

AIR LINE EQUIPMENT



In the varied market of air preparation products, Norgren sets itself apart by offering reliable, easy to use modular and inline products which will last for years of service. Our Excelon® and Olympian® Series air prep products are in use in multiple industry sectors such as Life Science, Packaging, and Transportation. Norgren's products offer premium and durable appearance, unprecedented flexibility and ease of use, unmatched machine uptime, and best-in-class performance



AIR LINE EQUIPMENT

Excelon® Modular system filters

Filter/Regulator-Lubricator boxed sets

1/4" to 1/2"
250 psig*
0°F to 150°F*



ALE-3

F72G, F73G, F74G

General purpose filters
1/4" to 3/4"
250 psig*
-30° to 175°F



ALE-4

F92G Excelon PRO

General purpose filter
1/4"
175 psig*
-4° to 125°F



ALE-6

F72C, F73C, F74C, F74H

Oil removal filters
1/4" to 3/4"
250 psig*
-30°F to -
150°F*



ALE-8

F92C Excelon PRO

Oil removal filter
1/4"
116 psig
-4°F to 125°F



ALE-10

F72V, F74V

Oil vapor removal filter
1/4", 1/2", 3/4"
250 psig*
0°F to 150°F*



ALE-12

B72G, B73G, B74G

Filter/regulators
1/4" to 3/4"
250 psig*
-30°F to 175°F



ALE-14

B92G Excelon PR

Filter/regulator
1/4"
175 psig*
-4°F to 125°F



ALE-16

Excelon Modular system pressure regulators

R72G, R73G, R74G

1/4" to 3/4"
300 psig
-30°F to 175°F



ALE-18

R92G Excelon PRO

1/4"
175 psig
-4°F to 140°F



ALE-20

Excelon Modular system oil and micro- fog lubricators

L72M/C, L73M/C, L74M/C

1/4" to 1/2"
250 psig*
-30°F to 175°F*



ALE-22

L92C Excelon PRO

1/4"
175 psig
-4°F to 125°F



ALE-24

* See catalog page

AIR LINE EQUIPMENT

Excelon Modular pressure relief valves

V72G, V74G
1/4" to 3/4"
300 psig
-30°F to 175°F*



ALE-26

Excelon combination units

H72G/C, H73G/C, H74G/C
Filter-Filter
1/4" to 3/4"
150 psig*
-30°F to 150°F*



ALE-28

B72/L72, B73/L73, B74/L74
Filter/Regulator-
Lubricator
1/4" to 3/4"
250 psig*
0°F to 150°F*



ALE-29

C72A, C73A, C74A
Filter-Regulator-
Lubricator
1/4" to 3/4"
250 psig
-30°F to 175°F*



ALE-30

C72C, C73C, C74C
Filter-Lubricator
1/4" to 3/4"
250 psig*
-30°F to 175°F*



ALE-31

Excelon Smooth start, Directional, and Lockout Valves

P72F, P74F, P74F-AD
Smooth Start/exhaust
1/4" to 3/4"
150 psig
0°F to 175°F*



ALE-32

P92E, P72C/E, P74E, P74
Smooth Start valves
1/4" to 1/2"



ALE-34

P92C, P74
1/4" to 1/2"
Directional Control
valves, threaded and
unthreaded ports



ALE-35

T92, T72, T73, T74,
Smooth Start/exhaust
1/4" to 3/4"
250 psig
-30°F to 150°F



ALE-36

* See catalog page

AIR LINE EQUIPMENT

Olympian Plus Modular system filters

F64G, F68E
General purpose filters
1/2", 1"
250 psig*
-30°F to 175°F*



ALE-40

F64C/H, F68C/H
Oil removal filters
1/4" to 1"
240 psig*
-30°F to 125°F*



ALE-42

F64B/L, F68V/Y
Vapor removal filters
1/4" to 3/4"
250 psig*
-30°F to 125°F*



ALE-44

B64G, B68E/G
Filter/regulators
1/2" to 1-1/2"
250 psig*
-30°F to 175°F*



ALE-46

Olympian Plus Modular system regulators

R64G/R, R68G
General purpose
1/2" to 1-1/2"
250 psig*
-30°F to 175°F*



ALE-48

Olympian Plus Modular system lubricators

L64M/C, L68M/C
1/2" to 1-1/2"
250 psig*
-30°F to 175°F*



ALE-50

Olympian Plus Modular pressure relief valves

V64H, V68H
1/2" to 1-1/2"
300 psig*
-30°F to 175°F*



ALE-52

Olympian Plus Modular smooth start/exhaust valves

P64F, P68F
1/2" to 1-1/2"
250 psig
0°F to 175°F*



ALE-54

Olympian Plus Modular lockout valves

T64, T68
1/4" to 3/4"
250 psig
0°F to 175°F



ALE-56

* See catalog page

AIR LINE EQUIPMENT

Miniature Series

Series PTH

Filter/Regulator-lubricator
1/8" - 1/4"
250 psig*
0°F to 150°F*



ALE-58

F07

General purpose filter
1/8", 1/4"
250 psig*
-30°F to 175°F*



ALE-60

F39

Oil removal filter
1/8", 1/4"
250 psig*
-30°F to 150°F*



ALE-61

R07, R46

General purpose regulator
1/8", 1/4"
300 psig*
-30°F to 150°F*



ALE-62

B07, B39

Filter/Regulators
1/8", 1/4"
250 psig*
-30°F to 150°F*



ALE-64

L07

Micro-fog lubricator
1/8", 1/4"
250 psig*
0°F to 175°F*



ALE-66

Ported inline FRL's

F17

General purpose filter
3/4" to 1-1/2"
250 psig
-30°F to 175°F



ALE-68

F18

General purpose filter
1-1/2", 2"
250 psig
-30°F to 175°F



ALE-69

F46

Oil removal filter
3/4", 1", 1-1/4"
250 psig
-30°F to 150°F



ALE-70

F47

Oil removal filter
1-1/2", 2"
250 psig
-30°F to 150°F



ALE-71

R17, R18

General purpose regulator
3/4" to 2"
450 psig
-30°F to 175°F*



ALE-72

* See catalog page

AIR LINE EQUIPMENT

Pressure, Micro-Trol, and Instrument Regulators

11-002 & 20AG

Pressure regulator
1/4", 3/8", 1/2"
G3/4, G1
400 psig
-30°F to 175°F



ALE-74

R24

Micro-Trol
pressure regulator
1/4" to 1-1/4"
300 psig
0°F to 150°F



ALE-76

11-018

Precision regulator
1/4"
200 psig*
32°F to 160°F



ALE-78

R38 Instrument, and B38 filter/regulator

1/4"
290 psig
-40°F to 175°F



ALE-80

Pilot and Feedback Regulators

R40, R41

Pilot, and Feedback
1/4"
450 psig
0°F to 175°F



ALE-82

11-400, 20AL

Pilot Feedback
1/4"
360 psig
0°F to 175°F



ALE-84

11-104

Feedback pilot
1/4"
400 psig
0°F to 175°F



ALE-86

11-042, 11-008

Pilot operated regulator
1/4" to 1-1/4"
400 psig
0°F to 175°F



ALE-88

R18, R24

Pilot operated regulator
1/4" to 2"
450 psig
0°F to 175°F



ALE-90

Manifolding Regulators

R72M, R74M

1/4" - 3/4"
290 psig
-30°F to 150°F



ALE-92

R30M

8 mm, 10 mm
150 psig
23°F to 104°F



ALE-94

* See catalog page

AIR LINE EQUIPMENT

Stainless Steel products

R05, B05

Regulator, and filter/regulator
1/4"
300 psig
-30°F to 150°F



ALE-96

R38, B38

Regulator, and filter/regulator
1/4", 1/2"
450°F
-40°F to 175°F



ALE-98

F22, R22, L22

Filter, Regulator, Lubricator
1/2"
250 psig
0°F to 175°F



ALE-100

Water or Air Regulators

R06

Brass miniature
1/8", 1/4"
400 psig
-30°F to 150°F*



ALE-102

R14, R16

Miniature, preset, nonadjustable
1/8", 1/4"
400 psig
-30°F to 150°F



ALE-104

11 044

Pressure regulator
1/4" tube connecton
250 psig
-30°F to 150°F*



ALE-106

R91

Pressure regulator
1/4"
150 psig
0°F to 125°F*



ALE-108

R91

Water regulator
1/4" to 1"
400 psig
-30°F to 200°F*



ALE-110

Inline Micro-Fog and Oil Fog lubricators

L17

3/4" to 1-1/2"
250 psig
0°F to 175°F



ALE-112

10-028, 10-076

Oil-fog
1-1/2", 2"
250 psig
0°F to 175°F



ALE-114

* See catalog page

AIR LINE EQUIPMENT

Pressure relief valves

V07, 16-004, V06
1/8", 1/4"
300 psig
-30°F to 200°F*



ALE-116

Inline Lockout Valves

C00
1/4" to 1-1/2"
300 psig
-20° to 175°F



ALE-118

UL Listed Regulators

R44, R83
1/8", 1/4"
250 psig
-30°F to 140°F



ALE-120

R81, R82, R84
Soft drink, beer
dispensing
1/4"
3000 psig
0°F to 140°F



ALE-122

Additional Products

CS13, CS15
Coalescing exhaust
slencers
1/4" - 1-1/2"



ALE-124

17-001
High pressure needle valves
1/8", 1/4"



ALE-124

17-016
Drip leg drain
1/2"



ALE-124

18-013, 5PG
Gauges



ALE-125

BS Series
Blow guns
1/8", 1/4"



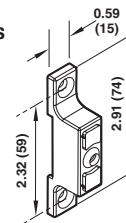
ALE-125

Dryers



ALE-126

Air Prep Accessories



ALE-129

* See catalog page

DEMAND MORE FLEXIBILITY WITH NORGREN'S

Excelon **Pro** Design Advantage

» Design flexibility

Excelon **Pro's** ease of assembly allows last minute changes in product configuration.

» Aesthetic appearance

Excelon **Pro** units have a contemporary, modern appearance designed to enhance any product or application.

» Small Footprint

The compact unit size coupled with integrated fitting connections make the Excelon **Pro** the most compact unit in its class.

» Ease of Installation

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

» Integrated fittings

Integrated fittings reduce installation time, minimize leak paths, and reduce overall footprint dimensions. Offered in 1/4", 3/8", 1/2", 6 mm, 8 mm, 10 mm and 12 mm sizes.

» Flow performance

Patent pending valve provides breakthrough flow capacity. Maximum flow for such a compact product.



Excelon® Filter/Regulator-Lubricator Boxed Sets

B72/L72, B73/L73, B74/L74

Boxed sets are an excellent and attractive marketing tool for counter displays.

True modularity with Norgren Quikclamp® connections

Quick release bayonet bowl

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

All around (360°) visibility of the lubricator sight-feed dome simplifies installation and adjustment

Regulator balanced valve minimizes effect of variation in the inlet pressure on the outlet pressure

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

Transparent bowl: 150 psig (10 bar)

Metal bowl (manual or semi automatic drain): 250 psig (17 bar)

(72) 150 psig (10 bar)

Operating temperature*:

Transparent bowl:

0° to 125°F (-20° to 50°C)

Metal bowl:

0° to 150°F (-20° to 65°C)

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

Particle removal:

40 µm filter element

Materials

Body: zinc or aluminum

Bonnet: acetal or aluminum

Bowl:

Metal bowl: (72) polycarbonate

(73, 74) aluminum

Metal bowl liquid level indicator lens:

transparent nylon

Sight-feed dome: transparent nylon

Element: sintered polypropylene

Elastomers: neoprene, nitrile



Boxed sets



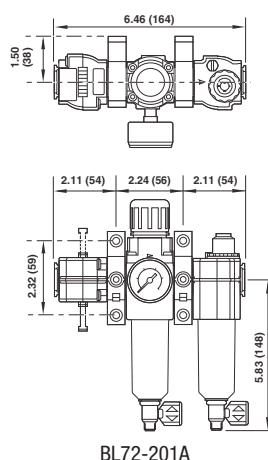
BL72-201A

Ordering information

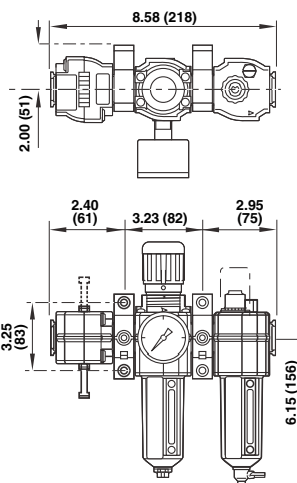
Models include PTF threads. Filter/Regulator (F/R) has knob adjustment, automatic drain, metal bowl with level indicator, 40 µm element, relieving diaphragm, and 150 psig (10 bar) regulating spring, and gauge. Lubricator (L) is a Micro-Fog model with 1/4 turn manual drain and metal bowl with level indicator. Shut off valve is included.

Boxed Set Combination Units (ship within 24 hours)

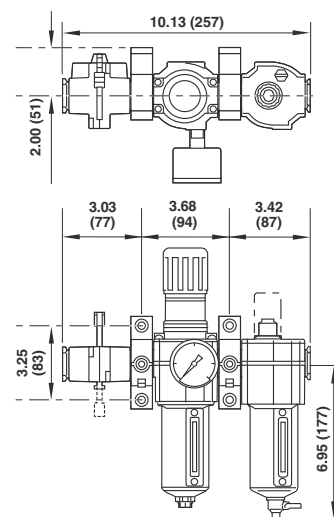
Boxed Set	Port size	Model
Filter/Regulator-Lubricator-Lockout valve-gauge-brackets	1/4"	BL72-201A
Filter/Regulator-Lubricator-Lockout valve-gauge-brackets	3/8"	BL73-301A
Filter/Regulator-Lubricator-Lockout valve-gauge-brackets	1/2"	BL74-401A



BL72-201A



BL73-301A



BL74-401A

Dimensions in inches (mm).

Other combinations are available.
Please consult Norgren for more information.

Excelon® Modular System

F72G, F73G, F74G General Purpose Filters

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

Quick release bayonet bowl

Highly visible prismatic liquid level indicator lens on metal bowls

Technical data

Fluid: Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

F72G w/metal bowl and automatic drain: 150 psig (10 bar)

Operating temperature*:

Transparent bowl: -30° to 125°F (-34° to 50°C)

Metal bowl:

(72) -30° to 150°F (-34° to 66°C)

(73, 74) -30° to 175°F (-34° to 80°C)

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

Materials

F72G

Body: zinc

Transparent bowl: polycarbonate

Metal bowl: zinc

Metal bowl liquid level indicator lens: transparent nylon

Element: sintered polypropylene

Elastomers: neoprene and nitrile

F73G & F74G:

Body: aluminum

Transparent bowl: polycarbonate

Transparent with guard: polycarbonate, aluminum guard

Metal bowl: aluminum

Metal bowl liquid level indicator lens: transparent nylon

Element: sintered polypropylene

Elastomers: Neoprene and nitrile



F72G



F73G



F74G

Ordering information

Models listed include PTF threads, automatic drain, metal bowl with liquid level indicator, and a 40 µm element.

Port Size	Model	Flow† scfm (dm³/s)	Weight lb (kg)
1/4"	F72G 2AN AE3	55 (26)	1.15 (0.52)
3/8"	F73G 3AN AD3	65 (31)	1.1 (0.50)
1/2"	F74G 4AN AD3	140 (66)	1.79 (0.81)
3/4"	F74G 6AN AD3	140 (66)	1.75 (0.79)

† Typical flow with a 40µm element at 90 psig (6.3 bar) inlet pressure and 5 psig (0.35 bar) pressure drop.

Options selector

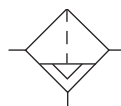
		F7★G★ ★ ★ ★ ★ ★ ★ ★					
Series	Substitute	★	★	Element	Substitute		
72	2			5 μm	1		
73	3			40 μm	3		
74	4			★	Bowl		
Port size	Substitute	★	★				
1/4 (72, 73)	2						
3/8 (72, 73, 74)	3						
1/2 (73, 74)	4						
3/4 (74)	6						
Threads	Substitute	★	★	★	Drain		
PTF	A						
ISO G parallel	G						
Service life indicator	Substitute						
Mechanical indicator	D						
Electrical indicator	E						
Without	N						

Element	Substitute
5 μm	1
40 μm	3
Bowl	Substitute
Metal w/ liquid level indicator (72*, 73, 74)	D
Long metal w/ liquid level indicator (72*)	E
Long transparent (72*)	L
Transparent with guard (73, 74)	P
Transparent bowl (72*, 73)	T
Drain	Substitute
1/4 turn manual	Q
Auto drain*	A

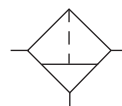
* 72 Series auto drain is available only with long bowl option.

* 72 Series auto drain is available only with long bowl option.

ISO Symbols



Auto Drain



Manual Drain

Excelon® Modular System

F72G, F73G, F74G General Purpose Filters

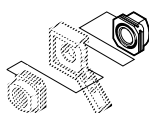
Dimensions in inches

Accessories

Wall mounting bracket*



Quikmount pipe adapters (quantity of 1) (NPT)



Quikclamp†



Quikclamp® and wall bracket



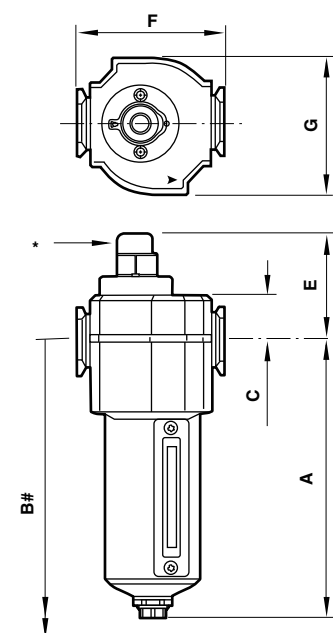
Service kit Seal and gasket

Replacement elements

F72G	4224-50	4215-02 (1/4) 4215-03 (3/8)	4214-51	4214-52	4380-500	5925-03 (5µm) 5925-02 (40µm)
F73G	4424-50	4315-01 (1/4) 4315-02 (3/8) 4315-03 (1/2) 4315-04 (3/4)	4314-51	4314-52	4380-600	4438-01 (5µm) 4438-03 (40µm)
F74G	4324-50	4315-02 (3/8) 4315-03 (1/2) 4315-04 (3/4)	4314-51	4314-52	4380-700	4338-04 (5µm) 4338-05 (40µm)

* Bracket kit does not include wall mounting screws.

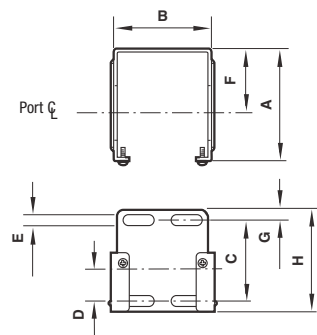
† Quikclamp is patented (US patent 5372392) and foreign patents.



* Optional service indicator

Minimum clearance required to remove bowl

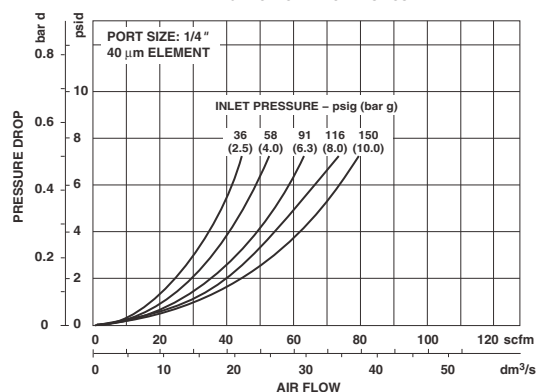
Mounting bracket



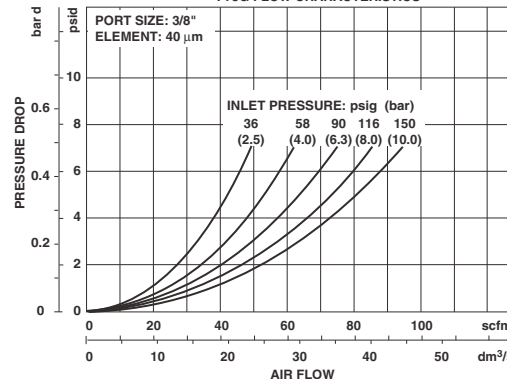
Series	Drain type	A	B	C	E	F	G
72	Auto	5.51	7.52	0.75	2.09	1.97	1.89
	Manual	5.83	7.83	0.75	2.09	1.97	1.89
73	Auto	5.80	8.15	0.98	2.36	2.68	2.44
	Manual	6.15	8.50	0.98	2.36	2.68	2.44
74	Auto	6.35	9.06	0.98	2.36	3.15	2.91
	Manual	6.95	9.69	0.98	2.36	3.15	2.91

Series	A	B	C	D	E	F	G	H
72	2.36	1.65	1.54	0.73	0.16	1.50	0.24	2.01
73	2.64	2.36	1.89	0.75	0.28	1.50	0.24	2.40
74	3.11	2.72	1.97	0.79	0.20	2.01	0.24	2.40

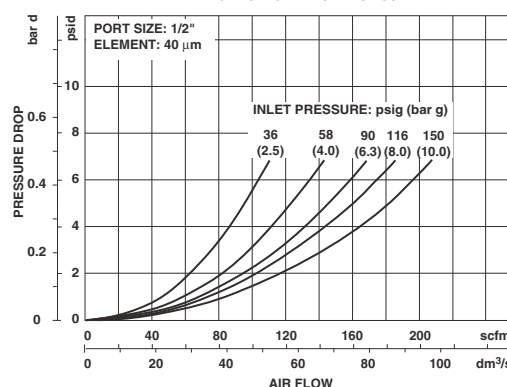
F72G FLOW CHARACTERISTICS



F73G FLOW CHARACTERISTICS



F74G FLOW CHARACTERISTICS



Excelon® Pro F92G

General Purpose Filter

Easy to order
Configuration flexibility
Excellent value
No tools required for assembly
RoHs compliant

Technical data

Fluid: Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure

Manual drain: 175 psig (12 bar)

Automatic drain: 150 psig (10 bar)

Operating temperature*

-4° to 125°F (-20° to 52°C)

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

Materials

Body: PBT

Transparent bowl: Polycarbonate

Element: Sintered polypropylene

Elastomers:

Bowl O-ring - Neoprene

All others - nitrile

Automatic drain operating conditions (float operated):

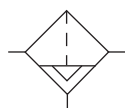
Bowl pressure required to close drain: > than 5 psig (0.35 bar)

Bowl pressure required to open drain: < than 3 psig (0.2 bar)

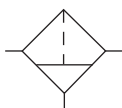
Minimum air flow required to close drain: 0.2 scfm (0.1 dm³/s)

Manual operation: Depress pin inside drain outlet to drain bowl

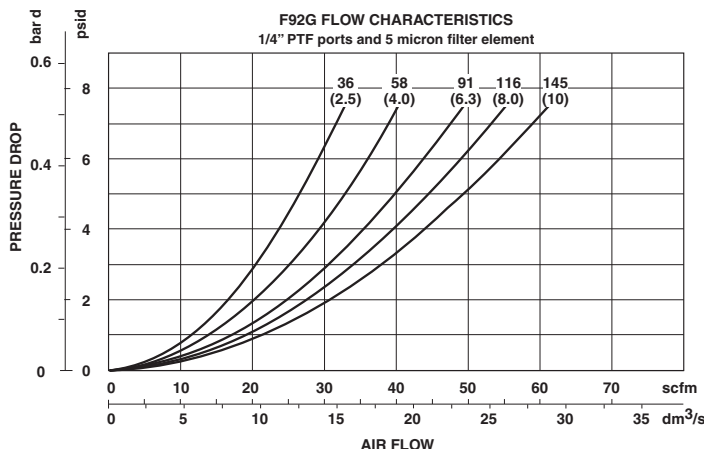
ISO Symbols



Auto Drain



Manual Drain



Order Information

Model listed below includes 5µm element, and manual drain.

Port size	Part Number	Drain	Flow* scfm (dm³/s)	Weight lb (kg)
1/4" PTF	F92G2ANQT1	Manual	40 (19)	0.40 (0.18)

*Typical flow at 90 psig (6.3 bar) inlet pressure, and 5 psig (0.35 bar) pressure drop.

F92G ★ ★ N ★ T1

Substitute	Description	Substitute	Description
NN	no connection	A	Automatic drain
1A	1/8" PTF	Q	Manual drain
2A	1/4" PTF		
3A	3/8" PTF		
1B	1/8" ISO Rc		
2B	1/4" ISO Rc		
3B	3/8" ISO Rc		
1G	1/8" ISO G		
2G	1/4" ISO G		
3G	3/8" ISO G		
6D	6mm PIF		
8D	8mm (5/16") PIF		
AD	10mm PIF		
BD	12mm PIF		
4E	1/4" PIF		
6E	3/8" PIF		
8E	1/2" PIF		
2R*	1/4" PTF		
2T*	1/4" ISO Rc		
2V*	1/4" ISO G		

* Does not include mounting bracket.

