL3-RMN
	G1/4	Basic	Automatic	0,3 ... 10	4 ... 145	5	Knob	PC (transparent)	0,52	B72G-2GK-AL1-RMN
	G3/8	—	Automatic	0,3 ... 10	4 ... 145	5	Knob	PC (transparent)	0,52	B72G-3GK-AL1-RMN

Option selector

Port size	Substitute
1/4"	2
3/8"	3
Thread form	Substitute
PTF	A
ISO G parallel (standard)	G
Drain	Substitute
Manual (standard)	Q
Semi automatic	S
Auto drain (standard) *1)	A
Bowl	Substitute
Transparent without guard (Standard)	T
Metal with liquid indicator	D
Long metal with liquid indicator (automatic drain)	E
Long transparent (automatic drain)	L
Long transparent with guard	W

*1) Supplied in long bowl options only.

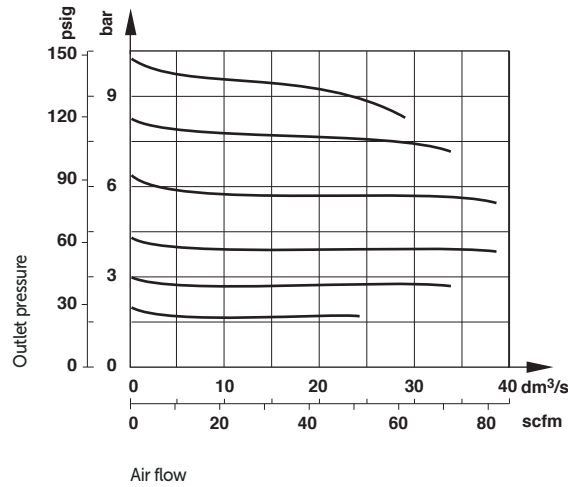
B72G-★K-★-★-★-★

Gauge	Substitute
Without (standard)	N
With	G
Pressure range *2)	Substitute
0,3 ... 10 bar (standard)	M
0,3 ... 4 bar	F
0,3 ... 2 bar	C
Diaphragm	Substitute
Relieving (standard)	R
Non relieving	N
Element	Substitute
40 µm (standard)	3
5 µm (standard)	1

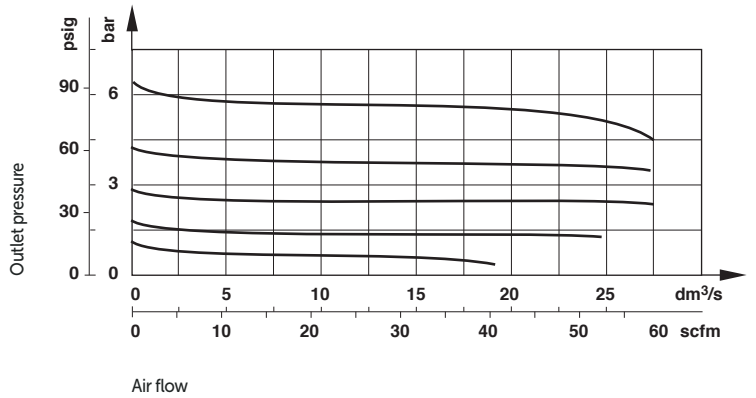
*2) Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

Flow characteristics

Inlet pressure: 10 bar (145 psi)
Port size: 1/4", 40 µm element



Inlet pressure: 7 bar (101 psi)
Port size: 1/4", 40 µm element



Accessories

Universal mounting bracket	Quikclamp®	Quikclamp® with wall bracket	Neck mounting bracket	Panel nut
				
Page 4	Page 3	Page 3	Page 4	
4224-50	4214-51	4214-52	74316-50	4248-89
Tamper resistant kit	Quikmount pipe adaptor *1)	Porting block with three alternative 1/4" ports	2/2 Shut-off valves (for full technical specification see datasheet 8.160.600)	3/2 Shut-off valves (for full technical specification see datasheet 8.160.600)
				
