

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Саранск (8342)22-96-24
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97

Тверь (4822)63-31-35
Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

www.norgren.nt-rt.ru | | ner@nt-rt.ru

Технические характеристики на регуляторы давления Watson Smith, 07 Series Excelon, Excelon Plus, Olympian Plus, Stainless Steel КОМПАНИИ **IMI NORGREN**

- > **Port size: G1/4**
- > **Exclusively designed for use with R18 and 11-808**
- > **Senses downstream pressure and automatically adjusts Pilot Operated Regulator outlet pressure as necessary to maintain required outlet pressure**
- > **Ideal for applications where superior pressure control is required on high flow applications**
- > **Panel Mounting facility**



Technical features

Medium:

Compressed air only

Application:

Designed solely for use with Pilot Operated Regulators and must not be used in any other application

Maximum Inlet Pressure:

20 bar

Operating Temperature:

-20°C* to +80°C

* Consult our Technical Service for use below +2°C

Recommended Regulated

Pressures:

0,16 - 7 bar

4 - 16 bar

Gauge Ports:

G1/8

Port Size:

G1/4 to ISO 1179

Accepts ISO 228 (BS 2779) parallel or ISO 7 (BS 21) taper connectors

Alternative Models:

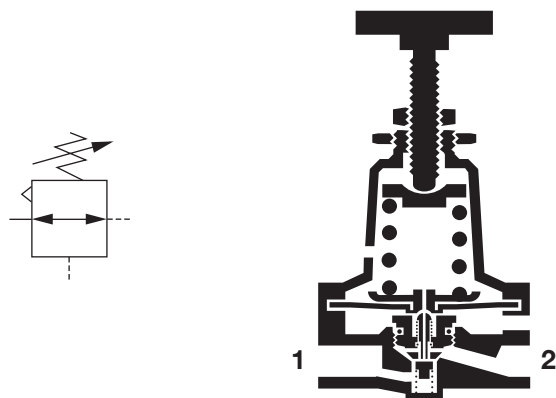
Other port thread forms

Materials:

Zinc alloy body and bonnet. Acetal resin adjusting knob. Synthetic rubber elastomeric materials.

Ordering Information:

To order a standard Feedback Pilot Regulator, quote model number from table overleaf. For non-standard models please consult our Technical Service.



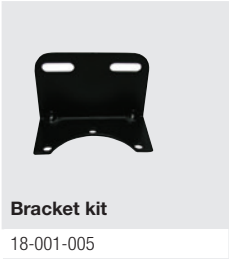
Standard Feedback Pilot Regulators

Spring Range (bar)	Port Size	Relieving	Weight kg
0,16 - 7	G1/4	11-204-004	1,10
4 - 16	G1/4	11-204-006	1,10

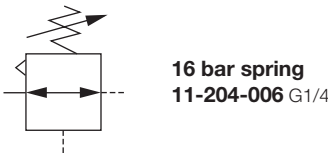
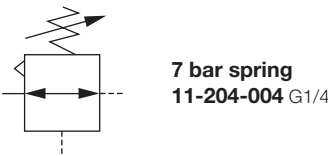
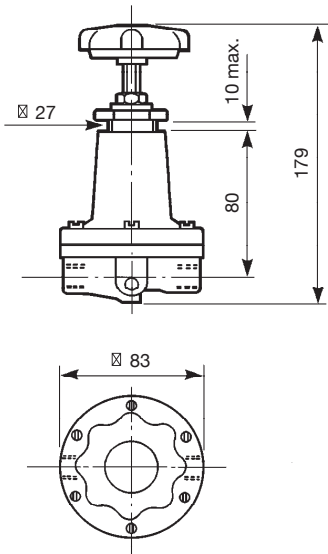
Non-standard Models

For other options, please consult our Technical Service.

Accessories

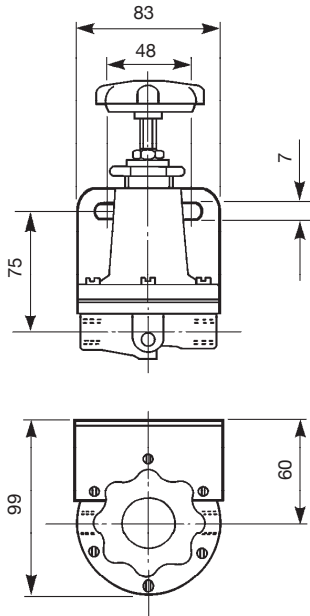


Feedback Pilot Regulator



Bracket Mounting

Bracket Kit reference:
18-001-005



Spares Kits

Type	Repair Kit
All models	11-204-100

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.

R82G -Pressure Regulators

Excelon® Plus Modular System



- > Port size: 1/4" ... 3/8" (ISO G/PTF)
- > Excelon® Plus design allows in-line installation or modular installation with other Excelon® Plus products
- > Push to lock adjusting knob with built in tamper resistant feature
- > Easy to read flush mounted integrated pressure gauge as standard



Technical features

Medium:

Compressed air only

Maximum supply pressure:
20 bar (290 psi)

Outlet pressure ranges:
0,3 ...10 bar (4 ... 145 psi),
0,3 ... 4 bar (4 ... 58 psi) optional,
0,7 ... 17 bar (10 ... 247 psi) optional

Gauge:
Integrated as standard
Gauge port 1/8 as option

Port size:

G1/4, G3/8,
1/4 PTF, 3/8 PTF

Diaphragm Type:
Relieving

Flow:
33 dm³/s (port size: 1/4") and
31 dm³/s (port size: 3/8") at
inlet pressure 10 bar (145 psi),
6,3 bar (91 psi) set pressure and a
Δp: 1 bar (14,5 psi) droop from set.

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).

Atex:

Regulators R82 are in conformity
with Atex 2014/34/EU




II 2 GD
Ex h IIC T6 Gb
EX h IIIC T85°C Db

Materials:

Body: Die cast aluminium
Body covers: ABS
Bonnet: POM/Aluminium
Valve: PP
Elastomers: NBR

Technical data R82G—standard models

Symbol	Port size	Pressure range (bar)	Adjustment	Integrated gauge (bar)	Weight (kg)	Model *1)
	G1/4	0,3 ... 10	Knob	0 ... 10	0,23	R82G-2GK RMG
	G3/8	0,3 ... 10	Knob	0 ... 10	0,23	R82G-3GK-RMG

*1) All models shown here are supplied with integrated gauge applicable for flow direction left to right.

Option selector *1)

R82★-★★★-R★★

Flow	Substitute
General	G
Reverse flow	R
Port size	Substitute
1/4"	2
3/8"	3
Thread form	Substitute
PTF	A
ISO G (standard)	G
Adjustment	Substitute
Knob	K
T-bar	T*2)

Gauge	Substitute
With integrated gauge	G
Without integrated gauge but with gauge port 1/8"	N
Pressure range *3)	Substitute
0.3 ... 4 bar	F
0.3 ... 10 bar (standard)	M
0.7 ... 17 bar	S*2)

*3) 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.

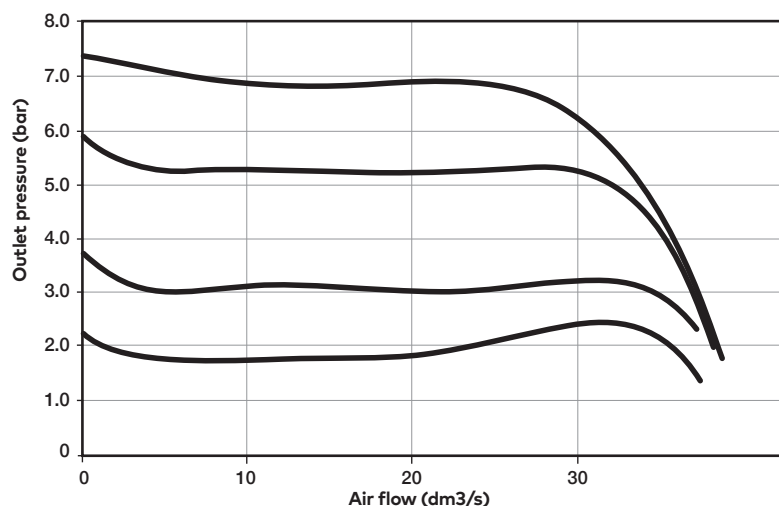
*2) Units with 17 bar outlet pressure range are available only with the T-bar adjustment; therefore substitute T at the 7th position and S at the 9th position. T-bar handle only available with 17 bar option.

Flow characteristics

Inlet pressure: 10 bar (145 psi)

Range: 0.3...10 bar (4...145 psi)

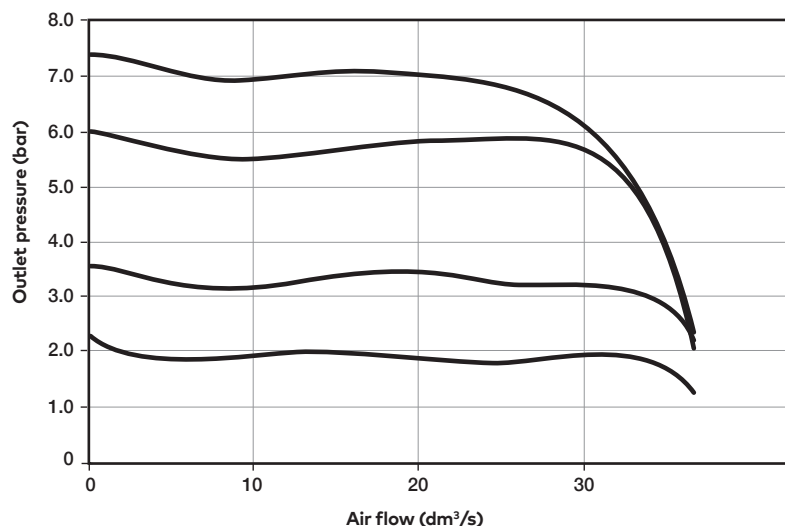
Port size: 1/4"



Inlet pressure: 10 bar (145 psi)

Range: 0.3...10 bar (4...145 psi)

Port size: 3/8"



Accessories

Quikclamp®



Page 3

820014-51KIT

Quikclamp® with bracket assembled



Page 3

820014-52KIT

Neck mounting bracket and panel nut



Page 4

820068-51KIT

Panel mounting nut



Page 4

820048-89KIT

Mounting bracket



Page 4

820024-50KIT

Integrated gauge 10 bar gauge



820073-01KIT

Integrated gauge 20 bar gauge



820073-02KIT

Integrated gauge 4 bar gauge



820073-03KIT

Gauge adaptor kit 1/8 PTF



820100-01KIT

Gauge adaptor kit R 1/8



820100-02KIT

Pressure sensing block 1/4 PTF



Page 4

820016-50KIT

Pressure sensing block G1/4



Page 4

820016-51KIT

Porting block 3/8" PTF



Page 4

820028-50KIT

Porting block G3/8



Page 4

820028-53KIT

Pressure switch interface block (18D pressure switch) G1/4



Page 5

0523109000000000

Pressure switch 18D (0,5 ... 8bar) *1



Page 5

0881300

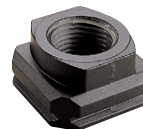
Digital pressure switch 51D (-1 ... 10 bar) *2



Page 5

0860810

Port Adaptors



Page 5

1/4 PTF 820015-02KIT

3/8 PTF 820015-03KIT

G1/4 820015-08KIT

G3/8 820015-09KIT

Service Kits

R82 / B82 Elastomere kit



FRLB82-Kit

*1) Flanged version. For other pressure ranges, please see data sheet 5.11.001

*2) For other pressure ranges, please see data sheet 5.11.385

Gauges (For regulators with gauge port instead of integrated port)

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



Pressure range (bar)*3 (MPa)	(psi)	ø	Thread size	Model	
0 ... 6	0 ... 0,6	0 ... 84	40 mm	R1/8	18-015-885
0 ... 10	0 ... 1	0 ... 145	40 mm	R1/8	18-015-989
0 ... 25	0 ... 2,5	0 ... 362	40 mm	R1/8	18-015-908

*3) primary scale

Padlock



840055-01KIT

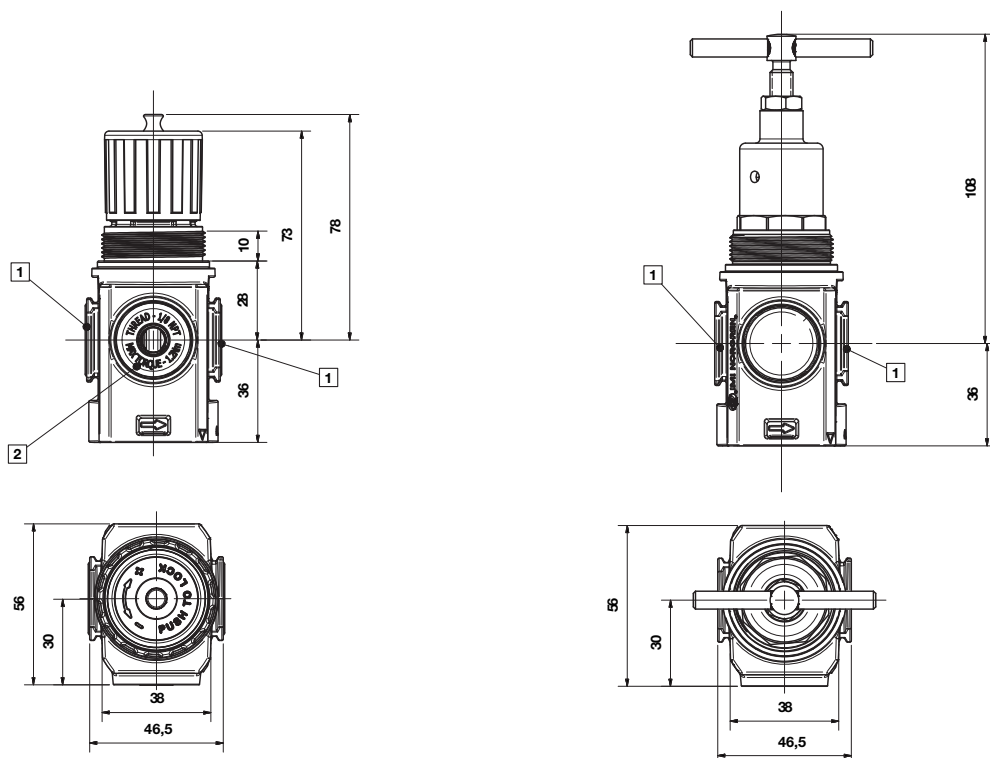
Lockout device



840055-02KIT

Dimensions

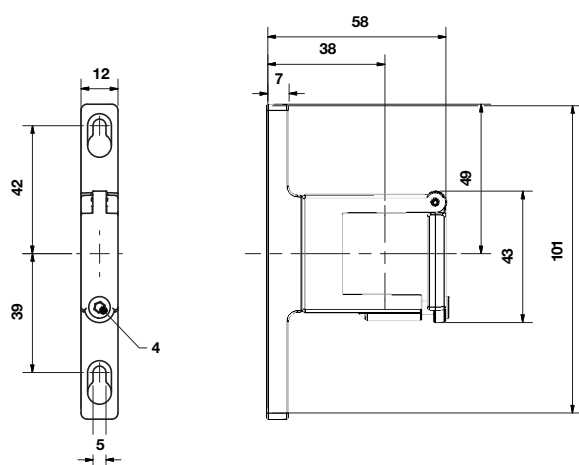
Dimensions in mm
Projection/First angle



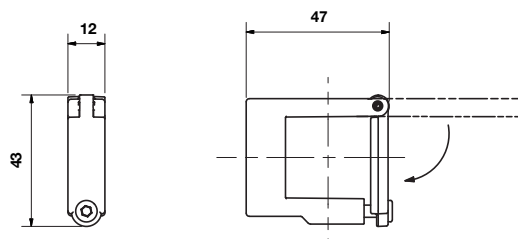
- 1 Main ports 1/4", 3/8",
(ISO G/PTF)
- 2 Gauge port Rc 1/8 for
ISO G and 1/8 PTF
for PTF main ports

Accessories

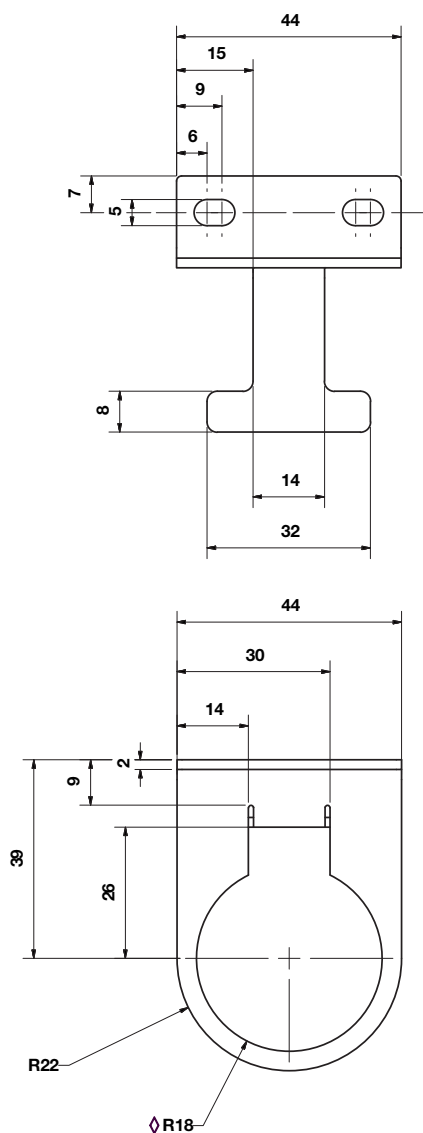
Quikclamp® with wall bracket



Quikclamp®

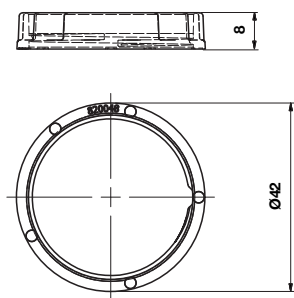


Neck mounting bracket



Panel mounting nut

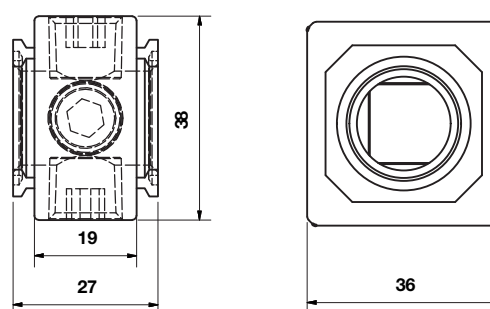
Dimensions in mm
Projection/First angle



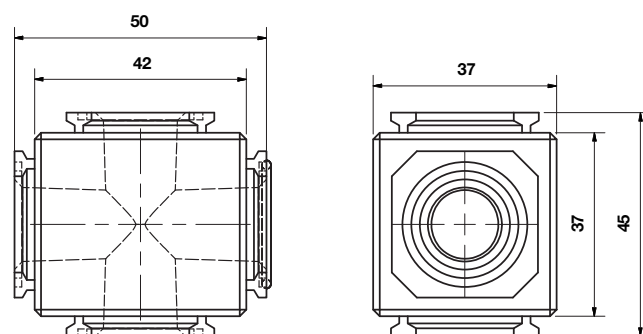
Recommended panel hole size:
ø 36.25 ... 36.75 mm

Panel thickness:
up to 4mm

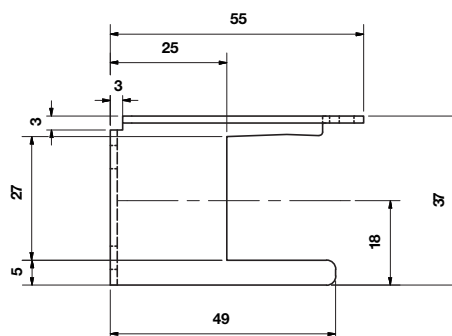
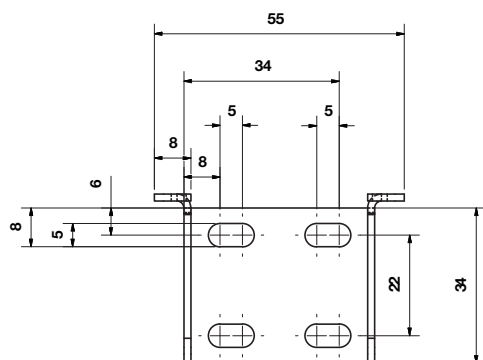
Pressure sensing block



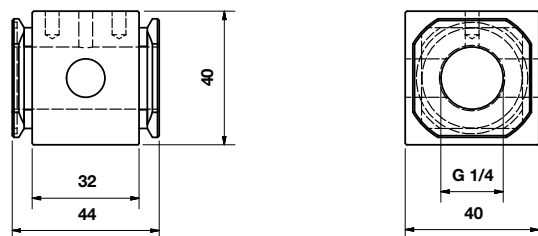
Porting block



Wall Mounting bracket

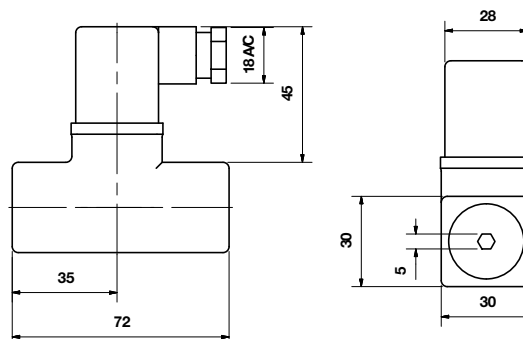


Porting block

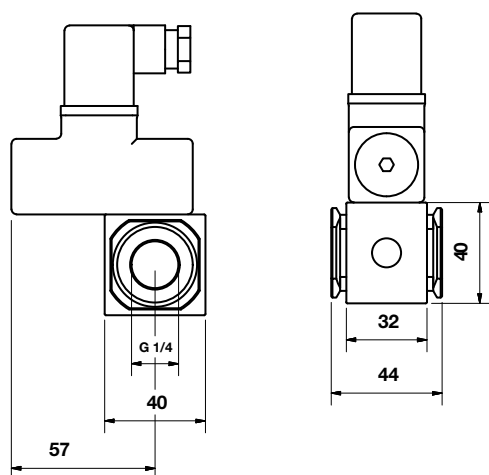


18D Pressure switch

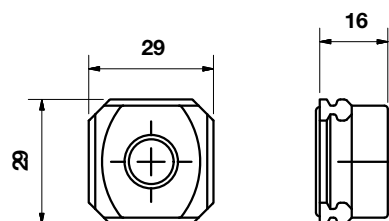
Dimensions in mm
Projection/First angle



18D Porting block and 18D assembled

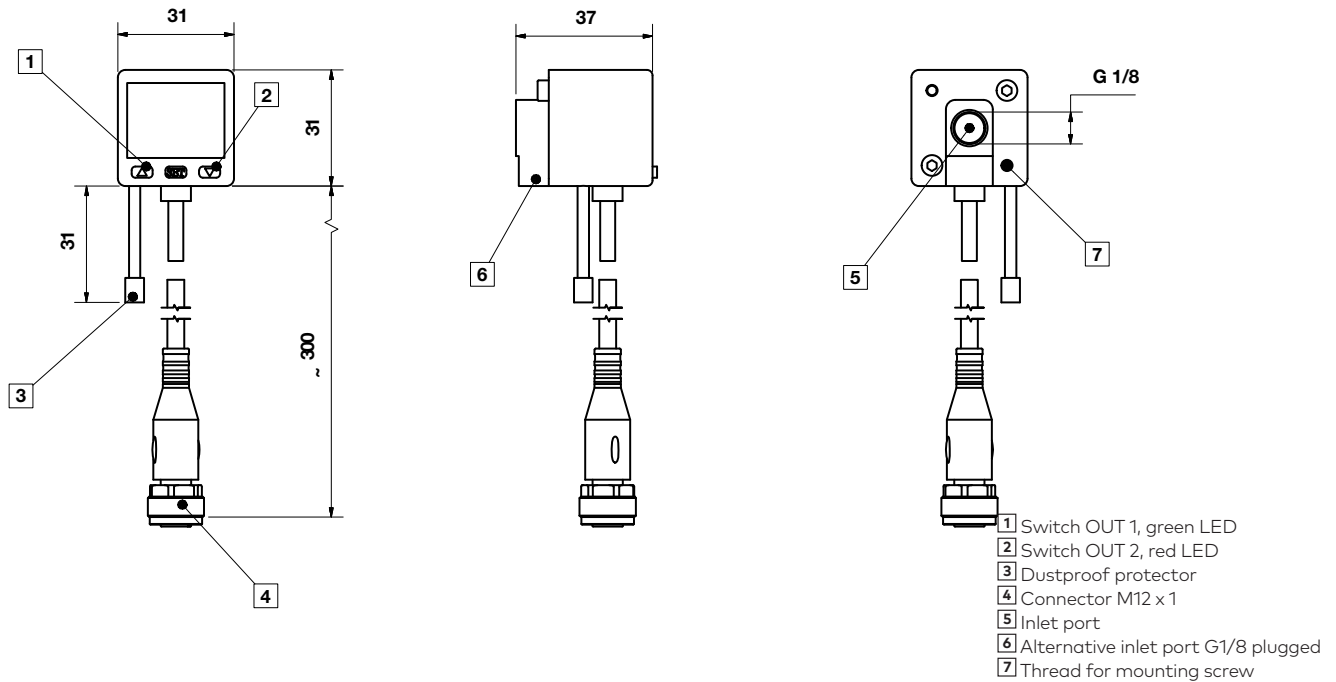


Pipe adaptor



51D Pressure switch - digital

Dimensions in mm
Projection/First angle



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 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.

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

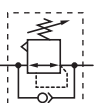
Valve: PP and TPV

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-★★★

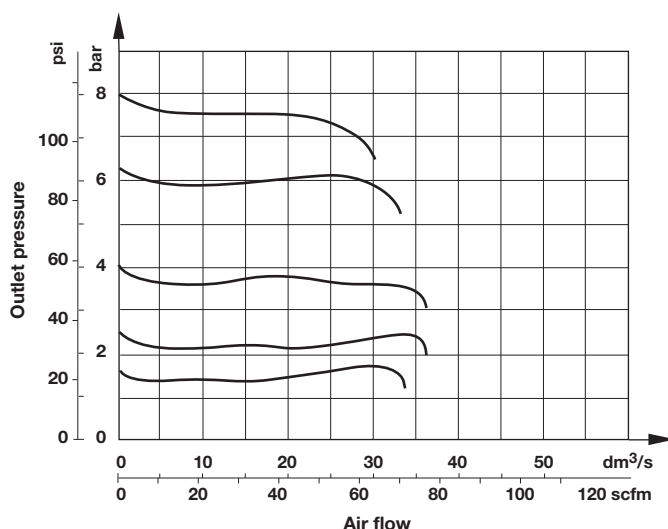
Return valve	Substitute	Gauge	Substitute
Without (standard)	G	With	G
Integrated	R	Without (standard)	N
Port size	Substitute	Outlet pressure adjustment range *2)	Substitute
1/4"	2	0,3 ... 2 bar	C
3/8"	3	0,3 ... 4 bar	F
		0,3 ... 10 bar (standard)	M
Thread form	Substitute	Diaphragm	Substitute
PTF	A	Relieving (standard)	R
ISO G parallel (standard)	G	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.




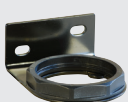






Flow characteristics

Inlet pressure: 10 bar (145 psi)

Port size: 1/4"





Accessories


Universal mounting bracket	Quickclamp®	Quickclamp 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 Quickclamp 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

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)



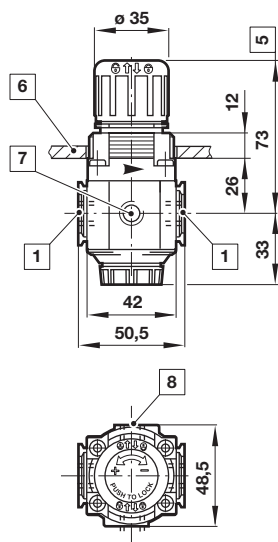
Pressure range

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

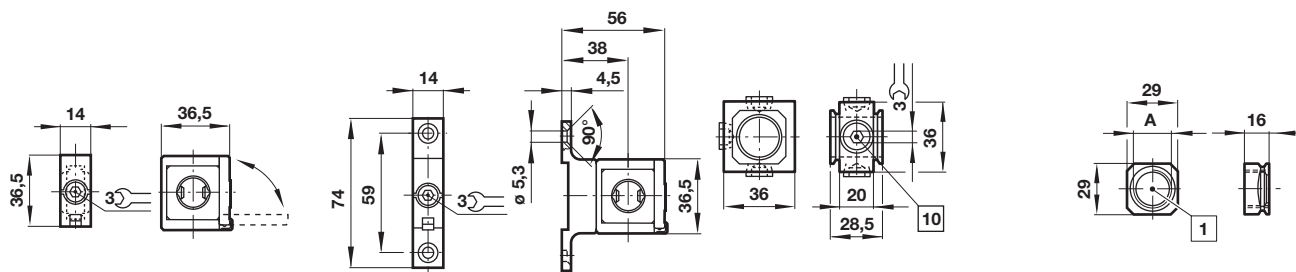
Accessories

Quikclamp®

Quikclamp® with wall bracket

Porting block

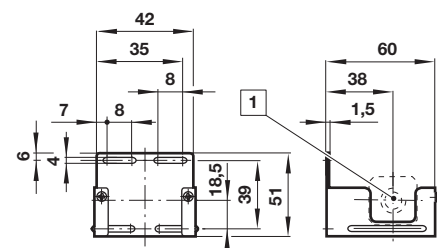
Pipe adapter



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

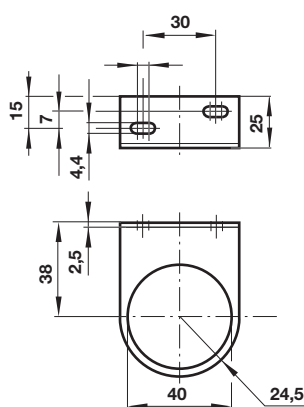
1 Main ports 1/4" or 3/8"
(ISO G/PTF)

Wall mounting bracket

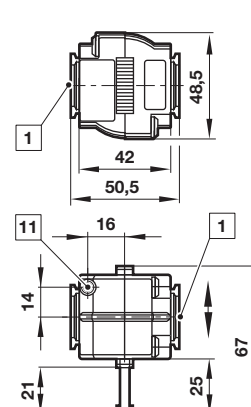


1 Main ports

Neck mounting bracket



Shut-off valves

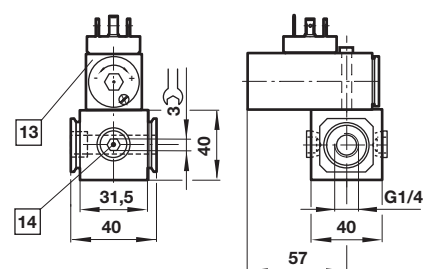


1 Main ports 1/4" or 3/8" ISO G/PTF
 11 Exhaust port M5 at 3/2 valve only

Dimensions in mm
 Projection/First angle



Porting block for pressure switch



13 Pressure switch is not in scope of delivery
 14 Alternative G1/4 ports plugged

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.

R82G -Pressure Regulators Excelon® Plus Modular System



- > Port size: 1/4" ... 3/8"
(ISO G/PTF)
- > Excelon® Plus design allows in-line installation or modular installation with other Excelon® Plus products
- > Push to lock adjusting knob with built in tamper resistant feature
- > Easy to read flush mounted integrated pressure gauge as standard



Technical features

Medium:

Compressed air only

Maximum supply pressure:
20 bar (290 psi)

Outlet pressure ranges:
0,3 ...10 bar (4 ... 145 psi),
0,3 ... 4 bar (4 ... 58 psi) optional,
0,7 ... 17 bar (10 ... 247 psi) optional

Gauge:
Integrated as standard
Gauge port 1/8 as option

Port size:

G1/4, G3/8,
1/4 PTF, 3/8 PTF

Diaphragm Type:
Relieving

Flow:
33 dm³/s (port size: 1/4") and
31 dm³/s (port size: 3/8") at
inlet pressure 10 bar (145 psi),
6,3 bar (91 psi) set pressure and a
Δp: 1 bar (14,5 psi) droop from set.

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).

Atex:

Regulators R82 are in conformity
with Atex 2014/34/EU




II 2 GD
Ex h IIC T6 Gb
EX h IIIC T85°C Db

Materials:

Body: Die cast aluminium
Body covers: ABS
Bonnet: POM/Aluminium
Valve: PP
Elastomers: NBR

Technical data R82G—standard models

Symbol	Port size	Pressure range (bar)	Adjustment	Integrated gauge (bar)	Weight (kg)	Model *1)
	G1/4	0,3 ... 10	Knob	0 ... 10	0,23	R82G-2GK RMG
	G3/8	0,3 ... 10	Knob	0 ... 10	0,23	R82G-3GK-RMG

*1) All models shown here are supplied with integrated gauge applicable for flow direction left to right.

Option selector *1)

Flow	Substitute
General	G
Reverse flow	R
Port size	Substitute
1/4"	2
3/8"	3
Thread form	Substitute
PTF	A
ISO G (standard)	G
Adjustment	Substitute
Knob	K
T-bar	T*2)

R82★-★★★-R★★

Gauge	Substitute
With integrated gauge	G
Without integrated gauge but with gauge port 1/8"	N
Pressure range *3)	Substitute
0.3 ... 4 bar	F
0.3 ... 10 bar (standard)	M
0.7 ... 17 bar	S*2)

*3) 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.