Excelon® Pro Modular System

F92G, General Purpose Filters

All Dimensions in Inches (mm)

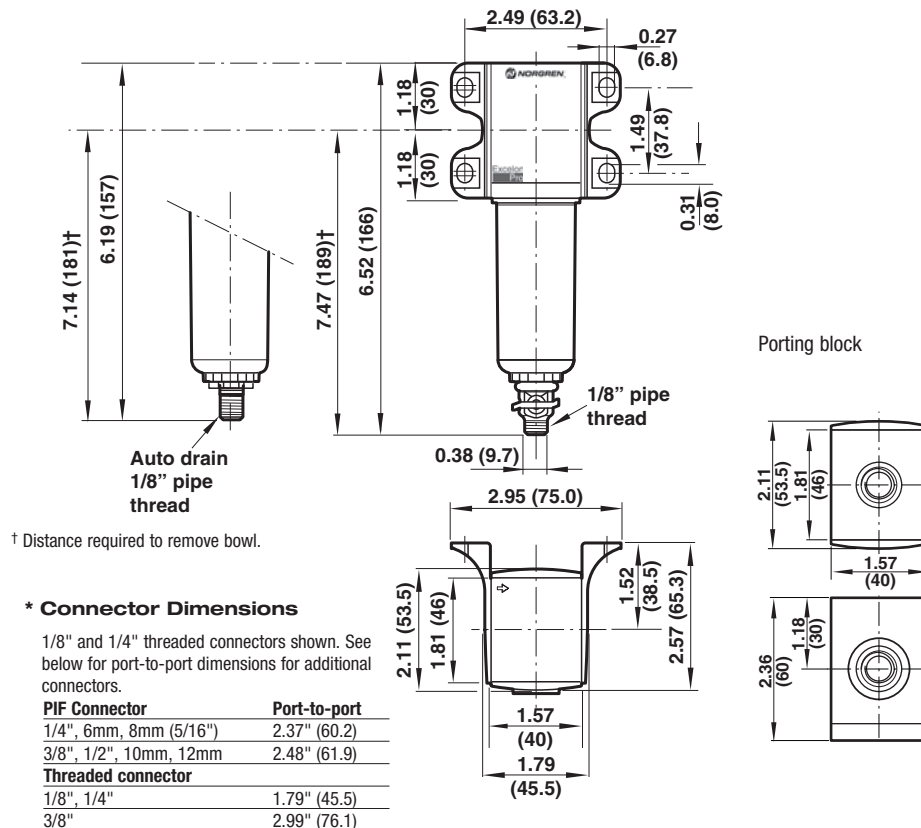
Accessories and Kits

Threaded connector w/mounting bracket*		Push-In-Fitting connector w/mounting bracket*		Threaded connector w/o mounting brackets		Porting block		Quikconnect (quantity of 1)
								
Connection	P/N	Connection	P/N	Connection	P/N	Connection	P/N	P/N
1/8" PTF	9212KIT-1A	6mm PIF	9213KIT-6D	1/4" PTF	9211KIT-2R	1/4" PTF	9216-50	9210-50
1/4" PTF	9212KIT-2A	8mm (5/16") PIF	9213KIT-8D	1/4" ISO Rc	9211KIT-2T	1/4" ISO G	9216-51	
3/8" PTF	9212KIT-3A	10mm PIF	9213KIT-AD	1/4" ISO G	9211KIT-2V	1/4" ISO Rc	9216-52	
1/8" ISO Rc	9212KIT-1B	12mm PIF	9213KIT-BD					
1/4" ISO Rc	9212KIT-2B	1/4" PIF	9213KIT-4E					
3/8" ISO Rc	9212KIT-3B	3/8" PIF	9213KIT-6E					
1/8" ISO G	9212KIT-1G	1/2" PIF	9213KIT-8E					
1/4" ISO G	9212KIT-2G							
3/8" ISO G	9212KIT-3G							

* Use 1/4" (6 mm) screws and appropriate washers when attaching brackets to a surface.

Service kit		Locking plate kits**	
P/N F92G-KIT Includes: bowl O-ring, filter element, louver			
Auto Drain Assembly kit P/N 4000-50		P/N 9236-88/X10 (qty 10) (fits filter, lubricator, lockout valves, and back of all units)	P/N 9236-89/X10 (qty 10) (fits regulator, filter/regulator, porting block)

** Locking plates **MUST** be in place before pressurizing any Excelon Pro unit.



Excelon® Modular System

F72C, F73C, F74C, F74H Oil Removal (Coalescing) Filters

Excelon® design allows in-line or modular installation

High efficiency oil and particle removal

Quick release bayonet bowl

Standard visual service life indicator turns from green to red when the filter element needs to be replaced

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

(72) metal bowl w/autodrain: 116 psig (8 bar)

Operating temperature*:

Transparent bowl:

-30° to 125°F (-34° to 50°C)

Metal bowl:

-30° to 150°F (-34° to 65°C)

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

Oil removal: 0.01 µm at 70°F (21°C)

Remaining oil content: 0.01 mg/m³ at 70°F (21°C)

Materials

F72C

Body: zinc

Bowl transparent: polycarbonate

Metal: zinc

Metal bowl liquid level indicator lens:

Transparent nylon

Element: synthetic fiber and polyurethane foam

Elastomers: neoprene and nitrile

Service life indicator materials-Body: transparent nylon.

Internal parts: acetal.

Spring: stainless steel.

Elastomers: nitrile

F73C and F74C

Body: aluminum

Transparent bowl: polycarbonate

Transparent with guard: polycarbonate,

Guard: aluminum

Metal bowl: aluminum

Metal bowl liquid level indicator lens:

Transparent nylon

Element: synthetic fiber and polyurethane foam

Elastomers: neoprene and nitrile

Mechanical service indicator materials

Body: transparent nylon

Internal parts: Acetal

Spring: Stainless steel

Elastomers: Nitrile



F72C

F73C

F74C

Ordering Information

Models listed include PTF threads, service indicator, automatic drain, and a metal bowl with liquid level indicator.

Port Size	Model Number	Maximum Flow* scfm (dm³/s)	Weight lb (kg)
1/4"	F72C 2AD AE0	9.5 (4.5)	1.2 (0.54)
3/8"	F73C 3AD AD0	21.2 (10.0)	1.2 (0.54)
1/2"	F74C 4AD AD0(std)	33.9 (16.0)	1.84 (0.83)
1/2"	F74H 4AD AD0 (hi)	59.3 (28.0)	2.45 (1.11)
3/4"	F74H 6AD AD0 (hi)	59.3 (28.0)	2.40 (1.10)

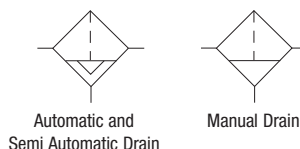
* Maximum flow with 90 psig (6.3 bar) inlet pressure to maintain stated oil removal performance.

Options selector

Series		Substitute		Bowl		Substitute	
72		2C		Metal w/ liquid level indicator (72, 73, 74)		D	
73		3C		Long metal w/ liquid level indicator (72)		E	
74		4C		Long transparent (72)		L	
74 (High flow)		4H		Transparent with guard (73, 74)		P	
				Transparent bowl (72, 73)		T	
Port size		Substitute		Drain		Substitute	
1/4 (72 & 73)		2		1/4 turn manual		Q	
3/8 (72, 73, 74)		3		Auto drain*		A	
1/2 (73 & 74)		4					
3/4 (74)		6					
Threads		Substitute		Service life indicator		Substitute	
PTF		A		With (visual)		D	
ISO G parallel		G		With (electrical)		E	
				Without		N	

NOTE: Coalescing filters should be used in conjunction with a 5µm general purpose filter upstream to maximize filter element life and optimize performance.

ISO Symbols



Automatic and Semi Automatic Drain

Manual Drain

Excelon® Modular System

F72C, F73C, F74C, F74H Oil Removal (Coalescing) Filters

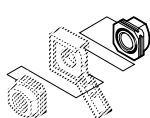
Accessories

Dimensions in inches.

Wall mounting bracket*



Quikmount pipe adapters (quantity of 1) (NPT)



Quikclamp®†



Quikclamp® and wall bracket



Visual service indicator



Electrical service life indicator



Service kit Seal and gasket

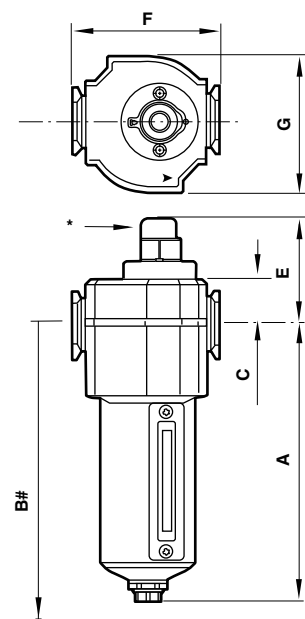
Replacement elements

F72C	4224-50	4215-02 (1/4)	4214-51	4214-52			4380-500	5925-09
F73C	4424-50	4315-01 (1/4)	4314-51	4314-52	5797-50	4020-51R	4380-602	4444-01
		4315-02 (3/8)						
		4315-03 (1/2)						
		4315-04 (3/4)						
F74C, F74H	4324-50	4315-02 (3/8)	4314-51	4314-52	5797-50	4020-51R	4380-730	4344-01 (F74C)
		4315-03 (1/2)						4344-02 (F74H)
		4315-04 (3/4)						

* Bracket kit does not include wall mounting screws.

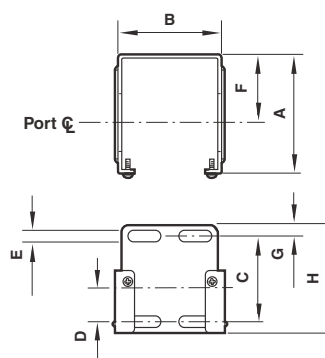
† Quikclamp is patented (US patent 5372392) and foreign patents.

Mounting bracket



* Standard service indicator

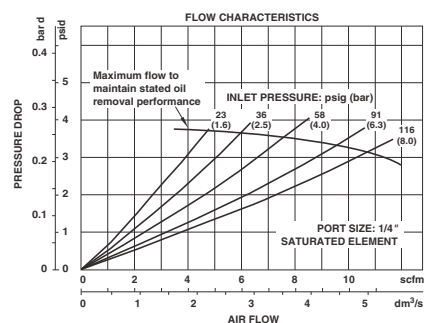
Minimum clearance required to remove bowl



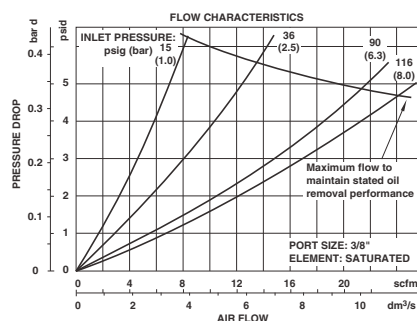
Series	A	B	C	D	E	F	G	H
72	2.36	1.65	1.54	0.73	0.16	1.50	0.24	2.01
73	2.64	2.36	1.89	0.75	0.28	1.50	0.24	2.40
74	3.11	2.72	1.97	0.79	0.20	2.01	0.24	2.40

Series	Drain type	A	B	C	E	F	G
F72C	Auto	5.51	7.52	0.75	2.09	1.97	1.89
	Manual	5.83	7.83	0.75	2.09	1.97	1.89
F73C	Auto	5.80	8.15	0.98	2.36	2.68	2.44
	Manual	6.15	8.50	0.98	2.36	2.68	2.44
F74C	Auto	6.35	9.17	0.98	2.36	3.15	2.91
	Manual	6.95	9.80	0.98	2.36	3.15	2.91
F74H	Auto	8.44	11.18	0.98	2.36	3.15	2.91
	Manual	9.04	11.81	0.98	2.36	3.15	2.91

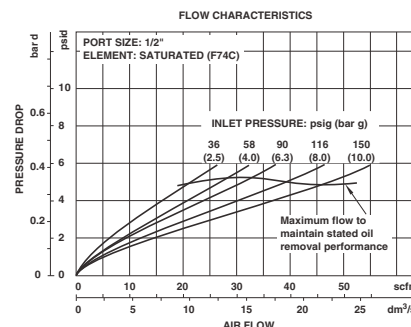
F72



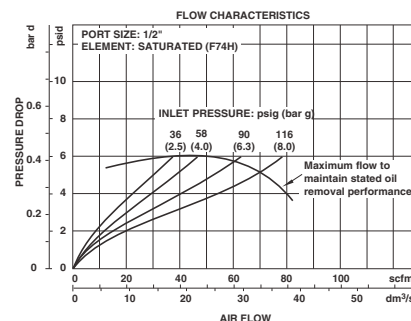
F73



F74C



F74H



Excelon® Pro F92C

Oil Removal (Coalescing) Filter

Easy to order
Configuration flexibility
Excellent value
No tools required for assembly
RoHs compliant

Technical data

Fluid: Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure

Automatic drain: 116 psig (8 bar)

Operating temperature*

-4° to 125°F (-20° to 52°C)

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

Materials

Body: PBT

Transparent bowl: Polycarbonate

Element: Synthetic fiber and polyurethane foam

Elastomers: Bowl O-ring, and service life indicator

O-ring - Neoprene. All others - nitrile

Service Indicator

Body: Polycarbonate

Internal parts: Acetal

Spring: Music wire ASTM 228

Elastomer: Neoprene

Automatic drain operating conditions (float operated):

Bowl pressure required to close drain: > than 5 psig (0.35 bar)

Bowl pressure required to open drain: < than 3 psig (0.2 bar)

Minimum air flow required to close drain: 0.2 scfm (0.1 dm³/s)

Manual operation: Depress pin inside drain outlet to drain bowl



Order Information

Model listed below includes 0.01µm element, automatic drain, service life indicator

Port size	Part Number	Flow* scfm (dm³/s)	Weight lbs (kg)
1/4" PTF	F92C2ADAT0	9.7 (4.6)	.44 (.20)

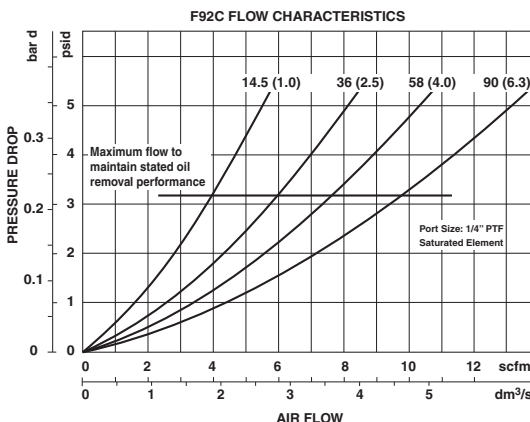
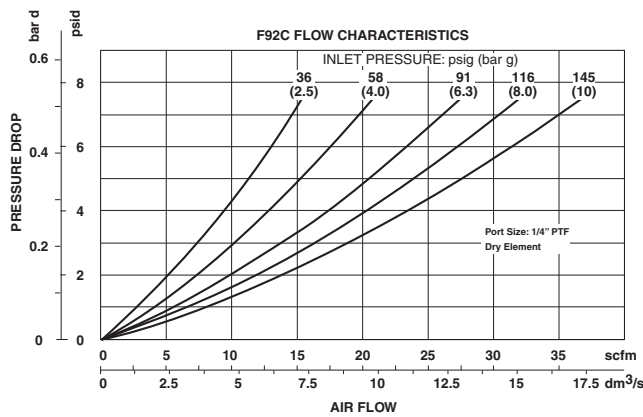
* Maximum flow with 90 psig (6.3 bar) inlet pressure to maintain stated oil removal performance (saturated element).

F92C★★DAT0

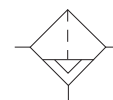
Substitute	Description
NN	no connection
1A	1/8" PTF
2A	1/4" PTF
3A	3/8" PTF
1B	1/8" ISO Rc
2B	1/4" ISO Rc
3B	3/8" ISO Rc
1G	1/8" ISO G
2G	1/4" ISO G
3G	3/8" ISO G
6D	6mm PIF
8D	8mm (5/16") PIF
AD	10mm PIF
BD	12mm PIF
4E	1/4" PIF
6E	3/8" PIF
8E	1/2" PIF
2R*	1/4" PTF
2T*	1/4" ISO Rc
2V*	1/4" ISO G

* Does not include mounting bracket.

NOTE: Coalescing filters should be used in conjunction with a 5µm general purpose filter upstream to maximize filter element life and optimize performance.



ISO Symbols



Automatic Drain

All Dimensions in Inches (mm)

Excelon® Pro Modular System

F92C , Coalescing Filters

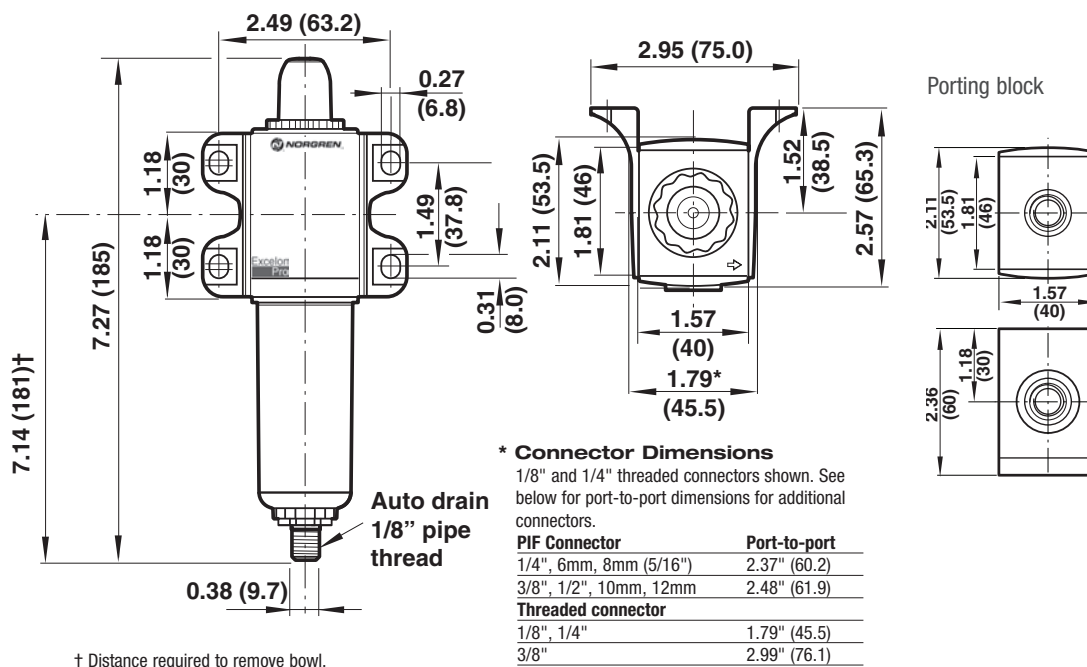
Accessories and Kits

Threaded connector w/mounting bracket*		Push-In-Fitting connector w/mounting bracket*		Threaded connector w/o mounting brackets		Porting block		Quikconnect (quantity of 1)
								
Connection	P/N	Connection	P/N	Connection	P/N	Connection	P/N	P/N
1/8" PTF	9212KIT-1A	6mm PIF	9213KIT-6D	1/4" PTF	9211KIT-2R	1/4" PTF	9216-50	9210-50
1/4" PTF	9212KIT-2A	8mm (5/16") PIF	9213KIT-8D	1/4" ISO Rc	9211KIT-2T	1/4" ISO G	9216-51	
3/8" PTF	9212KIT-3A	10mm PIF	9213KIT-AD	1/4" ISO G	9211KIT-2V	1/4" ISO Rc	9216-52	
1/8" ISO Rc	9212KIT-1B	12mm PIF	9213KIT-BD					
1/4" ISO Rc	9212KIT-2B	1/4" PIF	9213KIT-4E					
3/8" ISO Rc	9212KIT-3B	3/8" PIF	9213KIT-6E					
1/8" ISO G	9212KIT-1G	1/2" PIF	9213KIT-8E					
1/4" ISO G	9212KIT-2G							
3/8" ISO G	9212KIT-3G							

* Use 1/4" (6 mm) screws and appropriate washers when attaching brackets to a surface.

Service kit P/N F92C-KIT Includes: bowl O-ring, service indicator seal, filter element, screws	Locking plate kits**	
	Auto drain assembly 4000-50	
		
	P/N 9236-88/X10 (qty 10) (fits filter, lubricator, lockout valves, and back of all units)	P/N 9236-89/X10 (qty 10) (fits regulator, filter/regulator, porting block)

Locking plates **MUST be in place before pressurizing any Excelon Pro unit.



Excelon® Modular System

F72V, and F74V Oil Vapor Removal (adsorbing) Filters

Element color band changes to blue indicating need for replacement.

Excelon® design allows in-line or modular installation

Adsorbing type activated carbon element removes oil vapors and most hydrocarbon odors

Quick release bayonet bowl

Modular installations with Excelon® 72, 73, and 74 series can be made to suit particular applications

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

Operating temperature*:

Transparent bowl:

0° to 125°F (-20° to 50°C)

Metal bowl:

0° to 150°F (-20° to 65°C)

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

Air quality:

Within ISO 8573-1, Class 1 (oil content) when installed downstream of an oil removal filter.

Maximum remaining oil content in outlet air:

0.003 ppm at 70°F (20°C)

Materials

F72V

Body: zinc

Transparent bowl: polycarbonate

Guard for transparent bowl: zinc

Metal bowl: zinc

Element: Activated carbon and polycarbonate

Elastomers: nitrile

F74V

Body: aluminum

Transparent Bowl: polycarbonate with steel bowl guard

Metal bowl: aluminum

Element: activated carbon and aluminum

Elastomers: neoprene and nitrile



F72V



F74V

Ordering Information

Models listed include PTF threads.

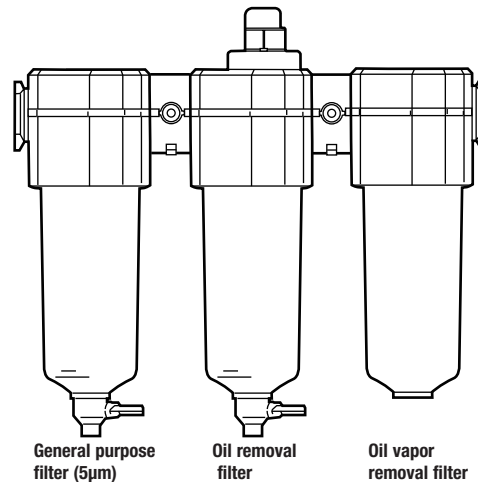
Port Size	Model	Flow* scfm (dm3/s)	Weight lb (kg)
1/4"	F72V 2AN ELC	3.4 (1.6)	0.88 (0.40)
1/2"	F74V 4AN EMA	21 (10)	2.51 (1.14)
3/4"	F74V 6AN EMA	21 (10)	2.46 (1.12)

* Maximum flow with 90 psig (6.3 bar) inlet pressure to maintain stated oil removal performance.

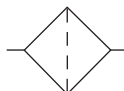
Options selector

F7★V ★★N E★★			
Series	Substitute	Element	Substitute
72	2	Activated carbon (74)	A
74	4	Activated carbon (72)	C
Port size	Substitute	Bowl	Substitute
1/4 (72)	2	Metal (72)	C
3/8 (72, 74)	3	Long transparent (72)	L
1/2 (74)	4	Metal (74)	M
3/4 (74)	6	Transparent with guard (74)	P
Threads	Substitute		
PTF	A		
ISO G parallel	G		

Oil vapor removal filters must be protected upstream by an oil removal filter and general purpose filter.



ISO Symbol



Auto Drain

Excelon® Modular System

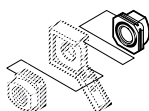
F72V and F74V Oil Vapor Removal (adsorbing) Filters

Accessories

Wall mounting bracket*



Quikmount pipe adapters (quantity of 1) (NPT)



Quikclamp®



Quikclamp® and wall bracket



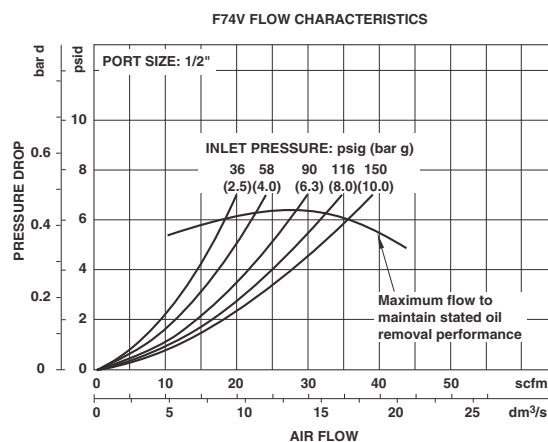
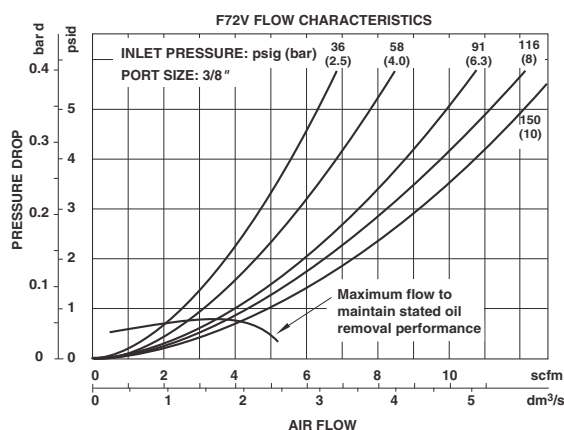
Service kit seal and gasket

Replacement elements

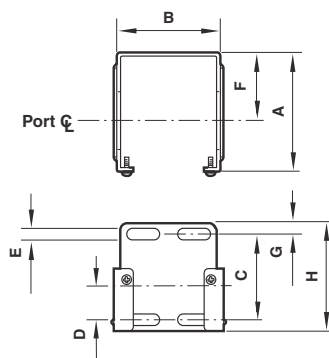
F72V	4224-50	4215-02 (1/4) 4215-03 (3/8)	4214-51	4214-52	4380-500	4241-01
F74V	4324-50	4315-02 (3/8) 4315-03 (1/2) 4315-04 (3/4)	4314-51	4314-52	4380-750	4341-01

* Bracket kit does not include wall mounting screws.

