# R72G, R72R - EXCELON® Modular System
# Pressure regulators

— Port size: 1/4" or 3/8" (ISO G/PTF)
— Excelon design allows in-line or modular installation
— Balanced valve design for optimum pressure control
— Push to lock adjusting knob with tamper resistant accessory



## Technical features

**Medium:**
Compressed air only

**Maximum operating pressure:**
20 bar (300 psi)

**Pressure range:**
Standard
0,3 ... 10 bar (4 ... 145 psi)
0,3 ... 4 bar (4 ... 58 psi) optional
0,3 ... 2 bar (4 ... 29 psi) optional

**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:**
33 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.

**Return valve:**
R72G – without return valve
R72R – with return valve

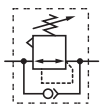
**Ambient/Media temperature:**
-34 ... +65°C (-29 ... +149°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

**Materials:**
Body: Die cast zinc
Bottom plug: Acetal
Bonnet: Acetal
Valve: Brass
Elastomers: NBR

## Technical data R72G - standard models

| Symbol | Port size | Size | Pressure range (bar) | Adjustment | Weight (kg) | Model |
|---|---|---|---|---|---|---|
|  | G1/4 | Basic | 0,3 ... 10 | Knob | 0,36 | R72G-2GK-RMN |
| | G3/8 | – | 0,3 ... 10 | Knob | 0,36 | R72G-3GK-RMN |

## Technical data R72R - Reverse flow

| Symbol | Port size | Size | Pressure range (bar) | Adjustment | Weight (kg) | Model |
|---|---|---|---|---|---|---|
|  | G1/4 | Basic | 0,3 ... 10 | Knob | 0,36 | R72R-2GK-RMN |
| | G3/8 | – | 0,3 ... 10 | Knob | 0,36 | R72R-3GK-RMN |

## Option selector

R72★-★★K-★★★

| Return valve | Substitute |
|---|---|
| Without (standard) | G |
| Integrated | R |
| **Port size** | **Substitute** |
| 1/4" | 2 |
| 3/8" | 3 |
| **Thread form** | **Substitute** |
| PTF | A |
| ISO G parallel (standard) | G |

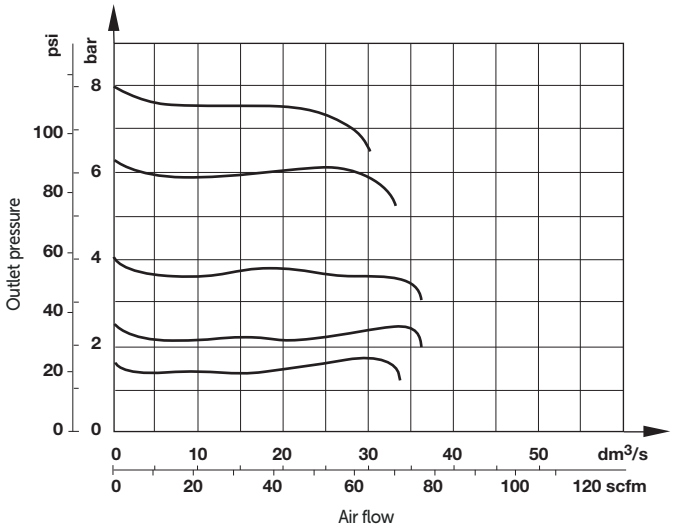
| Gauge | Substitute |
|---|---|
| With | G |
| Without (standard) | N |
| **Outlet pressure adjustment range *2)** | **Substitute** |
| 0,3 ... 2 bar | C |
| 0,3 ... 4 bar | F |
| 0,3 ... 10 bar (standard) | M |
| **Diaphragm** | **Substitute** |
| Relieving (standard) | R |
| Non relieving | N |

*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.