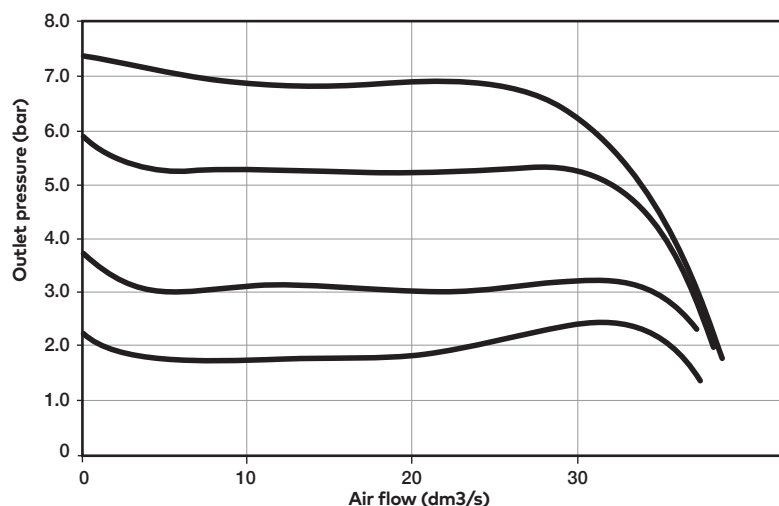
*2) Units with 17 bar outlet pressure range are available only with the T-bar adjustment; therefore substitute T at the 7th position and S at the 9th position. T-bar handle only available with 17 bar option.

Flow characteristics

Inlet pressure: 10 bar (145 psi)

Range: 0.3...10 bar (4...145 psi)

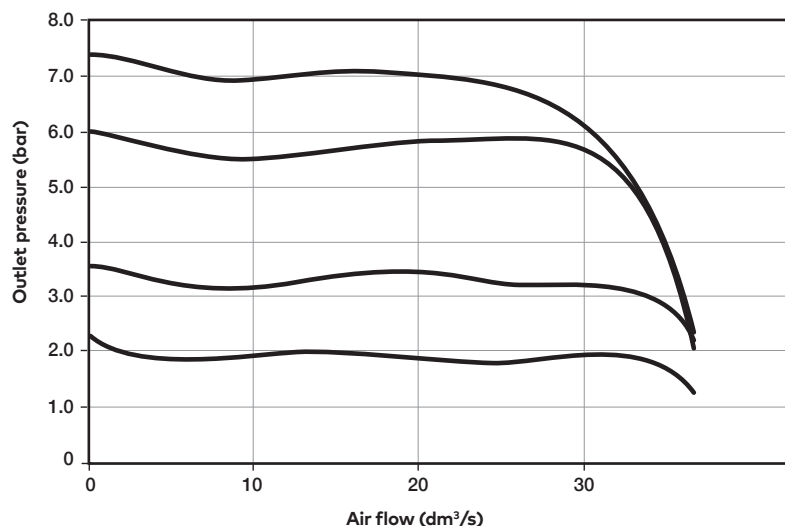
Port size: 1/4"



Inlet pressure: 10 bar (145 psi)

Range: 0.3...10 bar (4...145 psi)

Port size: 3/8"



Accessories

Quikclamp®



Page 3

820014-51KIT

Quikclamp® with bracket assembled



Page 3

820014-52KIT

Neck mounting bracket and panel nut



Page 4

820068-51KIT

Panel mounting nut



Page 4

820048-89KIT

Mounting bracket



Page 4

820024-50KIT

Integrated gauge 10 bar gauge



820073-01KIT

Integrated gauge 20 bar gauge



820073-02KIT

Integrated gauge 4 bar gauge



820073-03KIT

Gauge adaptor kit 1/8 PTF



820100-01KIT

Gauge adaptor kit R 1/8



820100-02KIT

Pressure sensing block 1/4 PTF



Page 4

820016-50KIT

Pressure sensing block G1/4



Page 4

820016-51KIT

Porting block 3/8" PTF



Page 4

820028-50KIT

Porting block G3/8



Page 4

820028-53KIT

Pressure switch interface block (18D pressure switch) G1/4



Page 5

0523109000000000

Pressure switch 18D (0,5 ... 8bar) *1



Page 5

0881300

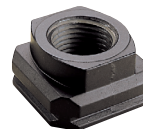
Digital pressure switch 51D (-1 ... 10 bar) *2



Page 5

0860810

Port Adaptors



Page 5

1/4 PTF 820015-02KIT

3/8 PTF 820015-03KIT

G1/4 820015-08KIT

G3/8 820015-09KIT

Service Kits

R82 / B82 Elastomere kit



FRLB82-Kit

*1) Flanged version. For other pressure ranges, please see data sheet 5.11.001

*2) For other pressure ranges, please see data sheet 5.11.385

Gauges (For regulators with gauge port instead of integrated port)

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



Pressure range (bar)*3 (MPa)	(psi)	ø	Thread size	Model	
0 ... 6	0 ... 0,6	0 ... 84	40 mm	R1/8	18-015-885
0 ... 10	0 ... 1	0 ... 145	40 mm	R1/8	18-015-989
0 ... 25	0 ... 2,5	0 ... 362	40 mm	R1/8	18-015-908

*3) primary scale

Padlock



840055-01KIT

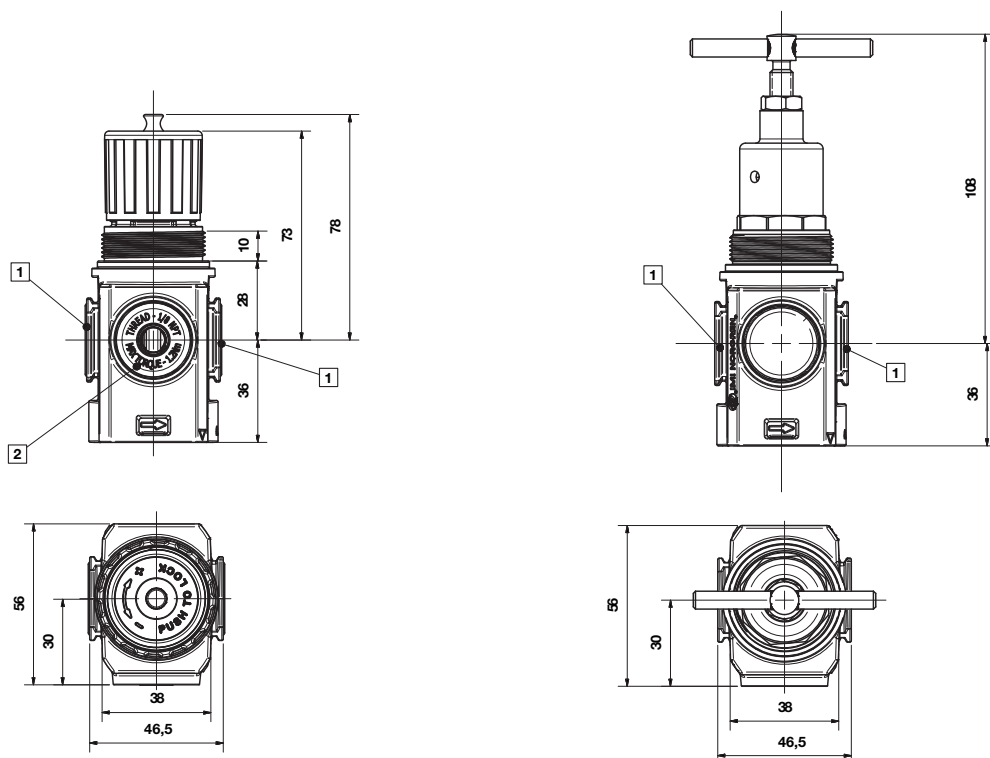
Lockout device



840055-02KIT

Dimensions

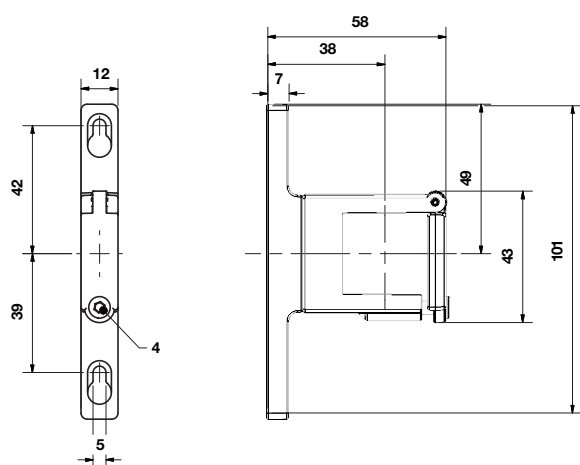
Dimensions in mm
Projection/First angle



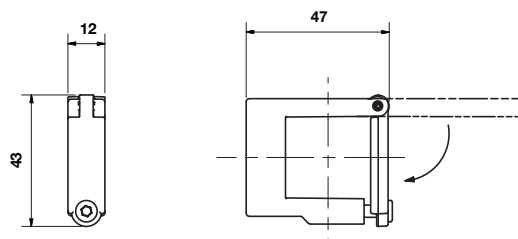
- 1 Main ports 1/4", 3/8",
(ISO G/PTF)
- 2 Gauge port Rc 1/8 for
ISO G and 1/8 PTF
for PTF main ports

Accessories

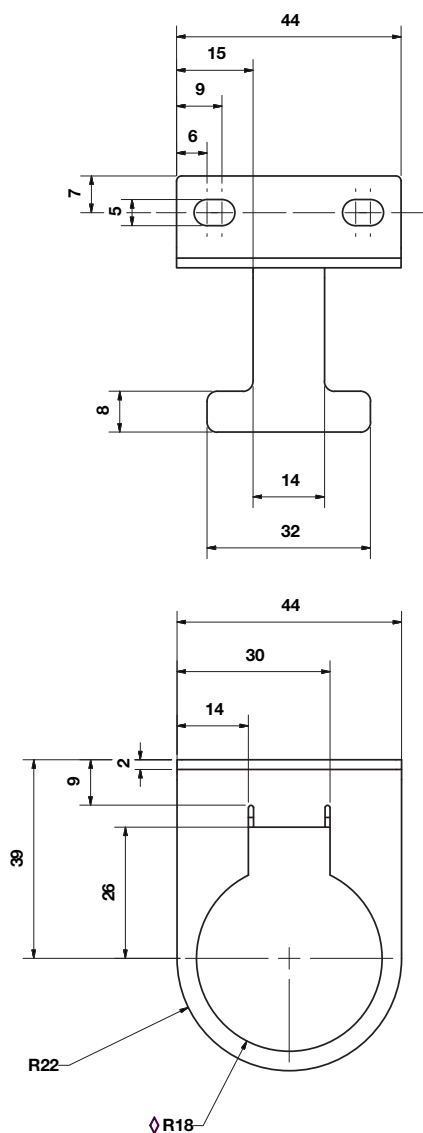
Quikclamp® with wall bracket



Quikclamp®

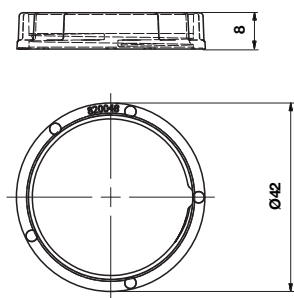


Neck mounting bracket



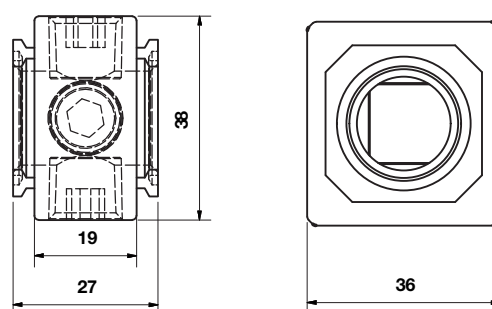
Panel mounting nut

Dimensions in mm
Projection/First angle

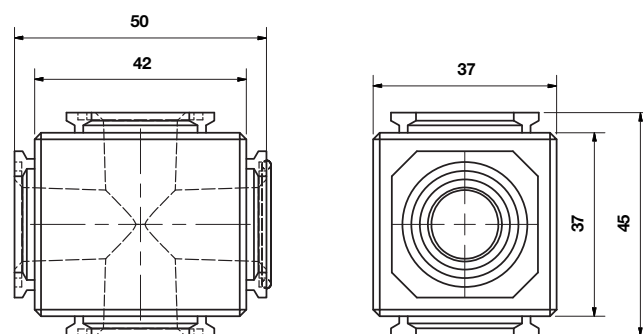


Recommended panel hole size:
ø 36.25 ... 36.75 mm
Panel thickness:
up to 4mm

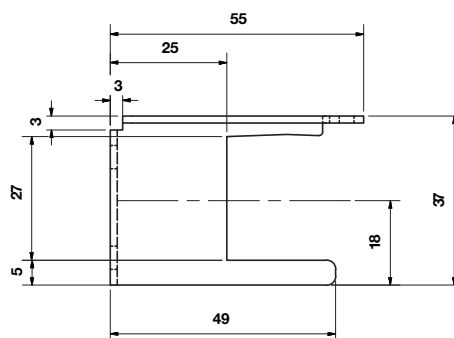
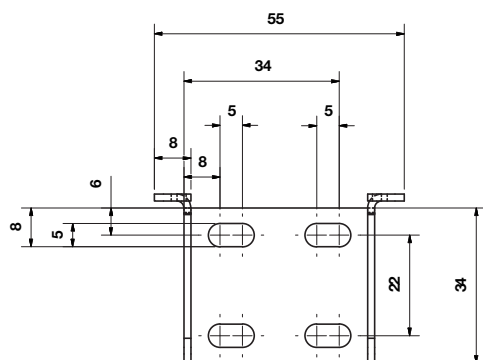
Pressure sensing block



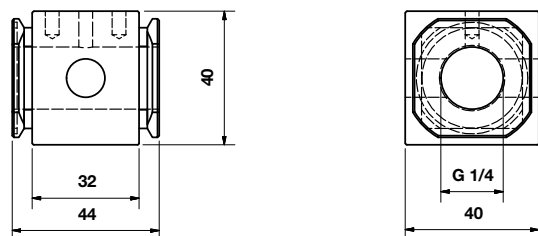
Porting block



Wall Mounting bracket

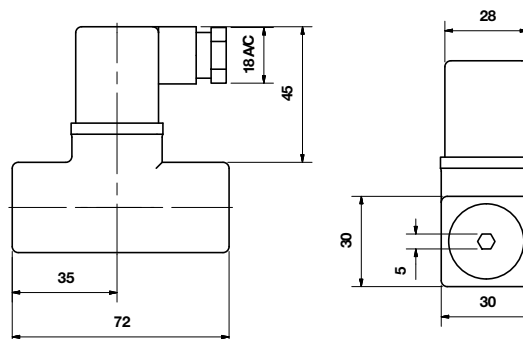


Porting block

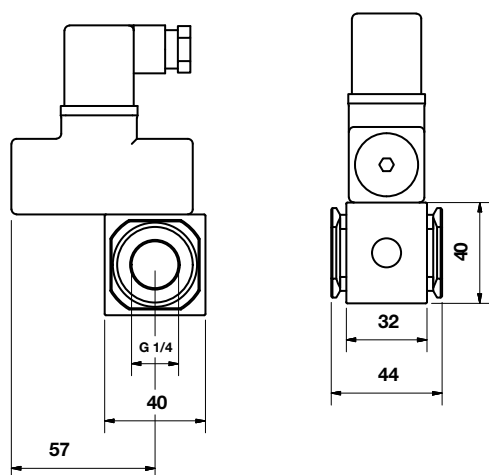


18D Pressure switch

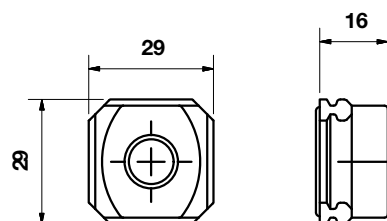
Dimensions in mm
Projection/First angle



18D Porting block and 18D assembled

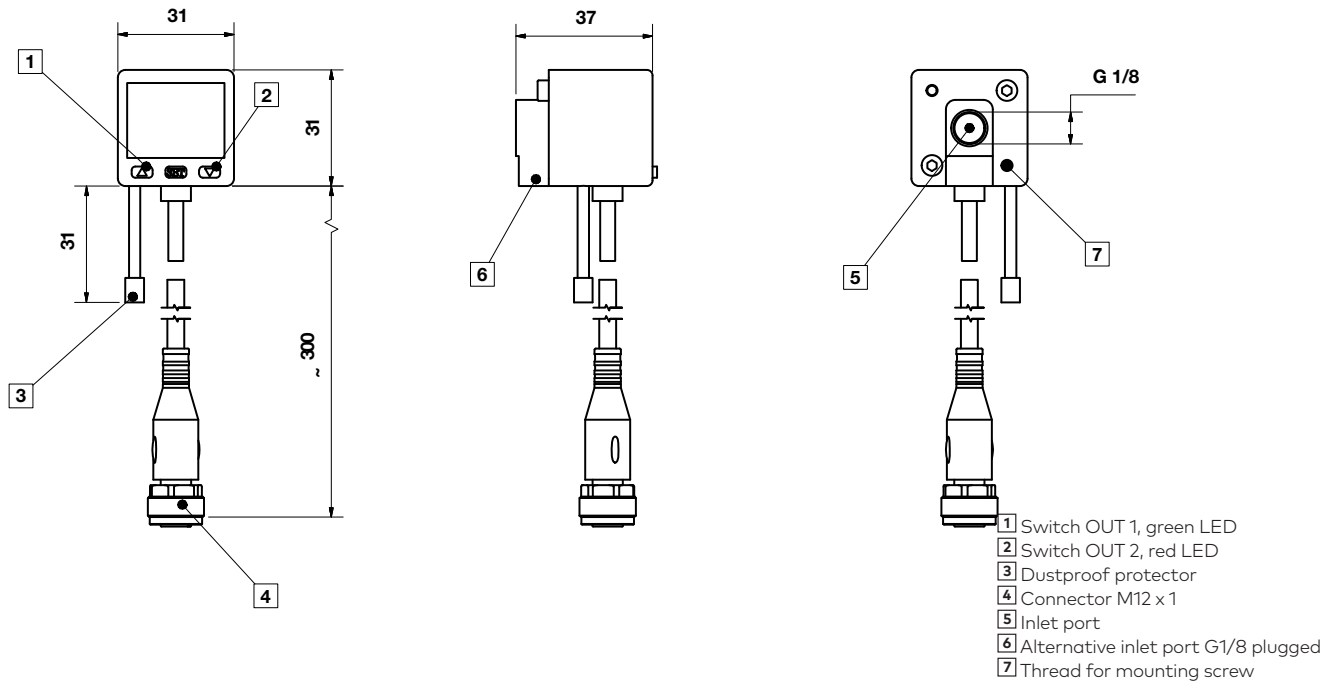


Pipe adaptor



51D Pressure switch - digital

Dimensions in mm
Projection/First angle



Warning

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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.

- > **Port size: 1/4" or 3/8"**
(ISO G/PTF)
- > **Excelon design allows**
in-line or modular
installation
- > **Manifold typically up to**
six regulators without
booster signal
- > **Balanced valve design**
for optimum pressure
control
- > **Push to lock**
adjusting knob with
optional tamper
resistant accessory



Technical features

Medium:

Compressed air only

Maximum operating pressure:

20 bar (300 psi)

Two inlet ports:

G1/4 or G3/8 ISO G

1/4 or 3/8 PTF

One outlet port:

G1/4

1/4 PTF

One gauge port:

Rc 1/8 with ISO G main ports

1/8 PTF with PTF main ports

Flow:

39 dm³/s

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.

Ambient/Media temperature:

-34 ... +65°C (-30 ... +149°F)

Air supply must be dry enough
to avoid ice formation at
temperatures below +2°C (+35°F).

Materials:

Body: Zinc


Bottom plug: Acetal

Bonnet: Acetal

Valve: PP and TPV

Elastomers: NBR

Technical data - standard models - with diaphragm

Symbol	Inlet port (2)	Outlet port (1)	Size	Pressure range (bar)	Adjustment	Weight (kg)	Model
	G1/4	G1/4	Basic	0,3 ... 10	Knob	0,36	R72M-2GK-RMN
	G3/8	G1/4	—	0,3 ... 10	Knob	0,36	R72M-3GK-RMN

Option selector

Port size	Substitute
1/4"	2
3/8"	3
Thread form	Substitute
PTF	A
ISO G parallel	G

R72M-★★K-★★★

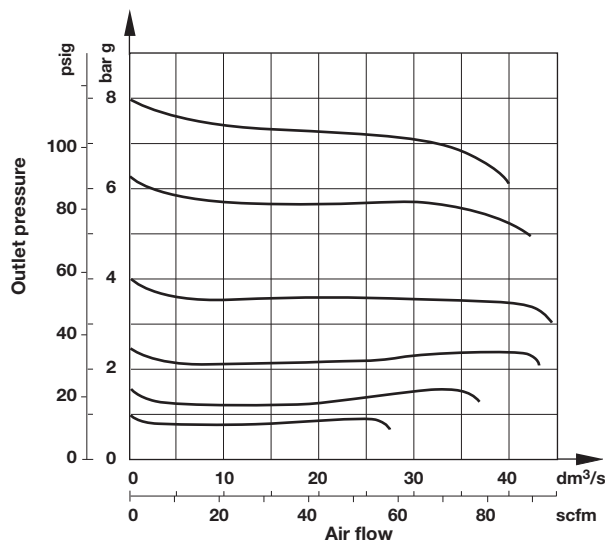
Gauge	Substitute
With	G
Without (standard)	N
Outlet pressure adjustment range *2)	Substitute
0,3 ... 2 bar	C
0,3 ... 4 bar	F
0,3 ... 10 bar (standard)	M
Diaphragm	Substitute
Relieving (standard)	R
Non relieving	N

*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.





Flow characteristics

Port size: 3/8"

Inlet pressure: 10 bar (145 psi)



Accessories

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



0523109000000000

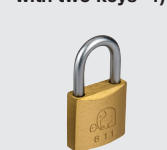
Pressure switch (0,5 ... 8 bar)



0881300000000000

Padlock

Padlock (brass) with two keys *1)

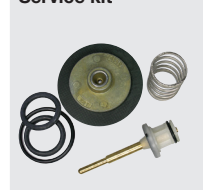


0613633000000000

*1) for shut-off valves and tamper resistant kit

Service kit

Service kit



R72G-KITR

Gauge

Bottom connection, black face (for full technical specification see datasheet 8.900.900)



Pressure range		MPa	Ø	Thread size	Model
psig *1)	bar				
0 ... 58	0 ... 4	0 ... 0,4	40 mm	R1/8	18-015-277
0 ... 145	0 ... 10	0 ... 1	40 mm	R1/8	18-015-279

*1) primary scale

Bottom connection, black face for North America (for full technical specification see datasheet 8.900.900) Pressure range

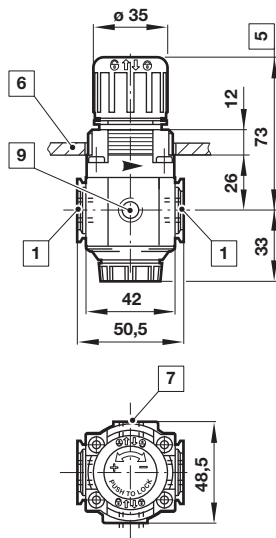


psig *1)	bar	MPa	Ø	Thread size	Model
0 ... 30	0 ... 2	0 ... 0.2	1.5" (40 mm)	1/8 NPT	18-015-224
0 ... 60	0 ... 4	0 ... 0.4	1.5" (40 mm)	1/8 NPT	18-015-225
0 ... 160	0 ... 11	0 ... 1.1	1.5" (40 mm)	1/8 NPT	18-015-273

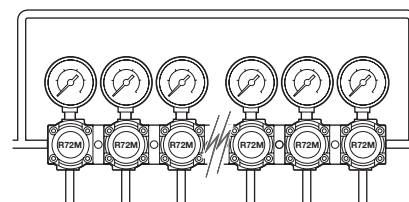
*1) primary scale

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 Rc1/8 or 1/8 PTF plugged
- 9 Outlet port 1/4"



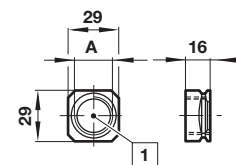
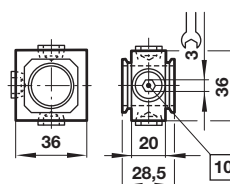
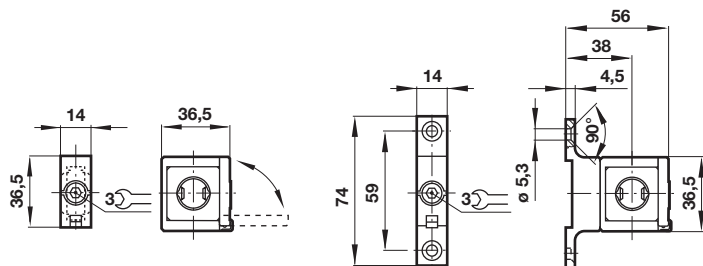
Accessories

Quikclamp®

Quikclamp® with wall bracket

Porting block

Pipe adapter



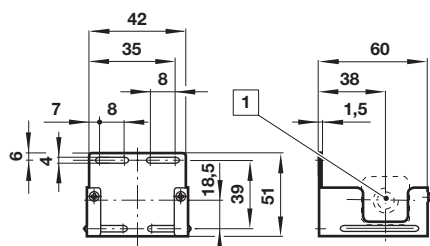
- 1 Main ports 1/4" or 3/8" ISO G/PTF

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

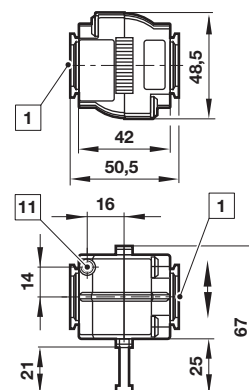
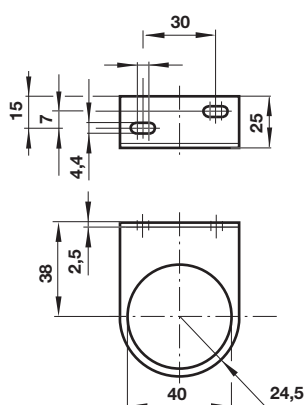
Wall mounting bracket

Neck mounting bracket

Shut-off valves

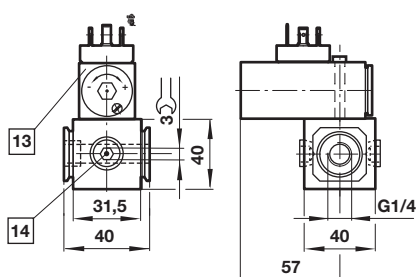


- 1 Main ports



- 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«.

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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.

- > **Port size: 1/4" ... 1/2"**
(ISO G/PTF)
- > **Excelon design allows in-line or modular installation**
- > **Push to lock adjusting knob with optional 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)

Optional

0,3 ... 4 bar (4 ... 58 psi)

0,7 ... 17 bar (10 ... 250 psi)

Port size:

G1/4, G3/8, G1/2,
1/4 PTF, 3/8 PTF 1/2 PTF

Gauge port:

Rc 1/8 with ISO G main ports
1/4 PTF with PTF main ports

Flow:

60 dm³/s maximum

At port size: 3/8"

Inlet pressure 10 bar (145 psi);

6,3 bar (91 psi) set pressure and a

Δp: 1 bar (14,5 psi) droop from set

Non-return valve:

R73G – without return valve

R73R – with return valve

Ambient/Media temperature:

-34° ... +80°C (-30° ... +176°F)

Version with gauge:

-34° ... +65°C (-30° ... +149°F)

Air supply must be dry enough

to avoid ice formation at

temperatures below +2°C (+35°F).

Materials:


Body: Die cast aluminium

Bottom plug: Acetal


Metal bonnet: Zinc

Elastomers: NBR

Technical data R73G - standard models with diaphragm

Symbol	Port size	Size	Pressure range (bar)	Adjustment	Weight (kg)	Model
	G1/4	—	0,3 ... 10	Knob	0,48	R73G-2GK-RMN
	G3/8	Basic	0,3 ... 10	Knob	0,48	R73G-3GK-RMN
	G1/2	—	0,3 ... 10	Knob	0,48	R73G-4GK-RMN

Technical data R73R with diaphragm

Symbol	Port size	Size	Pressure range (bar)	Adjustment	Weight (kg)	Model
	G1/4	—	0,3 ... 10	Knob	0,48	R73R-2GK-RMN
	G3/8	Basic	0,3 ... 10	Knob	0,48	R73R-3GK-RMN
	G1/2	—	0,3 ... 10	Knob	0,48	R73R-4GK-RMN

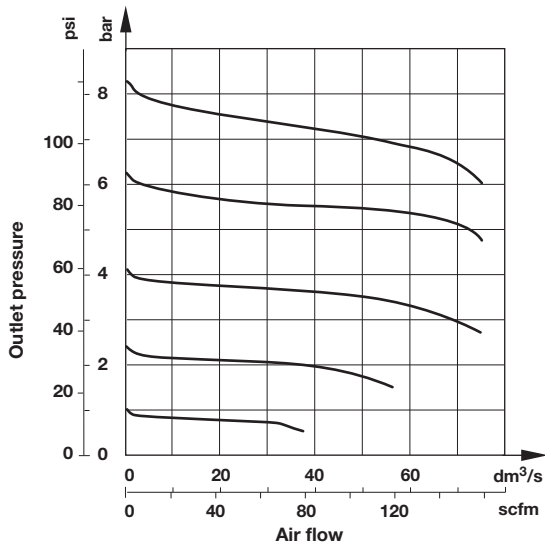
Option selector

		R73★-★★★★★★			
Non-return valve	Substitute			Gauge	Substitute
Without (standard)	G			With	G
Integrated	R			Without (standard)	N
Port size	Substitute			Outlet pressure adjustment range *2)	Substitute
1/4"	2			0,3 ... 4 bar	F
3/8"	3			0,3 ... 10 bar (standard)	M
1/2"	4			0,7 ... 17 bar	S
Thread form	Substitute			Diaphragm	Substitute
PTF	A			Relieving (standard)	R
ISO G parallel (standard)	G			Non relieving	N
Adjustment	Substitute				
Knob (standard)	K				
T-bar	T				

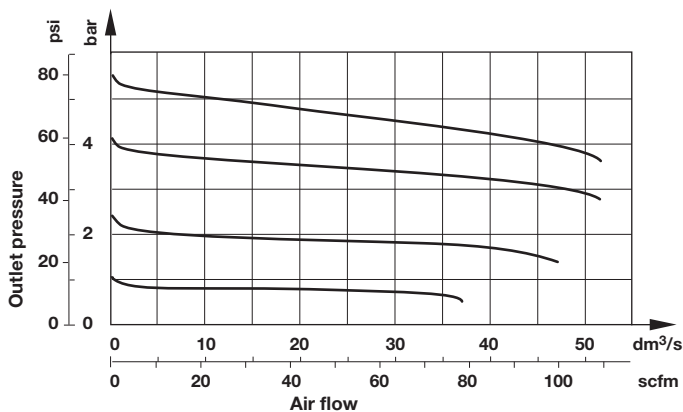
*2) Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

Flow characteristics

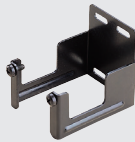









Inlet pressure: 10 bar (145 psi)
Port size: 3/8"



Inlet pressure: 7 bar (101 psi)
Port size: 3/8"



Accessories

Wall mounting bracket 	Neck mounting bracket 	Panel nut 	Quikclamp® 	Quikclamp with wall bracket® 	Tamper resistant kit 
Page 4 4424-50	Page 4 4461-50	5191-88	Page 3 4314-51	Page 3 4314-52	4455-51
Quikmount pipe adaptor *1) 	Porting block with three alternative 1/4" ports 	2/2 Shut-off valves (for full technical specification see datasheet 8.180.600) 	3/2 Shut-off valves (for full technical specification see datasheet 8.180.600) 		
Page 3 G1/4: 4315-09 G3/8: 4315-10 G1/2: 4315-11 1/4 PTF: 4315-01 3/8 PTF: 4315-02 1/2 PTF: 4315-03	Page 3 G1/4: 4316-52 1/4 PTF: 4316-50	Page 4 G1/4: T73B-2GA-P1N G3/8: T73B-3GA-P1N G1/2: T73B-4GA-P1N 1/4 PTF: T73B-3AA-P1N 3/8 PTF: T73B-2AA-P1N 1/2 PTF: T73B-4AA-P1N	Page 4 G1/4: T73T-2GA-P1N G3/8: T73T-3GA-P1N G1/2: T73T-4GA-P1N 1/4 PTF: T73T-3AA-P1N 3/8 PTF: T73T-2AA-P1N 1/2 PTF: T73T-4AA-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



Page 3

0523110000000000

Pressure switch (0,5 ... 8 bar)



0881300000000000

Padlock

Padlock (brass) with two keys *1)



0613633000000000

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

Service kits

Service kit



R73G-KITR

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 ... 6	0 ... 0,6	0 ... 84	50 mm	R1/8	18-015-012
0 ... 10	0 ... 1	0 ... 145	50 mm	R1/8	18-015-013
0 ... 25	0 ... 2,5	0 ... 362	50 mm	R1/8	18-015-014

*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 ... 60	0 ... 4	0 ... 0,4	2" (50 mm)	1/4 NPT	18-015-208
0 ... 160	0 ... 11	0 ... 1,1	2" (50 mm)	1/4 NPT	18-015-209
0 ... 300	0 ... 20	0 ... 2,1	2" (50 mm)	1/4 NPT	18-015-210

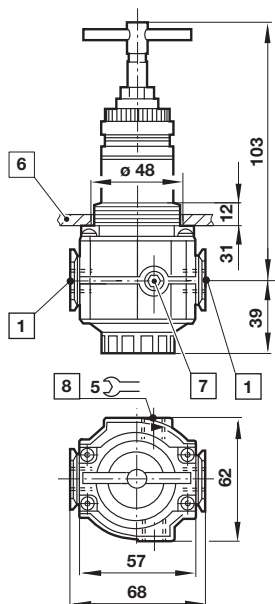
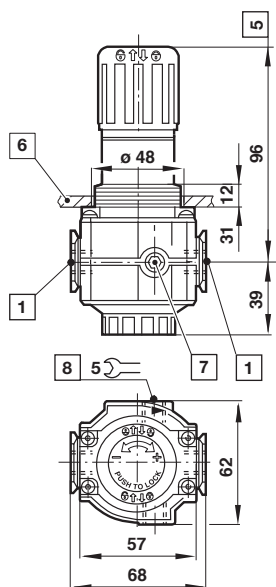
*1) primary scale

Drawings

Standard

T-bar

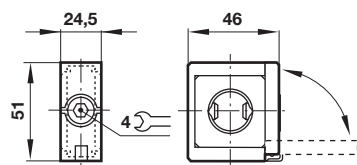
Dimensions in mm
Projection/First angle



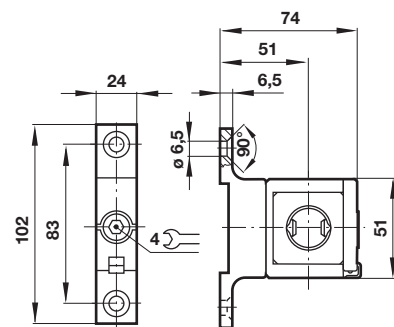
- 1 Main ports 1/4", 3/8" or 1/2"
- 5 Reduces by 4 mm with knob in locked position
- 6 Panel thickness 2 ... 6 mm
- 7 Gauge port Rc1/8 for ISO G and 1/4 PTF for PTF main ports
- 8 Alternative gauge port plugged

Accessories

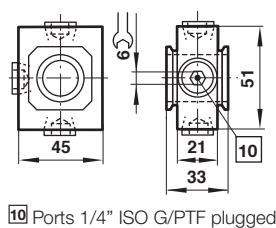
Quikclamp®



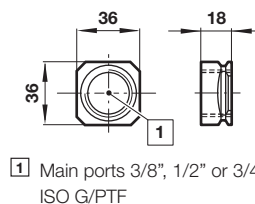
Quikclamp® with wall bracket



Porting block



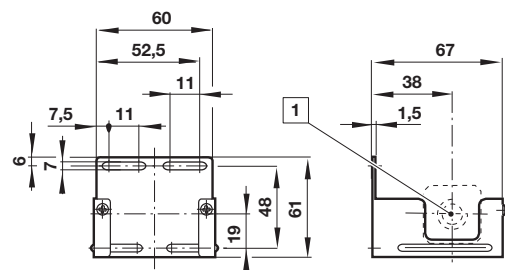
Pipe adapter



- 1 Main ports 3/8", 1/2" or 3/4" ISO G/PTF

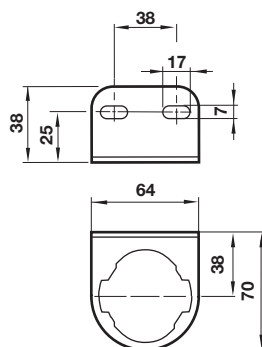
- 10 Ports 1/4" ISO G/PTF plugged

Wall mounting bracket



1 Main ports

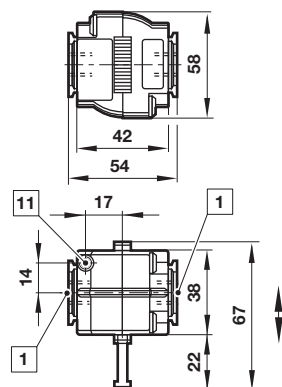
Neck mounting bracket



Dimensions in mm
Projection/First angle

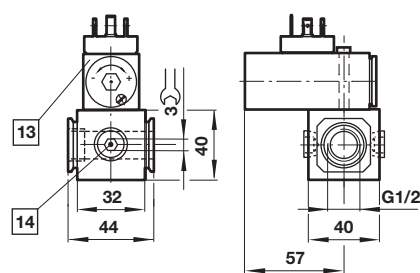


Shut-off valves



- 1 Main ports 1/4", 3/8" or 1/2" ISO G/PTF
- 2 Exhaust port M5 at 3/2 valve only

Porting block for pressure switch



- 13 Pressure switch is not in scope of delivery
- 14 Alternative G1/2 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.