Typical Performance Characteristics



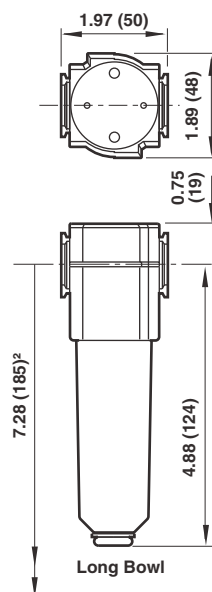
Mounting bracket



Series	A	B	C	D	E	F	G	H
72	2.36	1.65	1.54	0.73	0.16	1.50	0.24	2.01
74	3.11	2.72	1.97	0.79	0.20	2.01	0.24	2.40

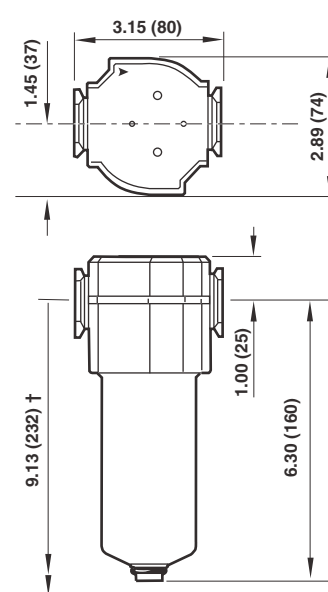
All Dimensions in Inches (mm)

F72V



† Minimum clearance required to remove bowl.

F74V



† Minimum clearance required to remove bowl.

Excelon® modular system

B72G, B73G, B74G Filter/Regulators

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

High efficiency water and particle removal

Quick release bayonet bowl

Push to lock adjusting knob with tamper resistant accessory

Optional patented quarter turn manual drain

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

B72G metal bowl w/ auto drain:

150 psig (10 bar)

Operating temperature*:

Transparent bowl:

-30° to 125°F (-34° to 50°C)

Metal bowl:

(72) -30° to 150°F (-34° to 66°C)

(73, 74) -30° to 175°F (-34° to 80°C)

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

Materials

B72G

Body: zinc

Bonnet: acetal (Zinc on 250 psi model)

Valve: brass

Transparent bowl: polycarbonate

Metal bowl: zinc

Liquid level indicator lens (metal bowl):

transparent nylon

Element: sintered polypropylene

Elastomers: neoprene & nitrile

B73G & B74G:

Body & bonnet: aluminum

Transparent bowl: polycarbonate

Guarded transparent bowl:

polycarbonate with steel

Metal bowl: aluminum

Liquid level indicator lens (metal bowl):

transparent nylon (Pyrex optional)

Element: sintered polypropylene

Elastomers: neoprene & nitrile



B72G



B73G



B74G

Ordering Information

Models listed include PTF threads, knob adjustment, automatic drain, metal bowl with liquid level indicator, 40 µm element, relieving diaphragm, 5 to 150 psig (0.3 to 10 bar) outlet pressure adjustment range* with gauge.

Port Size	Model	Flow† scfm (dm³/s)	Weight lb (kg)
1/4"	B72G 2AK AE3 RMG	80 (38)	1.3 (0.59)
3/8"	B73G 3AK AD3 RMG	123 (58)	1.76 (0.82)
1/2"	B73G 4AK AD3 RMG	123 (58)	1.76 (0.82)
1/2"	B74G 4AK AD3 RMG	212 (100)	2.59 (1.17)
3/4"	B74G 6AK AD3 RMG	212 (100)	2.55 (1.16)

*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.

† Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) droop from set.

Options selector

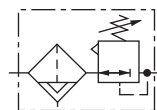
Series	Substitute	Gauge	Substitute
72	2	With	G
73	3	Without	N
74	4		
Port size	Substitute	Outlet pressure adjustment range*	Substitute
1/4" (72 & 73)	2	5 to 60 psig (0.3 to 4 bar)	F
3/8" (72, 73, 74)	3	5 to 150 psig (0.3 to 10 bar)	M
1/2" (73 & 74)	4	10 to 250 psig (0.7 to 17 bar)**	S
3/4" (74)	6		
Threads	Substitute	Diaphragm	Substitute
PTF	A	Relieving	R
ISO G parallel	G		
Adjustment	Substitute	Element	Substitute
Knob	K	5 µm	1
T-bar	T	40 µm	3
Drain	Substitute	Bowl	Substitute
1/4 turn manual	Q	Metal w/ liquid level indicator (72*, 73, 74)	D
Auto drain*	A	Long metal w/ liquid level indicator (72)*	E
		Long transparent (72)*	L
		Transparent with guard (73, 74)	P
		Transparent bowl (72*, 73)	T

*72 Series auto drain is available only with long bowl option.

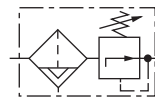
*Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

** 250 psig (17 bar) outlet pressure range units are available with t-handle adjustment only and standard metal bowl options.

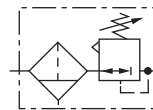
ISO Symbols



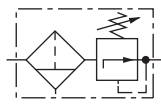
Automatic and
Semi Automatic Drain
Relieving



Automatic and
Semi Automatic Drain
Non Relieving



Manual Drain
Relieving



Manual Drain
Non Relieving

Excelon® modular system

B72G, B73G, B74G Filter/Regulators

Dimensions in inches.

Accessories

Wall mounting bracket*



Neck mounting bracket



Gauge
0 ... 160 psig



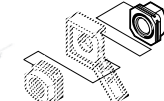
Panel nut



Tamper resistant cover and seal wire



Pipe adapters
(quantity of 1) (NPT)



Quikclamp®



Quikclamp® and wall bracket

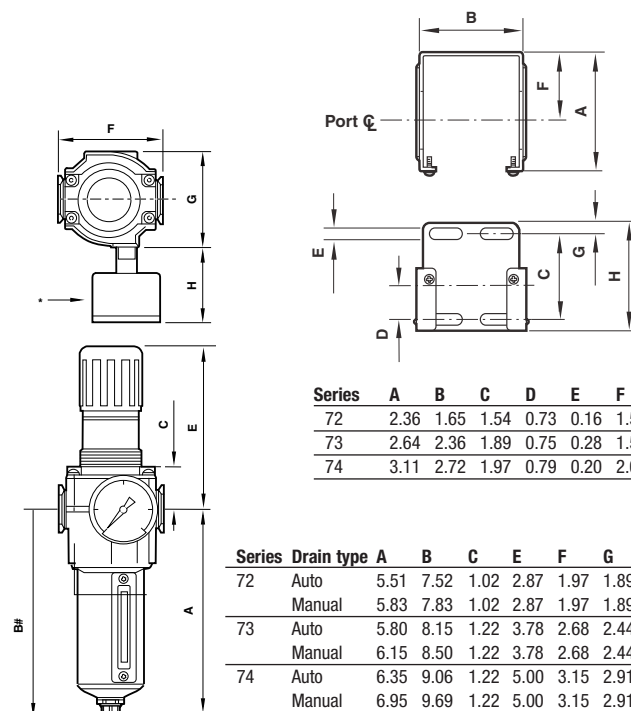


Replacement elements

B72G	4224-50	74316-50	18-013-212	4248-89	4255-51	4215-02 (1/4) 4215-03 (3/8)	4214-51	4214-52	5925-03 (5µm) 5925-02 (40µm)
B73G	4424-50	4461-50	18-013-209	5191-88	4455-51	4315-01 (1/4) 4315-02 (3/8) 4315-03 (1/2) 4315-04 (3/4)	4314-51	4314-52	4438-01 (5µm) 4438-03 (40µm)
B74G	4324-50	4368-51	18-013-209	4348-89	4355-51	4315-02 (3/8) 4315-03 (1/2) 4315-04 (3/4)	4314-51	4314-52	4338-04 (5µm) 4338-05 (40µm)

* Bracket kit does not include wall mounting screws.

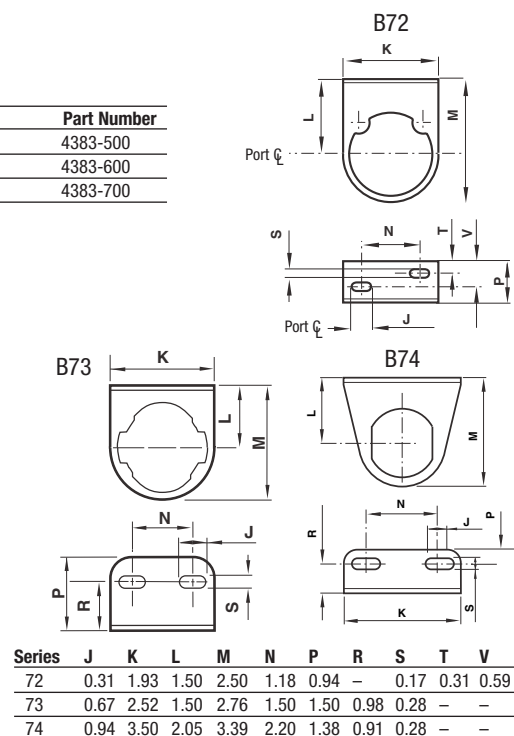
Mounting bracket



Service Kits

Item	Type	Part Number
72G	Relieving	4383-500
73G	Relieving	4383-600
74G	Relieving	4383-700

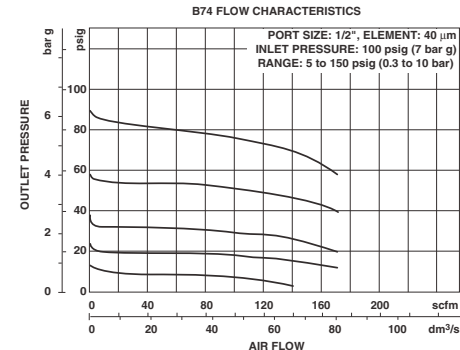
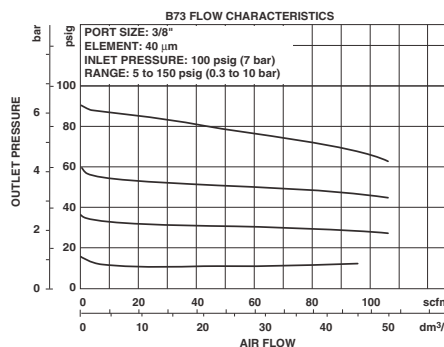
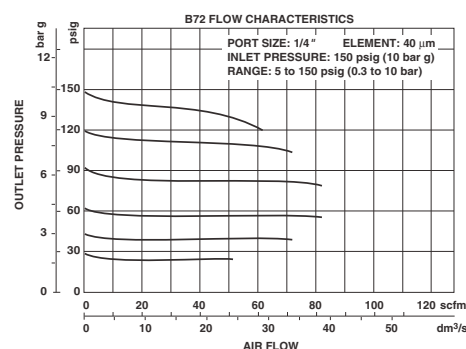
Neck mounting brackets



*Optional gauge.

Minimum clearance required to remove bowl.

Typical Performance Characteristics



Excelon® Pro B92G

General Purpose Filter/Regulator

- Easy to order
- Configuration flexibility
- Excellent value
- No tools required for assembly
- Push-to-lock adjusting knob
- w/tamper resistant accessory

Technical data

Fluid: Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure

- Manual drain: 175 psig (12 bar)
- Automatic drain: 150 psig (10 bar)

Operating temperature*

-4° to 125°F (-20° to 52°C)

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

Materials

- Body: PBT
- Bonnet: PBT
- Valve elastomer: Geolast
- Diaphragm: Nitrile
- Transparent bowl: Polycarbonate
- Element: Sintered polypropylene
- Elastomers:
 - Bowl O-ring - Neoprene
 - All others - Nitrile

Automatic drain operating conditions (float operated):

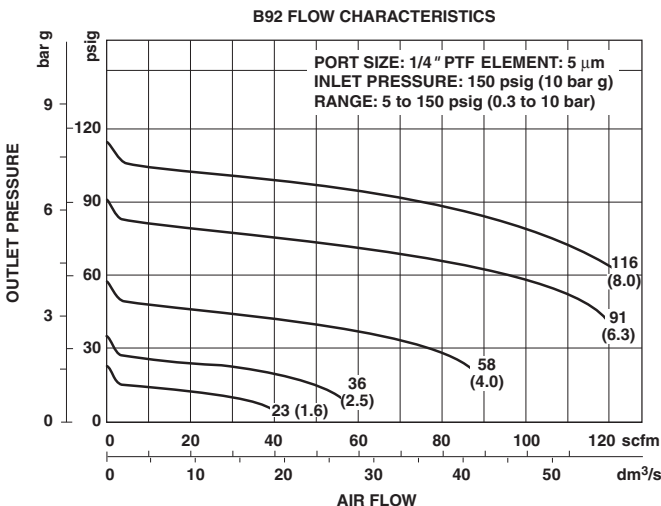
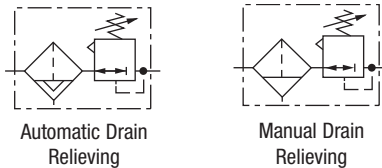
Bowl pressure required to close drain: > than 5 psig (0.35 bar)

Bowl pressure required to open drain: < than 3 psig (0.2 bar)

Minimum air flow required to close drain: 0.2 scfm (0.1 dm³/s)

Manual operation: Depress pin inside drain outlet to drain bowl

ISO Symbols



Order Information

Model listed below includes 5µm element, relieving diaphragm, 145 psi outlet pressure adjustment range, manual drain, and bar/psi gauge.

Port size	Part Number	Flow* scfm (dm³/s)	Weight lb (kg)
1/4" PTF	B92G2AKQT1RMG	35 (16)	0.62 (0.28)

* Maximum flow with 145 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) droop from set.

B92G★★K★T1RM★

Substitute	Description
NN	no connection
1A	1/8" PTF
2A	1/4" PTF
3A	3/8" PTF
1B	1/8" ISO Rc
2B	1/4" ISO Rc
3B	3/8" ISO Rc
1G	1/8" ISO G
2G	1/4" ISO G
3G	3/8" ISO G
6D	6mm PIF
8D	8mm (5/16") PIF
AD	10mm PIF
BD	12mm PIF
4E	1/4" PIF
6E	3/8" PIF
8E	1/2" PIF
2R*	1/4" PTF
2T*	1/4" ISO Rc
2V*	1/4" ISO G

Substitute	Description
G	Gauge bar/psi scale
A	Gauge bar/Mpa scale

Substitute	Description
Q	Manual drain
A	Automatic drain

* Does not include mounting bracket

All Dimensions in Inches (mm)

Excelon® Pro Modular System

B92G, General Purpose Filter/Regulator

Accessories and Kits

Threaded connector w/mounting bracket*		Push-In-Fitting connector w/mounting bracket*		Threaded connector w/o mounting brackets		Porting block		Quikconnect (quantity of 1)	
									
Connection	P/N	Connection	P/N	Connection	P/N	Connection	P/N	P/N	
1/8" PTF	9212KIT-1A	6mm PIF	9213KIT-6D	1/4" PTF	9211KIT-2R	1/4" PTF	9216-50	9210-50	
1/4" PTF	9212KIT-2A	8mm (5/16") PIF	9213KIT-8D	1/4" ISO Rc	9211KIT-2T	1/4" ISO G	9216-51	Tamper resistant cover and seal wire	
3/8" PTF	9212KIT-3A	10mm PIF	9213KIT-AD	1/4" ISO G	9211KIT-2V	1/4" ISO Rc	9216-52		
1/8" ISO Rc	9212KIT-1B	12mm PIF	9213KIT-BD	Wall mounting bracket		Panel mount nut (quantity of 10)			
1/4" ISO Rc	9212KIT-2B	1/4" PIF	9213KIT-4E						
3/8" ISO Rc	9212KIT-3B	3/8" PIF	9213KIT-6E						
1/8" ISO G	9212KIT-1G	1/2" PIF	9213KIT-8E						
1/4" ISO G	9212KIT-2G								
3/8" ISO G	9212KIT-3G			P/N 74316-02		P/N 9248-50		P/N 9255-51	

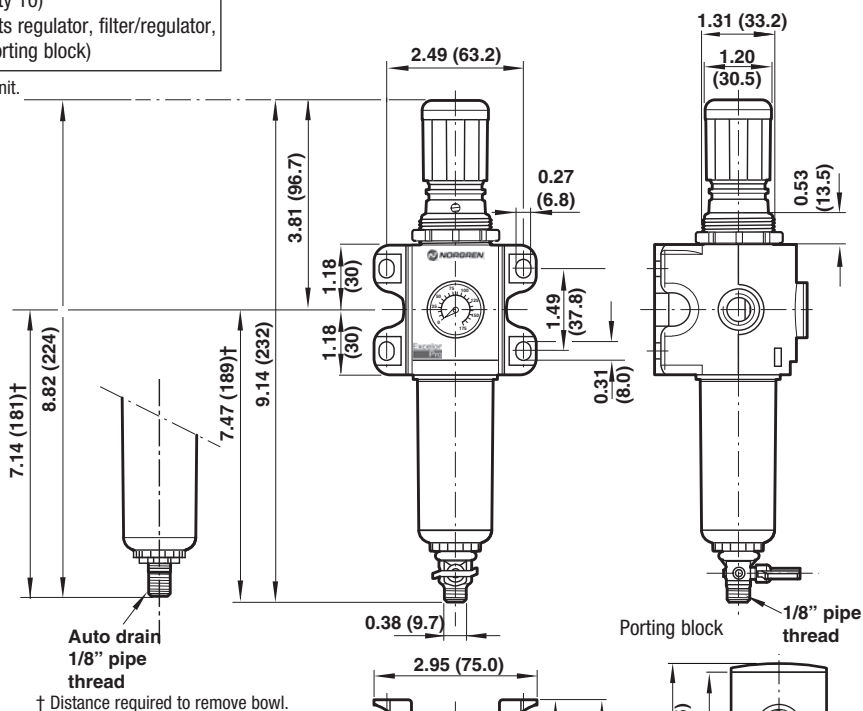
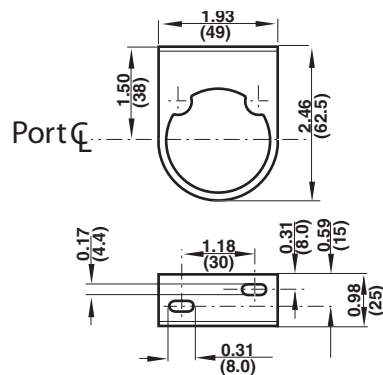
* Use 1/4" (6 mm) screws and appropriate washers when attaching brackets to a surface.

Service kit P/N B92G-KITR Includes: Diaphragm assembly, valve, valve O-ring, slip ring, bowl O-ring, element, screws	Locking plate kits**	
	 P/N 9236-88/X10 (qty 10) (fits filter, lubricator, lockout valves, and back of all units)	 P/N 9236-89/X10 (qty 10) (fits regulator, filter/regulator, porting block)
Auto Drain Assembly kit P/N 4000-50		

 ** Locking plates **MUST** be in place before pressurizing any Excelon Pro unit.

All Dimensions in Inches (mm)

74316-02 Wall mount dimensions

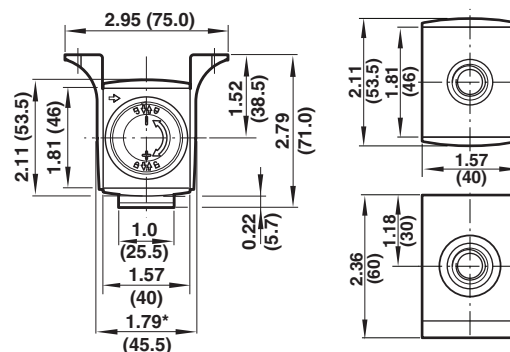


† Distance required to remove bowl.

* Connector Dimensions

1/8" and 1/4" threaded connectors shown. See below for port-to-port dimensions for additional connectors.

PIF Connector	Port-to-port
1/4", 6mm, 8mm (5/16")	2.37" (60.2)
3/8", 1/2", 10mm, 12mm	2.48" (61.9)
Threaded connector	
1/8", 1/4"	1.79" (45.5)
3/8"	2.99" (76.1)



Excelon® modular system

R72G, R73G, R74G Pressure regulators

Excelon® design allows in-line or modular installation

Full flow gauge ports

Balanced valve design minimizes effect of variation in the inlet pressure on the outlet pressure

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

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

300 psig (20 bar)

Operating temperature*:

-30° to 175°F (-34° to 80°C)

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

Materials

R72G

Body: zinc

Bonnet: acetal (Zinc on 250 psi model)

Elastomers: nitrile

Bottom plug: acetal

R73G, R74G

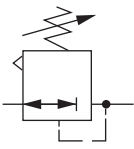
Body: aluminum

Bonnet: aluminum or zinc

Elastomers: nitrile

Bottom plug: acetal

ISO Symbols



R7*G Relieving



R72G

R73G

R74G

Ordering Information

Models listed include uni-directional flow, PTF threads, knob adjustment, relieving diaphragm, 5 to 150 psig (0.3 to 10 bar) outlet pressure adjustment range*, with gauge.

Port Size	Model	Flow† scfm (dm³/s)	Weight lb (kg)
1/4"	R72G 2AK RMG	70 (33)	0.79 (0.36)
1/4"	R73G 2AK RMG	91 (43)	1.36 (0.6)
3/8"	R73G 3AK RMG	144 (68)	1.36 (0.6)
3/8"	R74G 3AK RMG	208 (98)	1.80 (0.82)
1/2"	R74G 4AK RMG	220 (105)	1.77 (0.80)
3/4"	R74G 6AK RMG	220 (105)	1.73 (0.78)

† Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) droop from set.

Options selector

Series		Substitute		Gauge		Substitute	
72		2		With		G	
73		3		Without		N	
74		4					
Port size		Substitute		Outlet press adj range*		Substitute	
1/4" (72, 73)		2		5 to 30 psig (72)		C	
3/8" (72, 73, 74)		3		5 to 60 psig		F	
1/2" (73, 74)		4		5 to 150 psig		M	
3/4" (74)		6		10 to 250 psig**		S	
Threads		Substitute		Adjustment		Substitute	
PTF		A		Knob		K	
ISO G parallel		G		T-bar		T	

*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.

**Units with 250 psig outlet pressure range are available only with the T-bar adjustment, substitute T at the 7th position and S at the 9th position.

Excelon® modular system

R72G, R73G, R74G Pressure regulators

Dimensions in inches.

Accessories

Wall mounting bracket*

Neck mounting bracket

Gauge
0 ... 160 psig

Panel nut

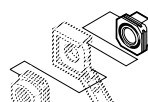
Tamper resistant cover and seal wire

Pipe adapters
(quantity of 1) (NPT)

Quikclamp®

Quikclamp® and wall bracket

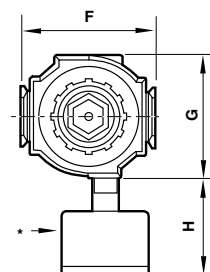
Service kit



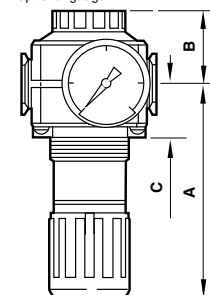
R72G	4224-50	74316-50	18-013-212	4248-89	4255-51	4215-02 (1/4)	4214-51	4214-52	4381-500
						4215-03 (3/8)			
R73G	4424-50	4461-50	18-013-209	5191-88	4455-51	4315-01 (1/4)	4314-51	4314-52	4381-600
						4315-02 (3/8)			
						4315-03 (1/2)			
						4315-04 (3/4)			
R74G	4324-50	4368-51	18-013-209	4348-89	4355-51	4315-02 (3/8)	4314-51	4314-52	4381-700
						4315-03 (1/2)			
						4315-04 (3/4)			

* Bracket kit does not include wall mounting screws.