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## Flow characteristics

Inlet pressure: 10 bar (145 psi)
Port size: 1/4"




## 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 |
|---|
|  |
| R72G-KITR |


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## Gauge

Center back connection, white face (for full technical specification see datasheet 8.900.900)



| Pressure range bar *1 | Mpa | psi | Ø | Thread size | Model |
|---|---|---|---|---|---|
| 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)

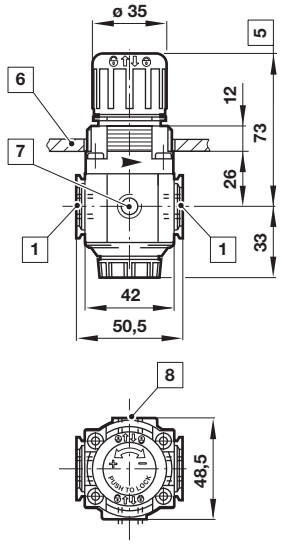


| Pressure range psig *1 | bar | Mpa | Ø | Thread size | Model |
|---|---|---|---|---|---|
| 0 ... 30 | 0 ... 2 | 0 ... 0.2 | 1.5" (40 mm) | 1/8 NPT | 18-015-214 |
| 0 ... 60 | 0 ... 4 | 0 ... 0.4 | 1.5" (40 mm) | 1/8 NPT | 18-015-211 |
| 0 ... 160 | 0 ... 11 | 0 ... 1.1 | 1.5" (40 mm) | 1/8 NPT | 18-015-212 |

*1) primary scale

## Drawings

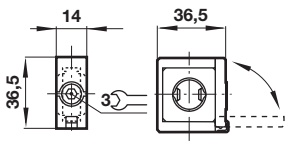
Dimensions in mm
Projection/First angle



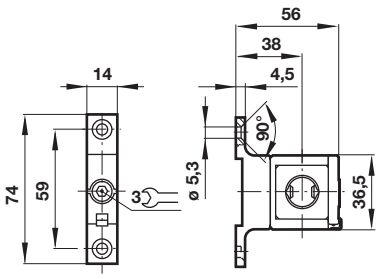

1 Main ports 1/4" or 3/8"
5 Reduces by 4 mm with knob in locked position
6 Panel thickness 0 ... 4 mm
7 Gauge port 1/8" plugged
8 Alternative gauge port 1/8" plugged

## Accessories

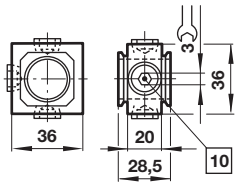
### Quikclamp®




### Quikclamp® with wall bracket

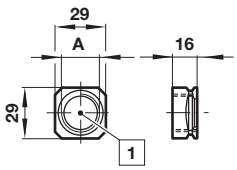



### Porting block




10 Ports (G1/4 or 1/4 NPT) plugged

### Pipe adapter

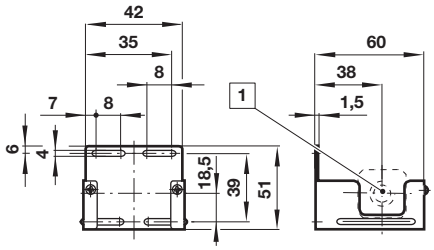



1 Main ports 1/4" or 3/8" (ISO G/PTF)



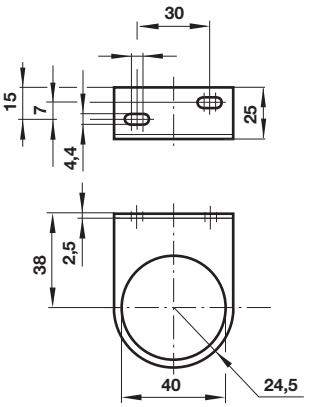
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## Wall mounting bracket



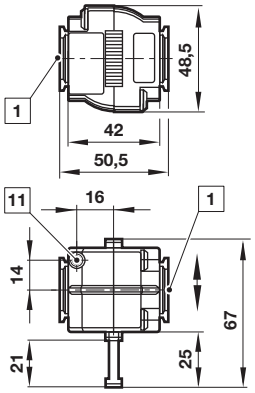

1 Main ports

## Neck mounting bracket



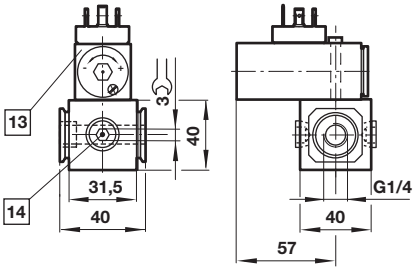

## Shut-off valves

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, Norgren Inc.

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.


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