- > **Port size: 3/8" ... 3/4"**
(ISO G/NPT)
- > **Excelon design allows in-line or modular installation**
- > **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)

Optional:

0,3 ... 4 bar (4 ... 58 psi)

0,7 ... 17 bar (10 ... 250 psi)

Port size:

G3/8, G1/2, G3/4,
3/8 PTF 1/2 PTF, 3/8 PTF

Gauge port:

Rc 1/8 with ISO G main ports
1/4 PTF with PTF main ports

Flow:

105 dm³/s maximum

At port size: 1/2"

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:

R74G – without return valve

R74R – with return valve

Ambient/Media temperature:

-34° ... +80°C (-30° ... +176°F)

Version with gauge:

-34° ... +65°C (-30° ... +149°F)

Air supply must be dry enough
to avoid ice formation at
temperatures below +2°C (+35°F).


Materials:

Body & Bonnet: Die cast aluminium


Bottom plug: Acetal

Elastomers: NBR

Technical data R74G - standard models

Symbol	Port size	Size	Pressure range (bar)	Adjustment	Weight (kg)	Model
	G3/8	—	0,3 ... 10	Knob	0,82	R74G-3GK-RMN
	G1/2	Basic	0,3 ... 10	Knob	0,80	R74G-4GK-RMN
	G3/4	—	0,3 ... 10	Knob	0,78	R74G-6GK-RMN

Technical data R74R - Reverse flow

Symbol	Port size	Size	Pressure range (bar)	Adjustment	Weight (kg)	Model
	G3/8	—	0,3 ... 10	Knob	0,82	R74R-3GK-RMN
	G1/2	Basic	0,3 ... 10	Knob	0,80	R74R-4GK-RMN
	G3/4	—	0,3 ... 10	Knob	0,78	R74R-6GK-RMN

Option selector

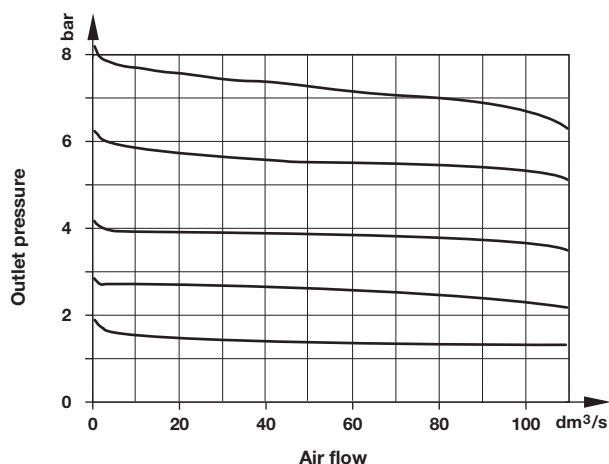
		R74★-★★★-★★★			
Return valve	Substitute			Gauge	Substitute
Without (standard)	G			With	G
Integrated	R			Without (standard)	N
Port size	Substitute			Outlet pressure adjustment range *2)	Substitute
3/8"	3			0,3 ... 4 bar	F
1/2"	4			0,3 ... 10 bar (standard)	M
3/4"	6			0,7 ... 17 bar	S*1)
Thread form	Substitute			Diaphragm	Substitute
PTF	A			Relieving (standard)	R
ISO G parallel (standard)	G			Non relieving	N
Adjustment	Substitute				
Knob (standard)	K				
T-bar	T*1)				

*1) Units with 17 bar outlet pressure range are available only with the T-bar adjustment; therefore substitute T at the 7th position and S at the 9th position.

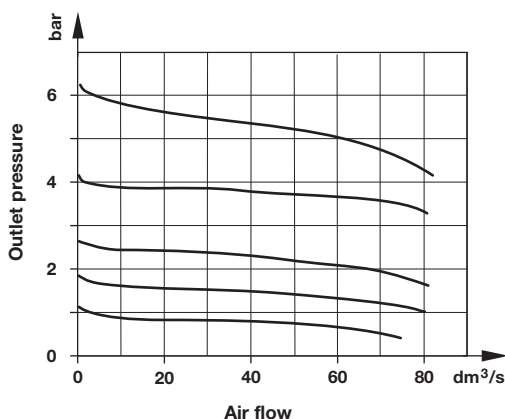
*2) Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

Flow characteristics

Inlet pressure: 10 bar (145 psi)
Port size: 1/2"



Inlet pressure: 7 bar (101 psi)
Port size: 1/2"






Accessories

Wall mounting bracket  Page 4 4324-50	Quikclamp®  Page 3 4314-51	Quikclamp with wall bracket®  Page 3 4314-52	Neck mounting bracket  Page 4 4368-51	Panel nut  4348-89	Tamper resistant kit  4355-51
Quikmount pipe adaptor  Page 3 G3/8: 4315-10 G1/2: 4315-11 G3/4: 4315-12 3/8 PTF: 4315-02 1/2 PTF: 4315-03 3/4 PTF: 4315-04	Porting block with three alternative 1/4" ports  Page 3 G1/4: 4316-52 1/4 PTF: 4316-50	2/2 Shut-off valves (for full technical specification see datasheet 8.200.600)  Page 4 G 3/8: T74B-3GA-P1N G 1/2: T74B-4GA-P1N G 3/4: T74B-6GA-P1N 3/4 PTF: T74B-6AA-P1N	3/2 Shut-off valves (for full technical specification see datasheet 8.200.600)  Page 4 G 3/8: T74T-3GA-P1N G 1/2: T74T-4GA-P1N G 3/4: T74T-6GA-P1N 1/2 PTF: T74T-4AA-P1N 3/4 PTF: T74T-6AA-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  Page 4 0523110000000000	Pressure switch (0,5 ... 8 bar)  0881300000000000	Padlock (brass) with two keys *1)  0613633000000000
--	---	---

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

Padlock

Service kits

Service kit  R74G-KITR
--

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 ... 6	0 ... 0,6	0 ... 84	50 mm	R1/8	18-015-012
0 ... 10	0 ... 1	0 ... 145	50 mm	R1/8	18-015-013
0 ... 25	0 ... 2,5	0 ... 362	50 mm	R1/8	18-015-014

*1) primary scale

Center back
connection, black face
for North America
(for full technical
specification
see datasheet
8.900.900)
Pressure range

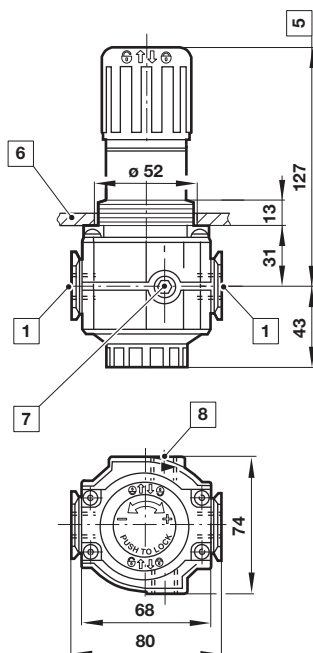


psig *1	bar	MPa	Ø	Thread size	Model
0 ... 60	0 ... 4	0 ... 0,4	2" (50 mm)	1/4 NPT	18-015-208
0 ... 160	0 ... 11	0 ... 1,1	2" (50 mm)	1/4 NPT	18-015-209
0 ... 300	0 ... 20	0 ... 2,1	2" (50 mm)	1/4 NPT	18-015-210

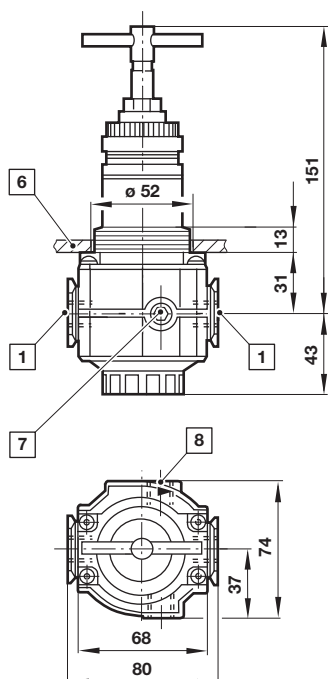
*1) primary scale

Drawings

Standard



T-bar



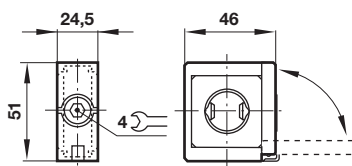
Dimensions in mm
Projection/First angle



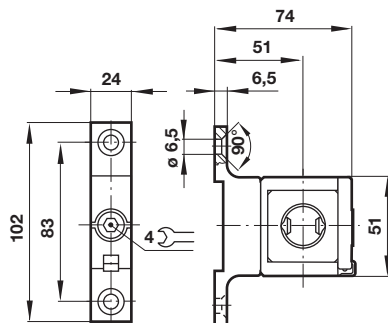
- 1 Main ports 3/8", 1/2" or 3/4"
- 5 Reduces by 4 mm with knob in locked position
- 6 Panel thickness 2 ... 6 mm
- 7 Gauge port Rc1/8 for ISO G and 1/4 PTF for PTF main ports
- 8 Alternative gauge port plugged

Accessories

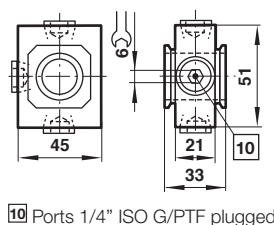
Quikclamp®



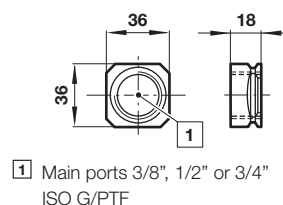
Quikclamp® with wall bracket



Porting block

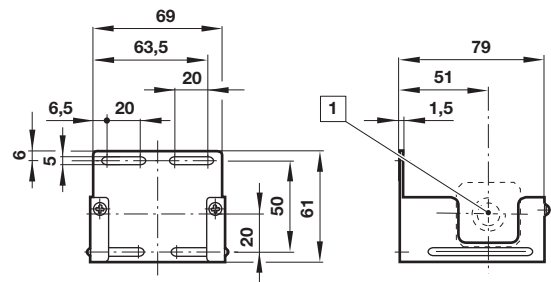


Pipe adapter



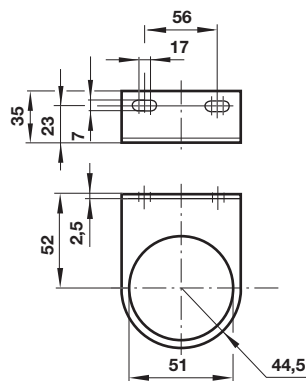
- 1 Main ports 3/8", 1/2" or 3/4" ISO G/PTF
- 10 Ports 1/4" ISO G/PTF plugged

Wall mounting bracket



1 Main ports

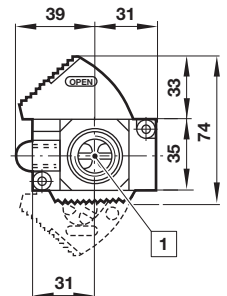
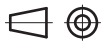
Wall mounting bracket Shut-off valves



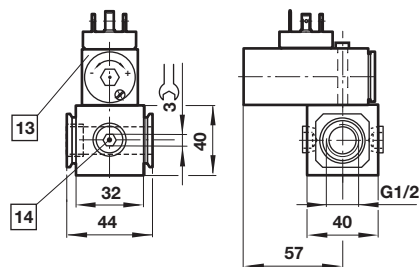
1 Main ports 3/8", 1/2" or 3/4" ISO G/PTF

11 Exhaust port Rc1/8 at 3/2 valve only

Dimensions in mm
Projection/First angle



Porting block for pressure switch



13 Pressure switch is not in scope of delivery

14 Alternative G1/4 ports plugged

Warning

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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 GmbH.

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.

- > **Port size: 1/2" or 3/4"**
(ISO G/PTF)
- > **Excelon design allows in-line or modular installation**
- > **Manifold typically up to six regulators without booster signal**
- > **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)

Two inlet ports:

G1/2 or G3/4 ISO G

1/2 or 3/4 PTF

One outlet port:

G1/2 ISO G

1/2 PTF

One gauge port:

Rc 1/8 with ISO G main ports

1/8 PTF with PTF main ports

Flow:

105 dm³/s maximum

At port size: 1/2"

Inlet pressure 10 bar (145 psi);

6,3 bar (91 psi) set pressure and a

Δp: 1 bar (14,5 psi) droop from set.

Ambient/Media temperature:

-34° ... +80°C (-30° ... +176°F)

Version with gauge:

-34° ... +65°C (-30° ... +149°F)

Air supply must be dry enough

to avoid ice formation at

temperatures below +2°C (+35°F).

Materials:


Body: Aluminum

Bonnet: Aluminum

Elastomers: NBR

Bottom plug: Acetal

Technical data - standard models - diaphragm

Symbol	Inlet port (2)	Outlet port (1)	Size	Pressure range (bar)	Adjustment	Weight (kg)	Model
	G1/2	G1/2	Basic	0,3 ... 10	Knob	0,80	R74M-4GK-RMN
	G3/4	G1/2		0,3 ... 10	Knob	0,78	R74M-6GK-RMN

Option selector

R74M-★ ★ ★ - ★ ★ ★

Port size	Substitute
1/2"	4
3/4"	6
Thread form	Substitute
PTF	A
ISO G parallel	G
Adjustment	Substitute
Knob (standard)	K
T-bar	T *1)

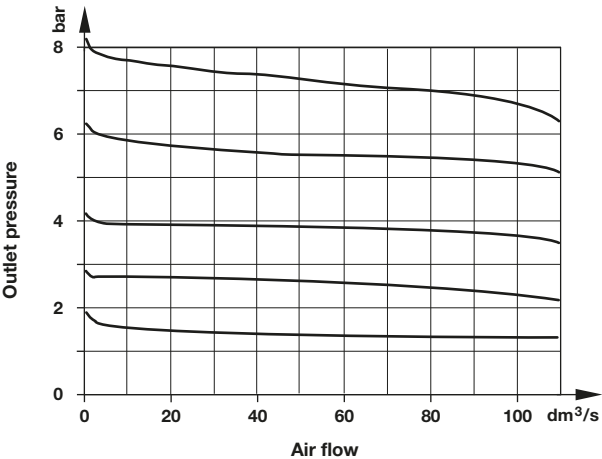
*1) Units with 17 bar outlet pressure range are available only with the T-bar adjustment; therefore substitute T at the 7th position and S at the 9th position.

Gauge	Substitute
With	G
Without (standard)	N
Outlet pressure adjustment range *2)	Substitute
0,3 ... 4 bar	F
0,3 ... 10 bar (standard)	M
0,7 ... 17 bar	S *1)
Diaphragm	Substitute
Relieving (standard)	R
Non relieving	N

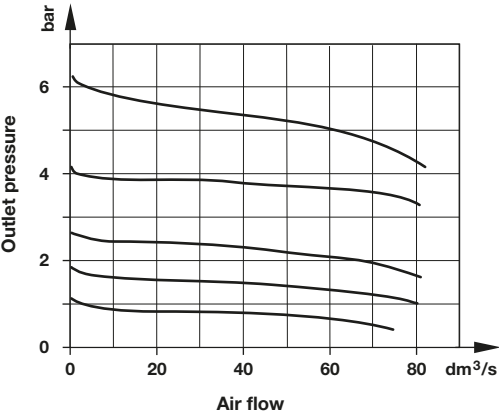
*2) Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

Flow characteristics










Inlet pressure: 10 bar (145 psi)
Port size: 1/2"



Inlet pressure: 7 bar (101 psi)
Port size: 1/2"






Accessories

Wall mounting bracket	Quikclamp®	Quikclamp with wall bracket®	Wall mounting bracket	Panel nut	Tamper resistant kit
					
Page 4	Page 3	Page 3	Page 4		
4324-50	4314-51	4314-52	4368-51	4348-89	4355-51
Quikmount pipe adaptor *1)	Porting block with three alternative 1/4" ports	2/2 Shut-off valves (for full technical specification see datasheet 8.200.600)	3/2 Shut-off valves (for full technical specification see datasheet 8.200.600)		
					
Page 3	Page 3	Page 4	Page 4		
G3/8: 4315-10	G1/4: 4316-52	G 3/8: T74B-3GA-P1N	G 3/8: T74T-3GA-P1N		
G1/2: 4315-11	1/4 PTF: 4316-50	G 1/2: T74B-4GA-P1N	G 1/2: T74T-4GA-P1N		
G3/4: 4315-12		G 3/4: T74B-6GA-P1N	G 3/4: T74T-6GA-P1N		
3/8 PTF: 4315-02					
1/2 PTF: 4315-03			1/2 PTF: T74T-4AA-P1N		
3/4 PTF: 4315-04		3/4 PTF: T74B-6AA-P1N	3/4 PTF: T74T-6AA-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)	Padlock (brass) with two keys *1)
		
Page 4		
0523110000000000	0881300000000000	0613633000000000

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

Service kits

Service kit

4381-700

Gauge

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



Pressure range psig *1) bar	MPa	Ø	Thread size	Model
0 ... 58 0 ... 4	0 ... 0,4	38 mm	R1/8	18-015-277
0 ... 145 0 ... 10	0 ... 1	38 mm	R1/8	18-015-279
0 ... 362 0 ... 25	0 ... 2,5	38 mm	R1/8	18-015-280

*1) primary scale

Center 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 ... 60 0 ... 4	0 ... 0.4	1 1/2" (38 mm)	1/8 NPT	18-015-225
0 ... 160 0 ... 11	0 ... 1.1	1 1/2" (38 mm)	1/8 NPT	18-015-273
0 ... 300 0 ... 20	0 ... 2.1	1 1/2" (38 mm)	1/8 NPT	18-015-276

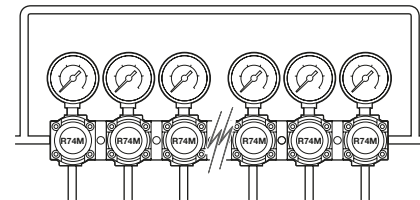
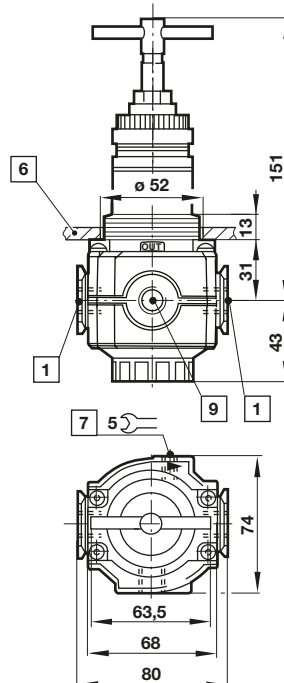
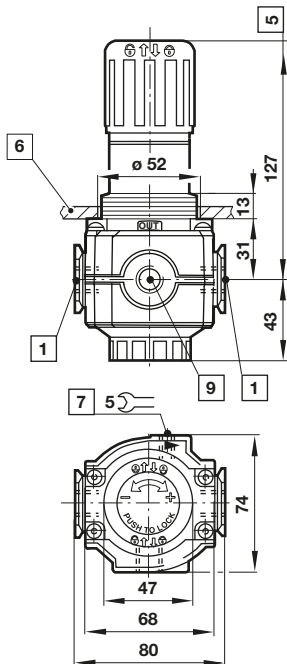
*1) primary scale

Drawings

Standard

T-bar

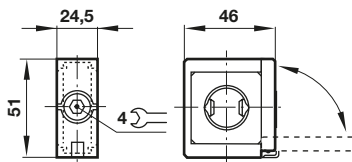
Dimensions in mm
Projection/First angle



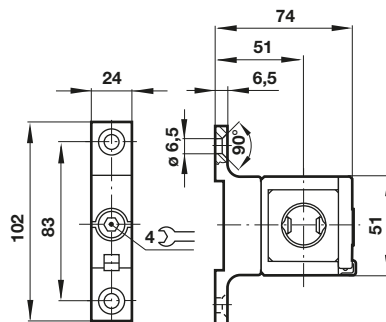
- 1 Inlet ports 3/8", 1/2" or 3/4"
- 5 Reduces by 4 mm with knob in locked position
- 6 Panel thickness 2 ... 6 mm
- 7 Gauge port Rc1/8 or 1/8 PTF plugged
- 9 Outlet port 1/2"

Accessories

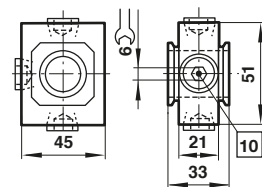
Quikclamp®



Quikclamp® with wall bracket

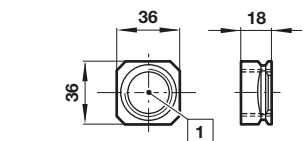


Porting block



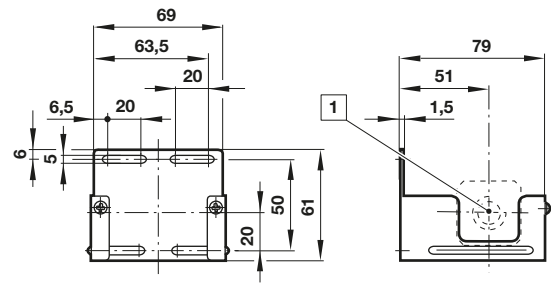
- 10 Ports 1/4" ISO G/PTF plugged

Pipe adapter



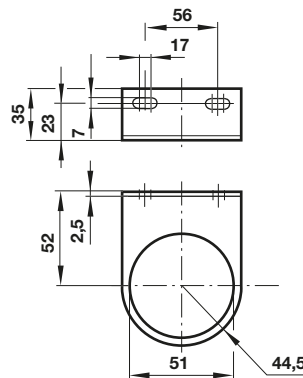
- 1 Main ports 3/8", 1/2" or 3/4" ISO G/PTF

Wall mounting bracket



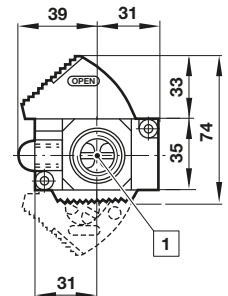
1 Main ports

Wall mounting bracket Shut-off valves

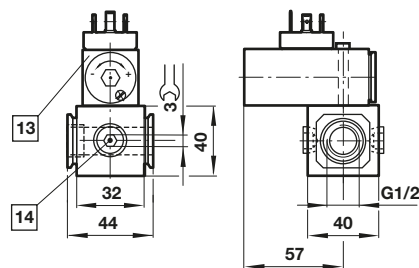


1 Main ports 3/8", 1/2" or 3/4" ISO G/PTF
 11 Exhaust port Rc1/8 at 3/2 valve only

Dimensions in mm
 Projection/First angle



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 GmbH.

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.

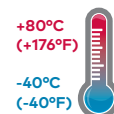
HR84G - Pressure regulator

For Extreme Temperature applications

Excelon® Plus Modular System



- > Port size: 3/8" ... 3/4" (ISO G/PTF)
- > ABS cover with High impact properties
- > Excelon® Plus design allows in-line installation or modular installation with other Excelon® Plus products
- > Salt Spray compliant to ISO 9227



Technical features pressure regulator

Medium:

Compressed air only

Maximum supply pressure:

20 bar (290 psi)

Outlet pressure ranges:

0.3 ... 10 bar (4 ... 145 psi),

0.3 ... 4 bar (4 ... 58 psi) optional,

0.7...17bar (10...247psi) optional

Gauge:

Gauge port as standard

(Rc 1/8 or 1/8 PTF)

Integrated gauge as option

Port size:

G3/8, G1/2, G3/4,
3/8 PTF, 1/2 PTF, 3/4 PTF

Diaphragm Type:

Relieving & Non-Relieving

Flow:

116 dm³/s at port size: 1/2",

Inlet pressure 10 bar (145 psi),

6.3 bar (91 psi) set pressure and

a Δp: 1 bar (14.5 psi) drop from set.

Ambient/Media temperature:

Unit with gauge port without integrated gauge :

-40 ... +80°C (-40 ... +176°F)

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Atex:

Regulators HR84 are in conformity with Atex 2014/34/EU



II 2 GD

Ex h IIC T6 Gb

EX h IIIC T85°C Db

Materials:

Body: Die cast aluminium

Body covers:

ABS (Magnum 3904)

Bonnet: Die cast Aluminium

Valve: Brass and

Low temperature Nitrile

Elastomers: Low temperature Nitrile

Diaphragm: Low temperature


Silicone, polyester reinforced

Lower spring rest and dia-

phragm retainer:

Aluminium

Technical data HR84G - standard models with gauge port Rc1/8 (without gauge)

Symbol	Port size	Pressure range (bar)	Adjustment	Diaphragm Type	Weight (kg)	Model*)
	G3/8	0.3 ... 10	T-bar	Relieving	0.75	HR84G-3GT-RMN
	G1/2	0.3 ... 10	T-bar	Relieving	0.75	HR84G-4GT-RMN
	G3/4	0.3 ... 10	T-bar	Relieving	0.73	HR84G-6GT-RMN

*) All models shown here are supplied with gauge port applicable for flow direction left to right.

Option selector *1)

Port size	Substitute
3/8"	3
1/2"	4
3/4"	6
Thread form	Substitute
PTF	A
ISO G	G
Adjustment	Substitute
T-bar	T

HR84G-★★T-★★★

Gauge	Substitute
Without integrated gauge but with gauge port 1/8"	N
With integrated gauge *3)	G
Pressure range *2)	Substitute
0.3 ... 4 bar	F
0.3 ... 10 bar (standard)	M
0.7 ... 17 bar	S
Diaphragm Type	Substitute
Relieving	R
Non-Relieving	N

*1) All models shown here are applicable for flow direction left to right.