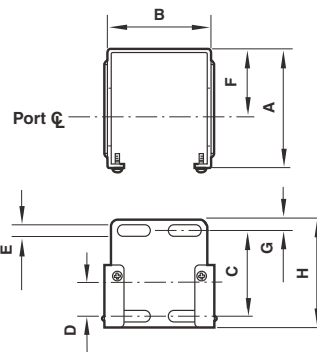
Neck mounting brackets



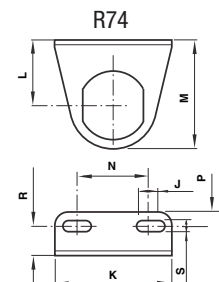
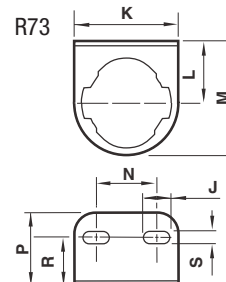
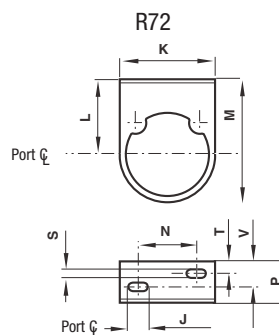
*Optional gauge



Mounting bracket

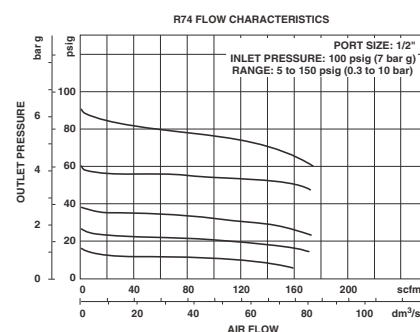
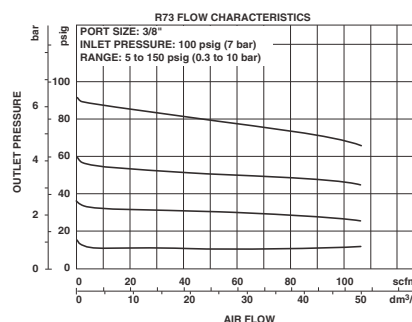
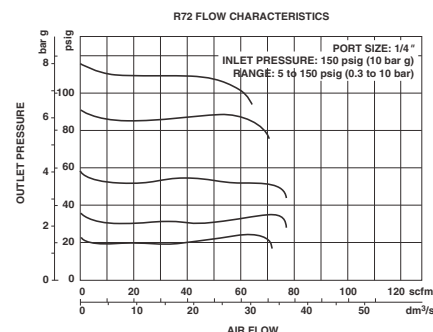


Series	A	B	C	D	E	F	G	H
72	2.36	1.65	1.54	0.73	0.16	1.50	0.24	2.01
73	2.64	2.36	1.89	0.75	0.28	1.50	0.24	2.40
74	3.11	2.72	1.97	0.79	0.20	2.01	0.24	2.40



	A	B	C	F	G	H	Panel Ø	Panel depth
72	2.87	1.30	1.02	1.97	1.89	1.38	1.57	0 to .16
73	3.78	1.54	1.22	2.68	2.44	2.20	1.89	.07 to .25
74	5.00	1.69	1.22	3.15	2.91	2.20	2.05	.07 to .25

Series	J	K	L	M	N	P	R	S	T	V
72	0.31	1.93	1.50	2.50	1.18	0.94	—	0.17	0.31	0.59
73	0.67	2.52	1.50	2.76	1.50	1.50	0.98	0.28	—	—
74	0.94	3.50	2.05	3.39	2.20	1.38	0.91	0.28	—	—



Excelon® Pro R92G

General Purpose Regulator

- Easy to order
- Configuration flexibility
- Excellent value
- No tools required for assembly
- Push-to-lock adjusting knob w/tamper resistant accessory

Technical data

Fluid: Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure

175 psig (12 bar)

Operating temperature*

-4° to 140°F (-20° to 60°C)

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

Materials

Body: PBT

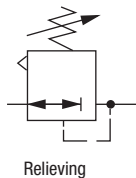
Elastomers:

Valve elastomer - Geolast

Diaphragm and all other elastomers - nitrile



ISO Symbol



Order Information

Model listed below includes relieving diaphragm, 145 psi outlet pressure adjustment range, and bar/psi gauge.

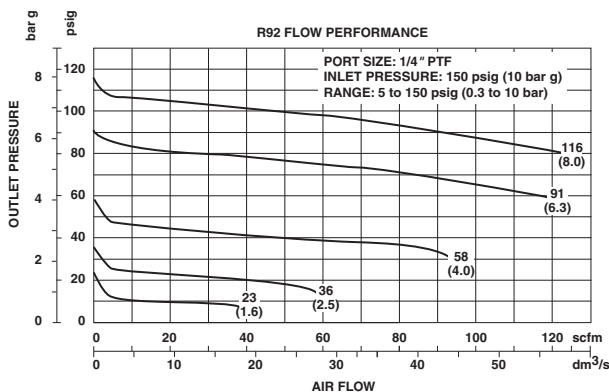
Port size	Part Number	Flow* scfm (dm ³ /s)	Weight lb (kg)
1/4" PTF	R92G2AKRMG	46 (22)	0.55 (0.25)

* Maximum flow with 145 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure, and a 15 psig (1 bar) droop from set.

R92G ★ ★ KRM ★

Substitute	Description	Substitute	Description
NN	no connection	G	Gauge bar/psi scale
1A	1/8" PTF	A	Gauge bar/Mpa scale
2A	1/4" PTF		
3A	3/8" PTF		
1B	1/8" ISO Rc		
2B	1/4" ISO Rc		
3B	3/8" ISO Rc		
1G	1/8" ISO G		
2G	1/4" ISO G		
3G	3/8" ISO G		
6D	6mm PIF		
8D	8mm (5/16") PIF		
AD	10mm PIF		
BD	12mm PIF		
4E	1/4" PIF		
6E	3/8" PIF		
8E	1/2" PIF		
2R*	1/4" PTF		
2T*	1/4" ISO Rc		
2V*	1/4" ISO G		

* Does not include mounting bracket



All Dimensions in Inches (mm)

Excelon® Pro Modular System

R92G, General Purpose Regulator

Accessories and Kits

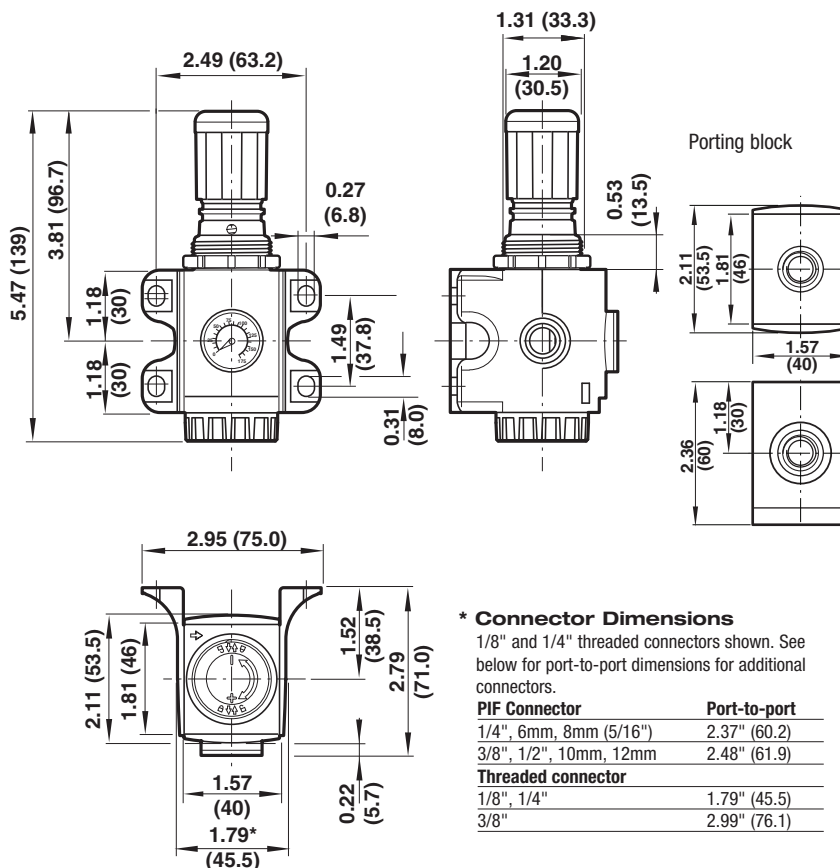
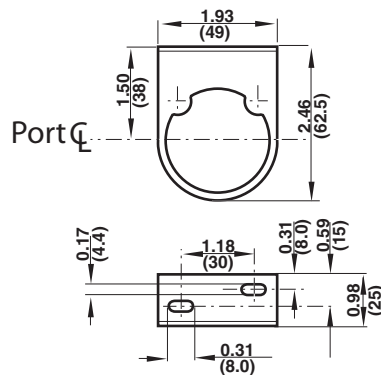
Threaded connector w/mounting bracket*		Push-In-Fitting connector w/mounting bracket*		Threaded connector w/o mounting brackets		Porting block		Quikconnect (quantity of 1)	
									
Connection	P/N	Connection	P/N	Connection	P/N	Connection	P/N	P/N	
1/8" PTF	9212KIT-1A	6mm PIF	9213KIT-6D	1/4" PTF	9211KIT-2R	1/4" PTF	9216-50	9210-50	
1/4" PTF	9212KIT-2A	8mm (5/16") PIF	9213KIT-8D	1/4" ISO Rc	9211KIT-2T	1/4" ISO G	9216-51	Tamper resistant cover and seal wire	
3/8" PTF	9212KIT-3A	10mm PIF	9213KIT-AD	1/4" ISO G	9211KIT-2V	1/4" ISO Rc	9216-52		
1/8" ISO Rc	9212KIT-1B	12mm PIF	9213KIT-BD	Wall mounting bracket		Panel mount nut (quantity of 10)			P/N 9255-51
1/4" ISO Rc	9212KIT-2B	1/4" PIF	9213KIT-4E						
3/8" ISO Rc	9212KIT-3B	3/8" PIF	9213KIT-6E		P/N 74316-02		P/N 9248-50		
1/8" ISO G	9212KIT-1G	1/2" PIF	9213KIT-8E						
1/4" ISO G	9212KIT-2G								
3/8" ISO G	9212KIT-3G								

* Use 1/4" (6 mm) screws and appropriate washers when attaching brackets to a surface.

Service kit P/N R92G-KITR Includes: Diaphragm assembly, valve, valve O-ring, slip ring, bottom plug O-ring	Locking plate kits**	
	 P/N 9236-88/X10 (qty 10) (fits filter, lubricator, lockout valves, and back of all units)	 P/N 9236-89/X10 (qty 10) (fits regulator, filter/regulator, porting block)

** Locking plates **MUST** be in place before pressurizing any Excelon Pro unit.

74316-02 Wall mount dimensions



* Connector Dimensions

1/8" and 1/4" threaded connectors shown. See below for port-to-port dimensions for additional connectors.

PIF Connector	Port-to-port
1/4", 6mm, 8mm (5/16")	2.37" (60.2)
3/8", 1/2", 10mm, 12mm	2.48" (61.9)
Threaded connector	
1/8", 1/4"	1.79" (45.5)
3/8"	2.99" (76.1)

Excelon® modular system

L72M/C, L73M/C, L74M/C Lubricators

Excelon® design allows in-line or modular installation

Quick release bayonet bowl.

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

Highly visible, prismatic liquid level indicator lens on metal bowls

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

Micro-fog and oil-fog

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

Operating temperature*:

(72) -30° to 150°F (-34° to 66°C)

(73, 74) -30° to 175°F (-34° to 80°C)

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

Materials

L72

Body: zinc

Elastomers: nitrile

Transparent bowl: polycarbonate

Metal bowl: zinc

Liquid level indicator lens (metal bowl):

transparent nylon

Sight-feed dome: transparent nylon

Elastomers: neoprene, nitrile & Geolast

L73, L74

Body: aluminum

Transparent bowl: polycarbonate

Guarded transparent bowl:

polycarbonate with aluminum guard

Metal bowl: aluminum

Liquid level indicator lens (metal bowl):

transparent nylon

Sight-feed dome: transparent nylon

Elastomers: neoprene & nitrile

Microfog: Fine mist lubrication with oil particle size typically less than 2µm. For use in lengthy air lines or multiple valve and cylinder circuits.

Oilfog: Suitable for heavy lubrication systems such as single cylinder air motors and air tools.



L72



L73



L74

Ordering Information

Models listed include PTF threads, manual drain, and metal bowl with plastic liquid level indicator.

Type	Port Size	Model*	Flow** scfm (dm3/s)	Nominal bowl capacity (oz)	Weight lb (kg)†
Micro-Fog	1/4"	L72M 2AP QEN	51 (24)	2.2	1.1 (0.49)
Oil Fog	1/4"	L72C 2AP QEN	51 (24)	2.2	1.1 (0.49)
Micro Fog	3/8"	L73M 3AP QDN	60 (28)	3.5	1.1 (0.50)
Oil Fog	3/8"	L73C 3AP QDN	60 (28)	3.5	1.1 (0.50)
Micro Fog	3/8"	L74M 3AP QDN	114 (54)	7.0	1.70 (0.77)
Oil Fog	3/8"	L74C 3AP QDN	118 (56)	7.0	1.70 (0.77)
Micro Fog	1/2"	L74M 4AP QDN	154 (73)	7.0	1.61 (0.73)
Oil Fog	1/2"	L74C 4AP QDN	192 (91)	7.0	1.61 (0.73)

* Models listed in the order table must not be located downstream of frequently cycling directional control valves. Order the optional bi-directional Oil-Fog Lubricator for use under such conditions.

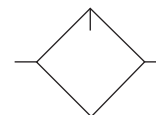
** Typical flow with 90 psig (6.3 bar) inlet pressure and a pressure drop of 7 psig (0.5 bar).

† (74) Lubricators with 1 quart (1 liter) metal bowl: Add 2.01 lbs (0.91 kg).

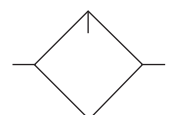
Options selector

		L7★ ★ ★ ★ P Q ★ N			
Series	Substitute			Bowl	Substitute
72	2			1-qt metal w/liquid level indicator (74)	A
73	3			Metal w/ liquid level indicator	D
74	4			Long metal w/liquid level indicator (72)	E
				Transparent with guard	P
				Transparent (72, 73)	T
Type	Substitute				
Oil-fog	C				
Micro-fog	M				
Port size	Substitute				
1/4 (72, 73)	2				
3/8 (72, 73, 74)	3				
1/2 (73, 74)	4				
3/4 (74)	6				
Threads	Substitute				
PTF	A				
ISO G parallel	G				

ISO Symbols



No Drain



With Drain

Excelon® modular system

L72M/C, L73M/C, L74M/C Lubricators

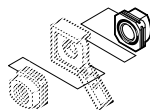
Dimensions in inches.

Accessories

Wall mounting bracket*



Pipe adapters (quantity of 1) (NPT)



Quikclamp®



Quikclamp® and wall bracket



Quick fill nipple

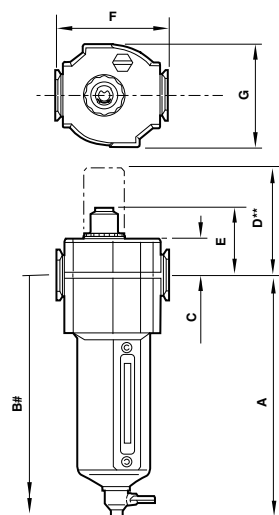
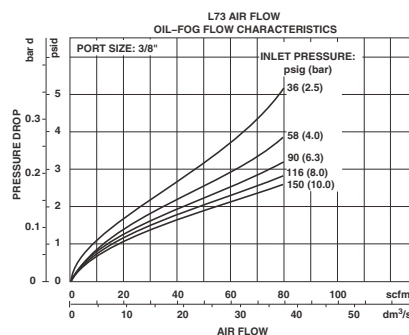
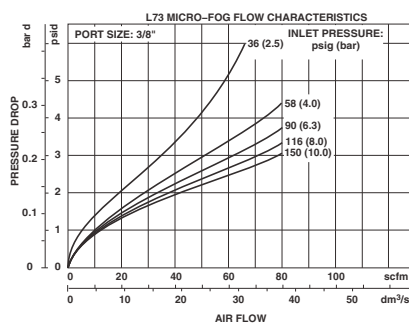
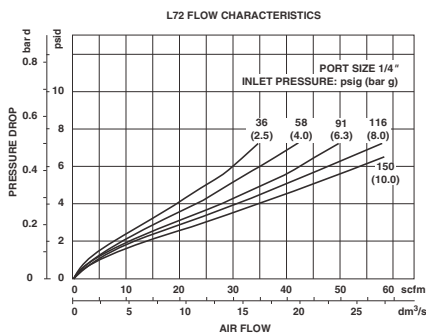


Service Kit Seal and gasket

L72	4224-50	4215-02 (1/4) 4215-03 (3/8)	4214-51	4214-52		4382-500 (72M/C)
L73	4424-50	4315-01 (1/4) 4315-02 (3/8) 4315-03 (1/2) 4315-04 (3/4)	4314-51	4314-52	18-011-024	4382-600 (73M/C)
L74	4324-50	4315-02 (3/8) 4315-03 (1/2) 4315-04 (3/4)	4314-51	4314-52 4314-55 (1-qt bowl)	18-011-024	4382-700 (74M/C)

* Bracket kit does not include wall mounting screws.

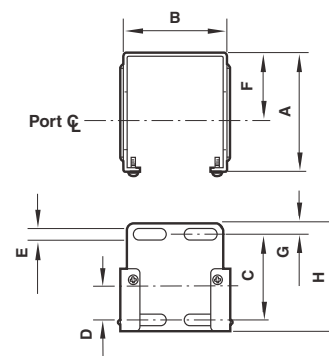
Typical Performance Characteristics



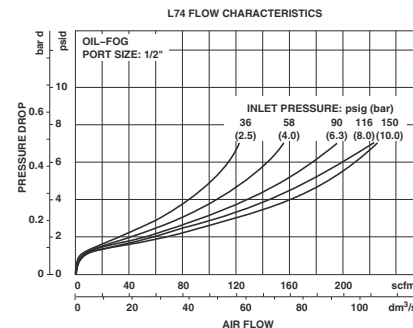
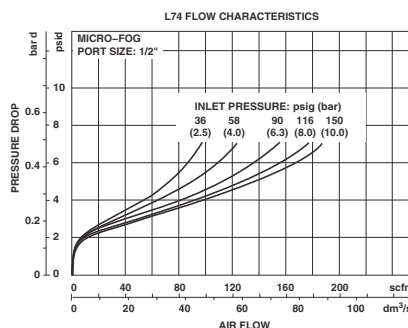
** Optional Pyrex sight-feed dome.
Minimum clearance required to remove bowl.

	A	B	C	D	E	F	G
72	5.83	9.13	0.75	2.52	1.61	1.97	1.89
73	6.15	10.04	0.98	2.76	1.85	2.68	2.44
74	6.95	10.87	0.98	2.68	1.85	3.15	2.91
	A	B	C	D	E	F	G
74 w/1 qt bowl closed bottom	11.14	20.0	0.98	2.68	1.85	3.15	2.91
74 w/1 qt bowl w/drain	11.93	20.0	0.98	2.68	1.85	3.15	2.91

Mounting bracket



Series	A	B	C	D	E	F	G	H
72	2.36	1.65	1.54	0.73	0.16	1.50	0.24	2.01
73	2.64	2.36	1.89	0.75	0.28	1.50	0.24	2.40
74	3.11	2.72	1.97	0.79	0.20	2.01	0.24	2.40



Excelon® Pro L92C

Oil-Fog Lubricator

Easy to order
Configuration flexibility
Excellent value
No tools required for assembly
RoHs compliant
Flow sensor provides a nearly constant oil/air ratio over a wide range of flows
Sight glass dome visible from 360° for ease of drip rate setting

Technical data

Fluid

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure

Transparent bowl: 175 psig (12 bar)

Operating temperature*

-4° to 125°F (-20° to 52°C)

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

Materials

Body: PBT

Transparent bowl: Polycarbonate

Elastomers:

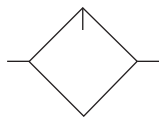
Bowl and sight-feed dome O-ring - Neoprene

All others - nitrile

Sight-feed dome: Transparent nylon

Recommended lubricant: DTE Light

ISO Symbol



No Drain



Order Information

Model listed below includes oil-fog lubrication, closed bottom bowl, and sight feed dome.

Port Size	Part Number	Flow* scfm (dm3/s)	Weight lbs (kg)
1/4" PTF	L92C2APETN	50 (24)	0.42 (.19)

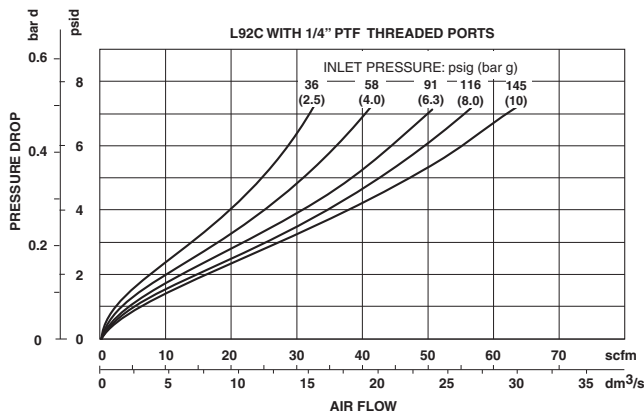
*Typical flow with 90 psig (6.3 bar) inlet pressure and a pressure drop of 7 psig (0.5 bar)

L92C★★★PETN

Substitute	Description
NN	no connection
1A	1/8" PTF
2A	1/4" PTF
3A	3/8" PTF
1B	1/8" ISO Rc
2B	1/4" ISO Rc
3B	3/8" ISO Rc
1G	1/8" ISO G
2G	1/4" ISO G
3G	3/8" ISO G
6D	6mm PIF
8D	8mm (5/16") PIF
AD	10mm PIF
BD	12mm PIF
4E	1/4" PIF
6E	3/8" PIF
8E	1/2" PIF
2R*	1/4" PTF
2T*	1/4" ISO Rc
2V*	1/4" ISO G

* Does not include mounting bracket

Flow Characteristics



All Dimensions in Inches (mm)

Excelon® Pro Modular System

L92C, Oil-Fog Lubricator

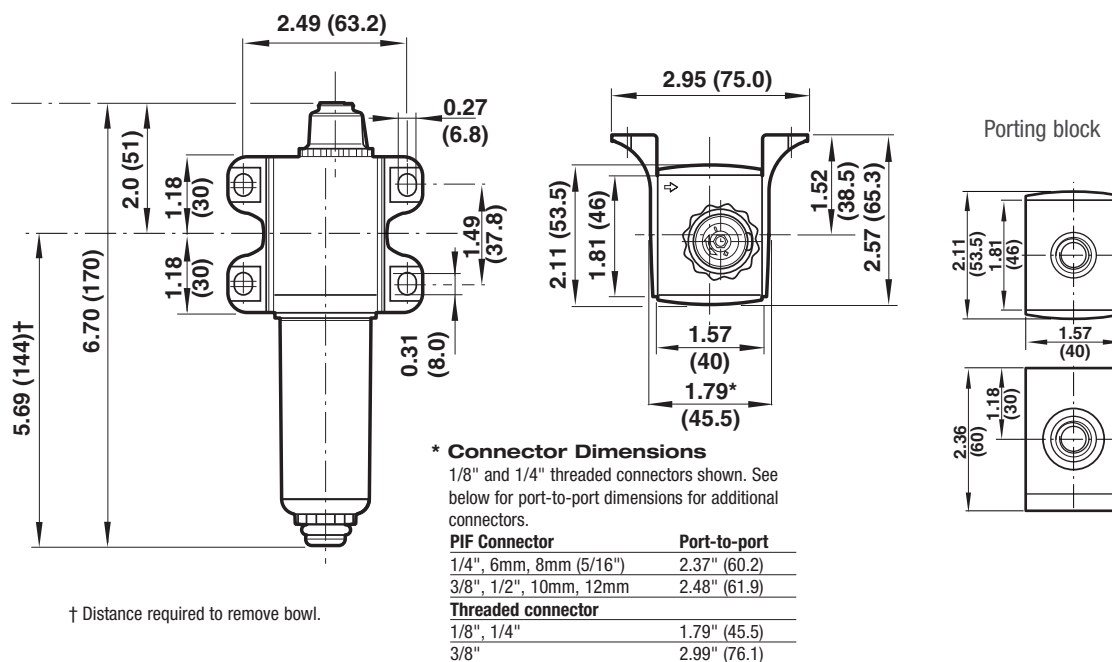
Accessories and Kits

Threaded connector w/mounting bracket*		Push-In-Fitting connector w/mounting bracket*		Threaded connector w/o mounting brackets		Porting block		Quikconnect (quantity of 1)
								
Connection	P/N	Connection	P/N	Connection	P/N	Connection	P/N	P/N
1/8" PTF	9212KIT-1A	6mm PIF	9213KIT-6D	1/4" PTF	9211KIT-2R	1/4" PTF	9216-50	9210-50
1/4" PTF	9212KIT-2A	8mm (5/16") PIF	9213KIT-8D	1/4" ISO Rc	9211KIT-2T	1/4" ISO G	9216-51	
3/8" PTF	9212KIT-3A	10mm PIF	9213KIT-AD	1/4" ISO G	9211KIT-2V	1/4" ISO Rc	9216-52	
1/8" ISO Rc	9212KIT-1B	12mm PIF	9213KIT-BD					
1/4" ISO Rc	9212KIT-2B	1/4" PIF	9213KIT-4E					
3/8" ISO Rc	9212KIT-3B	3/8" PIF	9213KIT-6E					
1/8" ISO G	9212KIT-1G	1/2" PIF	9213KIT-8E					
1/4" ISO G	9212KIT-2G							
3/8" ISO G	9212KIT-3G							

* Use 1/4" (6 mm) screws and appropriate washers when attaching brackets to a surface.