	Page 3	Page 3	Page 4	Page 4
4255-51	G1/4: 4215-08	G1/4: 4216-52	G1/4: T72B-2GA-P1N	G1/4: T72T-2GA-P1N
	G3/8: 4215-09	1/4 PTF: 4216-50	G3/8: T72B-3GA-P1N	G3/8: T72T-3GA-P1N
	1/4 PTF: 4215-02		1/4 PTF: T72B-2AA-P1N	1/4 PTF: T72T-2AA-P1N
	3/8 PTF: 4215-03		3/8 PTF: T72B-3AA-P1N	3/8 PTF: T72T-3AA-P1N

*1) Please use a Quikmount pipe adaptor if the Quikclamp® be mounted at inlet or outlet side.

Pressure switch

Porting block for pressure switch	Pressure switch (0,5 ... 8 bar)
	
0523109000000000	0881300000000000

Padlock

Padlock (brass) with two keys *1)

0613633000000000

*1) For shut-off valves and tamper resistant kit.

Service kit

	Service kit for auto drain	Service kit for manual drain
		
Element		
40 µm	B72G-KITA40R	B72G-KITM40R
5 µm	B72G-KITA05R	B72G-KITM05R

Gauge

Center back connection, white face (for full technical specification see datasheet 8.900.900)					
					
Pressure range			Thread size		Model
bar *1	Mpa	psi	ø		
0 ... 2,5	—	0 ... 36	40 mm	R1/8	18-015-886
0 ... 4	0 ... 0,4	0 ... 58	40 mm	R1/8	18-015-990
0 ... 10	0 ... 1	0 ... 145	40 mm	R1/8	18-015-989

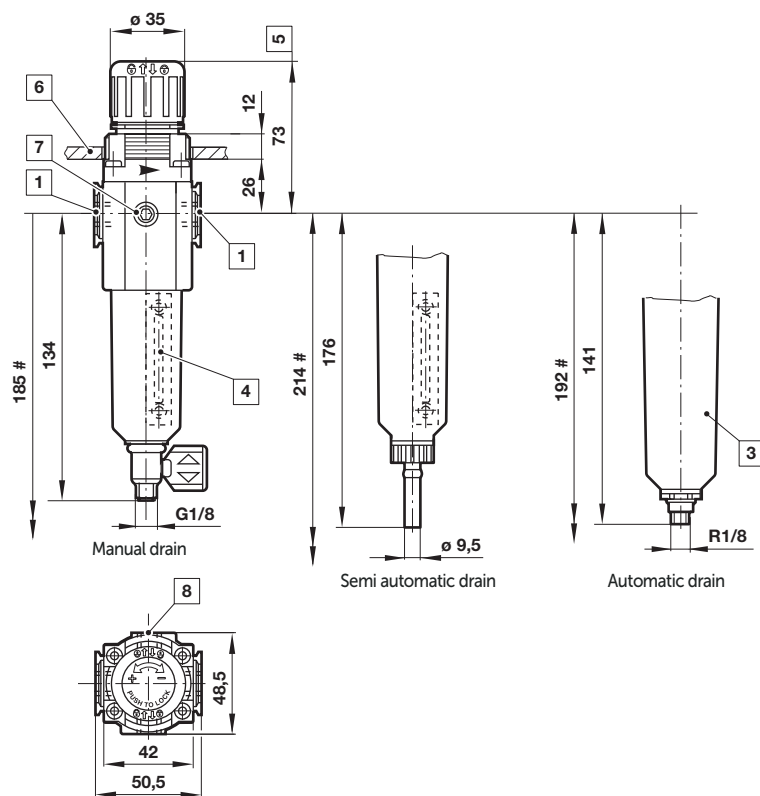
*1) primary scale

Center back connection, black face for North America (for full technical specification see datasheet 8.900.900)					
					
Pressure range			Thread size		Model
psig *1	bar	Mpa	ø		
0 ... 30	0 ... 2	0 ... 0.2	1.5" (40 mm)	1/8 NPT	18-015-214
0 ... 60	0 ... 4	0 ... 0.4	1.5" (40 mm)	1/8 NPT	18-015-211
0 ... 160	0 ... 11	0 ... 1.1	1.5" (40 mm)	1/8 NPT	18-015-212