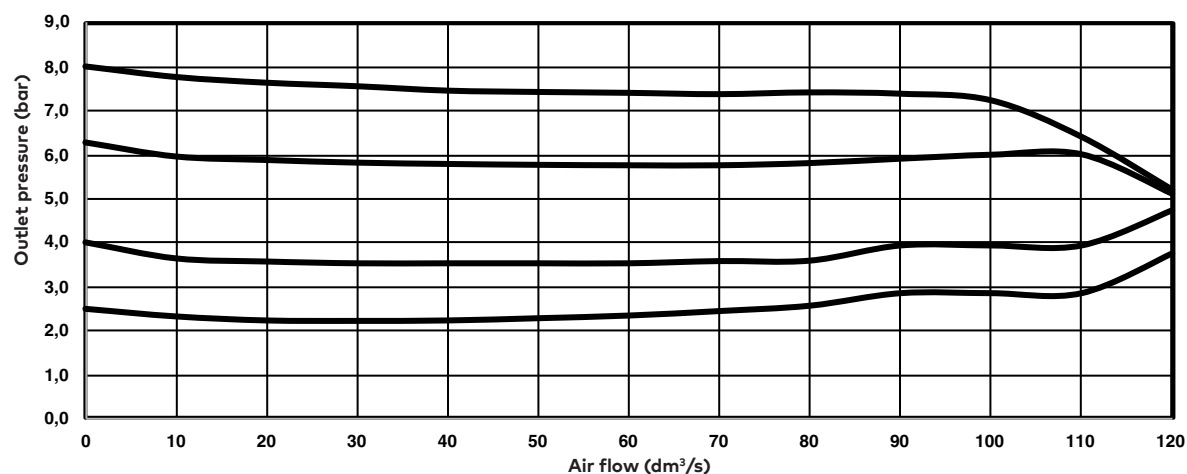
*2) Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

*3) Attention : With integrated gauge temperature range of the unit changes to -20°C ... +65°C

Flow characteristics

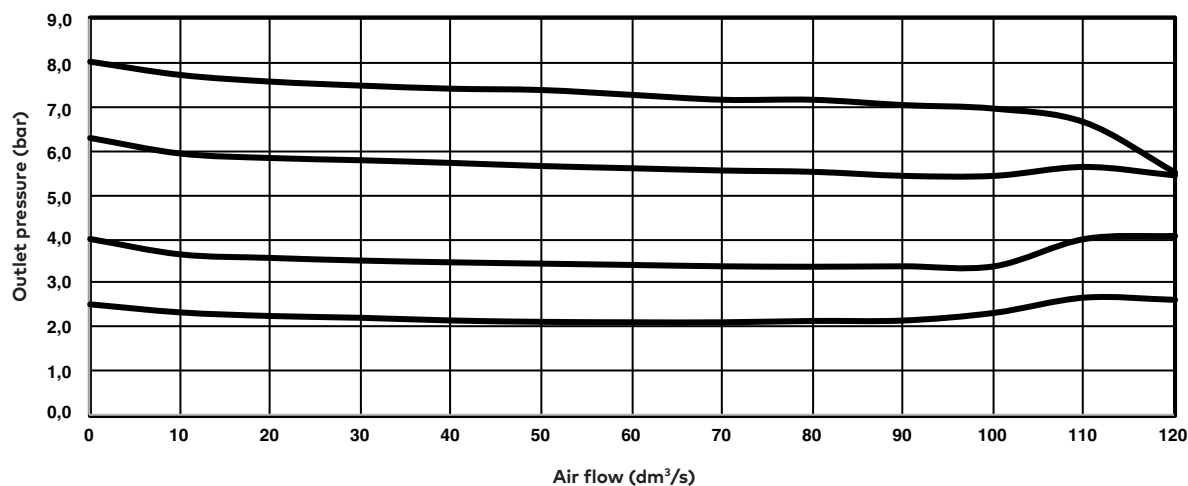
Inlet pressure: 10 bar (145 psi)

Port size: 1/2"



Inlet pressure: 10 bar (145 psi)

Port size: 3/8"



Accessories

Quickclamp®



Page 5

H840014-51KIT

Quickclamp® with bracket assembled



Page 5

H840014-52KIT

Neck mounting bracket and panel nut



Page 5

840068-51KIT

Panel mounting nut



Page 5

840048-89KIT

Mounting bracket



Page 5

840024-50KIT

Gauge adaptor kit 1/8 PTF



H840143-01KIT

Gauge adaptor kit R 1/8



H840143-02KIT

Full flow porting block horizontal, 3/4 PTF



Page 6

H840028-50KIT

Full flow porting block horizontal, G3/4



Page 6

H840028-53KIT

Full flow porting block vertical, 3/4"PTF



Page 6

H840028-68KIT

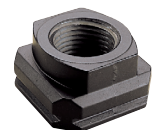
Full flow porting block vertical, G3/4"



Page 6

H840028-69KIT

Port Adaptors



Page 6

3/8 PTF	H840015-02KIT
1/2 PTF	H840015-03KIT
3/4 PTF	H840015-04KIT
G3/8	H840015-10KIT
G1/2	H840015-11KIT
G3/4	H840015-12KIT

Pressure sensing block 1/4 PTF



Page 6

H840016-50KIT

Pressure sensing block G1/4



Page 6

H840016-51KIT

Pressure switch interface block (18D pressure switch) G1/4



Page 6

0337717000000000

Pressure switch 18D (0,5 ... 8bar) *4



Page 7

0881300

Digital pressure switch 51D (-1 ... 10 bar) *2



Page 7

0860810

*2) -20 ... +60°C (-4 ... +140°F)

*4) -10°... +85°C (-14° ... +185°F)

HR84 / HB84 Elastomer Kit, relieving



HFRLB84-KIT

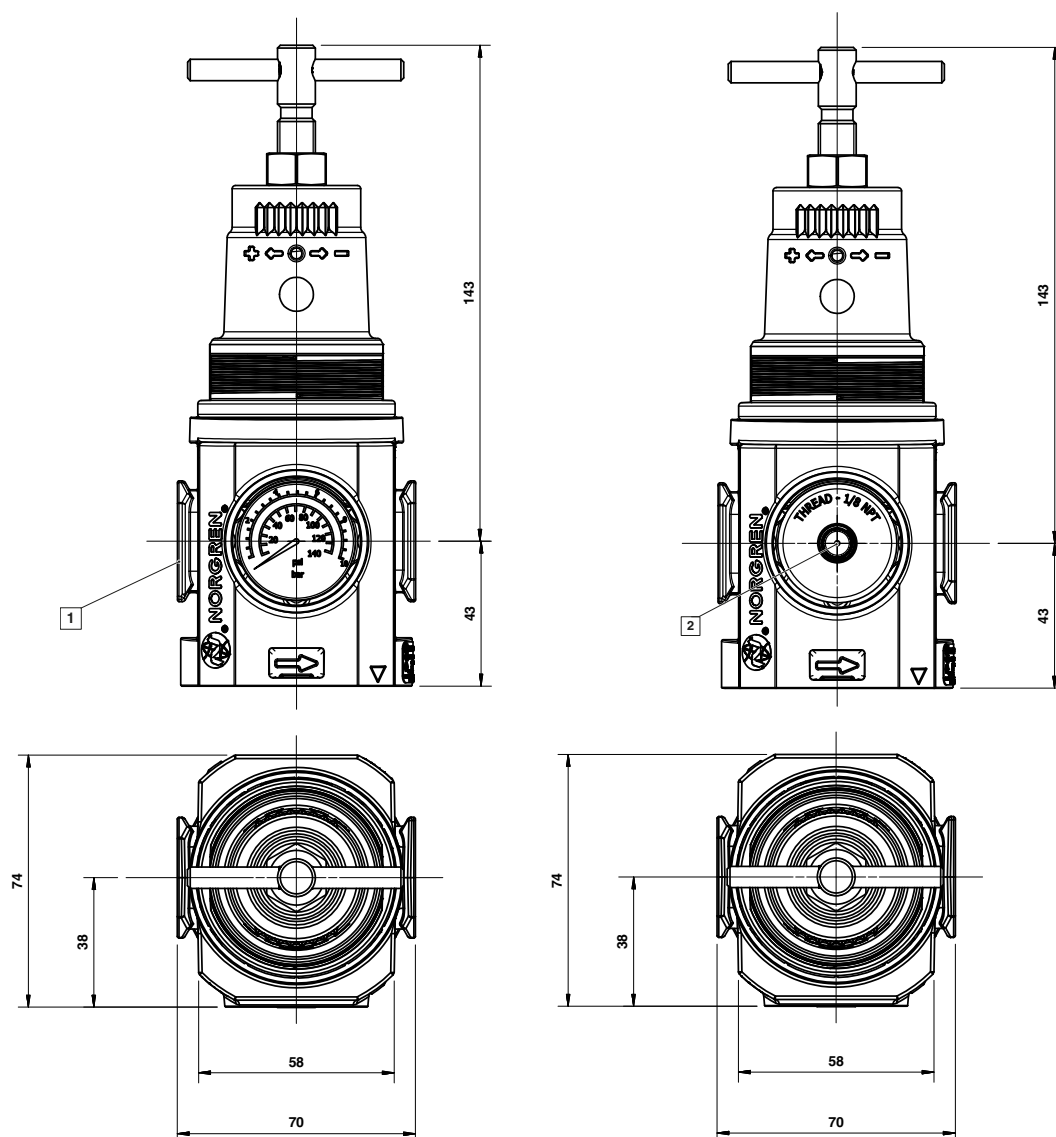
HR84 / HB84 Elastomer kit, Non-relieving



FRLB84NR-KIT

Dimensions

Dimensions in mm
Projection/First angle



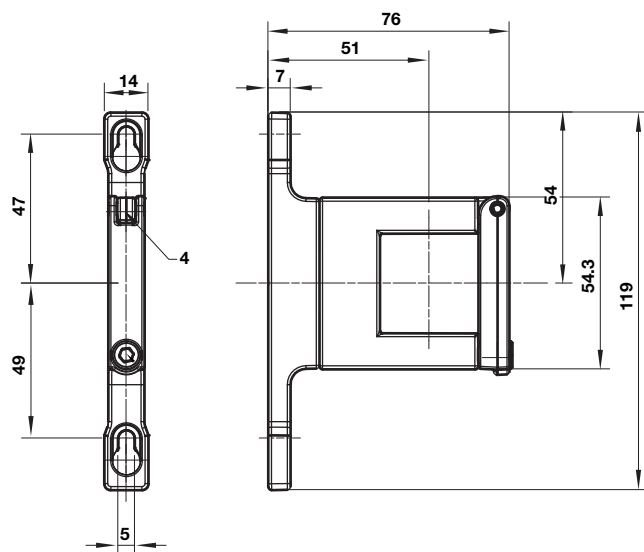
- 1 Main ports 3/8", 1/2" or 3/4"
(ISO G/PTF)
- 2 Gauge Port Rc 1/8 for ISO G and
1/8 PTF for PTF main ports

Accessories

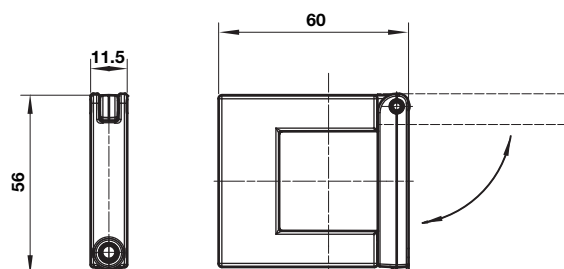
Dimensions in mm
Projection/First angle



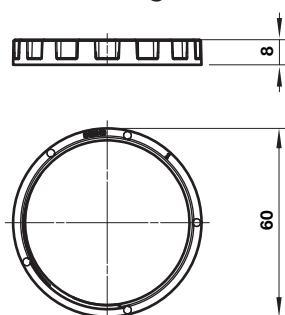
Quikclamp® with wall bracket



Quikclamp®

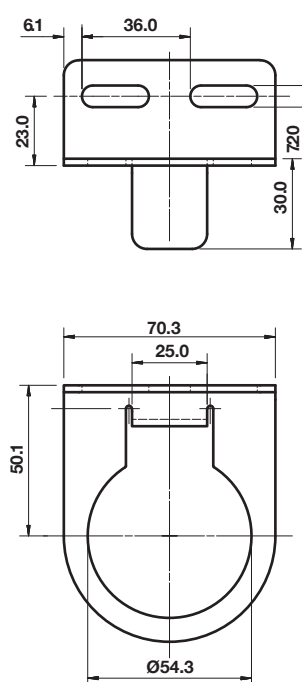


Panel mounting nut



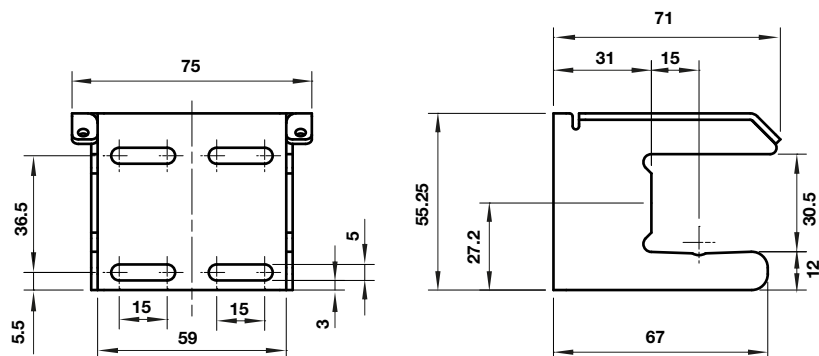
Recommended panel hole size:
ø 55 mm ... 57 mm
Panel thickness:
2 ... 6 mm

Neck mounting bracket



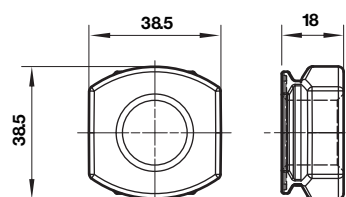
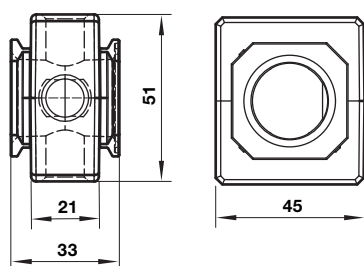
Mounting bracket

Dimensions in mm
Projection/First angle



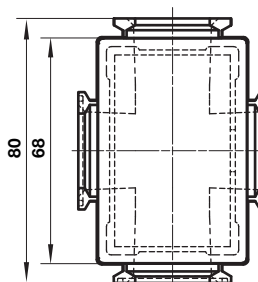
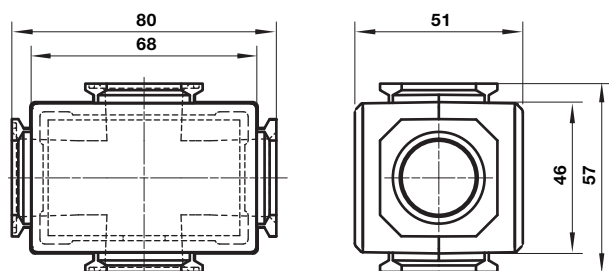
Pressure sensing block

Pipe adaptor

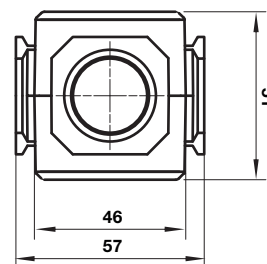
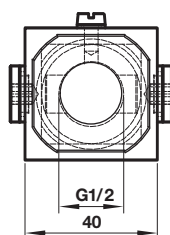
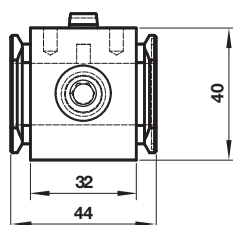


Full flow porting block horizontal

Full flow porting block vertical

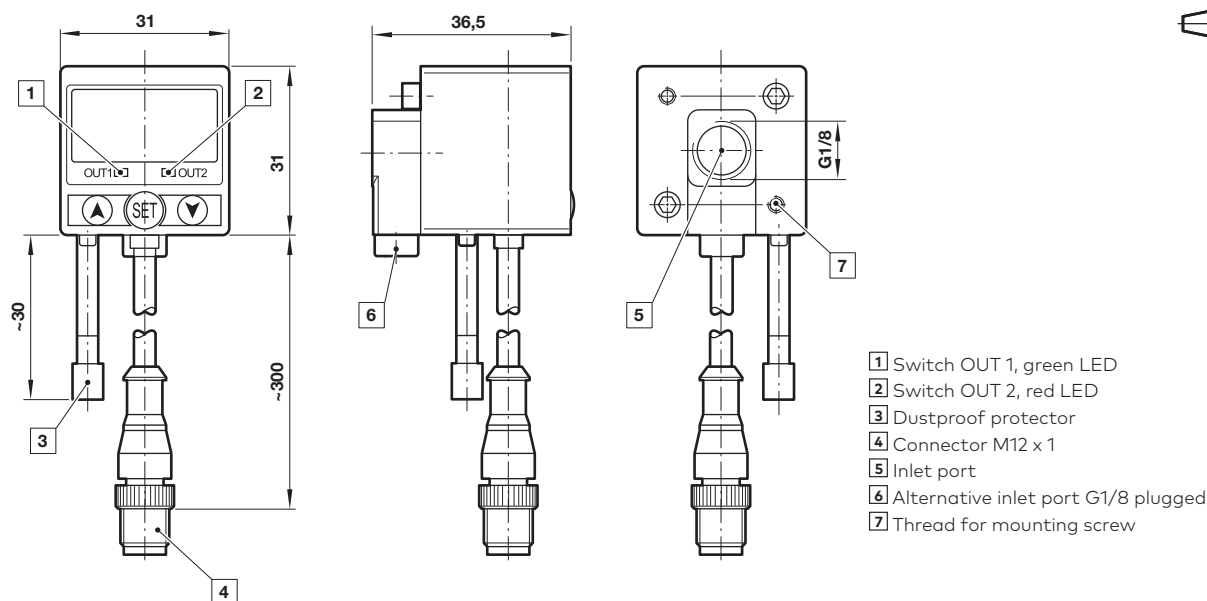


Porting block for 18D pressure switch



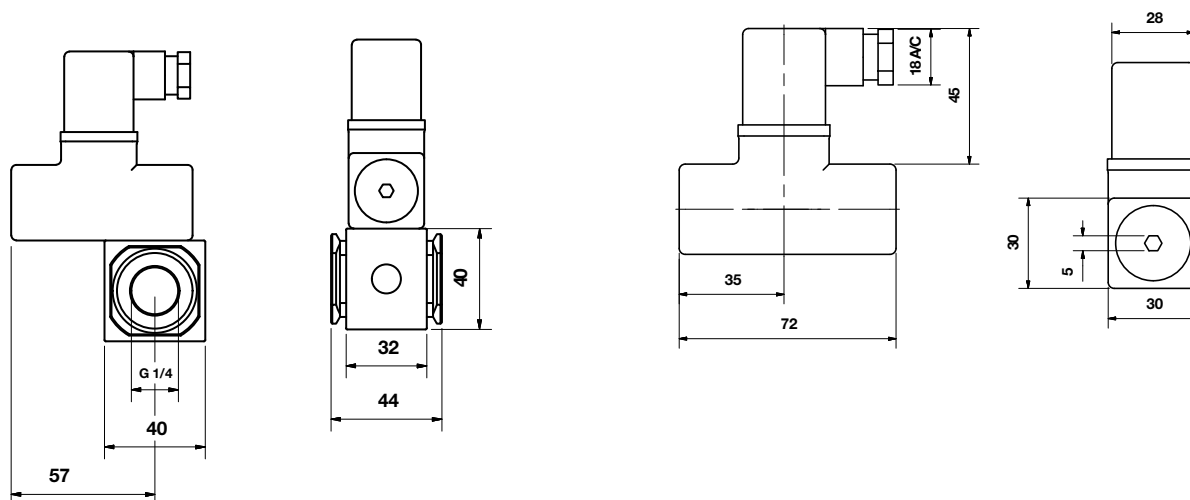
51D Pressure switch - digital

Dimensions in mm
Projection/First angle



18D Porting block and 18D assembled

18D Pressure switch



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.

R84G - Pressure regulators

Excelon® Plus Modular System

- > Port size: 3/8" ... 3/4" (ISO G/PTF)
- > Excelon® Plus design allows in-line installation or modular installation with other Excelon® Plus products
- > Push to lock adjusting knob with built in tamper resistant feature
- > Easy to read flush mounted gauge as standard, integrated electronic pressure sensor as option
- > High Corrosion resistance: Metal body with electrophoretic paint finish
- > Relieving and Non-relieving options
- >  DoC in accordance with 2014/34/EU/ATEX



Technical features pressure regulator

Medium:

Compressed air only

Maximum supply pressure:

20 bar (290 psi)

Outlet pressure ranges:

0,3 ... 10 bar (4 ... 145 psi),
0,3 ... 4 bar (4 ... 58 psi) optional,
0,3 ... 7 bar (4 ... 101 psi) optional,
0,7 ... 17 bar (10 ... 247 psi) optional

Gauge:

Integrated as standard
Gauge port 1/8 or electronic pressure sensor as option

Port size:

G3/8, G1/2, G3/4,
3/8 PTF, 1/2 PTF, 3/4 PTF

Diaphragm Type:

Relieving and Non-relieving

Flow:

125 dm³/s at port size: 1/2",
inlet pressure 10 bar (145 psi),
6,3 bar (91 psi) set pressure and
a Δp: 1 bar (14,5 psi) droop from set.

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).

Atex:

Regulators R84 are in conformity
with Atex 2014/34/EU

 II 2 GD

Ex h IIC T6 Gb


EX h IIIC T85°C Db

excluding all versions with
electronic pressure sensor

Materials:

Body: Die cast aluminium
Body covers: ABS
Bonnet: POM/Aluminium
Valve: PP with Geolast seals
Elastomers: NBR

Technical data R84G - standard models with integrated flush mounted gauge

Symbol	Port size	Pressure range (bar)	Adjustment	Integrated gauge (bar)	Weight (kg)	Model*)
	G3/8	0,3 ... 10	Knob	0 ... 10	0,59	R84G-3GK-RMG
	G1/2	0,3 ... 10	Knob	0 ... 10	0,59	R84G-4GK-RMG
	G3/4	0,3 ... 10	Knob	0 ... 10	0,59	R84G-6GK-RMG

*) All models shown here are supplied with integrated gauge applicable for flow direction left to right.

R84G - Pressure regulators with integrated electronic pressure sensor

- > Electronic monitoring of secondary pressure
- > 1.44" full colour graphic display. Excellent Visual Management.
- > Parameter Adjustment via front screen Buttons or Accessed Via IO-Link
- > Configurable switching output
- > Adjustable settings:
 - Setpoint,
 - Tolerance,
 - Hysteresis,
 - Pressure Units,
 - Temperature Units,
 - Screen Orientation,
 - Digital Output Type (NPN, PNP, Push-Pull),
 - Digital Output State (Normally High, Normally Low)
- > Install as a standard electronic pressure sensor or a pressure transducer with IO-Link



Technical features electronic pressure sensor

Electrical parameters

Secondary pressure measurement range:

0 ... 10 bar
(0 ... 145 psi, 0 ... 1.0 MPa)

Repeatability:

≤ 0.1% of full scale (FS) at stable temperature

Accuracy:

≤ 1.5% of full scale (FS) of detected pressure (0 ... +50°C, +32 ... +122°F)

Units:

Pressure: bar, psi, MPa
Temperature: °C, °F
Voltage: V

Display:

1.44" full colour TFT LCD
Text / background colours:
white/green: pressure in range
white/red: pressure out of range
white/amber: error
black white: setting mode

Display fields:

User configurable identifier, pressure value, pressure units, user configurable message, menu

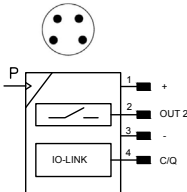
IO-Link function:

Pressure information
Pressure out of range warnings
Temperature diagnostic
Supply voltage diagnostic
Operating time diagnostic

Min. cycle time:

20 ms

Electrical connection M8 x 1

	Pin-No.	Signal	Cable
	1	L+ (24V)	brown
	2	Out 2 (switching)	white
	3	L- (0V)	blue
	4	C/Q (IO-Link)	black

Electrical connection:

M8 x 1

Power supply:

18 ... 30 V d.c.

Current consumption:

20 mA

Electromagnetic compatibility:

According to EN 61000-6-2;
EN 61000-6-3

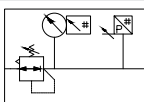
Switching output:

Configurable NPN / PNP / Push-Pull / NO / NC / hi-Z

Load current:

100mA with short circuit protection

Technical data R84G - standard models

Symbol	Port size	Pressure range (bar)	Adjustment	Integrated gauge (bar)	Weight (kg)	Model*)
	G3/8	0,3 ... 10	Knob	0 ... 10	0,79	R84G-3GK-RME
	G1/2	0,3 ... 10	Knob	0 ... 10	0,79	R84G-4GK-RME
	G3/4	0,3 ... 10	Knob	0 ... 10	0,79	R84G-6GK-RME

*) All models shown here are supplied with integrated pressure sensor applicable for flow direction left to right.

Option selector *1)

Port size	Substitute
3/8"	3
1/2"	4
3/4"	6
Thread form	Substitute
PTF	A
ISO G parallel (standard)	G
Adjustment	Substitute
Knob (standard)	K
T-bar	T*2)

*1) All models shown here are applicable for flow direction left to right.

R84G-★★★-★★★

Gauge	Substitute
With integrated digital pressure sensor *3)	E
With (fitted integrated gauge)	G
Without integrated gauge but with gauge port 1/8"	N
Pressure range *4)	Substitute
0,3 ... 4 bar	F
0,3 ... 7 bar	K
0,3 ... 10 bar (standard)	M
0,7 ... 17 bar	S*2)
Diaphragm Type	Substitute
Relieving	R
Non-relieving	N

*2) Units with 17 bar outlet pressure range are available only with the T-bar adjustment. Not available in connection with integrated pressure sensor.

*3) Only available with 10 or 4 bar pressure range

*4) 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.

Excelon Plus adheres to the following harmonised standard and technical specifications:

2014/34/EU Equipment and protective systems intended for use in potentially explosive atmospheres.

The following harmonised standards and technical specifications have been applied ISO 4414:2010 – Pneumatic fluid power – General rules and safety requirements for systems and their components; ISO 80079-36:2016 – Explosive atmospheres – Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements; ISO 80079-37:2016 – Explosive atmospheres Part 37: Non-electrical equipment for explosive atmospheres – Non-electrical type of protection constructional safety "c", control of ignition sources "b", liquid immersion "k".

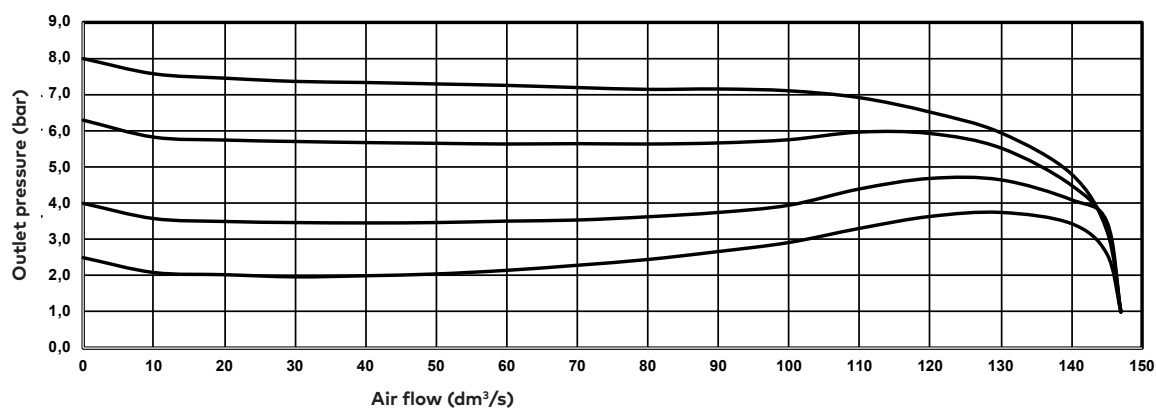


II 2 GD

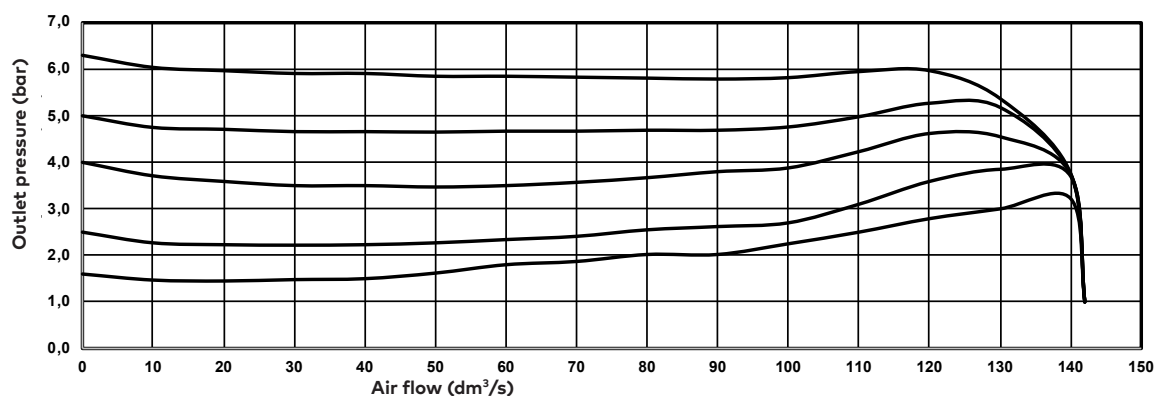
Ex h IIC T6 Gb
Ex h IIIC T85°C Db
ATEX Certification No.: NORGRN 18.0001X

Flow characteristics

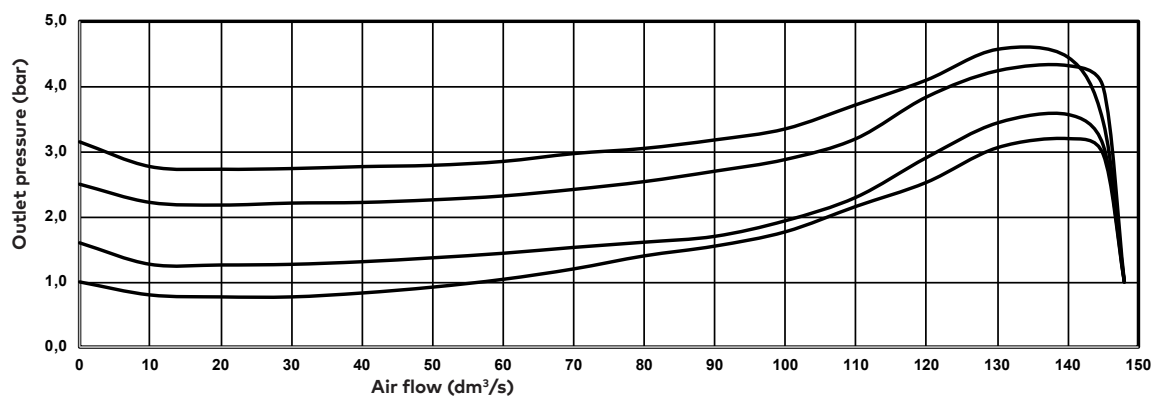
Inlet pressure: 10 bar (145 psi),
 Outlet pressure range: 0,3 ... 10 bar (4 ... 145 psi)
 Port size: 1/2"



Inlet pressure: 10 bar (145 psi),
 Outlet pressure range: 0,3 ... 7 bar (4 ... 101 psi)
 Port size: 1/2"



Inlet pressure: 10 bar (145 psi),
 Outlet pressure range: 0,3 ... 4 bar (4 ... 58 psi)
 Port size: 1/2"



Accessories

Quikclamp®



Page 9

840014-51KIT

Quikclamp® with bracket assembled



Page 9

840014-52KIT

Hybrid Quikclamp® *1



Page 9

840014-61

Hybrid Quikclamp® with bracket assembled *1



Page 9

840014-62

*1) To connect new Excelon Plus to old Excelon 74/73 units.
Having the same hole centres as 74 series mounting bracket.
A Quikclamp adds 13.6 mm to the overall width of a combination unit

Neck mounting bracket and plastic panel nut



Page 9

840068-51KIT

Plastic panel mounting nut



Page 9

840048-89KIT

Neck mounting bracket and metal panel nut



Page 9

840068-50KIT

Metal panel mounting nut



Page 9

840048-01KIT

Mounting bracket



Page 10

840024-50KIT

Integrated gauge 10 bar gauge



840073-01KIT

Integrated gauge 20 bar gauge



840073-02KIT

Gauge adaptor kit 1/8 PTF



840100-01KIT

Gauge adaptor kit R 1/8



840100-02KIT

Full flow porting block horizontal, 3/4 PTF



Page 10

840028-50KIT

Full flow porting block horizontal, G3/4



Page 10

840028-53KIT

Full flow porting block vertical, 3/4"PTF



Page 10

840028-68KIT

Full flow porting block vertical, G3/4"



Page 10

840028-69KIT

Pressure switch interface block (18D pressure switch) G1/4



Page 10

0337717000000000

Pressure sensing block 1/4 PTF



Page 10

840016-50KIT

Pressure sensing block G1/4



Page 10

840016-51KIT

Port Adaptors



Page 10

1/4 PTF	840015-01KIT
3/8 PTF	840015-02KIT
1/2 PTF	840015-03KIT
3/4 PTF	840015-04KIT
G1/4	840015-09KIT
G3/8	840015-10KIT
G1/2	840015-11KIT
G3/4	840015-12KIT

Padlock



840055-01KIT

Lockout device



840055-02KIT

**Pressure switch 18D
(0,5 ... 8bar) *1**

Page 11

0881300

**Digital pressure switch
51D (-1 ... 10 bar) *2**

Page 11

0860810

**Electronic Pressure Sensor
– stand alone version *3**


Q84G

IO-Link cables
Connection cable M8x1 for integrated electronic pressure sensor


Description	Cable length (m)	Model
M8 female to M12 male	0,6	NC-084FS-124MS-A
	1,0	NC-084FS-124MS-1
	2,0	NC-084FS-124MS-2
	5,0	NC-084FS-124MS-5
M8 female to free end	5,0	NC-084FS-00000-5

*1) Flanged version. For other pressure ranges, please see data sheet 5.11.001

*2) For other pressure ranges, please see data sheet 5.11.385

*3)

Gauges

(For regulators with gauge port instead of integrated port)

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


Pressure range (bar)*3)	(psi)	(MPa)	Ø	Thread size	Model
0 ... 6	0 ... 0,6	0 ... 84	50 mm	R1/8	18-015-012
0 ... 10	0 ... 1	0 ... 145	50 mm	R1/8	18-015-013
0 ... 25	0 ... 2,5	0 ... 362	50 mm	R1/8	18-015-014

*3) primary scale

**R84 / B84
Elastomer kit,
relieving**

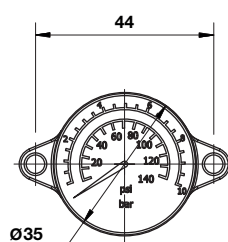
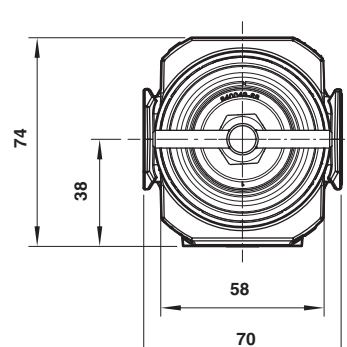
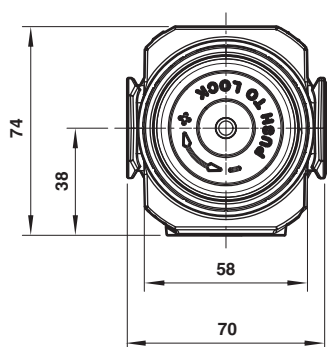
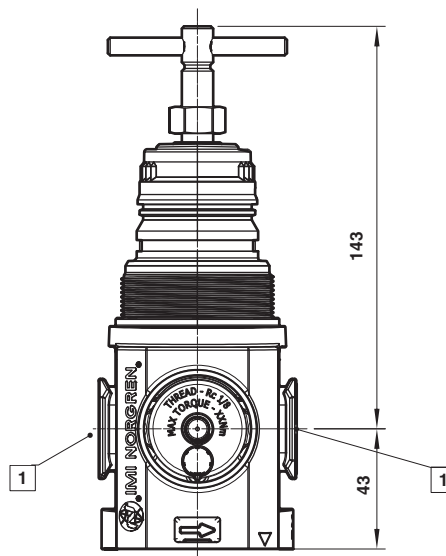
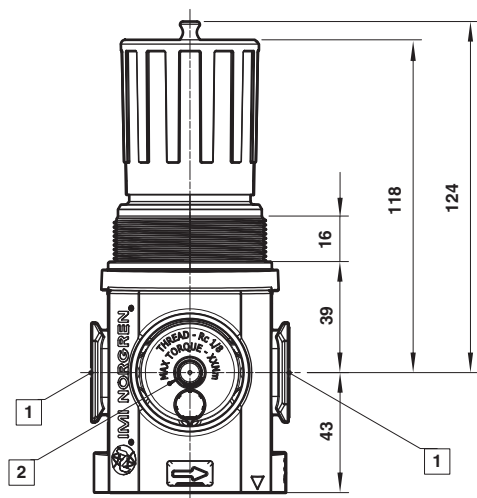