Service kit with bowl O-ring, feed dome seal P/N L92C-KIT	Locking plate kits**	
	 9236-88/X10 (qty 10) (fits filter, lubricator, lockout valves, and back of all units)	 9236-89/X10 (qty 10) (fits regulator, filter/regulator, porting block)

** Locking plates **MUST** be in place before pressurizing any Excelon Pro unit.



Excelon® modular system

V72G, V74G Pressure Relief Valves

Dimensions in inches.

Accessories

Wall mounting bracket*

Neck mounting bracket

 Gauge
0 ... 160 psig

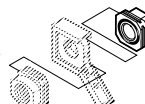
Plastic panel nut

Tamper resistant cover and seal wire

 Pipe adapters
(quantity of 1(NPT))

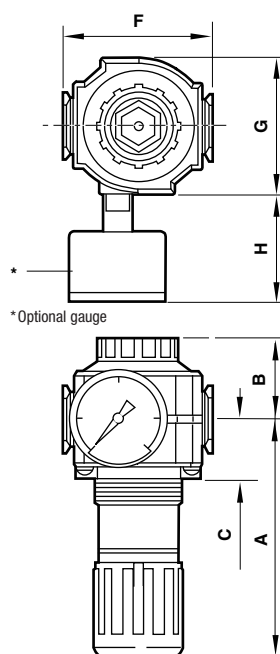
Quikclamp®

Quikclamp® and wall bracket

 Service kit
Diaphragm and seal


V72G	4224-50	74316-50	18-013-212	4248-89	4255-51	4215-02 (1/4) 4215-03 (3/8)	4214-51	4214-52	4209-03
V74G	4324-50	4368-51	18-013-209	4348-89	4355-51	4315-02 (3/8) 4315-03 (1/2) 4315-04 (3/4)	4314-51	4314-52	4384-700

* Bracket kit does not include wall mounting screws.

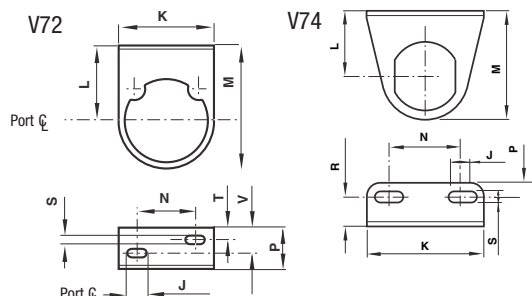


	A	B	C	F	G	H	Panel Ø	Panel depth
72	2.87	0.98	1.02	1.97	1.89	1.38	1.57	0 ... 0.2
74	5.00	1.69	1.22	3.15	2.91	2.20	2.05	0.08 ... 0.2

Neck mounting bracket

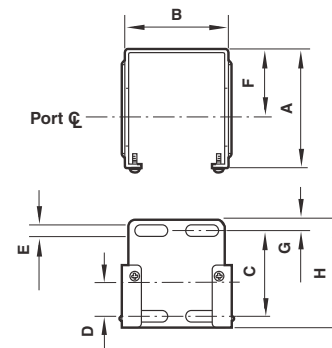
V72

V74



Series	J	K	L	M	N	P	R	S	T	V
72	0.31	1.93	1.50	2.50	1.18	0.94	—	0.17	0.31	0.59
74	0.94	3.50	2.05	3.39	2.20	1.38	0.91	0.28	—	—

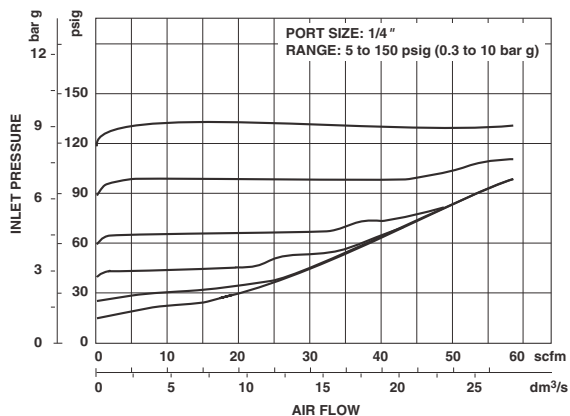
Mounting bracket



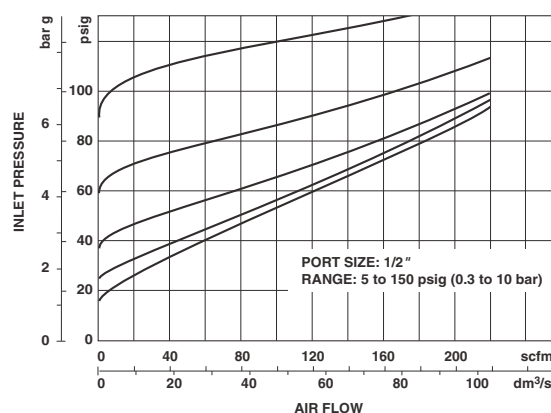
Series	A	B	C	D	E	F	G	H
72	2.36	1.65	1.54	0.73	0.16	1.50	0.24	2.01
74	3.11	2.72	1.97	0.79	0.20	2.01	0.24	2.40

Typical Performance Characteristics

V72 RELIEF CHARACTERISTICS



V74 RELIEF CHARACTERISTICS



Excelon® Filter-Filter

Combination Units

H72G/C, H73G/C, H74G/C

True modularity with Norgren Quikclamp® connections
General purpose and oil removal filter provide high efficiency oil removal and particle removal down to 0.01 µm
Quick release bayonet bowl
Highly visible, prismatic liquid level indicator lens
Service indicator turns from green to red when the filter element needs to be replaced

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

(72) metal bowl w/autodrain: 116 psig (8 bar)

Operating temperature*:

Transparent bowl:

-30°F to 125°F (-34° to 50°C)

Metal bowl:

-30°F to 150°F (-34 to 65°C)

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

Particle removal:

down to 0.01 µm

Oil removal:

to class level 2: 0.01 mg/m³

Materials

Body: Zinc, or aluminum

Bowl: (72) zinc, (73, 74) aluminum polycarbonate

Metal bowl liquid level indicator lens:

Transparent nylon

F72G, F73G, F74G element: sintered polypropylene

F72C, F73C, F74C element: synthetic fiber and polyurethane foam

Elastomers: neoprene and nitrile

Service indicator materials

Body: transparent nylon

Internal parts: acetal

Spring: stainless steel

Elastomers: nitrile

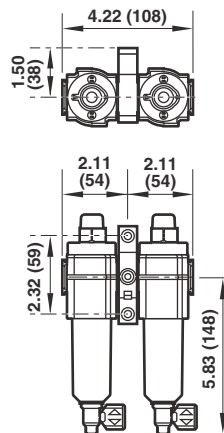


Ordering information

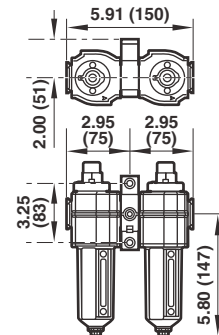
Models listed include PTF threads, service indicator, automatic drain, and metal bowl with level indicator.

Port Size	Model	Weight lb (kg)
1/4"	H72A 2AB AE1 NNN LNN	2 (0.91)
3/8"	H73A 3AB AD1 NNN DNN	2.7 (1.22)
1/2"	H74A 4AB AD1 NNN DNN	4.06 (1.84)
3/4"	H74B 6AB AD1 NNN DNN	4.61 (2.09)

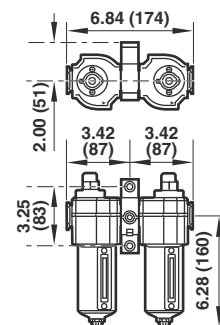
Standard Type H72A-
Shown with optional Quikclamp®
wall bracket.



Standard Type H73A-
Shown with optional
Quikclamp® wall bracket.



Standard Type H74A Shown
(H74B Similar)
Shown with optional Quikclamp®
wall bracket.



Excelon® Filter/Regulator-Lubricator Combination Units

B72/L72, B73/L73, B74/L74

True modularity with Norgren

Quickclamp® connections

Quick release bayonet bowl

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

All around (360°) visibility of the lubricator sight-feed dome simplifies installation and adjustment

Regulator balanced valve minimizes effect of variation in the inlet pressure on the outlet pressure

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

Transparent bowl: 150 psig (10 bar)

Metal bowl (manual or semi automatic drain): 250 psig (17 bar)

(72) 150 psig (10 bar)

Operating temperature*:

Transparent bowl:

0° to 125°F (-20° to 50°C)

Metal bowl:

0° to 150°F (-20° to 65°C)

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

Particle removal:

5 µm, or 40 µm filter element

Materials

Body: zinc or aluminum

Bonnet: acetal or aluminum

Bowl:

Metal bowl: (72) zinc

(73, 74) aluminum

polycarbonate

Metal bowl liquid level indicator lens:

transparent nylon

Sight-feed dome: transparent nylon

Element: sintered polypropylene

Elastomers: neoprene, nitrile



Ordering information

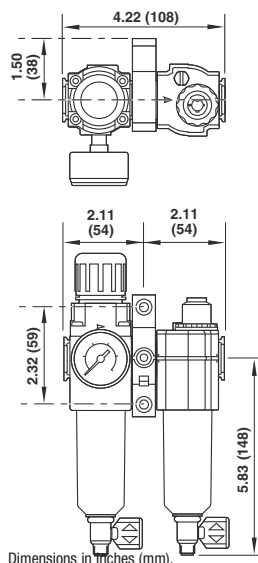
Models include PTF threads. Filter/Regulator (F/R) has knob adjustment, automatic drain, metal bowl with level indicator, 40 µm element, relieving diaphragm, and 150 psig (10 bar) regulating spring, and gauge. Lubricator (L) is a Micro-Fog model with 1/4 turn manual drain and metal bowl with level indicator.

Combination Unit Type	Port Size	Model**	Weight lb (kg)
Filter/Regulator-Lubricator	1/4"	C72H 2AK AE3 RMG QEB	2.37 (1.08)
(F/R L)	3/8"	C73H 3AK AD3 RMG QDB	3.0 (1.36)
(F/R L)	1/2"	C74H 4AK AD3 RMG QDB	5.07 (2.30)
	3/4"	C74H 6AK AD3 RMG QDB	5.00 (2.27)

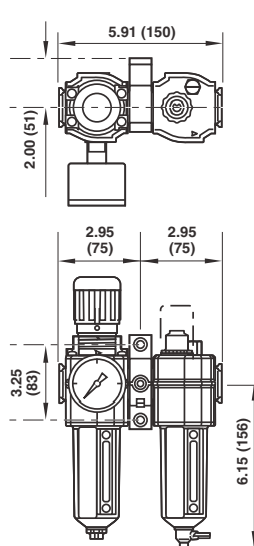
** For oil fog lubricator use "J" in the 4th position.

Other combinations are available. Please consult Norgren for more information.

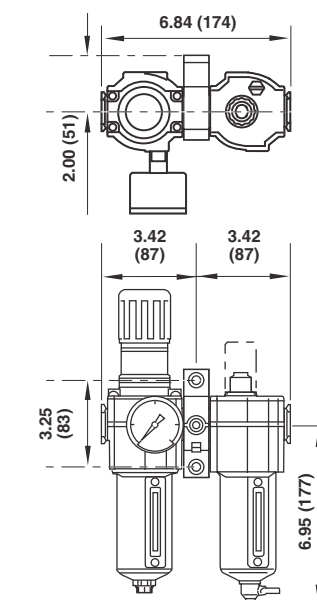
C72H-



C73H-



C74H-



Dimensions in inches (mm).

Excelon® Filter-Regulator-Lubricator

Combination Units

C72A, C73A, and C74A Series

Compact design

Filter has high efficiency water and particle removal

Push to lock adjusting knob with tamper resistant option

Nearly constant oil density output with varying air flow

Use Micro-Fog models in applications containing one or more points of lubrication.

Use Oil-Fog models to lubricate a single tool, cylinder, or other air driven device.

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure

Transparent bowl: 150 psig (10 bar)

Metal bowl w/manual drain:

250 psig (17 bar)

(72) 150 psig (10 bar)

Operating temperature*

Transparent bowl:

0° to 125°F (-20° to 50°C)

Metal bowl:

(72) 0° to 150°F (-20° to 65°C)

(73, 74) -30° to 175°F (-34° to 80°C)

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

Particle removal:

5 µm, or 40 µm filter element

Materials

Body: (72) zinc (73, 74) aluminum

Bonnet: (72) acetal (73, 74) aluminum

Regulator bottom plug: acetal

Bowl: (72) zinc (73, 74) aluminum or polycarbonate

Metal bowl liquid level indicator lens:

transparent nylon

Sight-feed dome: transparent nylon

Element: sintered polypropylene

Elastomers: neoprene, nitrile



C72A



C74A

Ordering information

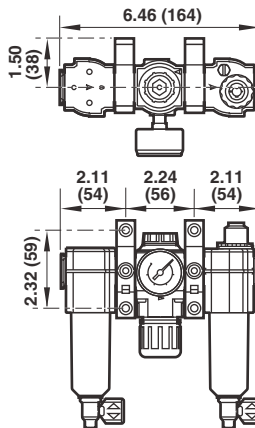
Models listed include PTF threads. Filter (F) includes automatic drain, metal bowl with level indicator, and a 40µm element. Regulator (R) is relieving type with knob adjustment, 150 psig (10 bar) regulating spring, and gauge. Lubricator (L) is a Micro-Fog model with 1/4 turn manual drain and metal bowl with level indicator.

Combination Unit Type	Port Size	Model**	Weight lb (kg)
Filter-Regulator-Lubricator	1/4"	C72A 2AK AE3 RMG QEB	3.23 (1.47)
	3/8"	C73A 3AK AD3 RMG QDB	4.36 (1.98)
	1/2"	C74A 4AK AD3 RMG QDB	6.04 (2.74)
	3/4"	C74A 6AK AD3 RMG QDB	5.91 (2.68)

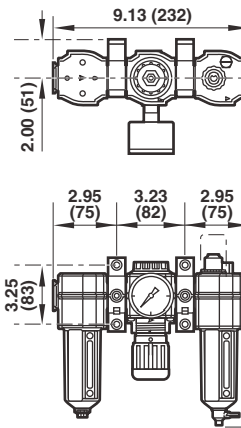
** For oil fog lubricator use "B" in the 4th position.

Other combinations are available. Please consult Norgren for more information.

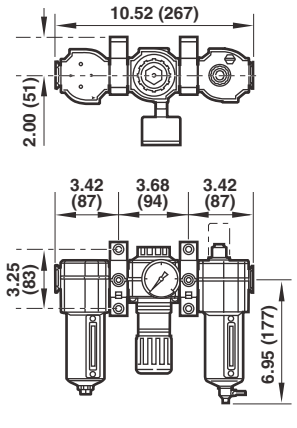
C72A-



C73A-



C74A-



Dimensions in inches (mm).

Filter-Lubricator Combination Units

C72C, C73C, C74C Series

True modularity with Norgren Quikclamp® connections

Quick release bayonet bowl

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

Highly visible, prismatic liquid level indicator lens

All around (360°) visibility of the sight-feed dome simplifies installation and adjustment

Use Micro-Fog models in applications containing one or more points of lubrication.

Use Oil-Fog models to lubricate a single tool, cylinder, or other air driven device.

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

Transparent bowl: 150 psig (10 bar)

Metal bowl: (72) 150 psig (10 bar)

(74) 250 psig (17 bar)

Operating temperature*:

Transparent bowl:

0° to 125°F (-20° to 50°C)

Metal bowl:

(72) 0° to 150°F (-20° to 65°C)

(73, 74) -30° to 175°F (-34° to 80°C)

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

Particle removal:

5 µm or 40 µm filter element

Materials

Body: zinc

Bowl: zinc, aluminum, or polycarbonate

Metal bowl liquid level indicator lens: transparent nylon

Element: sintered polypropylene

Sight-feed dome: transparent nylon

Elastomers: neoprene, nitrile



C72C



C74C

Ordering information

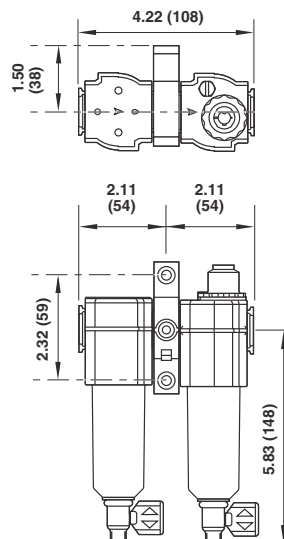
Models listed include PTF threads. Filter (F) has automatic drain, metal bowl with level indicator, and a 40 µm element. Lubricator (L) is a Micro-Fog model with 1/4 turn manual drain and metal bowl with indicator.

Combination Unit Type	Port Size	Model**	Weight lb (kg)
Filter-Lubricator (F-L)	1/4"	C72C 2AN AE3 NNN QEB	2.3 (1.04)
	3/8"	C73C 3AN AD3 NNN QDB	2.6 (1.18)
	1/2"	C74C 4AN AD3 NNN QDB	3.84 (1.74)
	3/4"	C74C 6AN AD3 NNN QDB	3.75 (1.70)

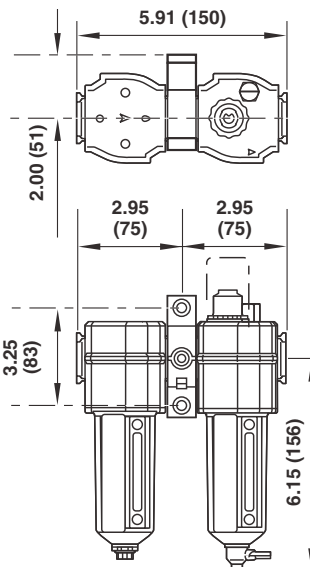
** For oil fog lubricator use "D" in the 4th position.

Other combinations are available. Please consult Norgren for more information.

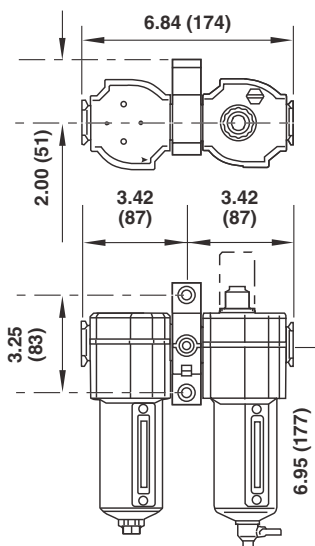
C72C-



C73C-



C74C-



Dimensions in inches (mm).

Excelon® valves

P72F, P74F Smooth start/Exhaust valves

Excelon® design allows in-line or modular installation

Controls increase of downstream pressure on start up. Cylinders and other air operated devices are eased into normal operating positions, reducing the possibility of equipment damage and hazards to the user.

Blocks inlet air and exhausts downstream air when pilot signal is removed or when the optional manual lockout slide is closed

Optional manual slide can be padlocked in closed position

Solenoid pilot or air pilot operation

Designed for use in start-up and shutdown of equipment.



P72F

P74F

P74F-AD

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure solenoid operated:

Dependent on solenoid rating
[must not exceed 150 psig (10 bar)]

Maximum pressure pilot operated:

150 psig (10 bar) max.

Minimum operating pressure:

44 psig (3 bar)

Operating temperature solenoid operated:

Dependent on solenoid rating
[must be within range
0°* to 150°F (-20°* to 65°C)] (72)

[must be within range
0°* to 175°F (-20°* to 80°C)]

Operating temperature pilot operated:

0°* to 150°F (-20°* to 65°C) (72)

0°* to 175°F (-20°* to 80°C) (74)

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

Materials

Body: Zinc alloy (72) Aluminum (74)

Elastomers: Synthetic materials

Filter discs: Sintered plastic

Internal components: Brass/steel

Ordering Information

Models listed include PTF threads. Solenoid operated models include 24 VDC coil and plug without indicator.

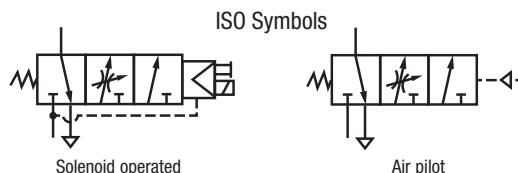
Port size	Solenoid operated*	lb (kg)	Air pilot operated	lb (kg)
1/4"	P72F-2AC-PFA	2.0 (0.91)	P72F-2AA-NNN	1.93 (0.88)
3/8"	P74F-3AC-PFA	2.4 (1.08)	P74F-3AA-NNN	2.3 (1.05)
1/2"	P74F-4AC-PFA	2.3 (1.05)	P74F-4AA-NNN	2.2 (1.02)
3/4"	P74F-6AC-PFA	3.1 (1.41)	P74F-6AA-NNN	3.0 (1.35)

* Solenoid operated models are supplied with 22 mm 24 V d.c. 2 W coil and connector plug without indicator light. plugs. To select alternative voltages and other options refer to the Options selector below. For connector plugs see next page.

** Factory repair only

Options selector

P7★F-★-★-★-★-★			
Series	Substitute	Connectors	Substitute
72	2	3 pin plug with cable gland, no indicator light	A
74	4	Without	N
Port size	Substitute	Coil voltage	Nominal power rating
1/4" (72)	2	24 V d.c.	2 W
3/8"	3	110/120 V	4/2.5 VA, 50/60 Hz
1/2" (74)	4	No solenoid	N
3/4" (74)	6		
Threads	Substitute	Solenoid manual operator	Substitute
PTF	A	Shrouded push button	P
ISO G parallel	G	None	N
Operator	Substitute		
Air pilot	A		
Air pilot with manual lockout slide (74)	B		
22 mm miniature solenoid	C		
22 mm miniature solenoid with manual lockout slide (74)	D		



Excelon® valves

P72F, P74F Smooth start/Exhaust valves

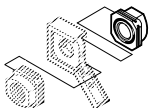
Dimensions in inches (mm)

Accessories

Exhaust port silencer



Quikmount pipe adapters (quantity of 1)



Quikclamp®



Quikclamp® and wall bracket



Plug with cable gland for 22mm solenoid



Indicator type

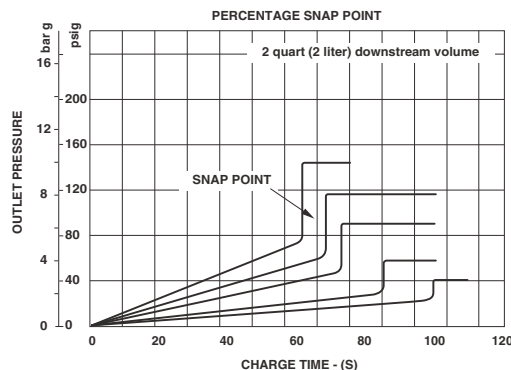
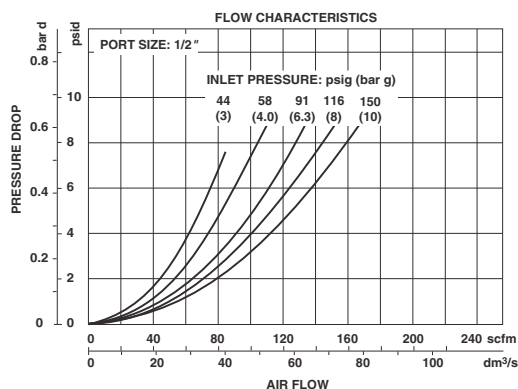


No indicator

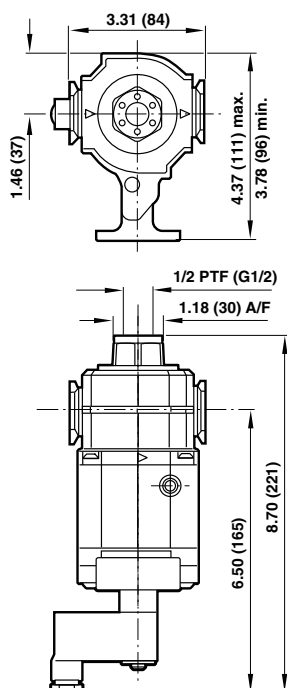
P72F	MB002A	4215-02 (1/4)	4214-51	4214-52	54934-08*	12 ... 24 V a.c./d.c.	Indicator type
		4215-03 (3/8)			54934-02	110/120 V a.c.	Indicator type
					54934-01		No indicator
P74F	MB004A	4315-02 (3/8)	4314-51	4314-52	54934-08*	12 ... 24 V a.c./d.c.	Indicator type
		4215-03 (1/2)			54934-02	110/120 V a.c.	Indicator type
		4315-04 (3/4)			54934-01		No indicator

*Reduced light intensity at 12 V.