*1) primary scale

Dimensions

Dimensions in mm
Projection/First angle



Minimum clearance required to remove bowl

- 1 Main ports 1/4" or 3/8"
- 3 Transparent bowl
- 4 Metal bowl with liquid indicator
- 5 Reduces by 4 mm with knob in locked position
- 6 Panel hole $\varnothing$ 40 mm, Panel thickness 4 max.
- 7 Gauge port 1/8"
- 8 Alternative gauge port 1/8" plugged

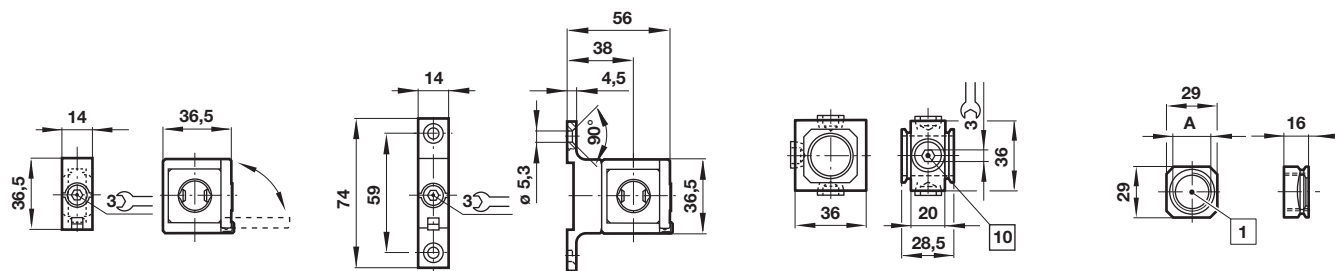
Accessories

Quikclamp®

Quikclamp® with wall bracket

Porting block

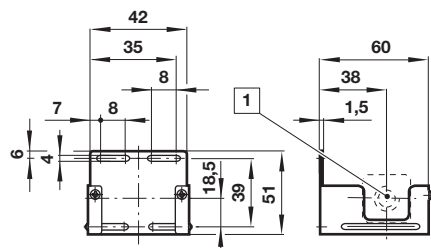
Pipe adapter



10 Ports 1/4 (ISO G/NPT) plugged

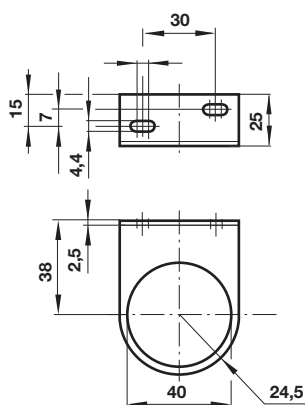
1 Main ports 1/4" or 3/8" (ISO G/PTF)

Wall mounting bracket



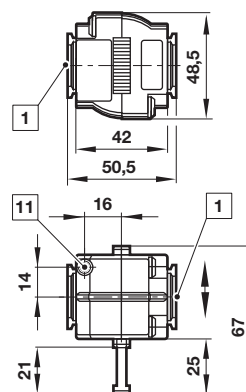
1 Main ports

Neck mounting bracket



Shut-off valves

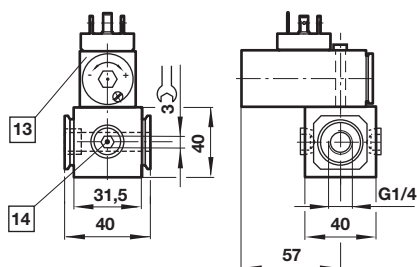
Dimensions in mm
Projection/First angle



1 Main ports 1/4" or 3/8" (ISO G/PTF)

11 Exhaust port M5 at 3/2 valve only

Porting block for pressure switch



13 Pressure switch is not in scope of delivery

14 Alternative G1/4 ports plugged

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. 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.