FRLB84-KIT

**R84 / B84
Elastomer kit,
Non-relieving**


FRLB84NR-KIT

Dimensions

Dimensions in mm
Projection/First angle

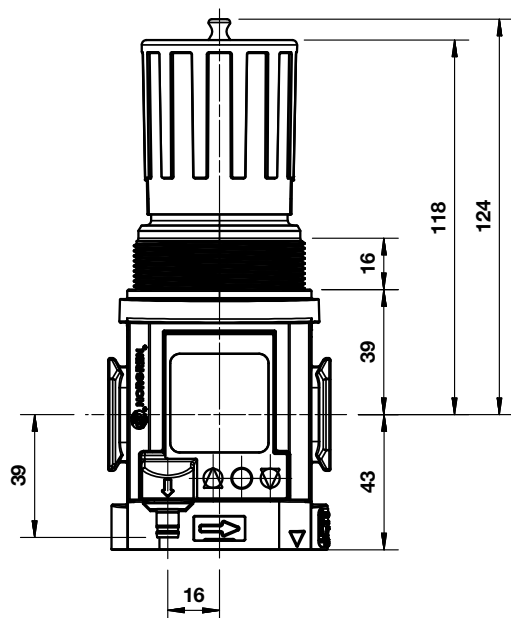
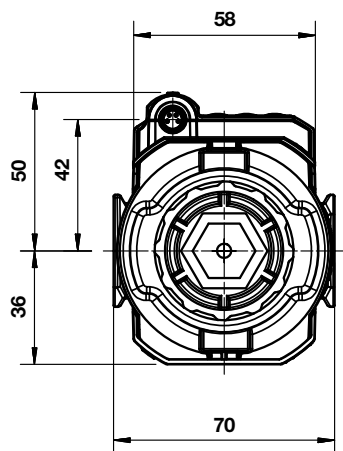


- 1 Main ports 3/8", 1/2" or 3/4"
(ISO G/PTF)
- 2 Gauge Port Rc 1/8 for ISO G and
1/8 PTF for PTF main ports

Dimensions

R84G- General Purpose Regulator

Dimensions in mm
Projection/First angle

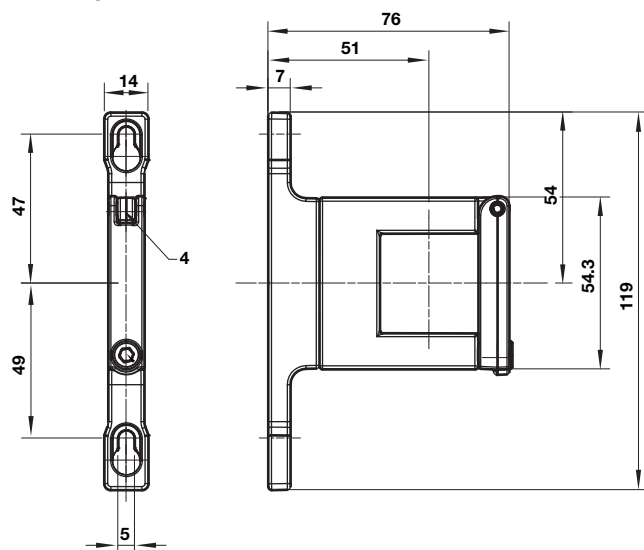


Accessories

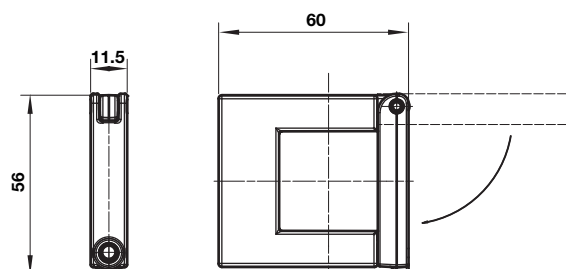
Dimensions in mm
Projection/First angle



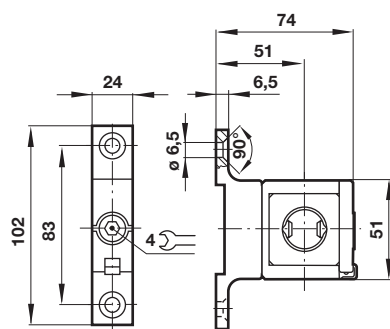
Quikclamp® with wall bracket



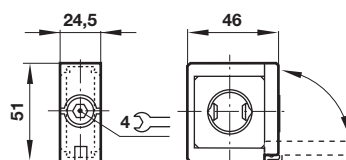
Quikclamp®



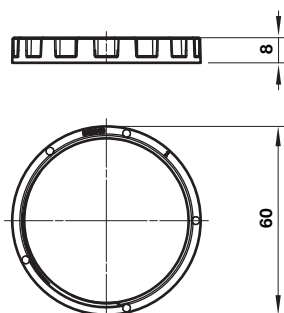
Hybrid-Quikclamp® with wall bracket



Hybrid-Quikclamp®

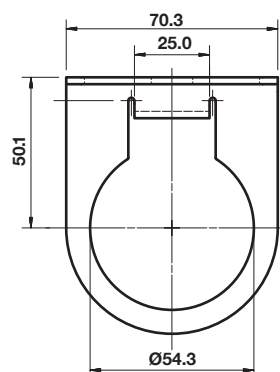
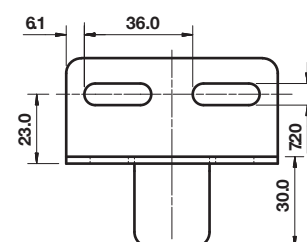


Panel mounting nut



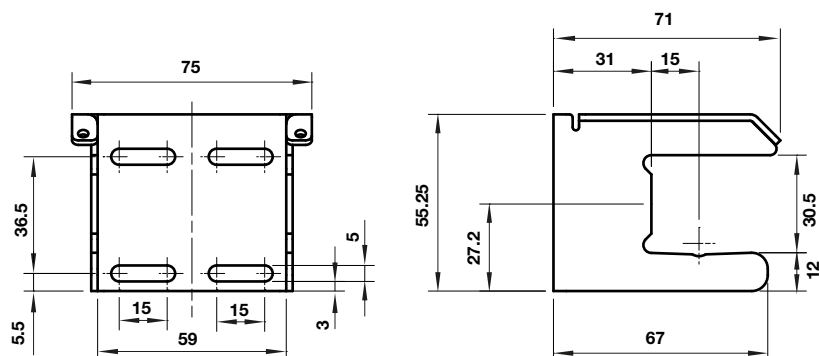
Recommended panel hole size:
ø 55 mm ... 57 mm
Panel thickness:
2 ... 6 mm

Neck mounting bracket



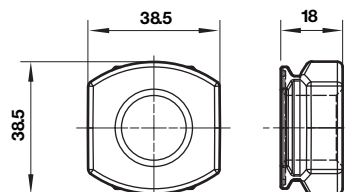
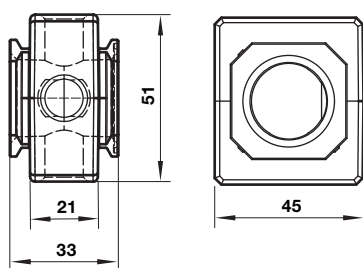
Mounting bracket

Dimensions in mm
Projection/First angle



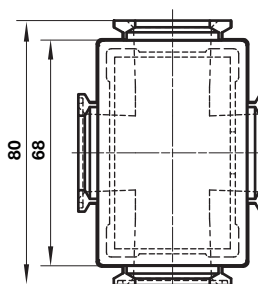
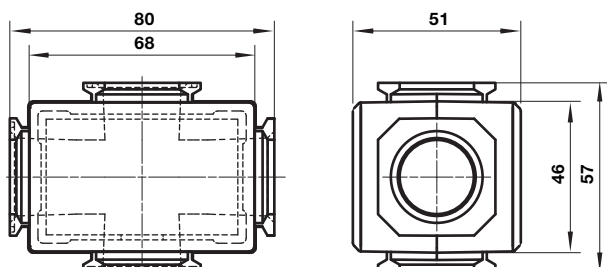
Pressure sensing block

Pipe adaptor

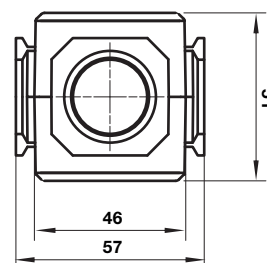
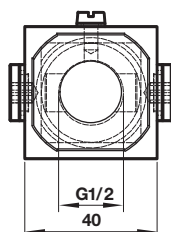
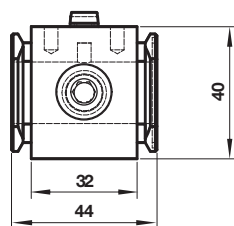


Full flow porting block horizontal

Full flow porting block vertical



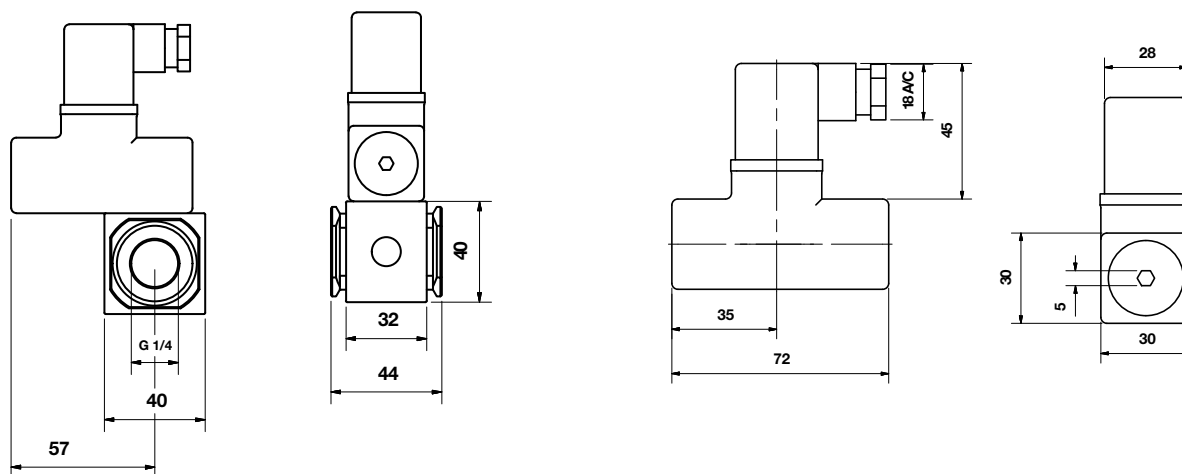
Porting block for 18D pressure switch



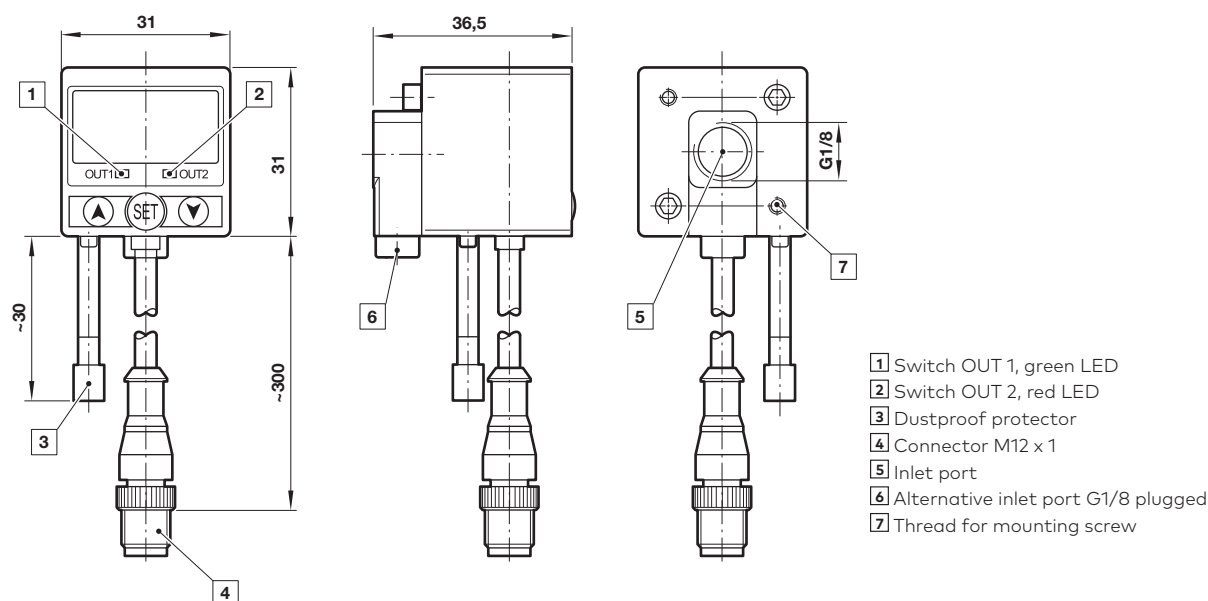
18D Porting block and 18D assembled

18D Pressure switch

Dimensions in mm
Projection/First angle



51D Pressure switch - digital



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.

R64G - Olympian Plus plug-in system

Pressure regulator

- > **Port size: 1/4" ... 3/4"**
(ISO G/PTF)
- > **Non-rising adjusting knob has snap-action lock**
- > **Diaphragm and balanced valve design ensure good regulation characteristics**



Technical features

Medium:

Compressed air only

Maximum operating pressure:

17 bar (246 psi)

Pressure range:

(standard)

0,3 ... 10 bar (4 ... 145 psi)

(optional)

0,4 ... 4 bar (5 ... 58 psi),

0,7 ... 17 bar (10 ... 246 psi)

Port sizes:

1/4", 3/8", 1/2" or 3/4"

Gauge port:

1/8 PTF with PTF main ports

Rc1/8 with ISO G main ports

Flow:

See table below

Relieving:

With (standard)

Non-relieving (optional)

Standard compliances:

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85° Db

Ambient/Media temperature:

-20° ... +80°C (-4° ... +176°F)

Version with gauge:

-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 and yoke: Zinc alloy


Connection piece: Aluminium

Bonnet: Aluminium

Adjusting knob: Acetal resin

Elastomers: NBR

Technical data, standard models with relieving

Symbol	Port size	Size	Pressure range (bar)	Flow * (dm³/s)	Adjustment	Weight (kg)	Model
	G1/4	—	0,3 ... 10	35	Knob	1,63	R64G-2GK-RMN
	G3/8	—	0,3 ... 10	80	Knob	1,61	R64G-3GK-RMN
	G1/2	Basic	0,3 ... 10	120	Knob	1,59	R64G-4GK-RMN
	G3/4	—	0,3 ... 10	120	Knob	1,87	R64G-6GK-RMN
	Without yoke	—	0,3 ... 10		Knob	1,16	R64G-NNK-RMN

* Typical flow with 10 bar (145 psi) inlet pressure, and 6,3 bar (91 psi) set pressure and 1 bar (14.5 psi) drop from set.

Option selector

Port size	Substitute
1/4"	2
3/8"	3
1/2"	4
3/4"	6
Without yoke	N
Thread	Substitute
PTF	A
ISO G (standard)	G
Without yoke (standard)	N
Adjustment	Substitute
Knob (standard)	K
T-bar (0,7 ... 17 bar)	T *2)

R64G-★ ★ ★ - ★ ★ ★

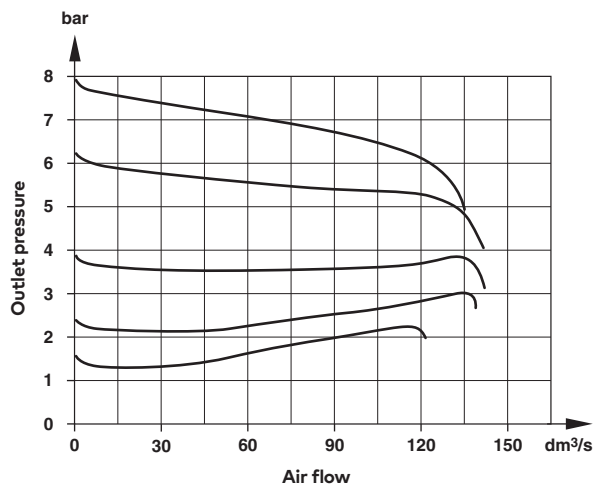
Gauge	Substitute
With	G
Without (standard)	N
Pressure range (bar) *1)	Substitute
0,3 ... 10 (standard)	M
0,3 ... 4	F
0,7 ... 17	S *2)
Diaphragm	Substitute
Relieving (standard)	R
Non-relieving	N

*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) Units with 17 bar (246 psi) outlet pressure range are available only with the T-bar adjustment; therefore substitute T at the 7th digit and S at the 9th position.

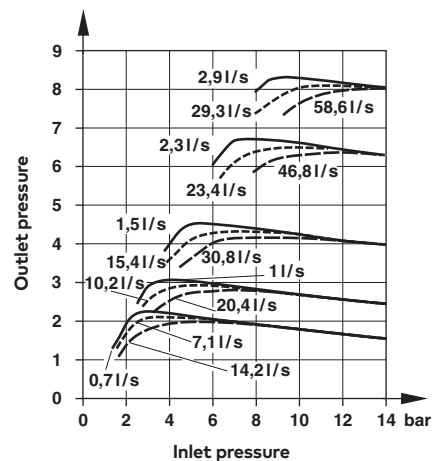
Flow characteristics

Inlet pressure: 10 bar, port size: 1/2"
Pressure range: 0,3 ... 10 bar



Regulating characteristics


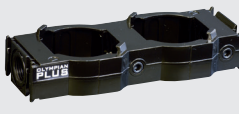




Port size: 1/2"









Accessories, service kit and gauges



Accessories

	Models with G-thread Single yoke	Double yoke	3/2 Shut-off valve Threaded inlet only	Threaded outlet only	End connector kit	Rear entry bracket kit
						
Thread	5				2	8
G1/4	Y64A-2GA-N1N	Y64A-2GA-N2N	T64T-2GB-P1N	T64T-2GC-P1N	—	—
G3/8	Y64A-3GA-N1N	Y64A-3GA-N2N	T64T-3GB-P1N	T64T-3GC-P1N	—	—
G1/2	Y64A-4GA-N1N	Y64A-4GA-N2N	T64T-4GB-P1N	T64T-4GC-P1N	74505-50	—
G3/4	Y64A-6GA-N1N*	Y64A-6GA-N2N*	T64T-6GB-P1N	T64T-6GC-P1N	74505-53	18-026-981
1/4 PTF	Y64A-2AA-N1N	Y64A-2AA-N2N	T64T-2AB-P1N	T64T-2AC-P1N	—	—
3/8 PTF	Y64A-3AA-N1N	Y64A-3AA-N2N	T64T-3AB-P1N	T64T-3AC-P1N	—	—
1/2 PTF	Y64A-4AA-N1N	Y64A-4AA-N2N	T64T-4AB-P1N	T64T-4AC-P1N	74505-52	—
3/4 PTF	Y64A-6AA-N1N*	Y64A-6AA-N2N*	T64T-6AB-P1N	T64T-6AC-P1N	74505-55	—

*These yokes are supplied with two end connector kits as standard.


Bracket mounting	Nut	Tamper resistant cap & seal wire	Yoke connector kit	Porting block	Padlock with two keys
					
1	4	3	9		
74504-50	74502-89	4355-51	74503-51	74507-50	0613633 (brass)

Service kit



Gauges

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




6

Pressure range	bar *1	MPa	psi	Ø	Thread size	Model
0 ... 4	0 ... 0,4	0 ... 0,28	0 ... 58	50 mm	R1/8	18-015-011
0 ... 10	0 ... 1	0 ... 0,7	0 ... 145	50 mm	R1/8	18-015-013
0 ... 25	0 ... 2,5	0 ... 1,7	0 ... 362	50 mm	R1/8	18-015-014

*1) primary scale

Center back connection, black face for North America (full technical specification see datasheet 8.900.900)

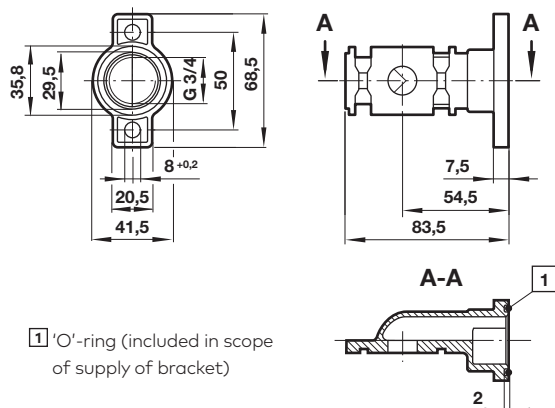


6

Pressure range	psig *1	bar	MPa	Ø	Thread size	Model
0 ... 60	0 ... 4	0 ... 0,4	0 ... 0,28	2" (50 mm)	1/8 NPT	18-015-202
0 ... 160	0 ... 11	0 ... 1,1	0 ... 0,7	2" (50 mm)	1/8 NPT	18-015-204
0 ... 400	0 ... 28	0 ... 2,8	0 ... 1,7	2" (50 mm)	1/8 NPT	18-015-206

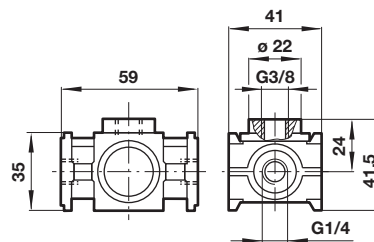
*1) primary scale

Rear entry bracket 18-026-981



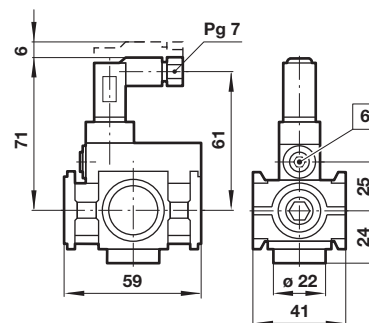
Porting block 74507-50

Dimensions in mm
Projection/First angle



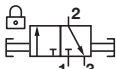
Adjustable pressure switch 4346-99

Voltage	24 V d.c./240 V a.c.
Current	0,5 A (d.c.); 5 A (a.c.)
Pressure range	2 ... 10 bar
Repeatability	2% of full set point range at 20°C
Average deadband	0,8 ... 1,7 bar
Electrical connection (corresponding to choosen coil)	EN 175301-803 - Form C, 15 mm
Degree of protection:	IP65
Adjustable	Standard
Material	Body: Aluminium, Elastomers: NBR

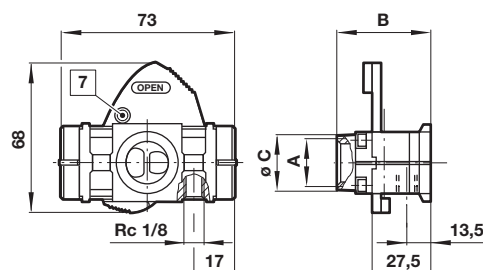


6 Adjusting screw

3/2 Shut-off valve

Symbol	A	B	ø C	Model
	G1/4	48	27	T64T-2G*-P1N
	G3/8	48	27	T64T-3G*-P1N
	G1/2	48	27	T64T-4G*-P1N
	G3/4	51	33	T64T-6G*-P1N

* B = Threaded inlet only, C = Threaded outlet only



7 Padlock hole 7,5 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.

R68G - Olympian Plus plug-in system

Pressure regulator



- > **Port size: 3/4" ... 1 1/2"**
(ISO G/PTF)
- > **Non-rising adjusting knob has snap-action lock**
- > **Diaphragm and balanced valve design ensure good regulation characteristics**



Technical features

Medium:

Compressed air only

Maximum operating pressure:

20 bar (290 psi)

Pressure range:

(standard)

0,4 ... 8 bar (5.8 ... 116 psi)

(optional)

0,3 ... 4 bar (4.3 ... 58 psi),

0,7 ... 17 bar (10 ... 246 psi)

Port size:

G3/4, G1, G1 1/4, G1 1/2,
3/4 NPT, 1 NPT, 1 1/4 NPT,
1 1/2 NPT

Gauge port:

1/8 PTF with PTF main ports

Rc1/8 with ISO G main ports

Flow:

See table below

Relieving:

With standard,

Non-relieving optional

Standard compliances:

II 2G Ex h IIC T6 Gb
II 2D Ex h IIIC T85° Db

Ambient/Media temperature:

-20° ... +80°C (-4° ... +176°F)

Version with gauge:

-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, yoke and bonnet: Aluminium

Adjusting knob: Acetal resin

Elastomers: NBR

Technical data, standard models with relieving

Symbol	Port size	Size	Pressure range (bar)	Flow *1) (dm³/s)	Adjustment	Weight (kg)	Model
	G3/4	—	0,4 ... 8	150	Knob	1,95	R68G-6GK-RLN
	G1	Basic	0,4 ... 8	170	Knob	1,89	R68G-8GK-RLN
	G1 1/4	—	0,4 ... 8	170	Knob	1,93	R68G-AGK-RLN
	G1 1/2	—	0,4 ... 8	170	Knob	1,97	R68G-BGK-RLN
	Without yoke	—	0,4 ... 8	—	Knob	1,16	R68G-NNK-RLN

*1) Typical flow with 10 bar (145 psi) inlet pressure, and 6,3 bar (91 psi) set pressure and 1 bar (14.5 psi) drop from set.

Option selector

R68G-★ ★ ★ - ★ ★ ★

Port size	Substitute
3/4"	6
1"	8
1 1/4"	A
1 1/2"	B
Without yoke	N
Thread	Substitute
ISO G (standard)	G
PTF	A
Without yoke	N
Adjustment	Substitute
Knob (standard)	K
T-bar (0,7 ... 17 bar)	T

Gauge	Substitute
With	G
Without (standard)	N
Pressure range (bar) *2)	Substitute
0,3 ... 4	F
0,4 ... 8 (standard)	L
0,7 ... 17	S *3)
Diaphragm	Substitute
Relieving (standard)	R
Non-relieving	N

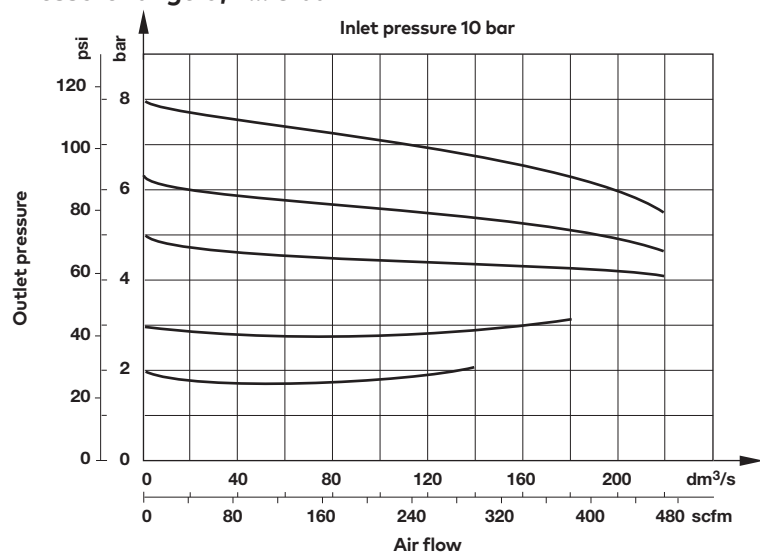
*2) Outlet pressure can be adjusted to pressures in excess of and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

*3) Units with 17 bar (246 psi) outlet pressure range are available only with the T-bar adjustment; therefore substitute T at the 7th digit and S at the 9th position.

Flow characteristics

Port size 1"








Pressure range 0,4 ... 8 bar





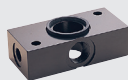

Accessories, service kit and gauges

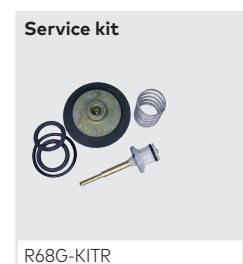


Accessories

	Single yoke	Double yoke	End connector kit	Single yoke non threads	3/2 Shut-off valve Threaded inlet only	Threaded outlet only	Bracket mounting
							
Thread	5	5	2	5			1
G3/4	Y68A-6GN-N1N	Y68A-6GN-N2N	5524-55	74785-98	T68H-6GB-B2N	T68H-6GC-B2N	18-001-979
G1	Y68A-8GN-N1N	Y68A-8GN-N2N	5524-52		T68H-8GB-B2N	T68H-8GC-B2N	18-001-979
G1 1/4	Y68A-AGN-N1N	Y68A-AGN-N2N	5523-52		T68H-AGB-B2N	T68H-AGC-B2N	18-001-978
G1 1/2	Y68A-BGN-N1N	Y68A-BGN-N2N	5523-93		T68H-BGB-B2N	T68H-BGC-B2N	18-001-972
3/4 PTF	Y68A-6AN-N1N	Y68A-6AN-N2N	5524-53		T68H-6AB-B2N	T68H-6AC-B2N	18-001-979
1 PTF	Y68A-8AN-N1N	Y68A-8AN-N2N	5524-50		T68H-8AB-B2N	T68H-8AC-B2N	18-001-979
1 1/4 PTF	Y68A-AAN-N1N	Y68A-AAN-N2N	5523-50		T68H-AAB-B2N	T68H-AAC-B2N	18-001-978
1 1/2 PTF	Y68A-BAN-N1N	Y68A-BAN-N2N	5523-95		T68H-BAB-B2N	T68H-BAC-B2N	18-001-972

Service kit

Nut	Tamper resistant cap & seal wire	Porting block	Padlock with two keys
			
4	3		
5520-89	4355-51	18-026-986 (G1/4 & G1/2)	0613633 (brass)



Gauges

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



Pressure range bar *1)	MPa	psi	Ø	Thread size	Model
0 ... 4	0 ... 0,4	0 ... 58	50 mm	R1/8	18-015-011
0 ... 10	0 ... 1	0 ... 145	50 mm	R1/8	18-015-013
0 ... 25	0 ... 2,5	0 ... 362	50 mm	R1/8	18-015-014

*1) primary scale

Center back connection, black face for North America (full technical specification see datasheet 8.900.900)



Pressure range psig *1)	bar	MPa	Ø	Thread size	Model
0 ... 60	0 ... 4	0 ... 0,4	2" (50 mm)	1/8 NPT	18-015-202
0 ... 160	0 ... 11	0 ... 1,1	2" (50 mm)	1/8 NPT	18-015-204
0 ... 400	0 ... 28	0 ... 2,8	2" (50 mm)	1/8 NPT	18-015-206

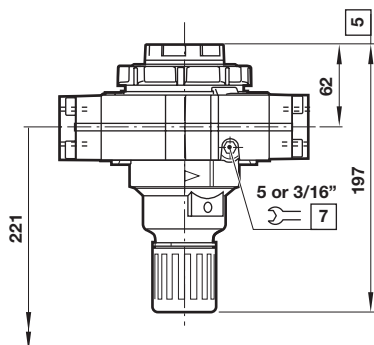
*1) primary scale

Dimensions

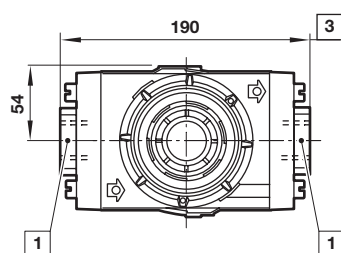
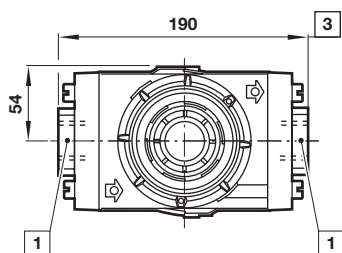
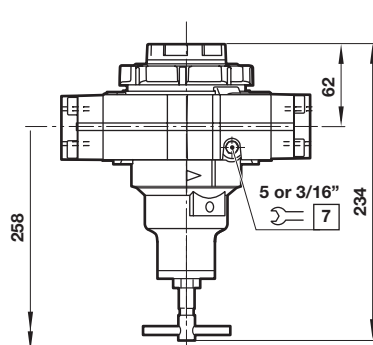
Dimensions in mm
Projection/First angle



Standrad



T-bar



Minimum clearance required to remove unit from yoke

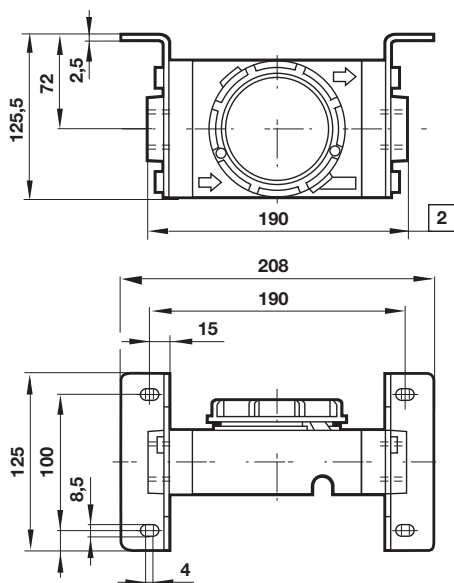
1 Main ports 3/4", 1", 1 1/4" or 1 1/2"