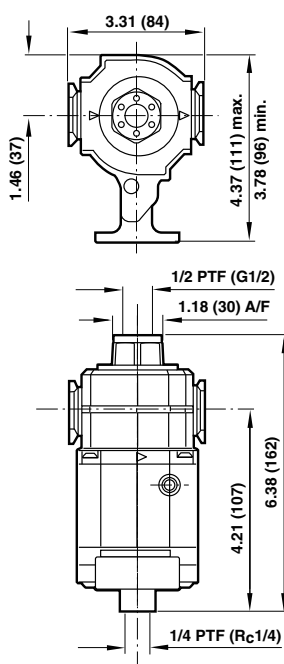
Typical Performance Characteristics



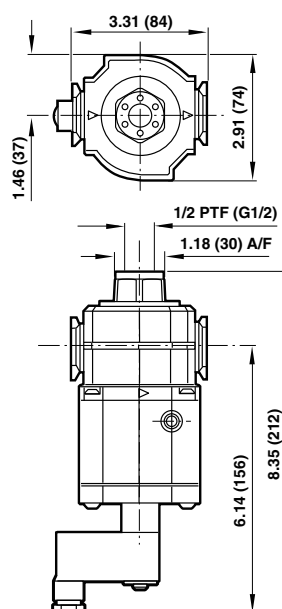
Solenoid operated plus manual shut-off with lockout



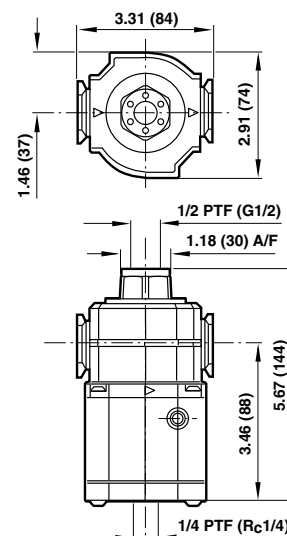
Air pilot operated plus manual shut-off with lockout



Solenoid operated



Air pilot operated

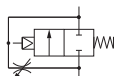


Excelon Valves

Excelon Pro P92E

Smooth Start Valve

ISO Symbol



Order Information

Model listed does not include end caps.

Port size	Part Number	Flow Cv	Weight lb (kg)
1/4" PTF	P92E-2AN-NNN	2.62	0.23 (0.10)

Adjustable rate of pressure increase

Easy to order

Configuration flexibility

Excellent value

No tools required for assembly

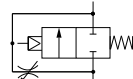
RoHS compliant



P72E and P74E

Excelon® 72 and 74 Smooth Start Valves 1/4", 3/8", and 1/2" Port Sizes

ISO Symbol



Ordering Information

Models listed are with PTF threads.

Port Size	Model	Weight lb (kg)
1/4"	P72E-2AN-NNN	1.86 (0.84)
3/8"	P72E-3AN-NNN	1.80 (0.82)
1/2"	P74E-NNN-NNN	1.17 (0.53)

High-flow, spring return, 2 port/2 position normally closed valves

Adjustable rate of pressure increase

Modular installations with Excelon® 72, 73, and 74 series can be made to suit particular applications



P72C

Excelon® 72 Air or Solenoid Operated Directional Control Valves 1/4", 3/8" Port Sizes

ISO Symbols



Solenoid operated

Air pilot

Ordering Information

Models listed are with PTF threads. Solenoid operated models include 24 V d.c. coil and plug without indicator.

Port Size	Solenoid Operated Model	Weight lb (kg)	Air Pilot Operated Model	Weight lb (kg)
1/4"	P72C-2AC-PFA	2.11 (0.96)	P72C-2AA-NNN	1.86 (0.84)
3/8"	P72C-3AC-PFA	2.05 (0.93)	P72C-3AA-NNN	1.80 (0.82)

Excelon® design allows in-line or modular installation

3 port/2 position valves, normally closed

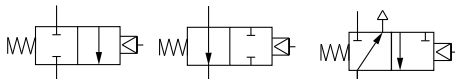
Modular installations with Excelon® 72, 73, and 74 series can be made to suit particular applications



P74 Air Operated

Excelon® 74 Air Operated Directional Control Valves Unthreaded Ports, 1/2" Basic Size

ISO Symbols



2-Port/2-Position
Normally Closed

2-Port/2-Position
Normally Open

3-Port/2-Position
Normally Closed

Ordering Information

Models listed include PTF threads in the pilot and exhaust ports.

Installation Type	2 Port/2 Position Normally Closed	2 Port/2 Position Normally Open	3 Port/2 Position Normally Closed	Weight lb (kg)
Modular*	P74A-NAA-NNN	P74B-NAA-NNN	P74C-NAA-NNN	1.20 (0.54)

* Valve main ports are unthreaded. To install in air line or connect to other Excelon® 74 units use Quikclomp® and Quikclomp® pipe adapters.

Modular installation only

2-port/2-position valves available as normally closed or normally open valves

3-port/2-position valves available as normally closed valves.

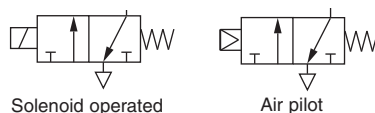


Excelon Valves

Excelon Pro P92C

Solenoid or air pilot operated 3/2 directional control valve

ISO Symbol



Order Information

Model listed includes 15 mm pilot solenoid with DIN connector.

Port size	Part Number	Flow (Cv)	Weight lb (kg)	Spares kit
1/4" PTF	P92C-2AT-PFA	2.33	0.36 (0.17)	P92C-KIT

High flow, spring return, normally closed valve

High flow exhaust to vent downstream pressure

Easy to order

Configuration flexibility

Excellent value

No tools required for assembly

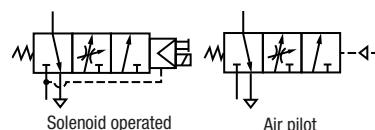
RoHS compliant



P74 Solenoid Operated Valve

Excelon® 74 Solenoid Operated Directional Control Valve
Unthreaded Ports, 1/2" Basic Size

ISO Symbols



Ordering Information

Models listed include PTF exhaust port threads, non-locking override, 110/120Vac standard coil, and cable grip connector.

Installation Type	2 Port/2 Position Normally Closed	2 Port/2 Position Normally Open	3 Port/2 Position Normally Closed	Weight lb (kg)
Modular*	P74A-NNC-PJA	P74B-NNC-PJA	P74C-NAC-PJA	1.63 (0.74)

* Valve main ports are unthreaded. To install in air line or connect to other Excelon® 74 units use Quikclamp® and Quikclamp® pipe adapters.

Modular installation only

2-port/2-position valves available as normally closed or normally open valves

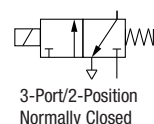
3-port/2-position valves available only as normally closed valves.



P74 Lockout Valve

Excelon® 74 Solenoid Operated Valve with Lockout Unthreaded Ports, 1/2" Basic Size

ISO Symbol



Ordering Information

Models listed include PTF exhaust port threads, non-locking override, 110/120Vac coil, and cable grip connector.

Installation Type	3 Port/2 Position Normally Closed	Weight lb (kg)
Modular*	P74C-NAD-PJA	2.03 (0.92)

* Valve main ports are unthreaded. To install in air line or connect to other Excelon® 74 units use Quikclamp® and Quikclamp® pipe adapters.

Modular installation only

High-flow, 3-port/2-position, normally closed

Manually operated lockout slide can be locked in the closed position with a customer supplied padlock.



Excelon® lockout valves

1/4" to 3/4" port size

Excelon® design allows in-line or modular installation

Valves can be locked in the closed position only

Excelon® 3-port/2-position lockout valves help conform to OSHA Lockout regulations in USA market.

Technical data

Fluid: Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum Pressure: 250 psig (17 bar)

Operating Temperature*: -30° to 150°F (-34° to 65°C)

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

Cv factor from IN to OUT ports

1/4" ports: 4.0

3/8" ports: 8.0

1/2" ports: 8.1

3/4" ports: 7.7

Cv factor from OUT to Exhaust ports on 3-port/2-position valves: 0.2.

Exhaust port threads on T72T and T73T models: 10-32

Exhaust port threads on T74T models:

1/8 PTF with PTF main ports

1/8" ISO Rc with ISO G and ISO Rc main ports

Hole diameter in slide for padlock 72 and 73: 5/16" (8 mm)

Hole diameter in slide for padlock: 0.29" (7.5 mm)

Materials

Body: Zinc

Slide: Acetal plastic

Elastomers: Nitrile



Ordering Information

Models listed are with PTF threads.

Port Size	2-Port/2-Position No exhaust outlet	3-Port/2-Position (OSHA) Unthreaded exhaust port	3-Port/2-Position Threaded exhaust port	Weight lbs (kg)
1/4"	T72B-2AA-P1N	T72E-2AA-P1N	T72T-2AA-P1N	0.79 (0.36)
3/8"	T72B-3AA-P1N	T72E-2AA-P1N	T72T-3AA-P1N	0.86 (0.39)

Port Size	2-Port/2-Position No exhaust outlet	3-Port/2-Position (OSHA) Unthreaded exhaust outlet	3-Port/2-Position Threaded exhaust port	Weight lbs (kg)
1/4"	T73B-2AA-P1N	T73E-2AA-P1N	T73T-2AA-P1N	0.7 (0.3)
3/8"	T73B-3AA-P1N	T73E-3AA-P1N	T73T-3AA-P1N	0.7 (0.3)
1/2"	T73B-4AA-P1N	T73E-4AA-P1N	T73T-4AA-P1N	0.7 (0.3)

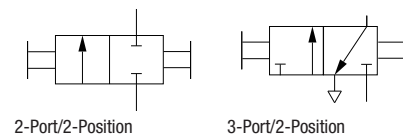
Port Size	2-Port/2-Position Padlock closed only No exhaust outlet	3-Port/2-Position (OSHA) Padlock closed only Unthreaded exhaust port	3-Port/2-Position Padlock closed only Threaded exhaust port	Weight lbs (kg)
3/8"	T74B-3AA-P1N	T74E-3AA-P1N	T74T-3AA-P1N	0.69 (0.32)
1/2"	T74B-4AA-P1N	T74E-4AA-P1N	T74T-4AA-P1N	0.65 (0.30)
3/4"	T74B-6AA-P1N	T74E-6AA-P1N	T74T-6AA-P1N	0.62 (0.28)

Service Kits*

Type	Part Number
T72	4384-513
T73B (black slide)	4384-610
T73E (yellow slide)	4384-611
T73T (red slide)	4384-612
T74B (black slide)	4384-711
T74E (yellow slide)	4384-710
T74T (red slide)	4384-713

* Service kit includes seals and slide.

ISO Symbols



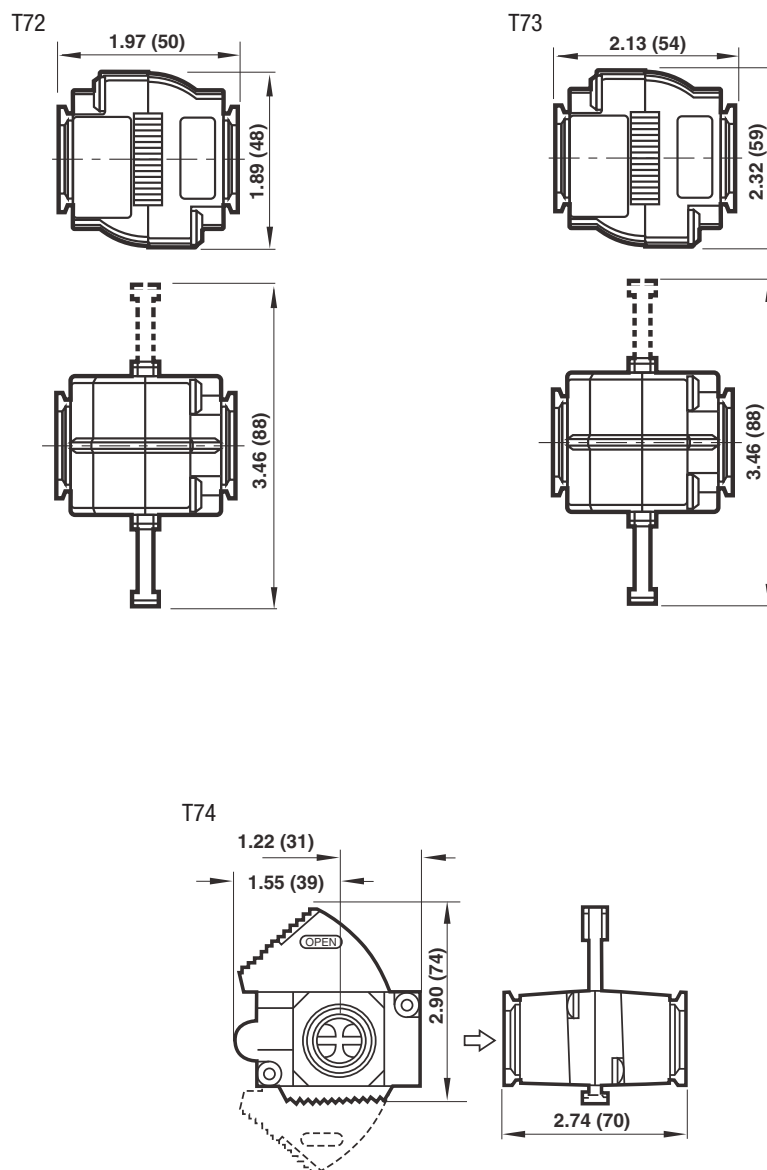
2-Port/2-Position

3-Port/2-Position

Excelon lockout valves

1/4" to 3/4" port size

Dimensions in inches (mm)



Excelon® Pro T92

Lockout/shut-off valve

Easy to order
Configuration flexibility
Excellent value
No tools required for assembly
RoHs compliant

Technical data

Fluid: Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure

175 psig (12 bar)

Cv factor from IN to OUT ports

1/4" PTF: 2.57

3/8" PIF: 1.77

Operating temperature*

-4° to 140°F (-20° to 60°C)

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

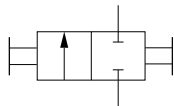
Materials

Body: PBT

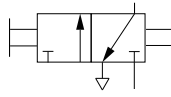
Elastomers: Nitrile



ISO Symbols



2-Port/2-Position



3-Port/2-Position

Port Size	2-Port/2-Position No exhaust outlet Black slide	3-Port/2-Position (OSHA) Unthreaded exhaust port Yellow slide	3-Port/2-Position 10-32 (M5) threaded exhaust port, Red slide	Weight lbs (kg)
1/4" PTF	T92B-2AN-B1N	T92E-2AN-B1N	T92T-2AN-B1N	.35 (.16)

		T92 ★ ★ ★ NB1N	
Substitute	Exhaust port	Substitute	Description
B	Plugged	NN	no connection
E	Unthreaded	1A	1/8" PTF
T	Threaded M5 (10-32 UNF)	2A	1/4" PTF
		3A	3/8" PTF
		1B	1/8" ISO Rc
		2B	1/4" ISO Rc
		3B	3/8" ISO Rc
		1G	1/8" ISO G
		2G	1/4" ISO G
		3G	3/8" ISO G
		6D	6mm PIF
		8D	8mm (5/16") PIF
		AD	10mm PIF
		BD	12mm PIF
		4E	1/4" PIF
		6E	3/8" PIF
		8E	1/2" PIF
		2R*	1/4" PTF
		2T*	1/4" ISO Rc
		2V*	1/4" ISO G

* Does not include mounting bracket

Excelon® Pro Modular System

T92, Lockout/shut-off valve

Accessories and Kits

Threaded connector w/mounting bracket*		Push-In-Fitting connector w/mounting bracket*		Threaded connector w/o mounting brackets		Porting block		Quikconnect™ (quantity of 1)	
									
Connection	P/N	Connection	P/N	Connection	P/N	Connection	P/N	P/N	
1/8" PTF	9212KIT-1A	6mm PIF	9213KIT-6D	1/4" PTF	9211KIT-2R	1/4" PTF	9216-50	9210-50	
1/4" PTF	9212KIT-2A	8mm (5/16") PIF	9213KIT-8D	1/4" ISO Rc	9211KIT-2T	1/4" ISO G	9216-51		
3/8" PTF	9212KIT-3A	10mm PIF	9213KIT-AD	1/4" ISO G	9211KIT-2V	1/4" ISO Rc	9216-52		
1/8" ISO Rc	9212KIT-1B	12mm PIF	9213KIT-BD						
1/4" ISO Rc	9212KIT-2B	1/4" PIF	9213KIT-4E						
3/8" ISO Rc	9212KIT-3B	3/8" PIF	9213KIT-6E						
1/8" ISO G	9212KIT-1G	1/2" PIF	9213KIT-8E						
1/4" ISO G	9212KIT-2G								
3/8" ISO G	9212KIT-3G								

* Use 1/4" (6 mm) screws and appropriate washers when attaching brackets to a surface.

Locking plate kit**



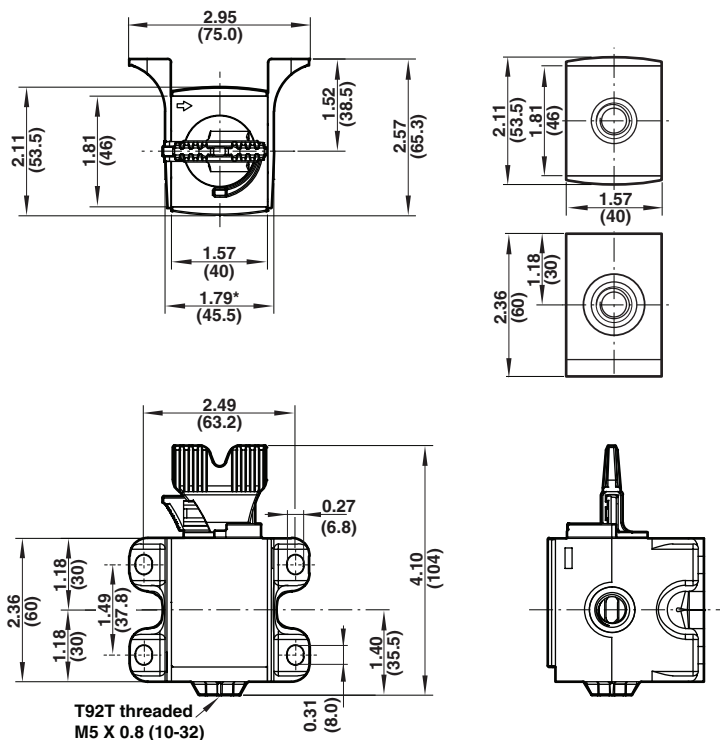
9236-88/X10
(qty 10)
(fits filter, lubricator, lockout valves, and back of all units)

** Locking plates **MUST** be in place before pressurizing any Excelon Pro unit.

* Connector Dimensions

1/8" and 1/4" threaded connectors shown. See below for port-to-port dimensions for additional connectors.

PIF Connector	Port-to-port
1/4", 6mm, 8mm (5/16")	2.37" (60.2)
3/8", 1/2", 10mm, 12mm	2.48" (61.9)
Threaded connector	
1/8", 1/4"	1.79" (45.5)
3/8"	2.99" (76.1)



Olympian Plus General Purpose Filter

F64G, F68E General purpose filters

Olympian Plus plug in system
Effective liquid removal and positive solid particle filtration
Large filter element area provides minimum pressure drop
Optional visual service indicator turns from green to red when the filter element needs to be replaced
Factory option electrical service life indicator provides electrical output when the filter element needs to be replaced

Technical data

Fluid: Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

64 Series

Maximum pressure

Guarded transparent bowl:
150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

Operating temperature*:

Guarded transparent bowl:
-30° to 125°F (-34° to 50°C)

Metal bowl:

-30° to 175°F (-34° to 80°C)

68 Series

Maximum pressure:

250 psig (17 bar)

Operating temperature*:

0° to +175°F (-20° to +80°C)

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

Materials

F64G

Body: Zinc

Yoke: Zinc

Metal bowl: Aluminum

Standard metal bowl prismatic liquid level indicator lens: Grilamid

Optional metal bowl sight glass: Pyrex

Optional transparent bowl:

Polycarbonate

Element: Polypropylene

Elastomers: Nitrile

F68E

Body: Aluminum

Yoke: Aluminum

Bowl: Aluminum

Liquid level indicator: Pyrex

Element: Sintered bronze or polypropylene

Elastomers: Nitrile



F64G



F68E

Ordering Information

Models listed are with PTF threads, metal bowl with sight glass, automatic drain, and 40 µm element.

Port Size	Model	Flow† scfm (dm³/s)	Weight lb (kg)
1/2"	F64G-4AN-AD3	125 (59)	2.91 (1.32)
1"	F68E-8AN-AU3	403 (190)	5.1 (2.33)

†Typical flow with 40 µm element at 90 psig (6.3 bar) inlet pressure and a 5 psig (0.35 bar) pressure drop.

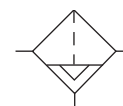
Options selector (F64G)

F64G-***N-D*			
Port size	Substitute	Element	Substitute
1/4	2	5 µm	1
3/8	3	40 µm	3
1/2	4		
3/4	6	Drain	Substitute
No yoke	N	Manual	Q
		Auto drain	A
Threads	Substitute		
PTF	A		
ISO G parallel	G		
No yoke	N		

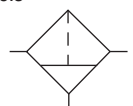
Options selector (F68E)

F68E-***-***			
Port size	Substitute	Element	Substitute
3/4	6	5 µm	1
1	8	50 µm	3
1-1/4	A		
1-1/2	B	Bowl	Substitute
No yoke	N	1 qt	C
		1 qt with liquid level indicator	U
Threads	Substitute	Drain	Substitute
PTF	A	Manual, 1/4 turn	Q
ISO G parallel	G	Auto drain	A
No yoke	N		
Service life indicator	Substitute		
Mechanical	D		
Electrical	E		
Without	N		

ISO Symbols



Auto Drain



Manual Drain

Olympian Plus General Purpose Filter

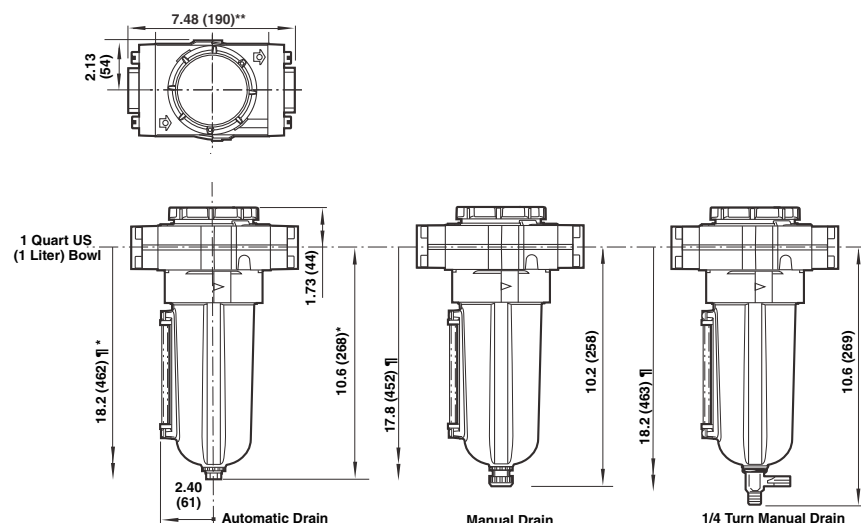
F64G, F68G General purpose filters

Dimensions in inches (mm)

Accessories

		Bracket kit	Bracket kit	3/2 Shut-off valve	Single Yoke	Double Yoke	Service Kit & elements
F64G	1/4	—	74504-50	T64E-2AB-P1N	Y64A-2AA-N1N	Y64A-2AA-N2N	F64G Seal & gasket 4380-200
	3/8	—	74504-50	T64E-3AB-P1N	Y64A-3AA-N1N	Y64A-3AA-N2N	Filter element 5 µm 4338-01
	1/2	—	74504-50	T64E-4AB-P1N	Y64A-4AA-N1N	Y64A-4AA-N2N	Filter element 40 µm 4338-02
	3/4	—	74504-50	T64E-6AB-P1N	Y64A-6AA-N1N	Y64A-6AA-N2N	F68G Seal & gasket 4380-300
F68G	1/2	18-001-979	—	T68E-4AB-B2N	Y68A-4AN-N1N	Y68A-4AN-N2N	Element 5 µm (1 quart bowl) 5311-01
	3/4	18-001-979	—	T68E-6AB-B2N	Y68A-6AN-N1N	Y68A-6AN-N2N	Element 5 µm (1 quart bowl) 5311-01
	1	18-001-979	—	T68E-8AB-B2N	Y68A-8AN-N1N	Y68A-8AN-N2N	Element 40 µm (1 quart bowl) 5311-03
	1-1/4	18-001-978	—	T68E-AAB-B2N	Y68A-AAN-N1N	Y68A-AAN-N2N	Element 5 µm (1 quart bowl) 5311-01
	1-1/2	—	—	T68E-BAB-B2N	Y68A-BAN-N1N	Y68A-BAN-N2N	Element 40 µm (1 quart bowl) 5311-03

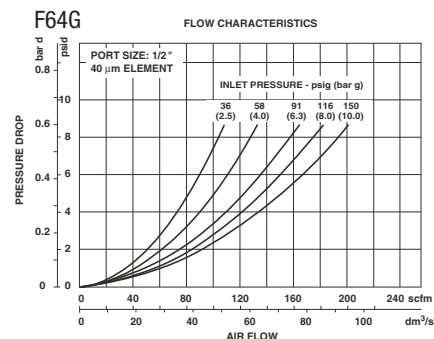
F68E



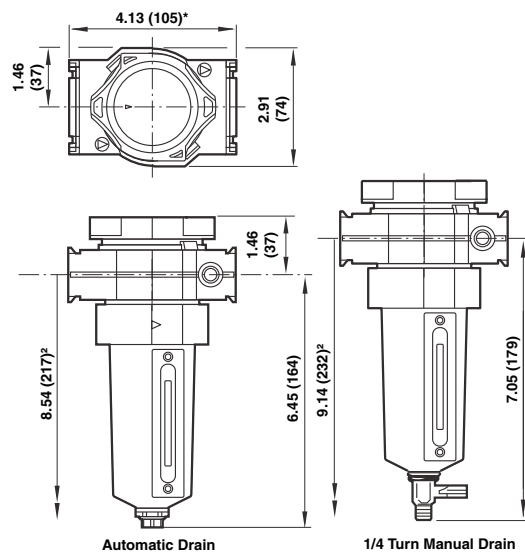
*Dimension also applies to closed bottom bowl.
 ** For 1-1/4" and 1-1/2" ported yokes add 0.39" (10 mm).