3 Plus 10 mm for ports 1 1/4" or 1 1/2"

5 Reduces by 4 mm with knob in locked position

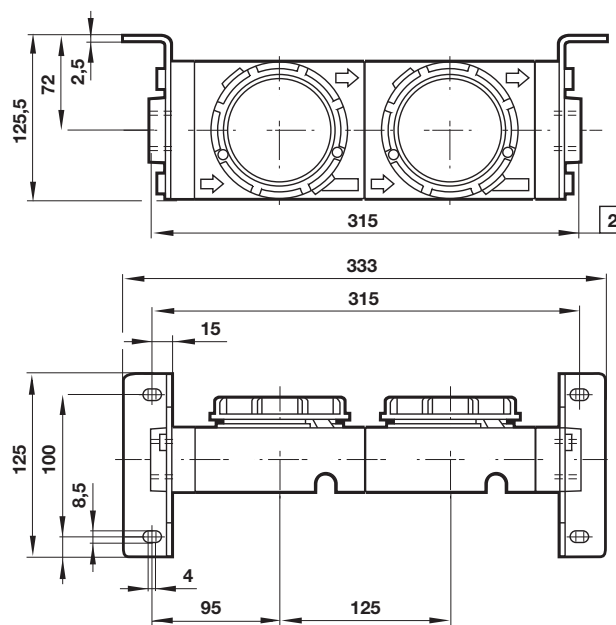
7 Gauge port 1/8"

Single yoke with bracket



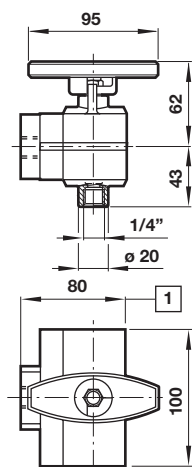
2 For 1 1/4" and 1 1/2" ported yokes add 10 mm

Double yoke with bracket



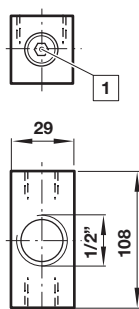
2 For 1 1/4" and 1 1/2" ported yokes add 10 mm

3/2 Shut-off valve



1 For 1 1/2" ported yokes add 5 mm

Porting block



1 Two additional plugged G1/4 ports

Dimensions in mm
Projection/First angle



Warning

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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 knob: Acetal

Valve: Brass

Seals: NBR

Technical data, standard models with relieving

Symbol	Port size	Pressure range (bar)	Flow *1) (dm³/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

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

R07-★0★-★ ★ ★ ★

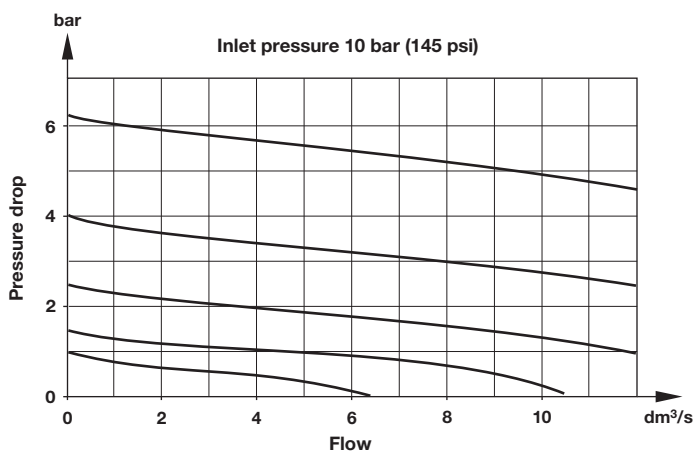
Thread	Substitute
PTF	A
ISO G	G
Pressure range (bar) *1)	Substitute
0,1 ... 0,7	A
0,3 ... 3,5	E
0,3 ... 7	K
0,3 ... 10	M *2)
Gauge	Substitute
With	G
Without	N
Diaphragm	Substitute
Relieving	R
Non-relieving	N

*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

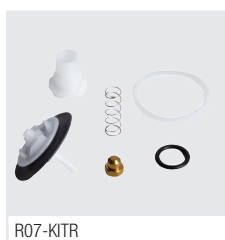
Port size 1/4", Pressure range 0,3 ... 7 bar





Accessories

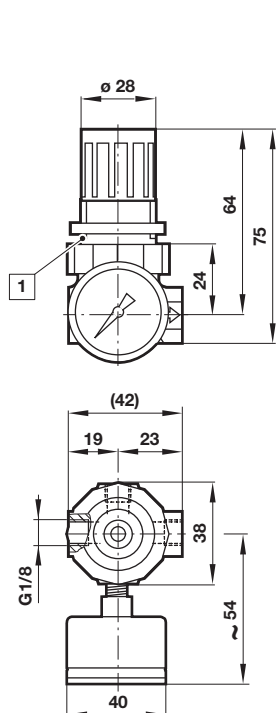


Service kit



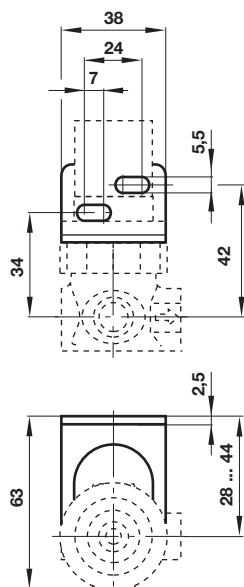
Wall mounting bracket and panel nut	Panel nut	Tamper resistant field modification	Gauge ø 40 mm
			
1 & 4	4	3	6
18-025-003 (with plastic nut)	2962-04 (Metal)	18-001-092	18-015-990 (0 ... 4 bar) (14,5 ... 58 psi)
18-025-004 (with metal nut)	2962-89 (Plastic)		18-015-989 (0 ... 10 bar) (14,5 ... 145 psi)

Dimensions



1 Panel mounting hole \varnothing 31 mm

Bracket mounting



Dimensions in mm
 Projection/First angle



Warning

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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.

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R16

Miniature pre-set regulators

- > Port size: G1/4
- > Very compact unit
- > Regulator pressure set and sealed at factory - tamper resistant
- > Particularly suitable for use as a safety regulator in conjunction with blow-guns



Technical features

Medium:

Compressed air only

Maximum inlet pressure:

28 bar (406 psi)

Pre-set pressure range:

0,5 ... 6,3 bar (7 ... 91 psi)

Please specify pre-set regulated pressure required when ordering.

Units are pre-set with 7 bar (101 psi) inlet pressure unless otherwise specified.

Typical setting accuracy of regulator with 7 bar (101 psi) inlet pressure and zero flow:

2 bar (+0,07 bar, - 0,2 bar)

29 psi (+1.0 psi, -2.9 psi)

Port sizes:

G1/4

Rc1/8 (Gauge)

Ambient/Media temperature:

-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

Bonnet: Aluminium alloy

Valve: Brass

Seals: NBR

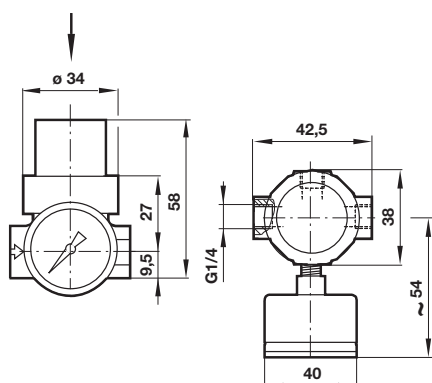
Technical data, standard models with relieving

Symbol	Port size	Pre-set pressure range *1)		Weight (kg)	Model
(bar)	(psi)				
	G1/4	2 (Blow gun regulator)	29	0,16	R16-200-R30G
	G1/4	0,5 ... 1	7,2 ... 14	0,14	R16-200-RNTG
	G1/4	1 ... 4	14 ... 58	0,14	R16-200-RNEG
	G1/4	4 ... 6,3	58 ... 91	0,15	R16-200-RNKG

*1) Other specify pre-set pressure on request

Dimensions

Dimensions in mm
Projection/First angle



Gauge ø 40 mm



18-015-990 (0 ... 4 bar)

18-015-989 (0 ... 10 bar (145 psi))

Warning

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R17

General purpose regulator



- > **Port size: 3/4" ... 1 1/2"**
(ISO G, PTF)
- > **Accurate and quick response to changes in flow demand and line pressure variations**
- > **Standard relieving models allow reduction of outlet pressure even when the system is dead-ended**
- > **Balanced valve minimizes effect of changes in inlet pressure on outlet pressure**
- > **Full flow gauge ports**
- > **Low torque, non rising adjusting knob**



Technical features

Medium:

Compressed air

Maximum operating pressure:

20 bar (290 psi)

Pressure range:

Standard:

0,3 ... 8,5 bar (4 ... 123 psi)

Optional:

0,3 ... 3,5 bar (4 ... 50 psi)

0,7 ... 17 bar (10 ... 246 psi)

Typical flow:

See below

Port size:

3/4", 1", 1 1/4" or 1 1/2"

Gauge ports:

1/4" PTF with PTF main ports

R1/4 with ISO G main ports

Relieving:

Standard

Ambient/Media temperature:

-34° ... +80°C (-30° ... +176°F)

Version with gauge:

-34° ... +65°C (-30° ... +149°F)

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:


Body and bonnet: Aluminum

Bottom plug: Acetal

Valve: Aluminum and PA

Elastomers: NBR

Technical data, standard models

Symbol	Port size	Flow* (dm ³ /s)	Pressure range (bar)	Gauge port	Weight (kg)	Model
	G3/4	208	0,3 ... 8,5	Rc1/4	1,05	R17-600-RNLG
	G1	227	0,3 ... 8,5	Rc1/4	0,92	R17-800-RNLG
	G1 1/4	189	0,3 ... 8,5	Rc1/4	1,22	R17-A00-RNLG
	1 1/2" BSPP	208	0,3 ... 8,5	Rc1/4	1,18	R17-B00-RNLC

*Typical flow with 10 bar (150 psi) inlet pressure, 6,3 bar (90 psi) set pressure and a 1 bar (15 psi) droop from set.

Option selector

R17-★0★-★★★★

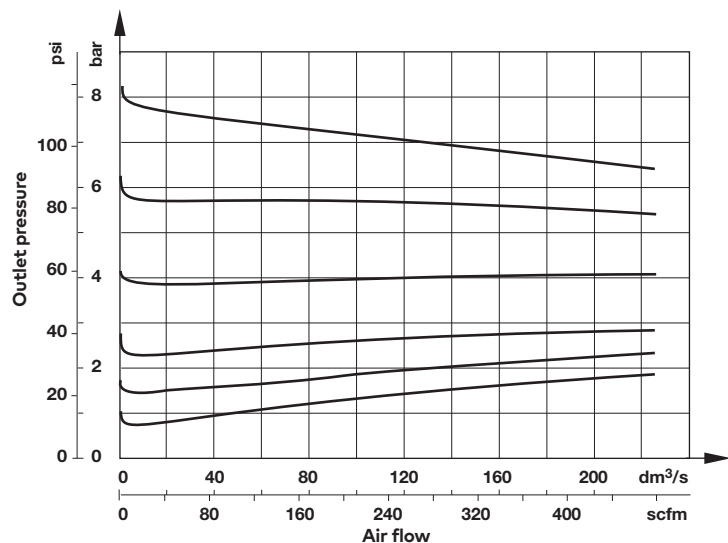
Port size	Substitute
3/4"	6
1"	8
1 1/4"	A
1 1/2"	B
Adjustment	Substitute
Knob (standard)	0
T-handle	1
Diaphragm	Substitute
Relieving (standard)	R
Non-relieving	N
Gauge	Substitute
With	G
None	N

Thread	Substitute
PTF	A
ISO Rp (1 1/2" ported units only)	C
ISO G parallel (not available with 1 1/2" ported units)	G
Pressure range *	Substitute
0,3 ... 3,5 bar	E
0,3 ... 8,5 bar (standard)	L
0,7 ... 17 bar	S





* Pressure range 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

Port size 1", spring range 0,3 ... 8,5 bar, inlet pressure 10 bar




Accessories

Nut	Tamper resistant cap & seal wire	Concentric reducing adaptors for gauge ports	Service kit
			
5226-97 (Metal)	4355-21	R1/4-G1/8 150232818	5578-02 Relieving 5578-01 Non-relieving

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 ... 4	0 ... 0,4	0 ... 0,28	0 ... 58	50 mm	R1/8 *2)	18-015-011
0 ... 10	0 ... 1	0 ... 0,7	0 ... 145	50 mm	R1/8 *2)	18-015-013
0 ... 25	0 ... 2,5	0 ... 1,7	0 ... 362	50 mm	R1/8 *2)	18-015-014

*1) primary scale

*2) Concentric reducing adaptors for gauge ports Model 150232818 (R1/4-G1/8)

Center back connection, black face
for North America
(for full technical specification see datasheet 8.900.900)

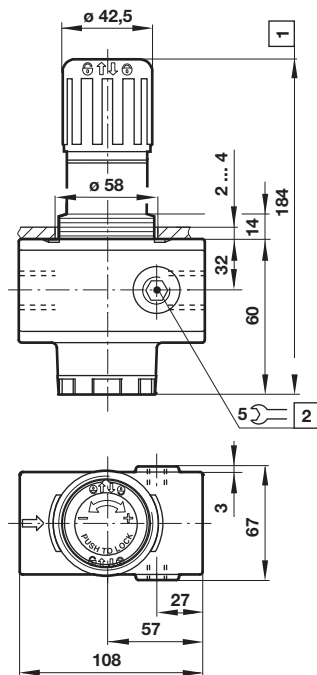
Pressure range



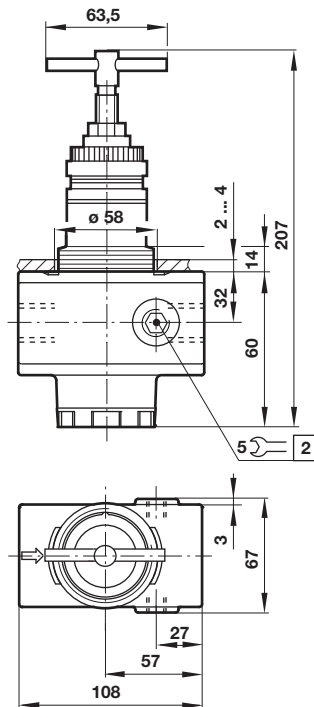
psig *1	bar	Mpa	Ø	Thread size	Model
0 ... 60	0 ... 4	0 ... 0,4	2" (50 mm)	1/4 NPT	18-015-208
0 ... 160	0 ... 11	0 ... 1,1	2" (50 mm)	1/4 NPT	18-015-209
0 ... 300	0 ... 20	0 ... 2,1	2" (50 mm)	1/4 NPT	18-015-210

*1) primary scale

Dimensions Standard version



With T-handle



Dimensions in mm
Projection/First angle



- 1 Reduces by 4 mm with knob in locked position
- 2 Gauge port 1/4" plugged

Warning

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R18

General purpose pressure regulators



- > **Port size: 1 1/2" & 2"**
(ISO G, PTF)
- > **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**
- > **Accurate pressure regulation over a wide range of flows**
- > **Can be used with conventional pilot regulator**



Technical features

Medium:

Compressed air only

Operation pressure:

31 bar (450 psi) maximum

Pressure range:

Without Pilot regulator *2)

0,16 ... 17 bar (2.3 ... 246 psi)

With pilot regulator R40:

0,3 ... 8,5 bar (4.3 ... 123 psi)

Typical flow:

See below

Main port size:

1 1/2" & 2"

Relieving port:

3/4 PTF with PTF main ports

G3/4 with ISO G main ports

Gauge port:

1/4 PTF with PTF main ports

Rc1/4 with ISO G main ports

Relieving:

Standard

Ambient/Media temperature:

-20°C ... 80°C (0°F ... +175°F)

Version with gauge:

-20°C ... +65°C (-4°F ... +149°F)

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:

Body & bonnet: Aluminum alloy


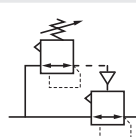
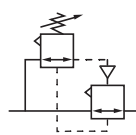
Bottom plug: Acetal

Valve: Aluminum and PA

Elastomers: NBR

*2) Further ranges see option selector

Technical data, standard models

Symbol	Port size	Flow *1) (dm³/s)	Pilot regulator	Outlet pressure range (bar)	Weight (kg)	Model
	G1 1/2	944	—	0,16 ... 17 *2)	3,09	R18-B00-RNXG
	G2	944	—	0,16 ... 17 *2)	2,99	R18-C00-RNXG
	G1 1/2	944	R40 included	0,3 ... 8,5	3,85	R18-B05-RNLG
	G2	944	R40 included	0,3 ... 8,5	3,75	R18-C05-RNLG
	G1 1/2	944	R41 included	7 ... 17	3,85	R18-B06-RNSG *3)
	G2	944	R41 included	7 ... 17	3,75	R18-C06-RNSG *3)

*1) Typical flow with 7,0 bar (101 psi) inlet pressure, 6,3 bar (91 psi) set pressure and a 1 bar (14,5 psi) droop from set.

*2) Operating pressure range is determined by the spring range of the piloting regulator. Norgren recommends the use of its R40/R41

*3) Attention: Not all applications are suitable for the use of closed loop (feedback) regulator circuit. To discuss your application needs please contact our technical department

Option selector

R18-★0★-★N★★

Port size	Substitute
1 1/2"	B
2"	C
Pilot regulator	Substitute
Without (standard)	0
With R40 conventional	5
With R41 feedback *1)	6

*1) Requires relieving diaphragm and 17 bar (250 psig) spring (R in 7th position and S in 9th position) e.g. R18-B06-RNSG. The 06 option cannot be used at an outlet pressure below 7 bar (100 psig). For feedback control at pressures below 7 bar (100 psig) use an 11-204-004 with a pilot operated R18.

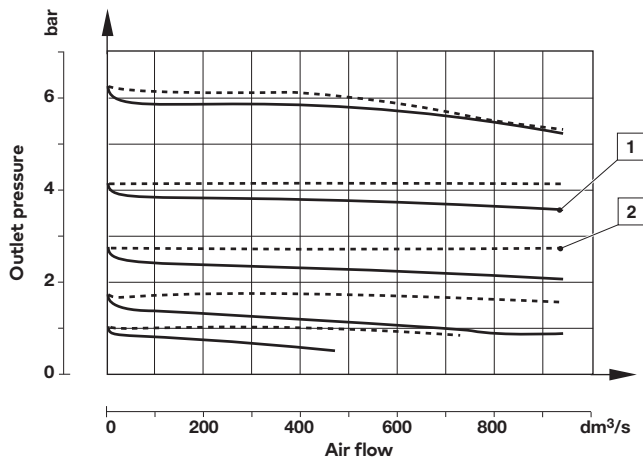
Thread form	Substitute
PTF	A
ISO G	G
Outlet pressure range *2)	Substitute
Without (standard)	X
0,3 ... 3,5 bar (with R40)	E
0,3 ... 8,5 bar (with R40)	L
0,7 ... 17 bar (with R40)	S
7 ... 17 bar (with R41) *1)	S
Diaphragm	Substitute
Relieving	R
Non relieving	N

*2) Outlet pressures 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

Port size: 2",

Inlet pressure: 6,9 bar, pilot spring range 0,3 ... 8,5 bar



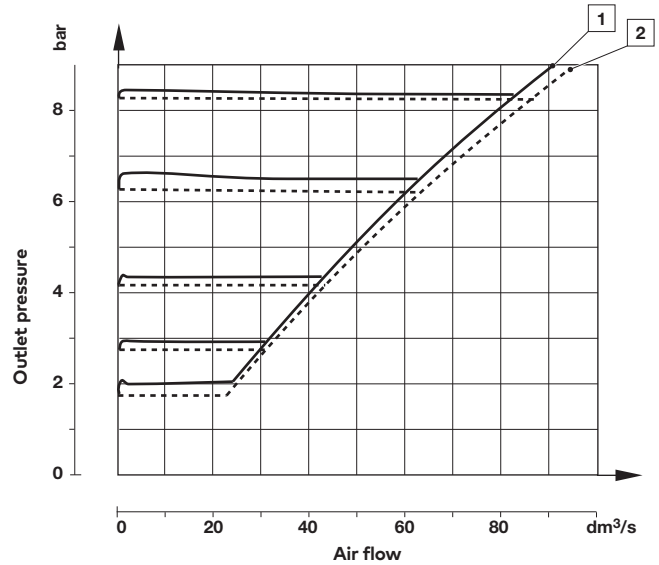
1 R18 with R40 conventional pilot

2 R18 with R41 feedback pilot

Relief characteristics

Port size: 2",

Inlet pressure: 10 bar



Accessories

Silencer



Page 4

R3/4

MB006B

3/4 NPT

MB006A

Concentric reducing adaptors for gauge ports



R1/4-G1/8. 150232818

Service kits

Service kit



R18-100R (R18)

R18-100R & 5945-41 (R18 & R40)

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 ... 1,6	0 ... 0,16	0 ... 23	50 mm	R1/8	18-015-010
0 ... 4	0 ... 0,4	0 ... 58	50 mm	R1/8	18-015-011
0 ... 6	0 ... 0,6	0 ... 87	50 mm	R1/8	18-015-012
0 ... 10	0 ... 1	0 ... 145	50 mm	R1/8	18-015-013
0 ... 25	0 ... 2,5	0 ... 362	50 mm	R1/8	18-015-014

*1) primary scale

Gauge for North America

Center back connection,
black face for North America

(for full technical specification
see datasheet 8.900.900)

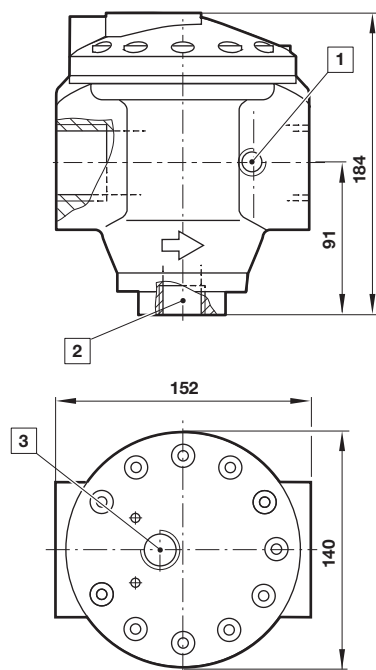


Pressure range

psig *1)	bar	Mpa	Ø	Thread size	Model
0 ... 30	0 ... 2	0 ... 0.2	2" (50 mm)	1/4 NPT	18-015-207
0 ... 60	0 ... 4	0 ... 0.4	2" (50 mm)	1/4 NPT	18-015-208
0 ... 160	0 ... 11	0 ... 1.1	2" (50 mm)	1/4 NPT	18-015-209
0 ... 300	0 ... 20	0 ... 2.1	2" (50 mm)	1/4 NPT	18-015-210

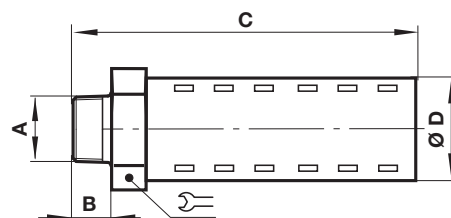
*1) primary scale

Dimensions



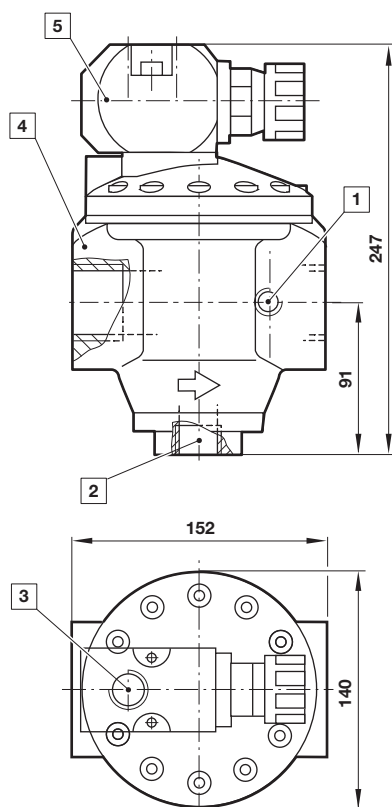
Silencer

Dimensions in mm
Projection/First angle

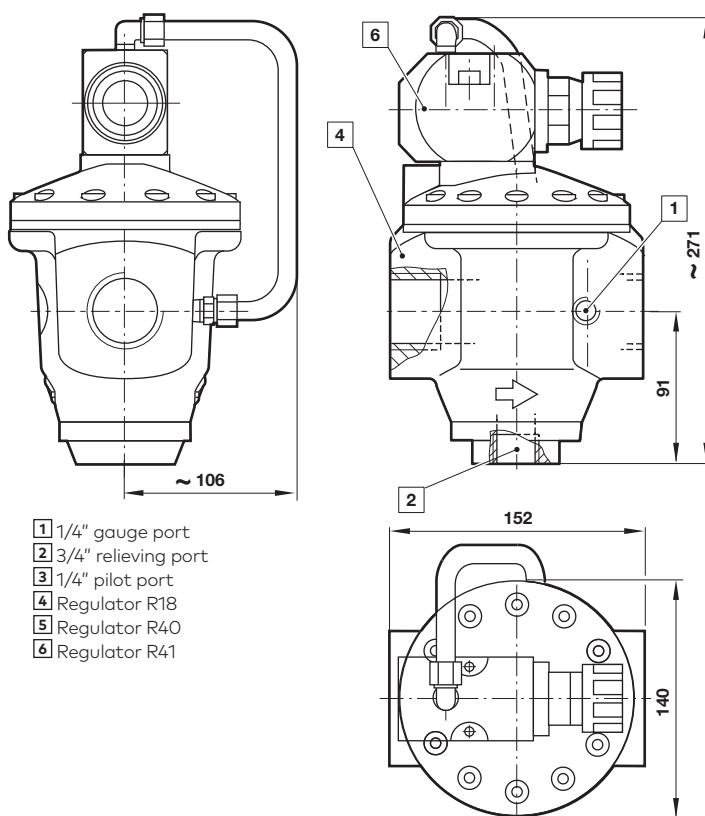


A	B	C	D	Symbol	Model
R3/4	20	134	51	51	MB006B
3/4 NPT	20	134	51	51	MB006A

With pilot regulator R40



With feedback pilot regulator R41



- 1 1/4" gauge port
- 2 3/4" relieving port
- 3 1/4" pilot port
- 4 Regulator R18
- 5 Regulator R40
- 6 Regulator R41

Warning

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11400, 20AL

Pilot pressure regulator



Port size: G1/4

Large diaphragm to valve area ration provides precise pressure regulation

Suitable for use with air controlled instruments or dead-end service

Recommended as pilot regulator for R18 and 11-808 pilot operated regulators and 40AC pilot operated relief valve

Constant bleed design ensures quick accurate response to pressure changes



Technical features

Medium:

Compressed air filtered to 5 µm neutral gases

Maximum inlet pressure:

25 bar (360 psi) maximum

Ports:

G1/4

Gauge port:

G1/8

Ambient/Media temperature:

-20° ... +80°C (-4° ... +176°F)

Version with gauge:

-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 & bonnet: zinc alloy

Adjusting knob: acetal resin

Elastomers: NBR

Technical data, standard models

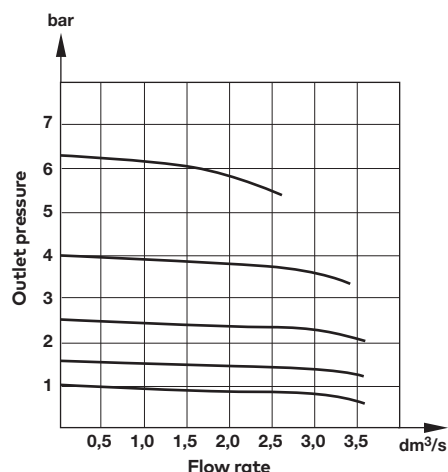
Symbol	Port size	Pressure range (bar)	(psi)	Flow *1) dm³/s	Weight (kg)	Model
	G1/4	0,06 ... 2	2.9 ... 29	2	0,90	11400-2G-PC100
	G1/4	0,06 ... 4	2.9 ... 58	2	0,94	11400-2G-PE100
	G1/4	0,16 ... 7	2.3 ... 101	2	1,00	11400-2G-PG100
	G1/4	7 ... 20	101 ... 290	2	1,05	20AL-X2G-PK100

*1) Typical flow with 7 bar (100 psi) inlet pressure, 1,6 bar (23 psi) outlet pressure and pressure drop of 0,1 bar (1,5 psi)



Flow characteristics

Inlet pressure: 7 bar

Range: 0,16 ... 7 bar



Accessories

Bracket mounting	Panel mounting	Service kit
		
18-001-005	18-003-999	11400-100-20AL

Gauge

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

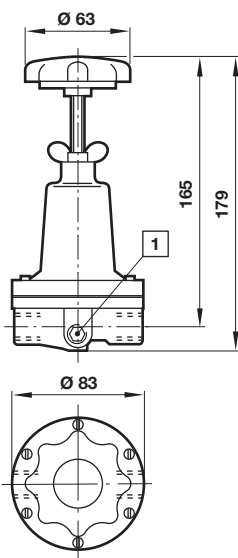


Pressure range	bar *2)	MPa	psi	Ø	Thread size	Model
0 ... 2,5	—	0 ... 0,2	0 ... 36	40 mm	R1/8	18-015-886
0 ... 4	0 ... 0,4	0 ... 0,4	0 ... 58	40 mm	R1/8	18-015-990
0 ... 10	0 ... 1	0 ... 1	0 ... 145	40 mm	R1/8	18-015-989
0 ... 25	0 ... 2,5	0 ... 2,5	0 ... 362	40 mm	R1/8	18-015-908

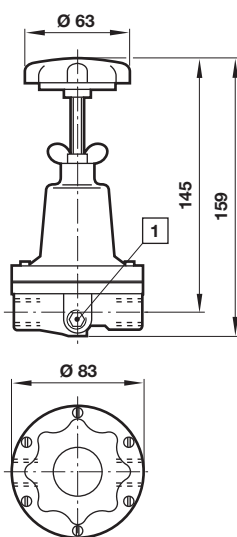
*2) primary scale

Dimensions

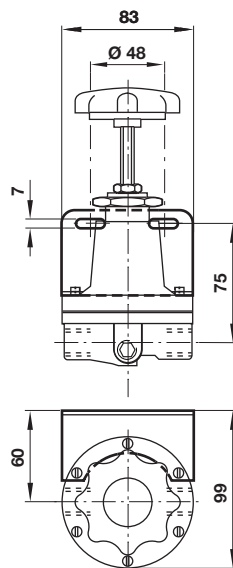
11400



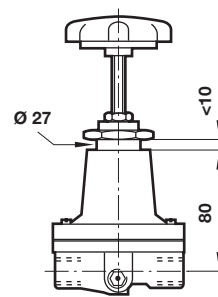
20AL



Bracket mounting



Panel mounting



Dimensions in mm
Projection/First angle



1 Gauge port

Warning

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R24

High flow pressure regulator

- > **Port size:**
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**
- > **Relieving feature allows outlet pressure reduction even when the system is dead ended**
- > **Full flow gauge ports**
- > **Panel mounting facility**
- > **Pilot operated version available**



Technical features

Medium:

Compressed air

Maximum pressure:

20 bar (290 psi)

Pressure range:

Manual operated:

0.7 ... 8 bar

0.7 ... 17 bar (optional)

0.3 ... 4 bar (optional)

0.3 ... 2 bar (optional)

Pilot operated: 0.7 ... 17 bar

Port size:

G1/4 ... G1 1/4, 1/4PTF ... 1 1/4PTF

Flow:

Manual operated version:

With 10 bar (145psi) inlet

pressure, 6.3 bar (91psi) set

pressure and 1 bar (14.5psi)

droop from set:

Port size 1/2" - 94 dm³/s

Port size 1 1/4" - 330 dm³/s

Ambient/Media temperature:

0 ... +80°C (+32 ... +176°F)

supply must be dry enough

to avoid ice formation at

temperatures below +2°C

(+35 °F).

Materials:

Body & bonnet: zinc alloy

Bottom plug & adjusting knob



(manual): acetal resin

Main valve: brass/synthetic

rubber

Elastomers: synthetic rubber

Technical data, standard models, relieving, without gauge

Symbol	Port size	Gauge port size	Pressure range (bar)	Adjustment	Weight (kg)	Model
	G1/4	G1/4	0.7 ... 17	Pilot	0,73	R24-201-RNXG
	G3/8	G3/8	0.7 ... 17	Pilot	0,70	R24-301-RNXG
	G1/2	G1/2	0.7 ... 17	Pilot	0,68	R24-401-RNXG
	G3/4	Rc1/2	0.7 ... 17	Pilot	1,18	R24-601-RNXG
	G1	Rc1/2	0.7 ... 17	Pilot	1,18	R24-801-RNXG
	G1 1/4	Rc1/2	0.7 ... 17	Pilot	1,14	R24-A01-RNXG
	G1/4	G1/4	0.7 ... 8	Manual	0,86	R24-200-RNLG
	G3/8	G3/8	0.7 ... 8	Manual	0,83	R24-300-RNLG
	G1/2	G1/2	0.7 ... 8	Manual	0,81	R24-400-RNLG
	G3/4	Rc1/2	0.7 ... 8	Manual	1,24	R24-600-RNLG
	G1	Rc1/2	0.7 ... 8	Manual	1,24	R24-800-RNLG
	G1 1/4	Rc1/2	0.7 ... 8	Manual	1,20	R24-A00-RNLG

Option selector

R24-★0★-R★★★

Port size	Substitute
1/4"	2
3/8"	3
1/2"	4
3/4"	6
1"	8
1 1/4"	A
Type	Substitute
Manual operated	0
Pilot operated	1
Gauge	Substitute
With	G
Without (standard)	N

Thread	Substitute
PTF	A
ISO G parallel (standard)	G
Pressure range	Substitute
0.7 ... 8 bar *	L
0.3 ... 2 bar *	C
0.3 ... 4 bar *	F
0.7 ... 17 bar *	S
0.7 ... 17 bar **	X

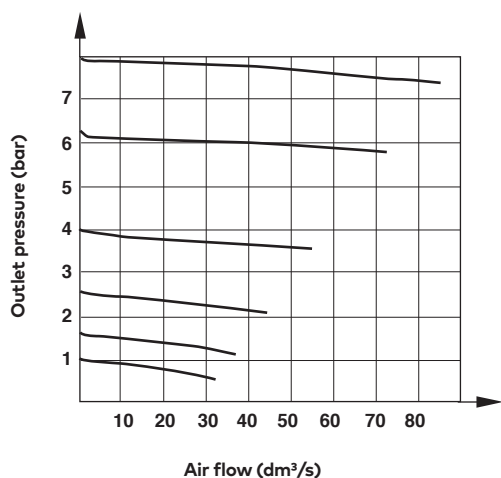
* Manual operated

** Pilot operated

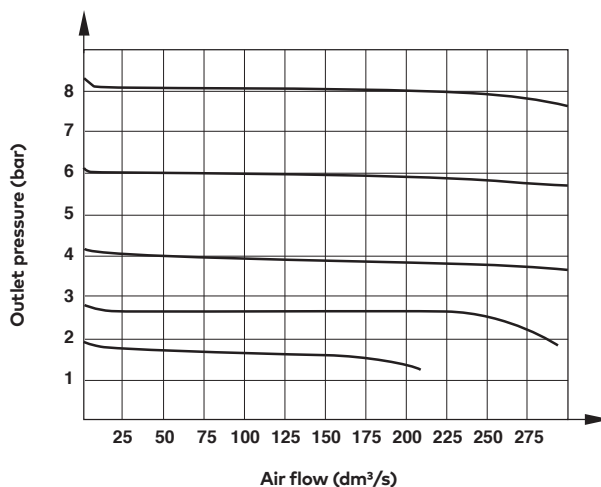
Flow characteristics

Manual-operated

Inlet pressure: 10 bar (145psi)
Port size: 1/2 inch

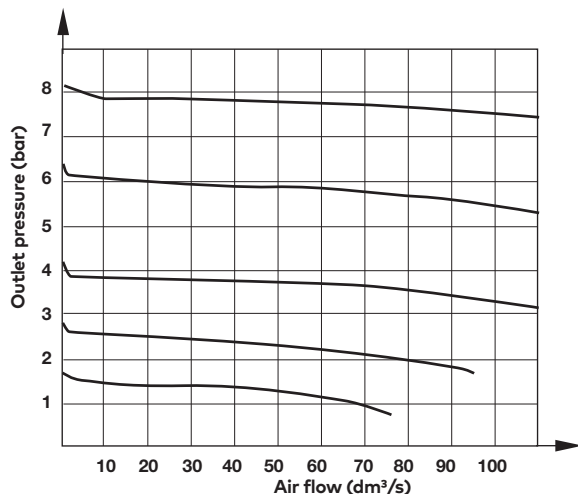


Inlet pressure: 10 bar (145psi)
Port size: 1 inch

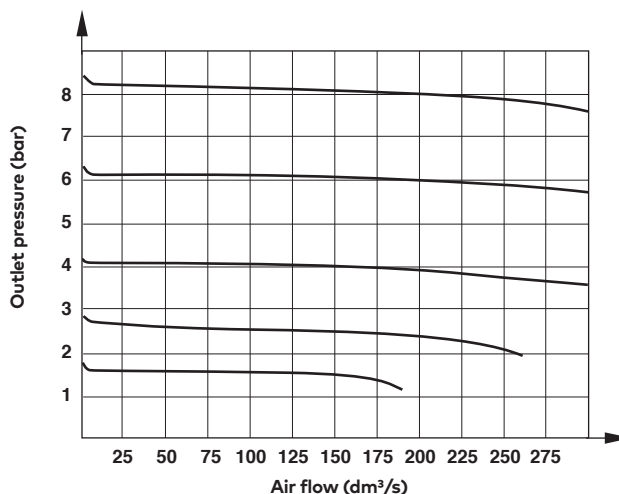


Pilot-operated

Inlet pressure: 10 bar (145psi)
Port size: 1/2 inch



Inlet pressure: 10 bar (145psi)
Port size: 1 inch



Accessories

Mounting bracket kit



18-999-412

Gauge



0 ... 6 bar: 18-015-012

0 ... 10 bar: 18-015-013

0 ... 25 bar: 18-015-014

Concentric reducing adaptors for gauge ports



R1/4-G1/8: 150232818

R3/4-G1/8: 150233818

R1/2-G1/8: 150234818

Panel nut



2962-04

Service kits

Service kit for standard pressure range 0,7 ... 8 bar only



Manual actuated

G1/4 ... G1/2: 5292-52

G3/4 ... G1 1/4: 5292-53

Pilot actuated

G1/4 ... G1/2: 5292-54

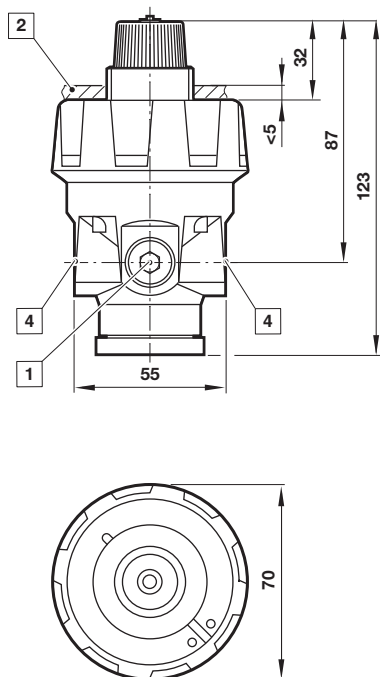
G3/4 ... G1 1/4: 5292-55

Drawings

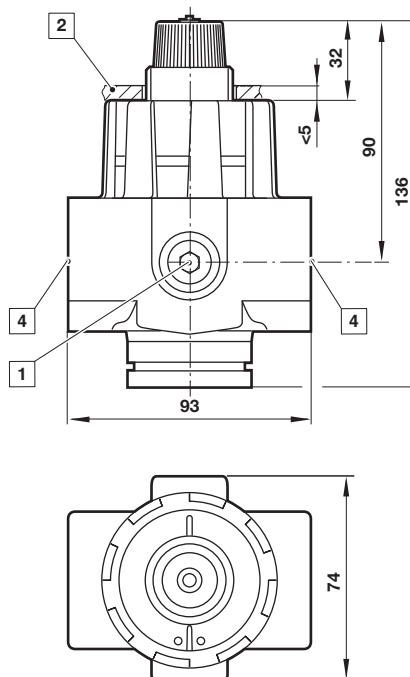
Dimensions in mm
Projection/First angle



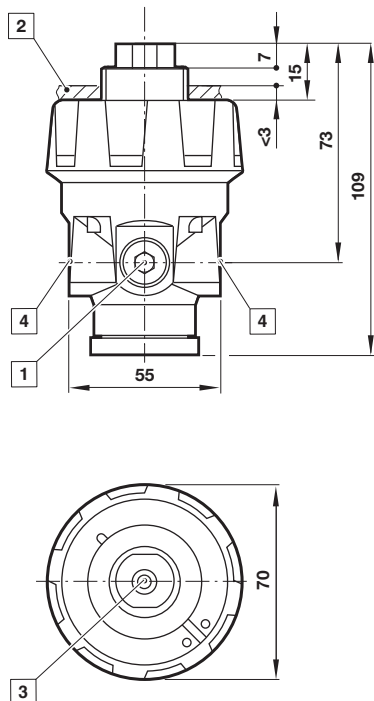
R24 (G1/4 ... G1/2) manually operated



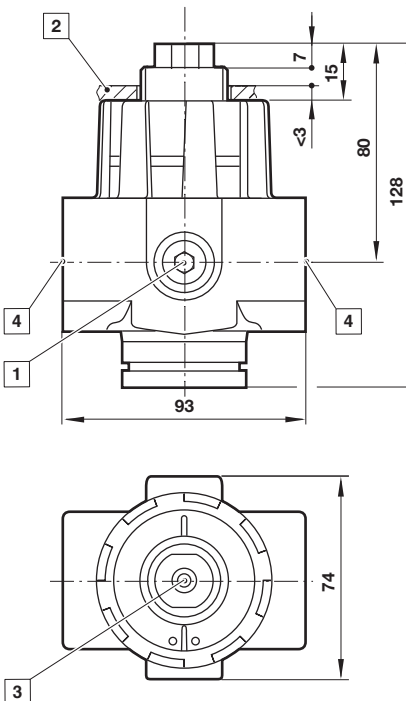
R24 (G3/4 ... G1 1/4) manually operated



R24 (G1/4 ... G1/2) pilot operated



R24 (G3/4 ... G1 1/4) pilot operated

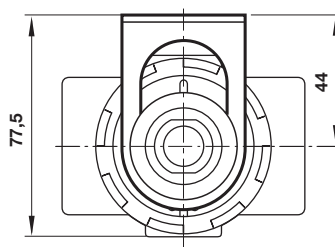
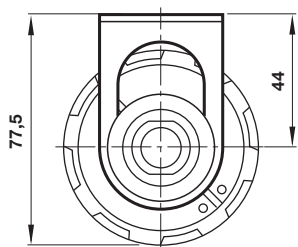
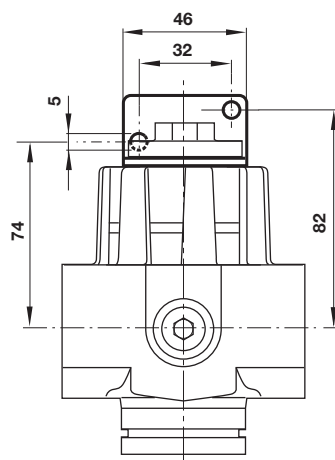
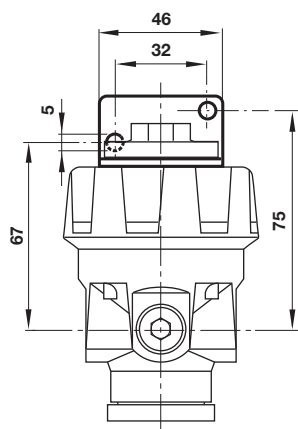


- 1 Gauge port
- 2 Panel hole \varnothing 30 mm
- 3 Pilot port G1/4
- 4 Main ports 1/4", 3/8", 1/2", 3/4", 1" or 1 1/4"

Mounting bracket G1/4, G3/8, G1/2

G3/4, G1, G1 1/4

Dimensions in mm
Projection/First angle



Panel thickness: 0 ... 3 mm

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20AG

High flow pressure regulator



- > Port size G1/2 ... G1
- > Ported regulators for general purpose and high flow pneumatic applications
- > Large diaphragm provides accurate and quick response to changing flow demands and line pressure
- > Balanced valve minimizes effect of variations in inlet pressure on outlet pressure
- > Extensive range of applications



Technical features

Medium:

Compressed air only

Maximum inlet pressure:

28 bar (406 psi) max.

Pressure range:

0,1 ... 3,5 bar (1 ... 50 psi),

0,2 ... 8 bar (3 ... 116 psi)

0,7 ... 17 bar (10 ... 246 psi)

(1/2" version only)

Port sizes:

1/2", 3/4" or 1"

Gauge port:

1/8 PTF with PTF main ports

Rc1/8 with ISO G main ports

Ambient/Media temperature:

-20 ... +80°C (-4 ... +176 °F)

Version with gauge:

-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: Aluminium alloy

Bottom plug: Glass filled nylon for G 1/2, aluminium for G 3/4 and G 1

Adjusting screw: Steel-plated

Elastomers: Synthetic rubber

Technical data, standard models

Symbol	Port size	Pressure range (bar)	Flow * (dm³/s)	Relieving	Adjustment	Weight (kg)	Model
	G1/2	0,1 ... 3,5	60	Standard	T-bar	1,40	20AG-X4G-PD100
	G1/2	0,2 ... 8	60	Standard	T-bar	1,30	20AG-X4G-PH100
	G1/2	0,7 ... 17	60	Standard	T-bar	1,30	20AG-X4G-PJ100
	G3/4	0,1 ... 3,5	80	Standard	T-bar	2,75	20AG-X6G-PD100
	G3/4	0,2 ... 8	80	Standard	T-bar	2,85	20AG-X6G-PH100
	G1	0,1 ... 3,5	100	Standard	T-bar	2,44	20AG-X8G-PD100
	G1	0,2 ... 8	100	Standard	T-bar	2,90	20AG-X8G-PH100

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

Option selector

20AG-★★G-★★1★★

Diaphragm	Substitute
Relieving (standard)	X
Non-relieving - (no digit)	
Port size	Substitute
1/2"	4
3/4"	6
1"	8

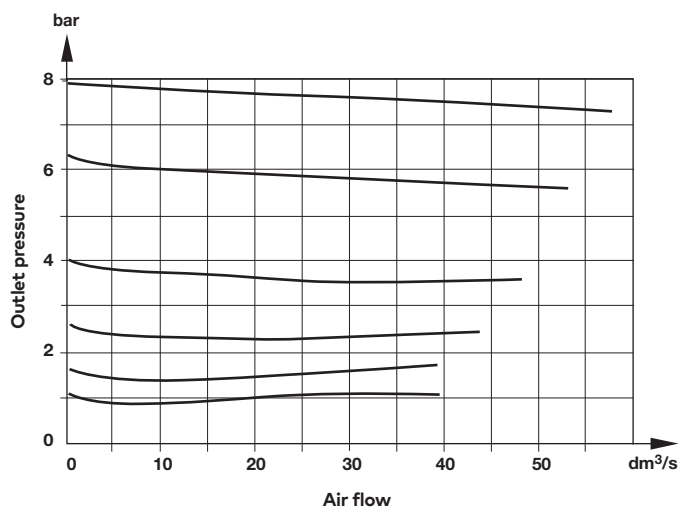
Options *2)	Substitute
T-bar handle (standard)	00
Panel mounted with plastic handwheel, 1/2" only	03
Pressure ranges *1)	Substitute
0,1 ... 3,5 bar	D
0,2 ... 8 bar	H
0,7 ... 17 bar, 1/2" only	J
Thread form	Substitute
PTF	A
ISO G parallel	P

*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.

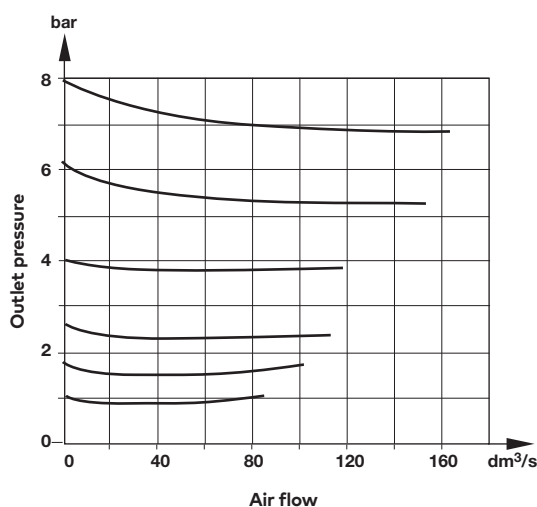
*2) Other seals or use other gases might be possible - please contact Norgren

Flow characteristics

Inlet pressure: 10 bar, port size: 1/2"
Range: 0,2 ... 8 bar



Inlet pressure: 10 bar, port size: 1"
Range: 0,2 ... 7 bar



Accessories



Accessories

Wall mounting bracket

1



Port size

G 1/2	18-001-005
G 3/4 & G 1	18-001-029

Service kits



Model

20AG-X4G/**100 (relieving)	20AG-X4-100
20AG-4G/**100 (non-relieving)	20AG-4-100
20AG-X6G/**100 (relieving)	20AG-X8-100
20AG-6G/**100 (non-relieving)	20AG-8-100
20AG-X8G/**100 (relieving)	20AG-X8-100
20AG-8G/**100 (non-relieving)	20AG-8-100

Gauges

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

2



Pressure range	bar *1	MPa	psi	Ø	Thread size	Model
0 ... 4	0 ... 0,4	0 ... 0,28	0 ... 58	50 mm	R1/8	18-015-011
0 ... 10	0 ... 1	0 ... 0,7	0 ... 145	50 mm	R1/8	18-015-013
0 ... 25	0 ... 2,5	0 ... 1,7	0 ... 362	50 mm	R1/8	18-015-014

*1) primary scale

Center back connection, black face
for North America (full technical specification see datasheet 8.900.900)

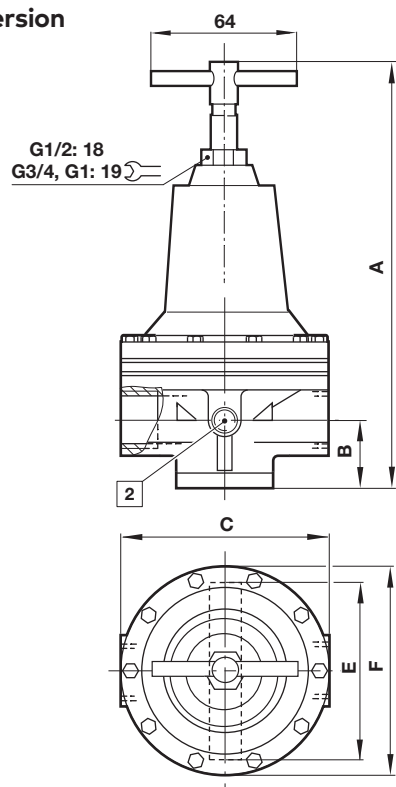
2



Pressure range	psig *1	bar	MPa	Ø	Thread size	Model
0 ... 60	0 ... 4	0 ... 0,4	0 ... 0,28	2" (50 mm)	1/8 NPT	18-015-202
0 ... 160	0 ... 11	0 ... 0,7	0 ... 1,0	2" (50 mm)	1/8 NPT	18-015-204
0 ... 400	0 ... 28	0 ... 1,7	0 ... 2,4	2" (50 mm)	1/8 NPT	18-015-206

*1) primary scale

Dimensions Standard version

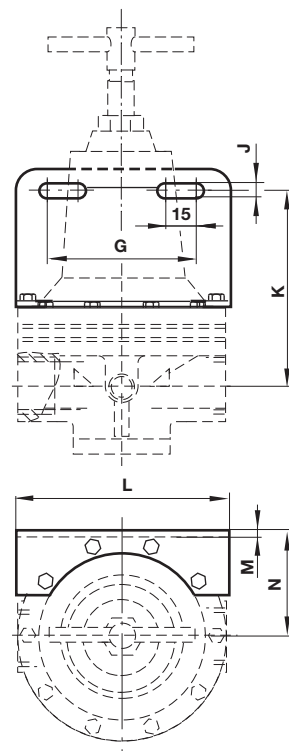


2 Gauge port

Port size	A	B	C	E	Ø F	P
G1/2	162	36	86	82	83	179
G3/4	232	41	124	108	124	245
G1	232	41	124	108	124	245

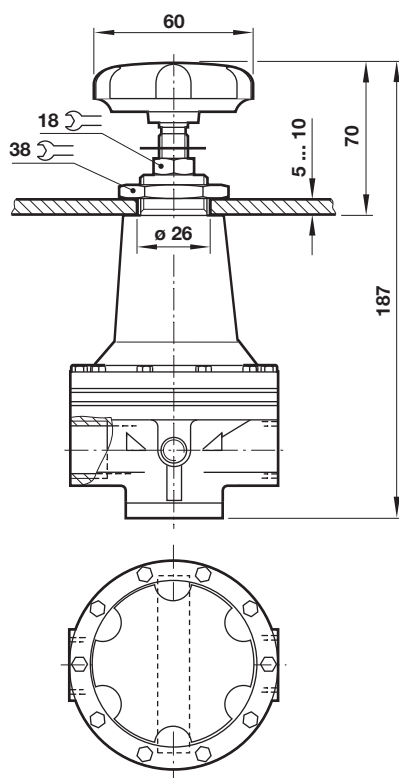
Bracket mounting

Dimensions in mm
Projection/First angle



Port size	G	J	K	L	M	N
G1/2	63	7	73	83	2	57
G3/4	98	8	80	124	2	75
G1	98	8	80	124	2	75

Panel mounted with plastic handwheel, 1/2" only



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11-808

Pilot operated regulator



Port size: 3/4", 1"
(ISO G/ PTF)

Constant bleed type

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



Technical features

Medium:

Compressed air only

Maximum inlet pressure:

20 bar (290 psi) maximum

Ports size:

3/4", 1"

Pilot port:

Rc 1/4

Gauge port:

Rc1/8

Flow:

See table below

Relieving:

Standard

Ambient/Media temperature:

-20 ... +80°C (-4° ... +176°F)

Version with gauge:

-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

Bonnet: Aluminium

Valve: Brass

Elastomers: NBR

Technical data, standard models

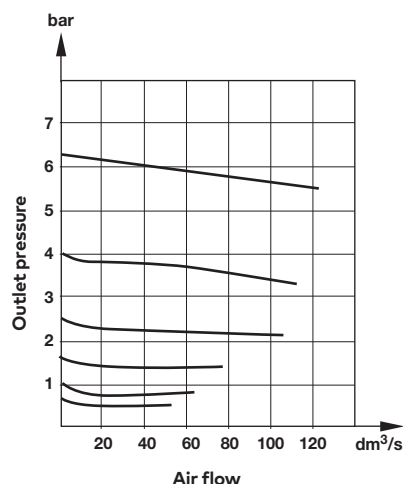
Symbol	Port size	Flow *1) dm ³ /s	Diaphragm	Weight (kg)	Model
	G3/4	180	Relieving	2,2	11-808-960
	G1	180	Relieving	2,1	11-808-980

*1) Typical flow (feedback pilot) with 8 bar inlet pressure, 6,3 bar outlet pressure and minimal pressure drop.

Flow characteristics

Inlet pressure:

8 bar, port size: 1"



Accessories

Wall mounting bracket



18-001-027

Service kit

Service kit



11-908-100

Gauge

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



Pressure range bar *2)	MPa	psi	Ø	Thread size	Model
0 ... 1,6	0 ... 0,16	0 ... 23	50 mm	R1/8	18-015-010
0 ... 4	0 ... 0,4	0 ... 58	50 mm	R1/8	18-015-011
0 ... 10	0 ... 1	0 ... 145	50 mm	R1/8	18-015-013
0 ... 25	0 ... 2,5	0 ... 362	50 mm	R1/8	18-015-014

*2) primary scale

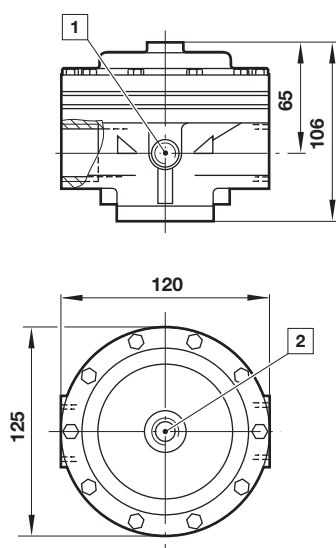
Center back connection, black face
for North America
(for full technical specification see datasheet 8.900.900)



Pressure range psig *2)	bar	MPa	Ø	Thread size	Model
0 ... 30	0 ... 2	0 ... 0.2	2" (50 mm)	1/8 NPT	18-015-201
0 ... 60	0 ... 4	0 ... 0.4	2" (50 mm)	1/8 NPT	18-015-202
0 ... 160	0 ... 11	0 ... 1.1	2" (50 mm)	1/8 NPT	18-015-204
0 ... 300	0 ... 20	0 ... 2.1	2" (50 mm)	1/8 NPT	18-015-205

*2) primary scale

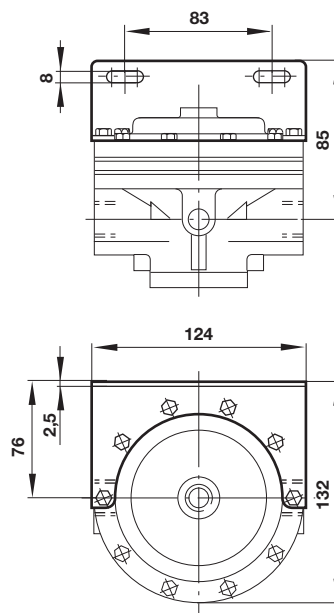
Dimensions



- 1 Gauge port Rc1/8 or 1/8 NPT plugged
2 Pilot port Rc1/4

Bracket mounting

Dimensions in mm
Projection/First angle



Warning

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R27-200 Series

Precision pressure regulator, manually actuated



- > Port size: 1/4" (ISO G, NPT)
- > Versatile design for varied applications
- > High-precision manual pressure regulator
- > Highly sensitive and accurate
- > Perfect for dead-end applications
- > Excellent long term stability
- > High forward and relief flow capability
- > Low air consumption



Technical features

Medium:

Oil free, dry air filtered to 25 µm
Note: for use with gases other than compressed air please consult NORGREN

Operation:

Handwheel 2,5 ... 3 turns

Inlet pressure:

At least 0,2 bar (3 psi) above max required output pressure, up to a maximum of 10 bar (145 psi)

Air and gauge ports:

G1/4 or 1/4 NPT

Flow capacity:

Up to 500 l/min

Hysteresis & repeatability:

Typically < 0,05% at mid range

Ambient/Media temperature:


-20 ... +70°C (-4 ... +158°F)

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35 °F)

Materials:

Body: Passivated zinc, epoxy painted
Springs: Stainless steel
Elastomers: NBR

Technical data, standard model

Symbol	Port size	Pressure range (bar)	Air consumption (l/min)	Regulation accuracy *1) (%)	Weight (kg)	Model
	G1/4	0,14 ... 2,0	Typically < 2	0,1	0,78	R27-200-RNCG
	G1/4	0,14 ... 4,0	Typically < 2	0,05	0,78	R27-200-RNFG
	G1/4	0,14 ... 8,0	Typically < 2	0,02	0,78	R27-200-RNLG

*1) % output change for 1 bar supply pressure change at mid-range output

"Other options available include captured bleed, natural gas, gearbox, yoke mount, weatherproof, alternative pneumatic connections and low pressure versions. For options not shown and any specific requirements please contact the

Option selector

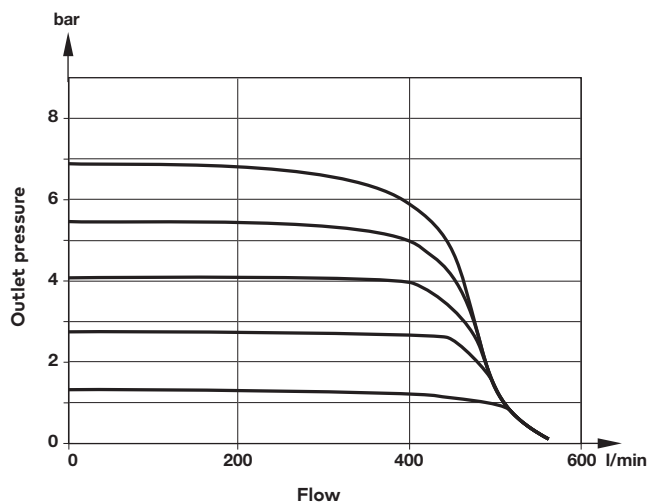
R27-200-RN★★

Pressure range	Substitute
0,14 ... 2,0 bar (2 ... 29 psi)	C
0,14 ... 4,0 bar (2 ... 58 psi)	F
0,14 ... 8,0 bar (2 ... 116 psi)	L

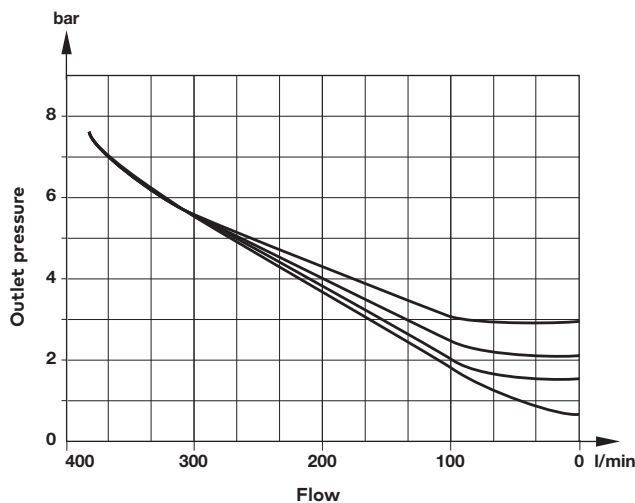
Threads	Substitute
NPT	R
ISO G parallel	G

Flow characteristics

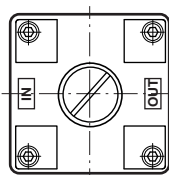
Forward flow (supply pressure 7 bar)



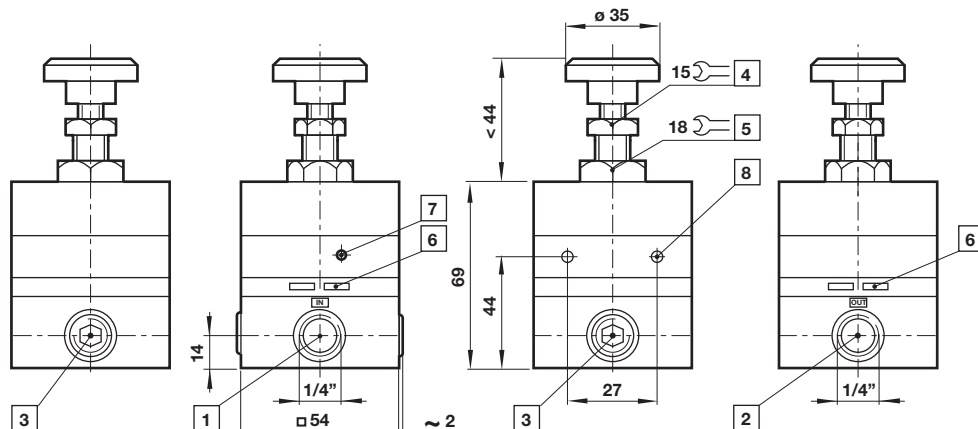
Relief flow (supply pressure 7 bar)



Dimensions



Dimensions in mm
Projection/First angle



- 1 Inlet port G1/4 or 1/4 NPT
- 2 Outlet port G1/4 or 1/4 NPT
- 3 Gauge port G1/4 or 1/4 NPT
- 4 Tension nut
- 5 Mounting nut (Ø 11,5 required for panel mounting)
- 6 Exhaust, do not obstruct!
- 7 Bleed port
- 8 Mounting holes (mount with M4 x 8 mm self tap screws)

Warning

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»Technical features/data«.

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11-818

Precision pressure regulator

Port size: G1/4

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

Panel mounting facility

Three versions available:

Standard pressure : SP

High pressure: HP

Low pressure: LP



Note: Not recommended for dead-end applications

Technical features

Medium:

Compressed air

Note: 5 µm prefiltration and oil-free are required!

Maximum inlet pressure:

LP: 8 bar (116 psi)

SP: 10 bar (145 psi)

HP: 14 bar (203 psi)

Flow:

See diagrams on page 2

Relieving:

Standard

Pressure range:

SP: 0,07 ... 4 bar (1 ... 58 psi)

LP: 0,02 ... 0,5 bar (0,2 ... 7 psi)

HP: 0,4 ... 10 bar (5,8 ... 145 psi)

Port size:

G1/4

Gauge port:

See table below

Standard compliances:

II 2G Ex h IIC T6 Gb
II 2D Ex h IIIC T85° Db

Ambient/Media temperature:

0 ... +70°C (+32° ... +158°F)

Version with gauge:

0 ... +65°C (+32° ... +149°F)

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Maximum bleed flow at :

LP - 6.9 bar (100 psig) : 0,013 dm³/s (0.03 scfm)

SP - 6.9 bar (100 psig) : 0,013 dm³/s (0.03 scfm)

HP - 13.8 bar (200 psig) : 0,027 dm³/s (0.06 scfm)

Maximum bleed rate occurs under dead-end (no flow) conditions.


Materials:

Body & bonnet: Zinc alloy

Adjusting knob: Acetal resin

Elastomers: NBR

Technical data, standard models

Symbol	Port size	Service	Pressure range (bar)	Accuracy (bar) *1)	Relieving	Gauge port	Tamper proof adjusting screw	Weight (kg)	Model
	G1/4	LP	0,02 ... 0,5 (low)	0,01	Standard	—	—	0,64	11-818-999
	G1/4	LP	0,02 ... 0,5 (low)	0,01	Standard	—	Standard	0,64	11-818-998
	G1/4	SP	0,07 ... 4 (standard)	0,03	Standard	—	—	0,64	11-818-100
	G1/4	SP	0,07 ... 4 (standard)	0,03	Standard	—	Standard	0,64	11-818-101
	G1/4	HP	0,4 ... 10 (high)	0,05	Standard	—	—	0,64	11-818-110
	G1/4	LP	0,02 ... 0,5 (low)	0,01	Standard	R1/4	—	0,64	11-818-987
	G1/4	SP	0,07 ... 4 (standard)	0,03	Standard	R1/4	—	0,64	11-818-993
	G1/4	HP	0,4 ... 10 (high)	0,05	Standard	R1/4	—	0,64	11-818-991

*1) Typical mid-range variance from set pressure with 7 bar inlet at 2 dm³/s

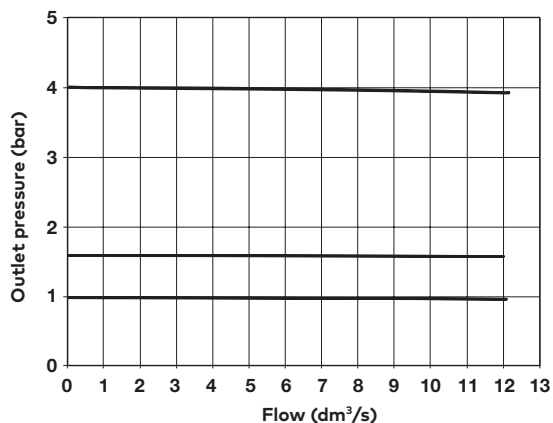
Note: 11-818 is not a constant bleed device, when being used under flow conditions no air is consumed.