† Minimum clearance required to remove bowl.

Typical Performance Characteristics



F64G

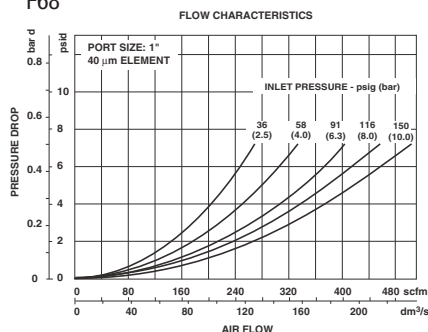


* 6.18" (157 mm) for 3/4" models

† Minimum clearance required to remove bowl.

Typical Performance Characteristics

F68



Olympian Plus Oil Removal (coalescing) Filter

F64C/H, F68C/H

Olympian Plus plug in design

High efficiency oil and particle removal

Quick release bayonet bowl

High visibility prismatic sight glass

Coalescing element service indicator

Install a pre-filter with a 5 µm filter element upstream of the filter for optimum coalescing element life.

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

250 psig (17 bar)

Guarded transparent bowl:

150 psig (10 bar)

Operating temperature*:

0° to +150°F (-20° to +65°C)

Guarded transparent bowl:

-30° to 125°F (-34° to 50°C)

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

Materials

Body: Aluminum

Yoke: Aluminum

Bowl: Aluminum

Liquid level indicator: Pyrex

Element: Synthetic fiber and polyurethane foam

Elastomers: Nitrile

Service life indicator:

Body: Transparent nylon

Internal parts: Acetal

Spring: Stainless steel

Elastomers Nitrile



F64C/H



F68C/H

Ordering Information

Models listed are with PTF threads, metal bowl with sight glass, service indicator, and automatic drain.

Port Size	Model	Maximum Flow* scfm (dm3/s)	Weight lb (kg)
1/4"	F64C-2AD-AD0	34 (16)	3.26 (1.48)
1/2"	F64H-4AD-AD0	60 (28)	3.68 (1.67)
3/4"	F64H-6AD-AD0	60 (28)	4.43 (2.01)
1/2 (Standard flow, short element)	F68C-4AD-AR0	1/2" ports: 74 (35)	5.19 (2.36)
3/4 (High flow, long element)	F68H-6AD-AU0	3/4" ports: 74 (35)	5.85 (2.66)
1 (High flow, long element)	F68H-8AD-AU0	1" ports: 127 (60)	5.72 (2.60)

* Maximum flow at 90 psig to maintain stated oil removal performance.

Options selector (F64C/H)

F64★-★-★D-★-★0	
Body size	Substitute
Standard flow	C
High flow	H
Port size	Substitute
1/4"	2
3/8"	3
1/2"	4
3/4"	6
Threads	Substitute
PTF	A
ISO G parallel	G
Bowl	Substitute
Metal with liquid level indicator	D
Transparent with guard	P
Drain	Substitute
Manual, 1/4 turn	Q
Auto drain	A

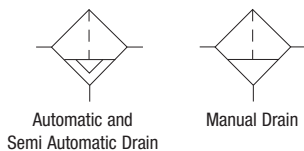
Options selector (F68C/H)

F68★-★-★D-★-★0	
Flow	Substitute
Standard flow	C
High flow	H
Port size	Substitute
3/4"	6
1	8
1-1/4	A
1-1/2	B
Threads	Substitute
PTF	A
ISO G parallel	G
Bowl	Substitute
1 pt with liquid level indicator	R*
1 qt with liquid level indicator	U**
Drain	Substitute
Auto drain	A
Manual (1/4 turn)	Q

* Only available with F68C

** Only available with F68H

ISO Symbols



Olympian Plus Oil Removal (Coalescing) Filter

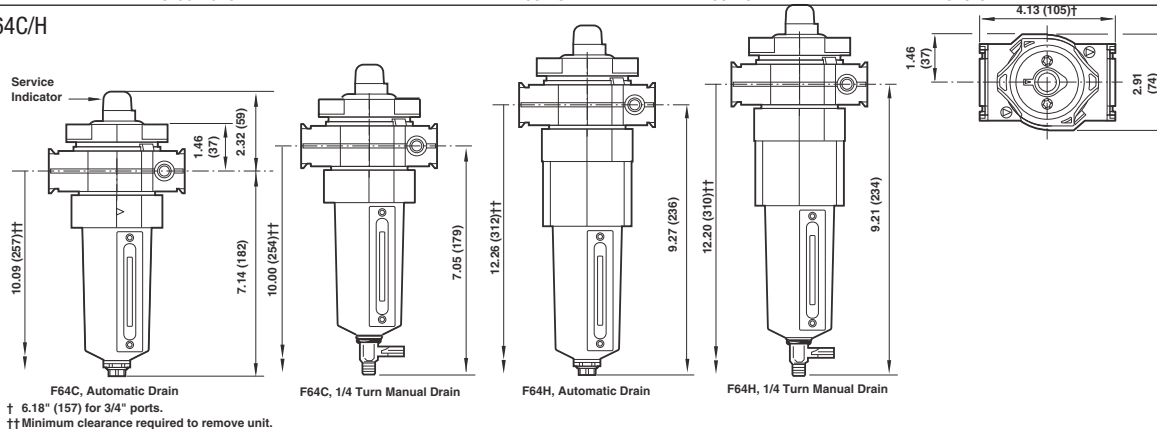
F64C/H, F68C/H

Dimensions in inches (mm)

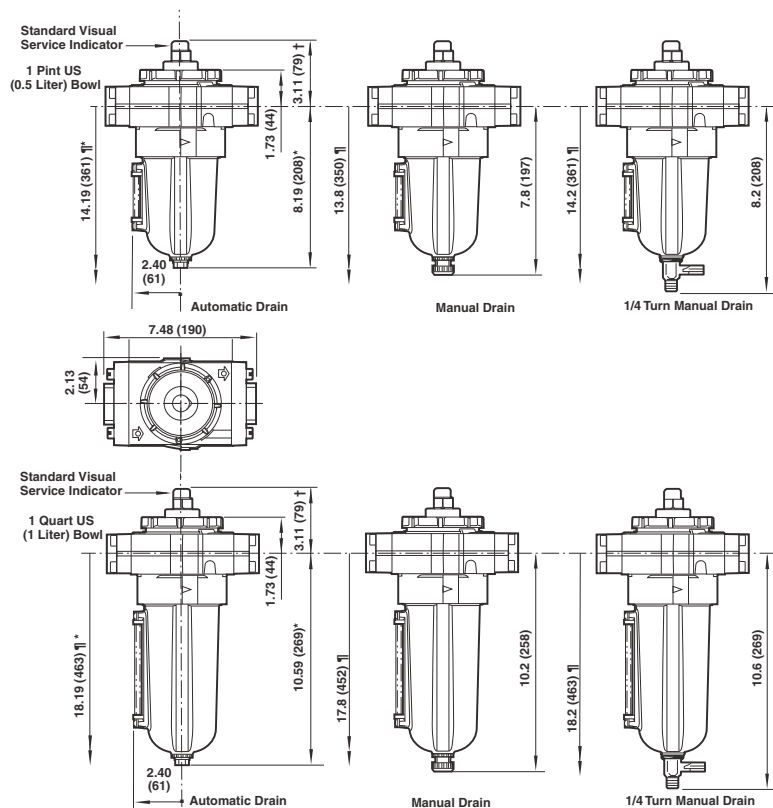
Accessories

	Bracket kit	Bracket kit	3/2 Shut-off valve	Single Yoke	Double Yoke	Elements
F64C/F64H 1/4	—	74504-50	T64E-2AB-P1N	Y64A-2AA-N1N	Y64A-2AA-N2N	F64G (pre-filter) 5 µm 4338-01
3/8	—	74504-50	T64E-3AB-P1N	Y64A-3AA-N1N	Y64A-3AA-N2N	F64C Coalescing 4344-01
1/2	—	74504-50	T64E-4AB-P1N	Y64A-4AA-N1N	Y64A-4AA-N2N	F64H Coalescing 4344-02
3/4	—	74504-50	T64E-6AB-P1N	Y64A-6AA-N1N	Y64A-6AA-N2N	
F68C/F68H 1/2	18-001-979	—	T68E-4AB-B2N	Y68A-4AA-N1N	Y648-4AA-N2N	Standard flow (F68C) 5351-08
3/4	18-001-979	—	T68E-6AB-B2N	Y68A-6AA-N1N	Y648-6AA-N2N	High flow (F68H) 5351-03
1	18-001-979	—	T68E-8AB-B2N	Y68A-8AA-N1N	Y648-8AA-N2N	

F64C/H

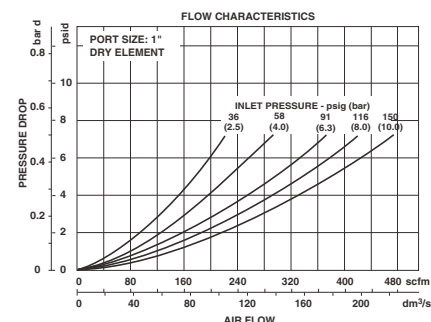
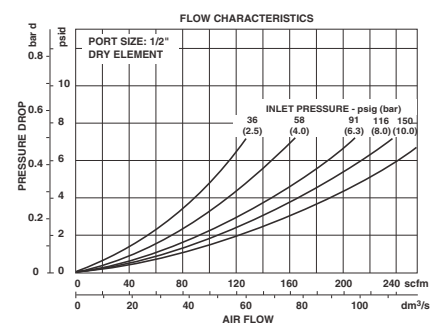


F68C/H



† For optional electrical service life indicator, add 0.02" (5 mm). * Dimension also applies to closed bottom bowl.
†† Minimum clearance required to remove bowl.

F68C/H



Olympian Plus Oil Vapor Removal Filter

F64B/L, F68V/Y

Olympian Plus plug in system

Adsorbing type activated carbon element removes oil vapors and most hydrocarbon odors

Long service life of filter element.
 Minimum life of 400 hours when the required oil removal filter is installed upstream and the filtration temperature is between 70° to 80°F (20° to 26°C).

Oil and dirt contamination in outlet air within ISO 8573-1: Quality Class 1.7.1. F68 V/Y inlet air must be prefiltered with an F68G and F68 C/H

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

250 psig (17 bar)

Guarded transparent bowl:

150 psig (10 bar)

Operating temperature*:

0° to +150°F (-20° to +65°C)

Guarded transparent bowl:

-30° to 125°F (-34° to 50°C)

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

Maximum remaining oil content:

0.01 mg/m³ at +70°F (+20°C) with an inlet concentration of 17 mg/m³.

Materials

Body: F64- Zinc, F68-Aluminum

Yoke: F64- Zinc, F68-Aluminum

Bowl: F64- Zinc, F68-Aluminum

Elastomers: Nitrile

Service Kits:

F64 B/L 4380-21

F68V/Y 4380-302



F64B/L



F68V/Y

Ordering Information

Models listed are with PTF threads, and metal bowl.

Port Size	Model	Maximum flow* scfm (dm ³ /s)	Weight lb (kg)
1/4"	F64B-2AN-ARO	15.0 (7.0)	4.07 (1.83)
1/2"	F64L-4AN-ARO	23.3 (11.0)	5.56 (2.50)
3/4"	F64L-6AN-ARO	23.3 (11.0)	6.40 (2.88)
Standard flow (short element)	F68V-4AN-EMA	53 (25)	5.13 (2.33)
High flow (long element)	F68Y-8AN-ECA	127 (60)	5.70 (2.59)

*Maximum flow at 90 psig (6.3 bar) inlet pressure to maintain stated oil removal performance.

Options selector (F64B/L)

F64★-★★N-★★0			
Body size	Substitute	Bowl	Substitute
Standard flow	B	Metal with liquid level indicator	R
High flow	L	Transparent	T
Port size	Substitute	Drain	Substitute
1/4"	2	Manual	M
3/8"	3	Auto drain	A
1/2"	4		
3/4"	6		
Threads	Substitute		
PTF	A		
ISO G parallel	G		
None	N		

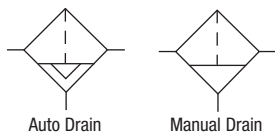
Options selector (F68V/Y)

F68★-★★N-E★A			
Body size	Substitute	Bowl	Substitute
Standard flow	V	1 pint (0.5 liter)	M*
High flow	Y	1 quart (1 liter)	C**
Port size	Substitute		
1/2"	4*		
3/4"	6		
1"	8		
None	N		
Threads	Substitute		
PTF	A		
ISO G parallel	G		
None	N		

Only available with F68V

** Only available with F68Y

ISO Symbols



Auto Drain

Manual Drain

Olympian Plus Oil Vapor Removal Filter

F64C/H, F68V/Y

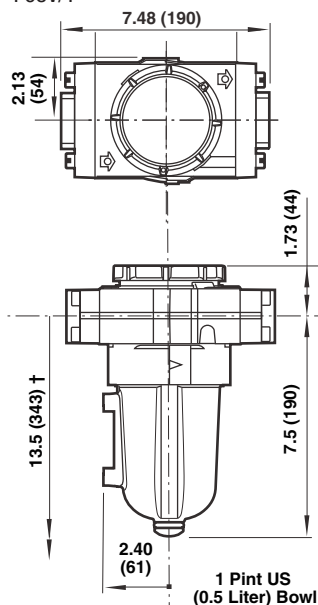
Accessories

Bracket kit Bracket kit 3/2 Shut-off valve Single Yoke Double Yoke Replacement Elements



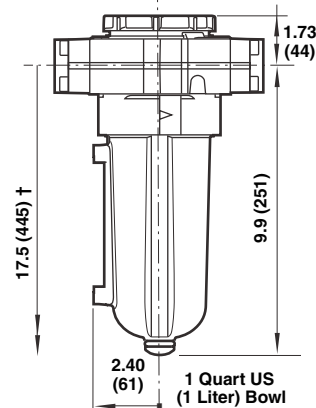
Dimensions in inches (mm)

F68V/Y

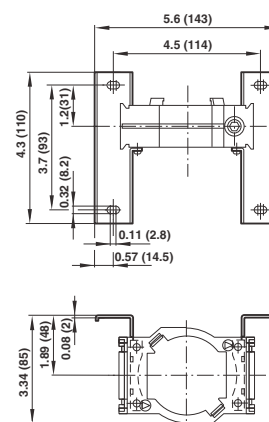


† Minimum clearance required to remove bowl.

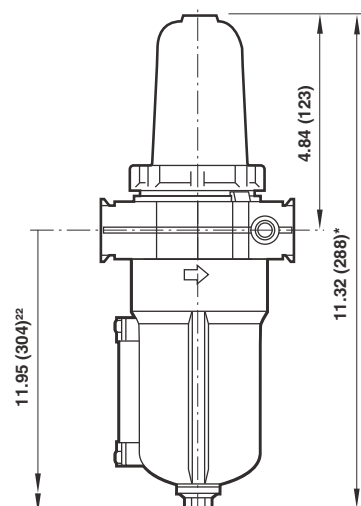
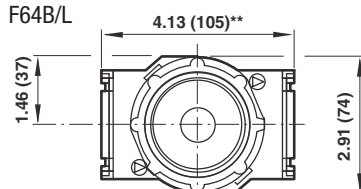
F64B/F64L	1/4	74504-50	T64E-2AB-P1N	Y64A-2AA-N1N	Y64A-2AA-N2N	F64G (pre-filter) 5 µm	4338-01
	3/8	74504-50	T64E-3AB-P1N	Y64A-3AA-N1N	Y64A-3AA-N2N	F64B Coalescing	5350-99
	1/2	74504-50	T64E-4AB-P1N	Y64A-4AA-N1N	Y64A-4AA-N2N	F64L Coalescing	5350-98
	3/4	74504-50	T64E-6AB-P1N	Y64A-6AA-N1N	Y64A-6AA-N2N	Integral pre-filter (F64B/L)	3698-02
						Activated carbon (F64B/L)	5568-01
F68V/Y	1/2	18-001-979	T68E-4AB-B2N	Y68A-4AN-N1N	Y68A-4AN-N2N	Standard Flow (F68V)	665-72
	3/4	18-001-979	T68E-6AB-B2N	Y68A-6AN-N1N	Y68A-6AN-N2N	High Flow (F68Y)	665-70
	1	18-001-979	T68E-8AB-B2N	Y68A-8AN-N1N	Y68A-8AN-N2N		



Mounting bracket (F64B/L)



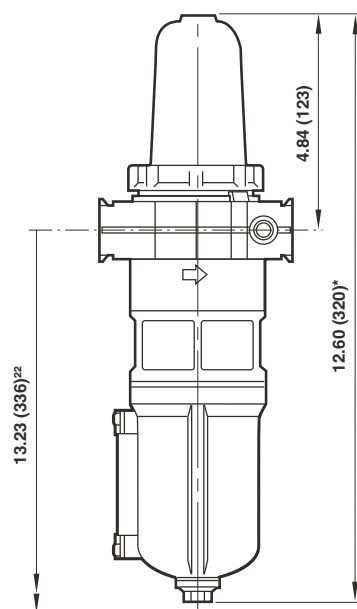
F64B/L



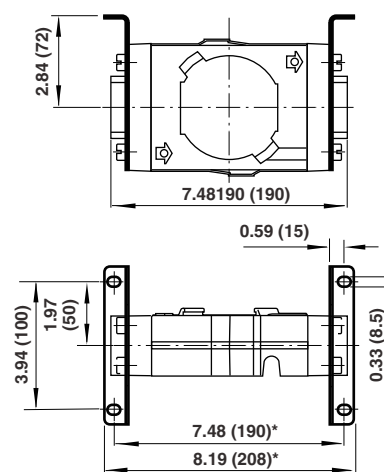
*Automatic drain shown. Subtract 0.3" (mm) for manual drain.

†† Minimum clearance required to remove bowl.

** 6.18 (157 mm) for models with 3/4" ports.



Mounting bracket (F68V/Y)



* Add 0.39" (10) for 1-1/4" ported yokes.

Olympian Plus Filter/Regulators

B64G, B68E/G

Olympian Plus plug in system
 Effective liquid removal and particulate filtration
 Large filter element area provides minimum pressure drop
 High flow unit with large valve and diaphragm
 Push to lock adjusting knob with tamper resistant option

Technical data

Fluid:
 Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

B64G

Maximum pressure
 Guarded transparent bowl:
 150 psig (10 bar)
 Metal bowl: 250 psig (17 bar)
 Operating temperature*
 Guarded transparent bowl:
 -30° to 125°F (-34° to 50°C)
 Metal bowl:
 -30° to 175°F (-34° to 80°C)

B68E/G

Maximum pressure :
 250 psig (17 bar)
 Operating temperature*:
 0° to +175°F (-20° to +80°C)

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

Particle removal:

5, or 40 µm. Within ISO 8573-1, class 3 and Class 5

Materials

B64G
 Body: Zinc
 Bonnet: Aluminum
 Yoke: Zinc
 Metal bowl: Aluminum
 Standard metal bowl prismatic liquid level indicator lens: Grilamid
 Optional metal bowl sight glass: Pyrex
 Optional transparent bowl: Polycarbonate
 Element: Sintered polypropylene
 Elastomers: Nitrile

B68E/G
 Body: Aluminum
 Yoke: Aluminum
 Bonnet: Aluminum
 Adjusting knob: Acetal resin
 Optional T-bar adjusting screw: Steel
 Valve: Aluminum
 Bowl: Aluminum
 Sight glass: Pyrex
 Element: Sintered bronze or polypropylene
 Elastomers: Nitrile



B64G



B68E/G

Ordering Information

Models listed are with PTF threads, metal bowl with automatic drain, and 40 µm element.

Port Size	Model	Flow† scfm (dm³/s)	Weight lb (kg)	Replacement elements
1/2"	B64G-4AK-AD3-RMG	225 (106)	3.69 (1.66)	4338-01 5 µm
1"	B68E-8AK-AU3-RLN	440 (215)	6.20 (2.82)	4338-02 40 µm
1-1/4"	B68E-AAK-AU3-RLN	440 (215)	6.42 (2.92)	1qt 5 µm 5511-01
1-1/2"	B68E-BAK-AU3-RLN	440 (215)	6.07 (2.76)	1qt 40 µm 5511-03

Options selector

B64G-★★★★★-R★★

Port Size	Substitute	Gauge	Substitute
1/4"	2	With	G
3/8"	3	Without	N
1/2"	4		
3/4"	6		
Threads	Substitute	Outlet Pressure Adjustment Range*	Substitute
PTF	A	5 to 60 psig (0.3 to 4 bar)	F
ISO G parallel	G	5 to 150 psig (0.3 to 10 bar)	M
		10 to 250 psig (0.7 to 17 bar)	S**
Adjustment	Substitute	Element	Substitute
Knob	K	5 µm	1
T-bar	T	40 µm	3
Drain	Substitute	Bowl	Substitute
1/4 turn manual	Q	Metal with liquid level indicator	D
Automatic	A	Guarded Transparent	P

* 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.

** Units with 250 psig (17 bar) adjustment range are available only with the T-bar adjustment; therefore substitute T at the 7th digit and S at the 12th position.

Options selector

B68E-★★★★★-U★-R★★

Bowl/Element Type	Substitute	Gauge	Substitute
1 quart (1 liter) bowl w/long element	E	With	G
1 pint (0.5 liter) bowl w/short element	G	Without	N
Port Size	Substitute	Outlet Pressure Adjustment Range*	Substitute
3/4"	6	0 to 60 psig (0 to 4 bar)	F
1"	8	5 to 120 psig (0.4 to 8 bar)	L
1-1/4"	A	10 to 250 psig (0.7 to 17 bar)	S***
1-1/2"	B		
Threads	Substitute	Element	Substitute
PTF	A	5 µm	1
ISO G parallel	G	40 µm	3
No Yoke (N in 5th position)			
1/8 Rc threaded gauge ports	N		
No Yoke (N in 5th position)			
PTF threaded gauge ports	A		
Adjustment	Substitute		
Knob	K		
T-bar	T		
Drain	Substitute		
Automatic	A		
Manual, 1/4 turn	Q		

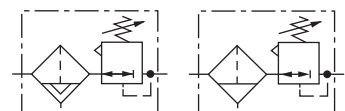
† Only available with B68E

* 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.

** Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) drop from set.

*** Units with 250 psig (17 bar) adjustment range are available only with the T-bar adjustment; therefore substitute T at the 7th digit and S at the 12th position.