Air bleed is only effective under zero flow conditions as in a dead end application.

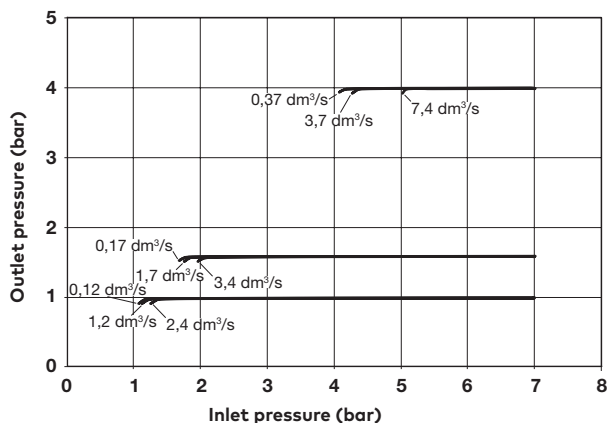
Flow characteristics

Standard pressure version (SP):

Inlet pressure 7 bar (100 psi); pressure range 0,07 ... 4 bar (1 ... 58 psi)

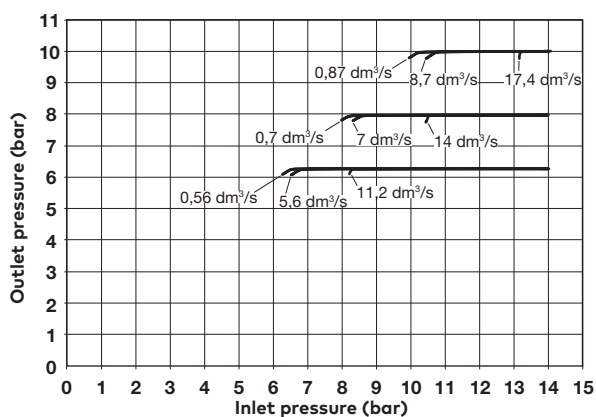
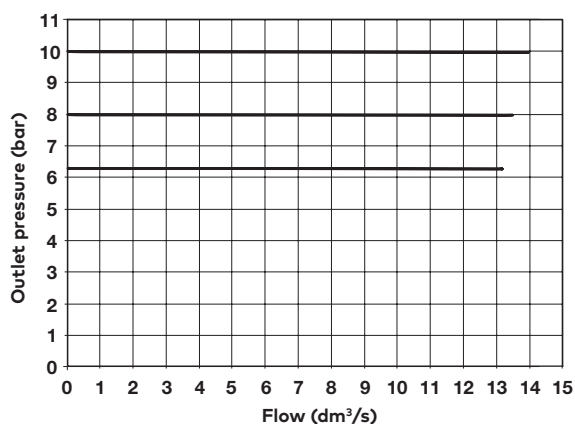


Regulating characteristics



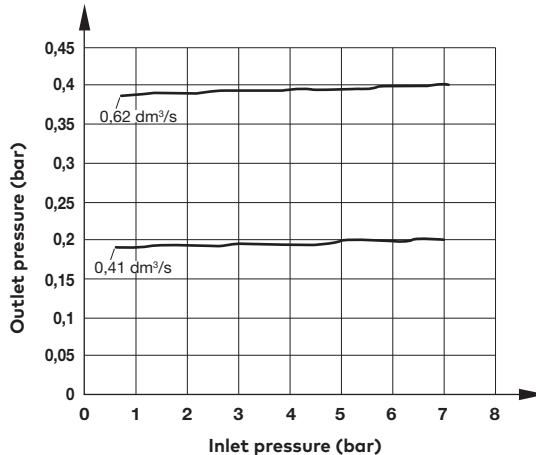
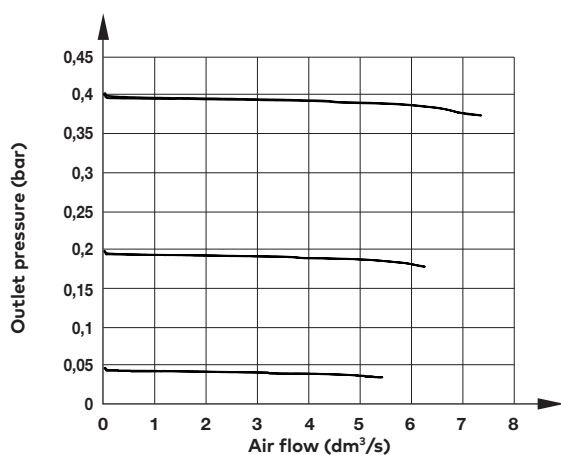
High pressure version (HP):

Inlet pressure 14 bar (200 psi); pressure range 0,4 ... 10 bar (5,8 ... 145 psi)






Low pressure version (LP):

Inlet pressure 7 bar (100 psi); pressure range 0,02 ... 0,5 bar (0,2 ... 7 psi)




Accessories

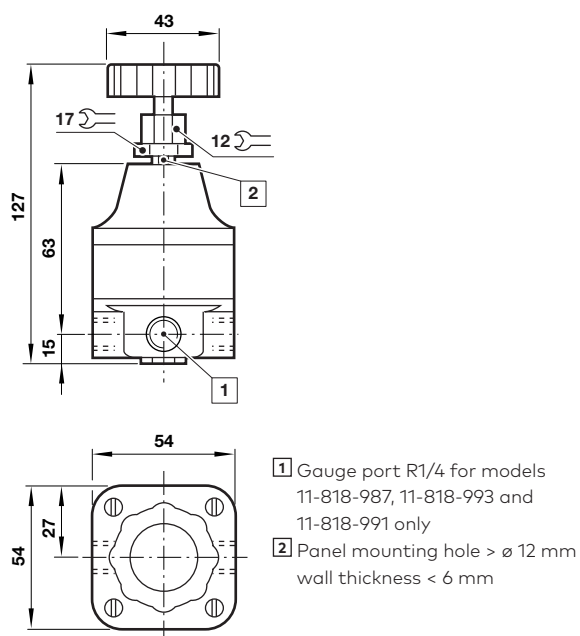
Bracket	Gauge Ø 40 mm, Port size R1/8	Concentric reducing adaptors for gauge ports*
		
D50159014	0 ... 1,6 bar: 18-015-991	R1/4-G1/8 150232818
	0 ... 4 bar: 18-015-990	
	0 ... 10 bar: 18-015-989	

*Required to screw above mentioned gauges into the regulator.

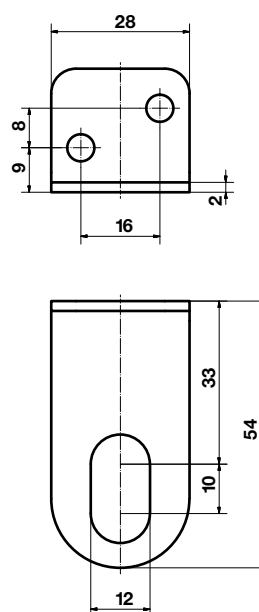
Service kits

Service kits

2787-96 (low pressure)
2787-98 (standard pressure)
2787-97 (high pressure)

Dimensions



Bracket



Dimensions in mm
Projection/First angle



Warning

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R38

Precision regulator (stainless steel)



- > Port size: 1/4 NPT
- > Designed for use in corrosive environment
- > Metallic parts meet NACE* Standard MR-01-75
- > Applications include marine environment, oil and gas production, chemical and food processing, medical analysis
- > Model for precision regulation and high flow

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



Technical features

Medium:

Compressed air only

Maximum inlet pressure:

31 bar (450 psig)

Outlet pressure range:

0,04 ... 2 bar (0,5 ... 29 psig),

0,07 ... 4 bar (1 ... 58 psig),

0,25 ... 7 bar (3,6 ... 102 psig),

0,4 ... 10 bar (5,8 ... 145 psig)

Port sizes:

1/4 NPT

1/4 NPT (gauge), 1/8 NPT (relief)

Standard compliances:

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85° Db

Ambient/Media temperature:

-40 ... +80°C (-40 ... +176 °F)

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+36 °F)


Materials:

Body, bowl, bonnet & adjusting

screw: stainless steel

Elastomers: Synthetic rubber

Technical data, standard model, relieving

Symbol	Port size	Outlet pressure (bar)	Flow * (dm³/s)	Weight (kg)	Model
	1/4 NPT	0,04 ... 2	8	1,1	R38-240-RNCA
	1/4 NPT	0,07 ... 4	8	1,1	R38-240-RNFA

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

Option selector

R38-24★-★N★A

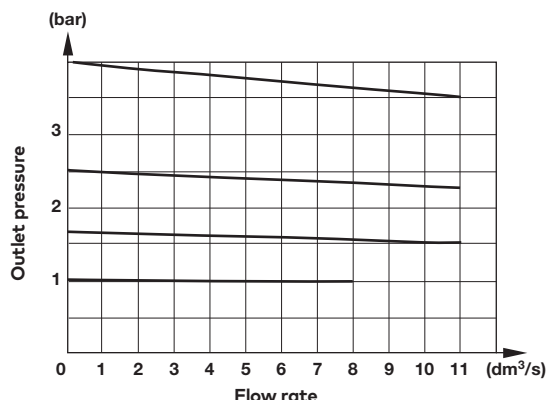
Mounting	Substitute
None	0
Neck mounting bracket	1
Panel nut	2
Diaphragm	Substitute
Relieving	R
Non relieving	N

Outlet pressure adjustment ranges (bar)*	Substitute
0,04 ... 2	C
0,07 ... 4	F
0,25 ... 7	K
0,4 ... 10	M

* 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: 7 bar, port size: 1/4 NPT



Spares kit

Valve assembly and diaphragm



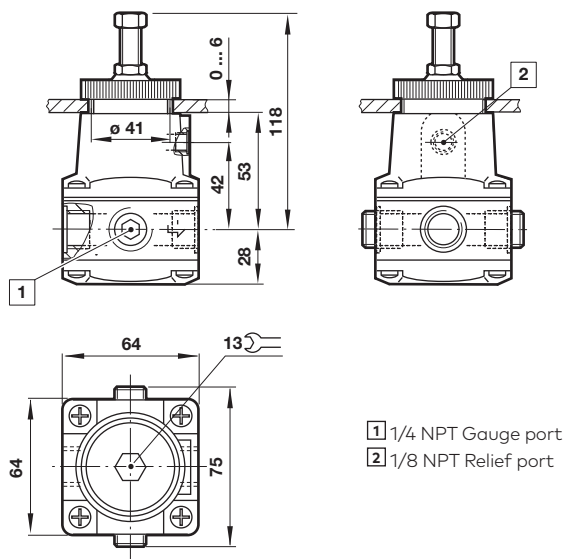
Description	Model
2 bar relieving	R38-100R
4 and 7 bar relieving	R38-101R
10 bar relieving	R38-102R
2 bar non-relieving	R38-100NR
4 and 7 bar non-relieving	R38-101NR
10 bar non-relieving	R38-102NR

Accessories

Panel nut	Neck mounting bracket	Neck mounting bracket	Gauge *	Plastic adjusting knob
				
5988-02	5989-02	18-001-973 (includes panel nut)	18-015-913 (0 ... 6 bar) 18-015-909 (0 ... 10 bar)	74630-04

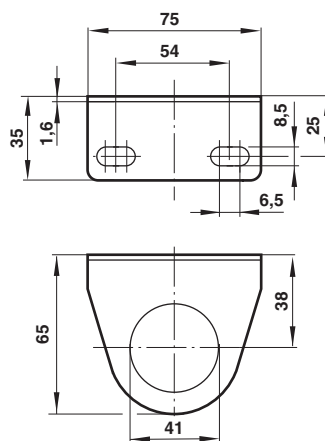
* Stainless steel items not strictly to NACE standard MR-01-75.

Dimensions



Neck mounting bracket

Dimensions in mm
Projection/First angle



Warning

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- > **Port size: 1/4 PTF**
- > **Metallic parts meet NACE***
- > **Designed for use in corrosive environments**
- > **Adjusting knob has snap-action lock**

- > **Applications include marine environment, oil and gas production, chemical and industrial compressed air systems**

* National Association of Corrosion Engineers (NACE) MR-01-75) defines requirements for sulphide stress cracking resistant materials used in well-head and other corrosive environments.



Technical features

Medium:

Compressed air or neutral gases
Other media on request

Operating pressure:

20 bar max (290 psi)

Pressure range:

0,3 ... 8,5 bar (4 ... 123 psi),
0,3 ... 3,5 bar (4 ... 50 psi)

Diaphragm:

With or without relieving

Typical flow:

see below

Gauge ports:

1/8 PTF

Ambient/Media temperature:

Acetal bonnet

-25 ... +66°C (-13 ... 150°F)

T-handle

-25 ... +80°C (-13 ... 176 °F)

- 40°C (-40°F) version on request

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35 °F).

Materials:

Body and valve: 1.4104 (316) stainless steel

Bonnet: 1.4104 (316) stainless steel with T-handle or Acetal with stainless steel adjusting screw


Valve seat: Acetal

Springs: 1.4319 (302) Stainless steel

Elastomers:

FPM

Technical data, Standard models

Symbol	Port size	Outlet pressure range (bar)	Flow *1) (dm³/s)	Diaphragm	Bonnet type	Weight (kg)	Model
	1/4 PTF	0,3 ... 8,5	7	Relieving	Knob (Acetal)	0,15	R05-200-RNLA
	1/4 PTF	0,3 ... 8,5	7	Relieving	T-handle (stainless steel)	0,26	R05-232-RNLA

*1) Typical flow with 10 bar inlet pressure, 6,3 bar set pressure and 1 bar droop form set.

Option selector

Bonnet	Substitute
Standard knob (Acetal)	00
T-handle (Stainless steel)	32

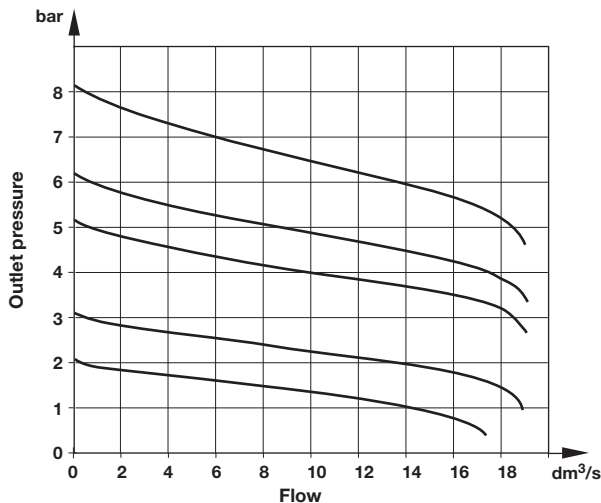
R05-2★★-★N★A

Outlet pressure adjustment ranges *	Substitute
0,3 ... 3,5 bar	E
0,3 ... 8,5 bar	L
Diaphragm	Substitute
Relieving	R
Non relieving	N

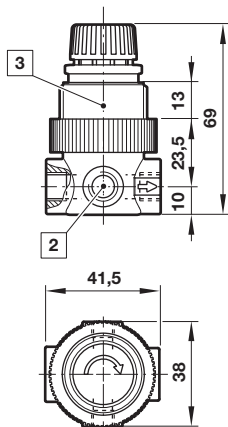
* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

Air flow characteristics

R05 – Port size: 1/4 PTF, inlet pressure: 12 bar, pressure range: 0,3 ... 8,5 bar



Regulator with Acetal bonnet



- [2] Gauge port: 1/8 PTF, standard units are shipped with two plugs for sealing gauge ports.
 [3] Panel mounting hole diameter 30 mm, Panel thickness 0 ... 6 mm

Warning

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Accessories



*1) Stainless steel items not strictly to NACE standard MR-01-75.

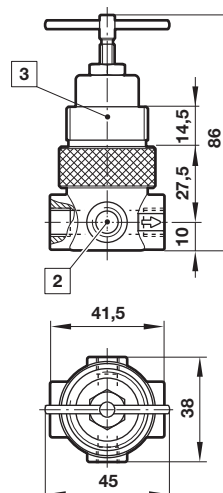
Spares kit



Dimensions in mm
 Projection/First angle



Regulator with stainless steel T-handle



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- > Port size: M5, G1/8 or Cartridge style
- > Miniature high performance regulator
- > Suitable for oxygen service
- > Compliant to:
BS EN ISO 15001:2011
BS EN ISO 10524-4:2008
RoHS
- > Precision pressure regulation
- > Excellent flow, pressure drop and hysteresis
- > Cartridge design for manifold integration
- > Design registration number:
000362165-0001/0002



Technical features

Medium:

Compressed air and medical gases

Maximum inlet pressure:

10 bar (145 psi)

Standard pressure range:

0 ... 0,35 bar (0 ... 5 psi)

0 ... 2 bar (0 ... 29 psi)

0 ... 2,75 bar (0 ... 39.9 psi)

0 ... 4 bar (0 ... 58 psi)

Port size:

M5 or G1/8 (Body version)

Alternative cartridge style

Flow range:

200 l/min - RM1L

500 l/min - RM1H

[P1 = 10 bar (145 psi) &

P2 = 2 bar (29 psi)]

Ambient/Media temperature:

-5 ... +95°C (+23 ... 203 °F)

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (35°F).

Wetted materials:

Housing: Aluminium

Polymers: PPS (FDA compliant)

Elastomers:

FPM (FDA compliant)

Metal components:

Stainless steel & Aluminium

Option selector

RM1★-★★★-N★V

Type	Substitute
Low flow	L
High flow	H
Type	Substitute
Body M5	5M
Body G1/8	1G
Cartridge style	NN

Springs	Substitute
0,35 bar	A
2,00 bar	C
2,75 bar	D
4,00 bar	F
Adjustment	Substitute
Not preset	D
Preset	S

Note: For pre-set units the following information is required:

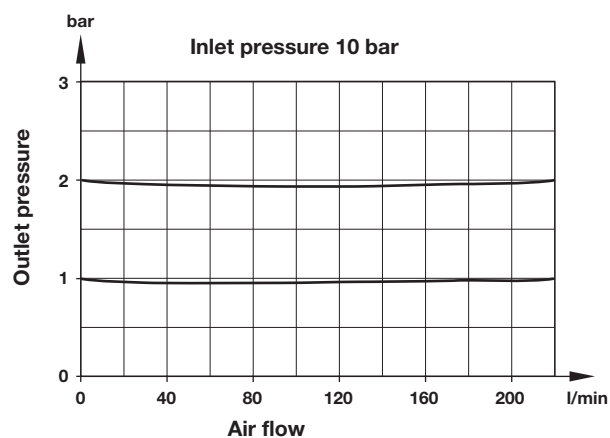
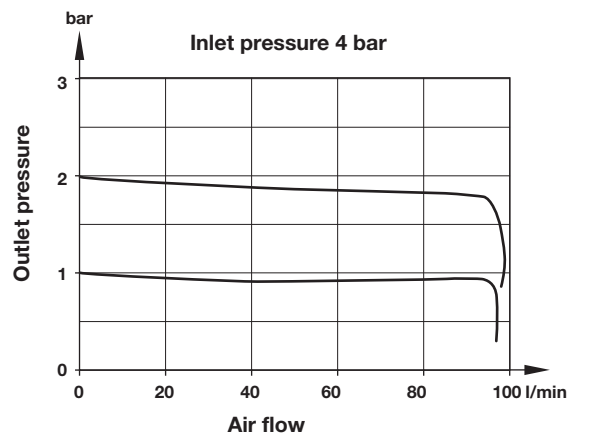
Primary pressure ± Tolerance

Pre-set pressure ± Tolerance

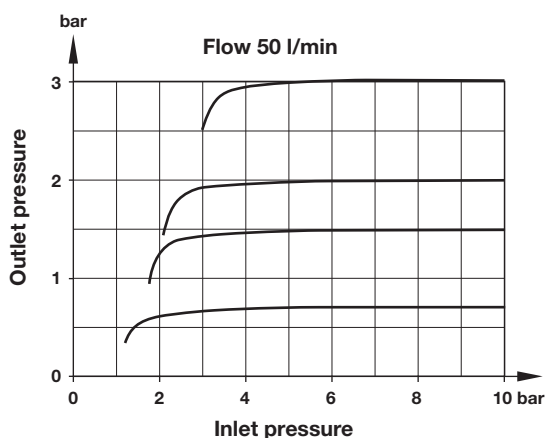
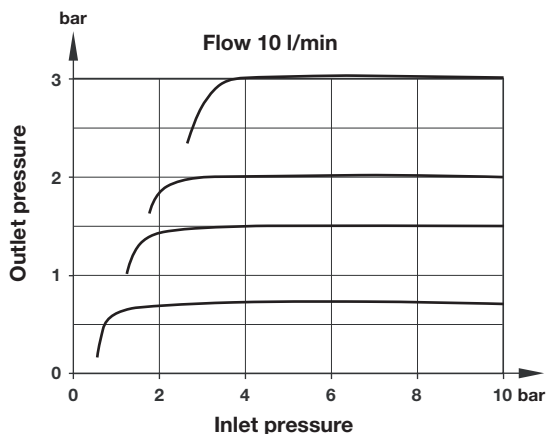
Setting flow ± Tolerance

Flow characteristics

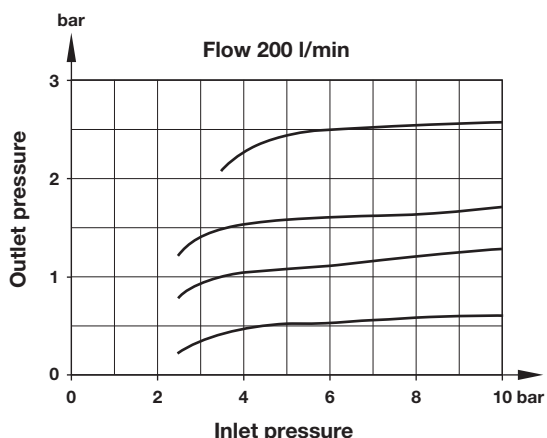
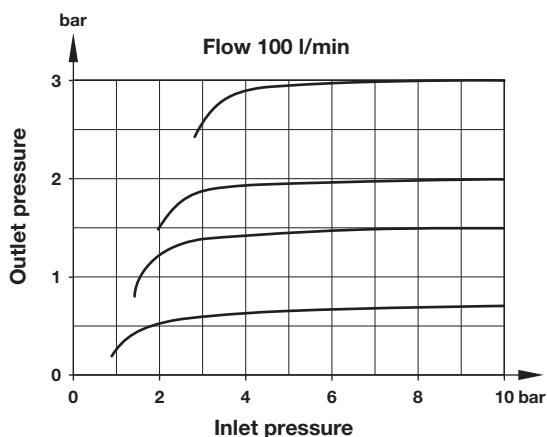
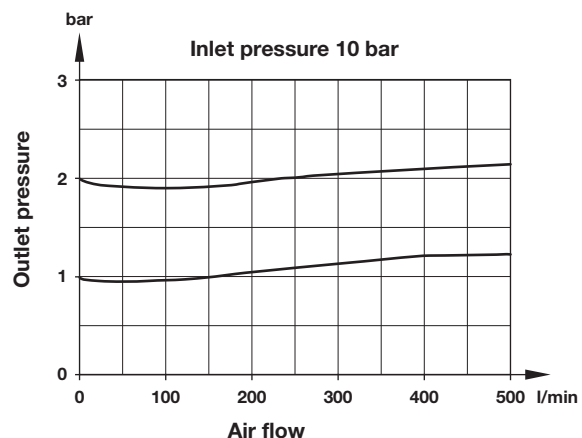
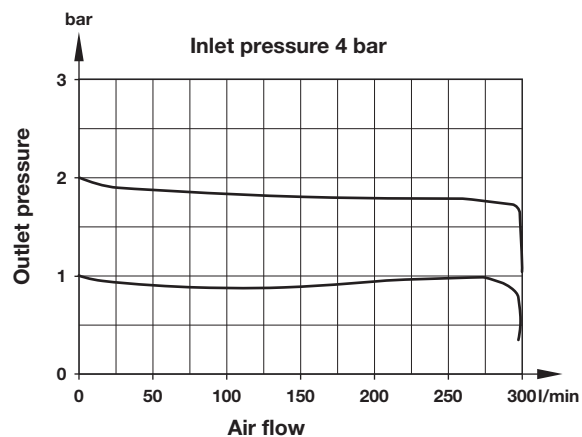
Model: RM1L...



Regulation characteristics



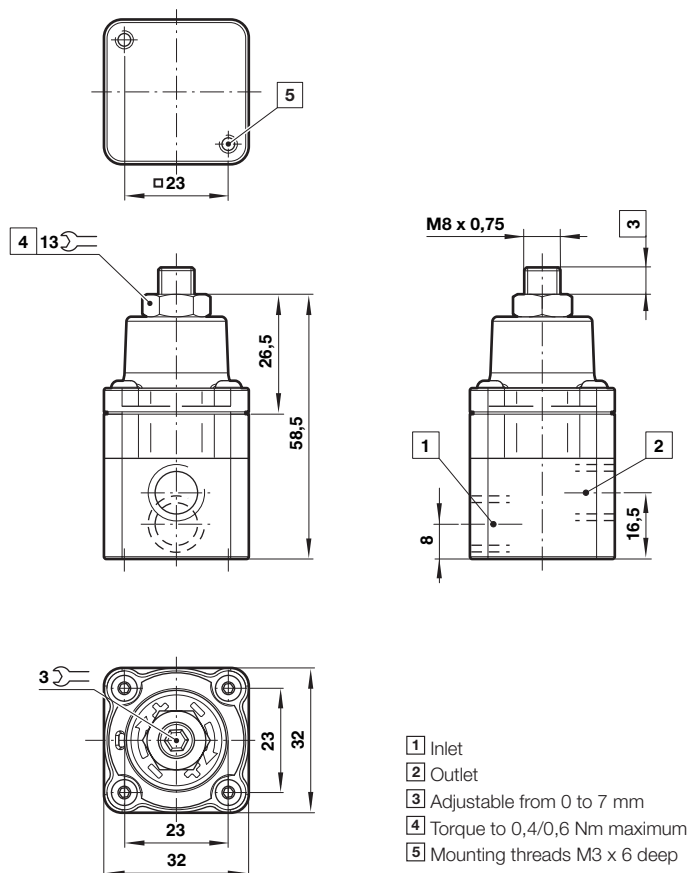
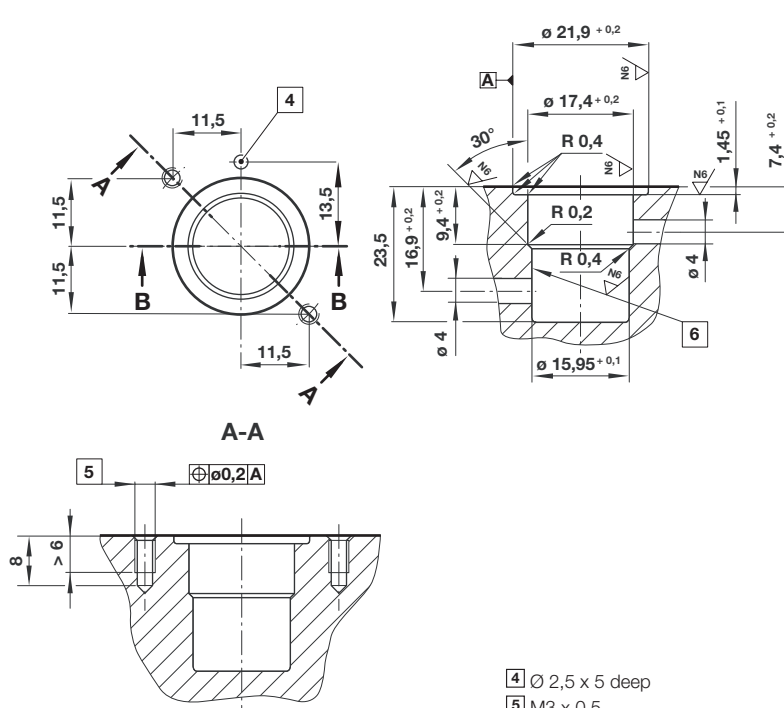
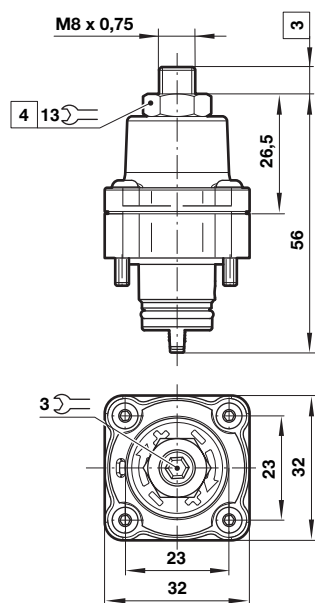
Model: RM1H...



Dimensions
Body version

Dimensions shown in mm

Projection/First angle


Cartidge style version
Installation dimensions
B-B


Warning

These products are intended for use in life sciences & medical applications with compressed gases only. Do not use these products where pressures and temperatures can exceed those listed under »**Technical features**«.

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 NORGREN.

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.

R22 Regulator (stainless steel)



- > **Port size: 1/2 PTF**
- > **Lloyd's register type approved**
- > **Applications include marine environment, oil and gas production, chemical and industrial compressed air systems**
- > **Balanced valve for accurate and rapid response to flow demand and line pressure changes**
- > **Metallic parts meet NACE ***

* National Association of Corrosion Engineers (NACE) MR-01-75 defines requirements for sulphide stress cracking resistant materials used in well-head and other corrosive environments.



Technical features

Medium:

Compressed air only

Operating pressure:

20 bar max (290 psi)

Pressure range:

0,4 ... 10 bar (5,8 ... 145 psi),

0 ... 4 bar (0 ... 58 psi),

2 ... 16 bar (29 ... 232 psi)

Port sizes:

1/2 PTF

1/4 PTF (gauge)

Ambient/Media temperature:

-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, bonnet & adjusting screw: stainless steel

Elastomers: Synthetic rubber

Technical data, standard model, relieving

Symbol	Port size	Pressure range (bar)	Flow * (dm³/s)	Weight (kg)	Model
	1/2 PTF	0,4 ... 10	50	1,52	R22-401-RNMA

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

Option selector

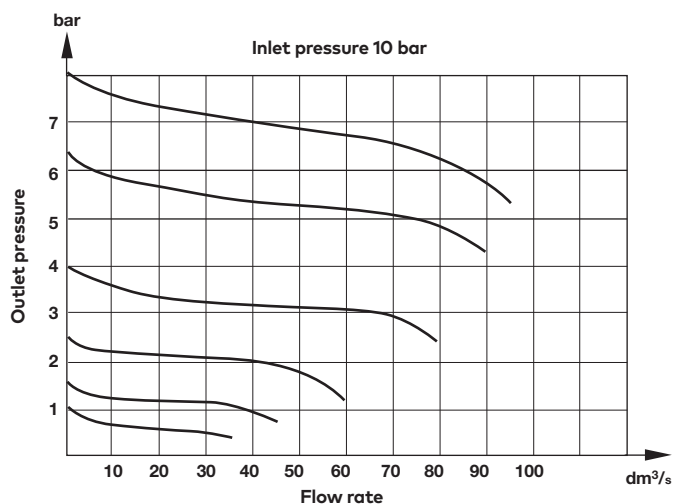
R22-401-★N★A

Diaphragm	Substitute
Relieving	R
Non-relieving	N

Pressure ranges (bar)*	Substitute
0,4 ... 10	M
0 ... 4	F
2 ... 16	S

* 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



Accessories

Wall mounting bracket



18-001-962

Gauge *



18-015-913 (0 ... 6 bar)

18-015-909 (0 ... 10 bar)

Spares kit

Valve assembly and diaphragm



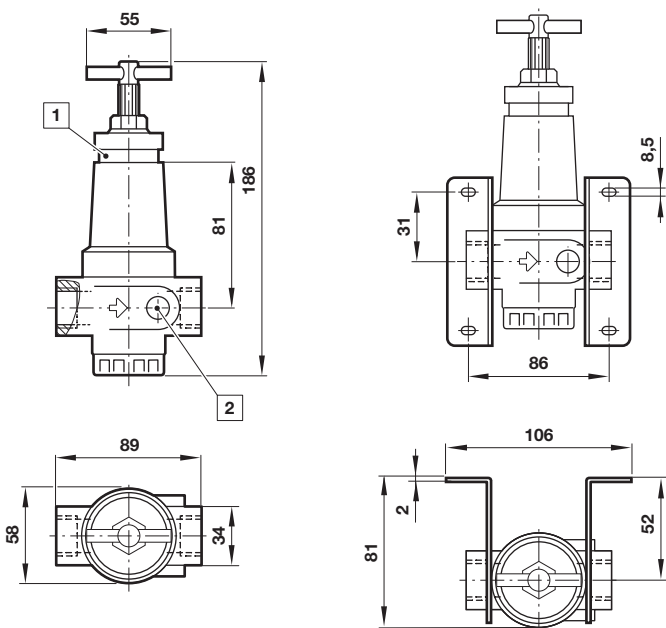
Relieving

R22-100R

* Stainless steel items not strictly to NACE standard MR-01-75.

Dimensions

Wall mounting bracket



1 Panel hole \varnothing 40 mm, thickness 0 ... 10 mm

2 1/4 PTF gauge port

Dimensions in mm
Projection/First angle



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 Norgren.

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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