ISO Symbols



Automatic Drain Relieving

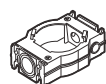
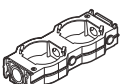
Manual Drain Relieving

Olympian Plus Filter/Regulators

B64G, B68E/G

Dimensions in inches (mm)

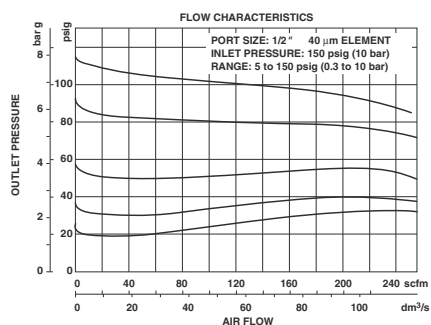
Accessories

	Bracket kit	Bracket kit	Gauge 0 to 160 psig	3/2 Shut-off valve*	Single yoke	Double yoke	Tamper resistant kit	Service Kit
B64G								Relieving 4383-200 Non-relieving 4383-201
		74504-50	18-013-204	T64E-2AB-P1N – G 1/4 T64E-3AB-P1N – G 3/8 T64E-4AB-P1N – G 1/2 T64E-6AB-P1N – G 3/4	Y64A-2AA-N1N Y64A-3AA-N1N Y64A-4AA-N1N Y64A-6AA-N1N	Y64A-2AA-N2N Y64A-3AA-N2N Y64A-4AA-N2N Y64A-6AA-N2N	4355-50 4355-50 4355-50 4355-50	
B68G	18-001-979 – 3/4 18-001-979 – 1 18-001-978 – 1-1/4		18-013-204	T68E-6AB-B2N – G 3/4 T68E-8AB-B2N – G 1 T68E-AAB-B2N – G 1-1/4 T68E-BAB-B2N – G 1-1/4	Y68A-6AN-N1N Y68A-8AN-N1N Y68A-AAN-N1N Y68A-BAN-N1N	Y68A-6AN-N2N Y68A-8AN-N2N Y68A-AAN-N2N Y68A-BAN-N2N	4355-50 4355-50 4355-50 4355-50	Relieving 4383-300 Non-relieving 4383-3201

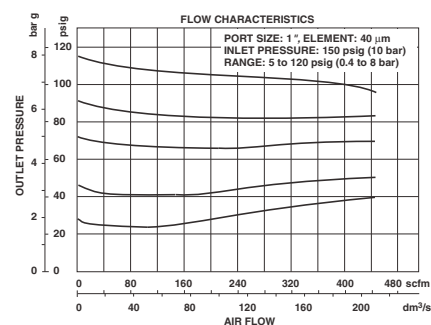
*68 Series uses a ball handle.

Typical Performance Characteristics

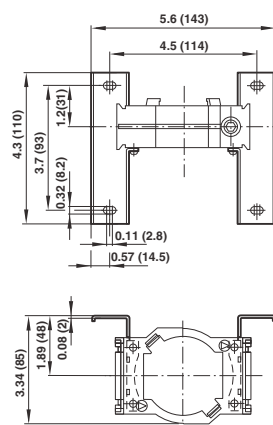
B64G



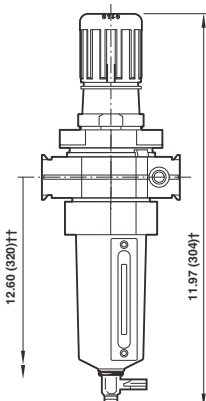
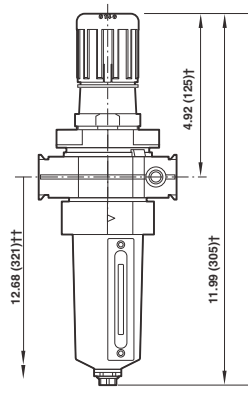
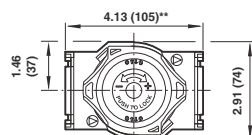
B68E/G



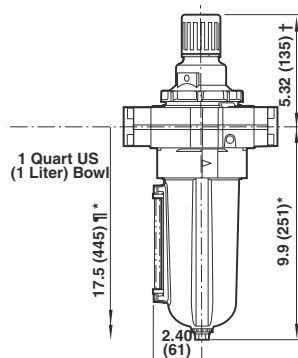
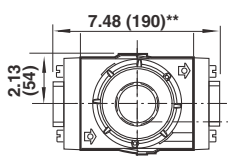
Mounting bracket (B64G)



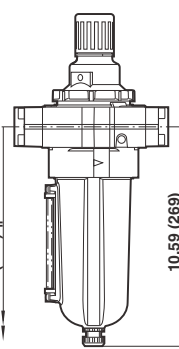
B64G



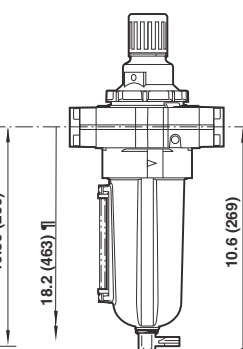
B68E/G



Automatic Drain



Manual Drain



1/4 Turn Manual Drain

** 4.13 (105) for 1/4", 3/8", and 1/2" ported yokes.
6.18" (157) for 3/4" ported yokes.
† Add 1.46 (37) for units with T-handle adjustment.
†† Minimum clearance required to remove unit.
Add 1.46 (37) for units with T-handle adjustment.

† Add 1.46" (37 mm) for unit with T-bar adjustment.
** For 1-1/4" and 1-1/2" ported yokes, add 0.39" (10 mm).

* Dimension also applies to closed bottom bowl.
†† Minimum clearance required to remove bowl.

Olympian Plus Regulators

R64G/R, R68G

Olympian Plus plug in design
 High flow general purpose regulator
 Push to lock adjusting knob with
 tamper resistant option
 Mount in any orientation

Technical data

R64G/R

Maximum pressure:

250 psig (17 bar)

Typical flow at 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set: 254 scfm (120 dm³/s)

Operating temperature*:

-30° to 175°F (-34° to 80°C)

R68G

Maximum pressure:

300 psig (20 bar)

Typical flow at 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set (68): 370 scfm (170 dm³/s)

Operating temperature*:

0° to +175°F (-20° to +80°C)

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

Materials

R64G/R

Body: Zinc

Bonnet: Aluminum

Yoke: Zinc

Elastomers: Nitrile

R68G

Body: Aluminum

Yoke: Aluminum

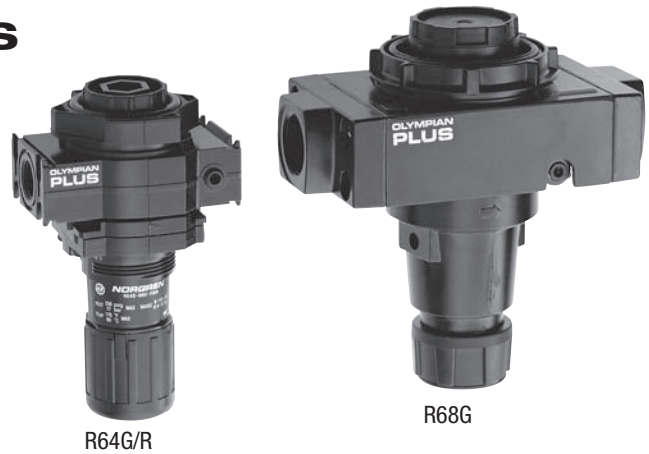
Bonnet: Aluminum

Adjusting knob: Acetal resin

Valve: Aluminum

Optional T-bar adjusting screw: Steel

Elastomers: Nitrile



Ordering Information

Models listed are with PTF threads, knob adjustment, relieving type, with gauge (not shown).

Port Size	Model	Flow† scfm (dm ³ /s)	Weight lb (kg)
1/2"	R64G-4AK-RMG	254 (120)	3.31 (1.49)
1"	R68G-8AK-RLG	360 (170)	4.16 (1.89)
1-1/4"	R68G-AAK-RLG	360 (170)	4.24 (1.93)
1-1/2"	R68G-BAK-RLG	360 (170)	4.33 (1.97)

† Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) droop from set.

Options selector (R64G)

R64G-***-R**		Gauge		Substitute	
Flow type	Substitute	With	G	Without	N
Standard	G				
Port size	Substitute	Outlet pressure adjustment range*	Substitute		
1/4"	2	5 to 60 psig (0.3 to 4 bar)	F		
3/8"	3	5 to 150 psig (0.3 to 10 bar)	M		
1/2"	4	10 to 250 psig (0.7 to 17 bar)	S**		
3/4"	6				
Threads	Substitute				
PTF	A				
ISO G parallel	G				
Adjustment	Substitute				
Knob	K				
T-bar	T				

* 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.

** Units with 250 psig outlet pressure range are available only with the T-bar adjustment; therefore substitute T at the 7th digit and S at the 9th position.

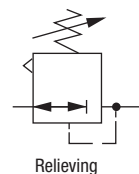
Options selector (R68G)

R68G-***-R**		Gauge		Substitute	
Port size	Substitute	With	G	Without	N
3/4"	6				
1"	8				
1 1/4"	A				
1 1/2"	B				
None	N				
Threads	Substitute	Outlet pressure adjustment range*	Substitute		
PTF	A	0 to 60 psig (0.3 to 4 bar)	F		
ISO G parallel	G	5 to 120 psig (0.4 to 8 bar)	L		
No Yoke (N in 5th position)		10 to 250 psig (0.7 to 17 bar)	S**		
1/8 Rc threaded gauge ports	N				
No Yoke (N in 5th position)					
PTF threaded gauge ports	A				
Adjustment	Substitute				
Knob	K				
T-bar	T				

* 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.

** Units with 250 psig outlet pressure range are available only with the T-bar adjustment; therefore substitute T at the 7th digit and S at the 9th position.

ISO Symbol



Olympian Plus Regulators

R64G/R, R68G

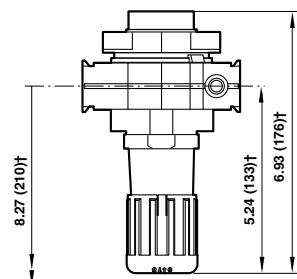
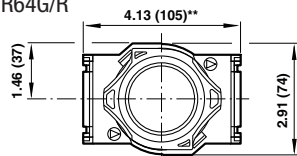
Dimensions in inches (mm)

Accessories

		Bracket kit	Bracket kit	Gauge 0 ... 160 psig*	3/2 Shut-off valve	Single yoke	Double yoke	Panel nut	Tamper resistant kit	Service Kits
R64G	1/4	—	74504-50	18-013-204	T64E-2AB-P1N	Y64A-2AA-N1N	Y64A-2AA-N2N	4348-89	4355-50	Relieving 4381-200
	3/8	—	74504-50	18-013-204	T64E-3AB-P1N	Y64A-3AA-N1N	Y64A-3AA-N2N	4348-89		Non relieving 4381-201
	1/2	—	74504-50	18-013-204	T64E-4AB-P1N	Y64A-4AA-N1N	Y64A-4AA-N2N			
	3/4	—	74504-50	18-013-204	T64E-6AB-P1N	Y64A-6AA-N1N	Y64A-6AA-N2N	4348-89		
R68G	3/4	18-001-979	—	18-013-204	T68E-6AB-B2N	Y68A-6AN-N1N	Y68A-6AN-N2N	—	4355-50	Relieving 4381-300
	1	18-001-979	—	18-013-204	T68E-8AB-B2N	Y68A-8AN-N1N	Y68A-8AN-N2N	—		Non relieving 4381-301
	1-1/4	18-001-978	—	18-013-204	T68E-AAB-B2N	Y68A-AAN-N1N	Y68A-AAN-N2N	—		
	1-1/2			18-013-204	T68E-BAB-B2N	Y68A-BAN-N1N	Y68A-BAN-N2N	—		

* For additional pressures and options see our website.

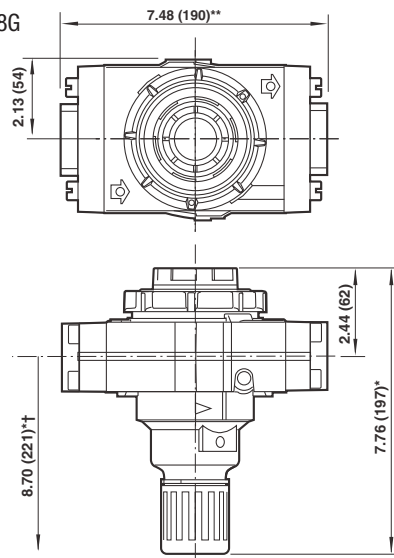
R64G/R



† Reduces by 4 mm with knob in locked position. Add 37 mm for unit with 'T' handle.

** 6.18" (157 mm) for models with 3/4" ports

R68G



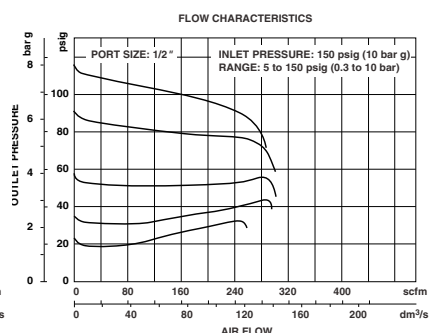
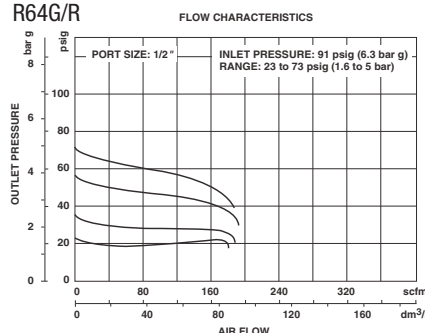
* Add 1.46" (37mm) for unit with T-bar.

** Add 0.39" (10mm) 1-1/4" and 1-1/2" models.

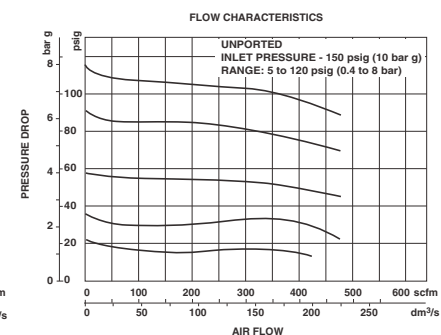
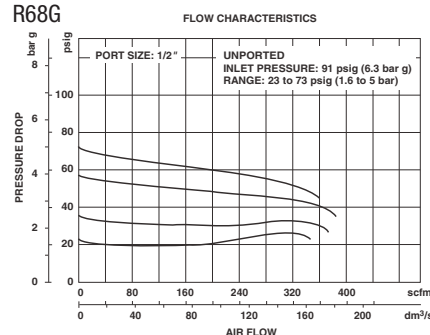
† Minimum clearance required to remove unit.

Typical Performance Characteristics

R64G/R



R68G



Panel mounting hole diameter: 2.06" (52 mm)

Maximum panel thickness: 0.25" (6 mm)

Olympian Plus Lubricators

L64M/C, L68M/C

Olympian Plus plug in design
 High flow general purpose regulator
 Push to lock adjusting knob with
 tamper resistant option
 Mount in any orientation

Technical data

L64M/C

Maximum pressure:

250 psig (17 bar)

Guarded transparent bowl: 150 psig (10 bar)

Operating temperature*:

-30° to 175°F (-34° to 80°C)

Guarded transparent bowl: 0° to 125°F
 (-20° to 50°C)

L68M/C

Maximum pressure:

250 psig (20 bar)

Operating temperature*:

0° to +175°F (-20° to +80°C)

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

Materials:

L64M/C

Body: Zinc

Bowl: Aluminum

Yoke: Zinc

Elastomers: Nitrile

L68M/C

Body: Aluminum

Bowl: Aluminum

Yoke: Aluminum

Adjusting knob: Acetal resin

Elastomers: Nitrile



L64M/C



L68M/C

Ordering Information

Models listed include yoke with PTF threads, manual drain, and metal bowl with liquid level indicator.

Type	Port Size	Model	Flow scfm (dm ³ /s)	Weight lb (kg)	Service Kit
Micro-Fog	1/2"	L64M-4AP-QDN	153 (72)	3.02 (1.37)	4382-200
	1"	L68M-8AP-QUN	424 (200)	4.49 (2.04)	4382-301*
	1-1/4"	L68M-AAP-QUN	424 (200)	4.59 (2.08)	
	1-1/2"	L68M-BAP-QUN	424 (200)	4.67 (2.12)	

* For micro-fog only. For oil-fog order 4382-300

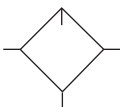
Options selector (L64)

Type	Substitute	Options	Substitute
Oil-fog	C	None	N
Micro-fog	M	Quick fill device	Q
Port size	Substitute	Bowl	Substitute
1/4"	2	7 oz metal with liquid level indicator	D
3/8"	3	7 oz transparent with guard	P
1/2"	4	1 qt long metal bowl with liquid level indicator	A
3/4"	6		
No yoke	N		
Threads	Substitute		
PTF	A		
ISO G parallel	G		
No yoke	N		

Options selector (L68)

Type	Substitute	Options	Substitute
Oil-fog	C	None	N
Micro-fog	M	Quick fill device	Q
Port size	Substitute		
3/4"	6		
1"	8		
1 1/4"	A		
1 1/2"	B		
None	N		
Threads	Substitute		
PTF	A		
ISO G parallel	G		
None	N		

ISO Symbol



Olympian Plus Lubricators

L64M/C, L68M/C

Dimensions in inches (mm)

Accessories

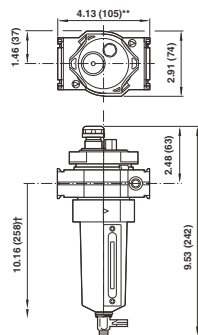
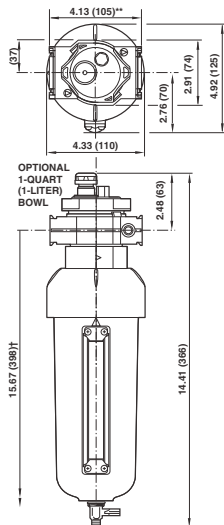
		Bracket kit	Bracket kit		3/2 Shut-off valve	Single yoke	Double yoke	Tamper resistant wire	Quick fill adapter
									
L64	1/4"	—	74504-50	74504-52*	T64E-2AB-P1N	Y64A-2AA-N1N	Y64A-2AA-N2N	2117-01	18-011-024
	3/8"	—	74504-50	74504-52*	T64E-3AB-P1N	Y64A-3AA-N1N	Y64A-3AA-N2N	2117-01	18-011-024
	1/2"	—	74504-50	74504-52*	T64E-4AB-P1N	Y64A-4AA-N1N	Y64A-4AA-N2N	2117-01	18-011-024
	3/4"	—	74504-50	74504-52*	T64E-6AB-P1N	Y64A-6AA-N1N	Y64A-6AA-N2N	2117-01	18-011-024
L68	3/4"	18-001-979	74504-50	74504-52*	T68E-6AB-B2N	Y68A-6AN-N1N	Y68A-6AN-N2N	2117-01	18-011-021
	1"	18-001-979	74504-50	74504-52*	T68E-8AB-B2N	Y68A-8AN-N1N	Y68A-8AN-N2N	2117-01	18-011-021
	1-1/4"	18-001-978	74504-50	74504-52*	T68E-AAB-B2N	Y68A-AAN-N1N	Y68A-AAN-N2N	2117-01	18-011-021
	1-1/2"	—	74504-50	74504-52*	T68E-BAB-B2N	Y68A-BAN-N1N	Y68A-BAN-N2N	2117-01	18-011-021

*To fit 1 liter bowl version.

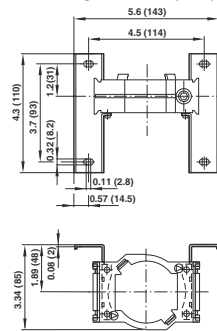
Typical Performance Characteristics

Optional 1 quart US (1 liter) bowl

L64



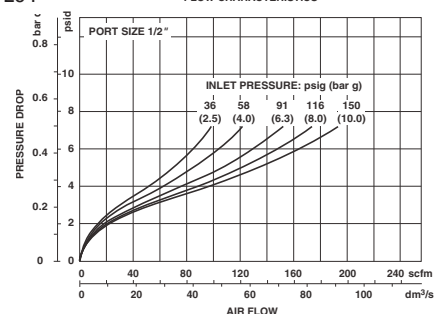
Mounting bracket (L64)



**6.18" (157) for models with 3/4" ports.
† Minimum clearance required to remove unit.

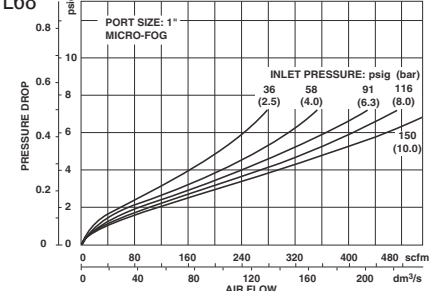
L64

FLOW CHARACTERISTICS



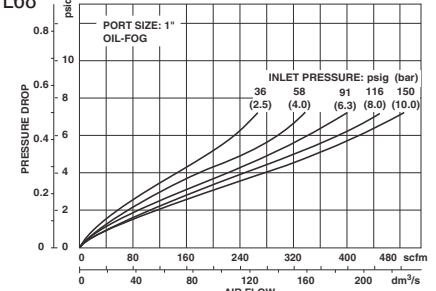
L68

FLOW CHARACTERISTICS



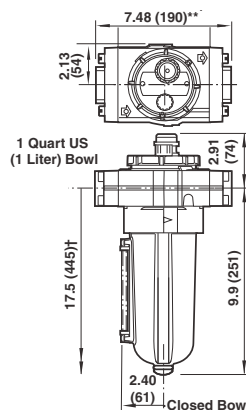
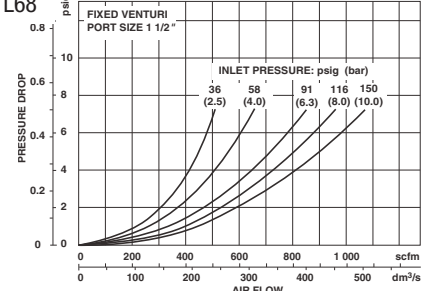
L68

FLOW CHARACTERISTICS

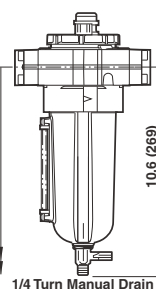
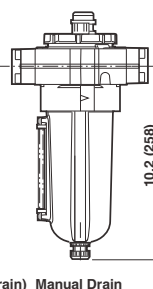


L68

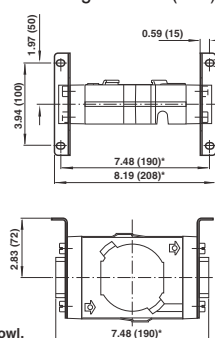
FLOW CHARACTERISTICS



** Add 0.39" (10 mm) for 1-1/4" and 1-1/2" models. † Minimum clearance required to remove bowl.



Mounting bracket (L68)



Olympian Plus Pressure Relief Valves

V64H, V68H

Olympian plug in system

Helps protect compressed air systems from over pressure by retarding excessive pressure build up

Integral pilot design provides superior sensitivity, accuracy, and quick response to over pressure conditions

High relief flow

Threaded relief port for silencer or piped exhaust

Technical data

V64H

Maximum pressure :

250 psig (17 bar)

Operating temperature*:

-30° to 175°F (-34° to 80°C)

V68H

Maximum pressure :

300 psig (20 bar)

Operating temperature*:

0° to +175°F (-20° to +80°C)

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

Materials

V64H

Body: Zinc

Bonnet: Aluminum

Adjusting screw: steel

Yoke: Zinc

Elastomers: Nitrile

V68H

Body: Aluminum

Yoke: Aluminum

Bonnet: Aluminum

Adjusting screw: steel

Valve: Aluminum

Optional T-bar adjusting screw: Steel

Elastomers: Nitrile



V64H



V68H

Ordering Information

Models listed include PTF threads, no gauge.

Port Size	Model	Weight lb (kg)	Service kit
1/2"	V64H-4AD-RMN	3.62 (1.63)	4384-200
1"	V68H-8AD-RMN	4.89 (2.20)	4384-300 (all models)
1-1/4"	V68H-AAD-RMN	4.93 (2.22)	
1-1/2"	V68H-BAD-RMN	5.02 (2.26)	

Options selector (V64H)

V64H-★ ★ D - R ★ ★			
Port size	Substitute	Gauge	Substitute
1/4"	2	With	G
3/8"	3	Without	N
1/2"	4		
3/4"	6		
Threads	Substitute	Outlet pressure adjustment range*	Substitute
PTF	A	5 to 60 psig (0.3 to 4 bar)	F
ISO G parallel	G	15 to 150 psig (1 to 10 bar)	M
No yoke	N**	10 to 250 psig (0.7 to 17 bar)	S

**V64H Gauge ports:
 1/8" PTF with PTF main ports
 1/8" ISO Rc with ISO Rc main ports
 1/8" ISO Rc with ISO G main ports

V64H Exhaust port:
 1/2" PTF with PTF main ports
 1/2" ISO Rc with ISO Rc main ports
 1/2" ISO Rc with ISO G main ports

*Relief valve 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.

Options selector (V68H)

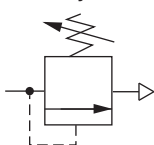
V68H-★ ★ D - R ★ ★			
Port size	Substitute	Gauge	Substitute
3/4"	6	With	G
1"	8	Without	N
1-1/4"	A		
1-1/2"	B		
None	N		
Threads	Substitute	Outlet pressure adjustment range*	Substitute
PTF	A	0 to 60 (0.3 to 4 bar)	F
ISO G parallel	G	15 to 150 (1 to 10 bar)	M
No Yoke	N**	10 to 250 psig (0.7 to 17 bar)	S

**V68H Gauge ports:
 1/8 PTF with PTF yoke ports
 Rc1/8 with ISO Rc yoke ports
 Rc1/8 with ISO G yoke ports

V68H Exhaust port:
 1" PTF with PTF yoke ports
 Rc1 with ISO Rc yoke ports
 Rc1 with ISO G yoke ports

*Relief valve 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.

ISO Symbol



Olympian Plus Pressure Relief Valves

V64H, V68H

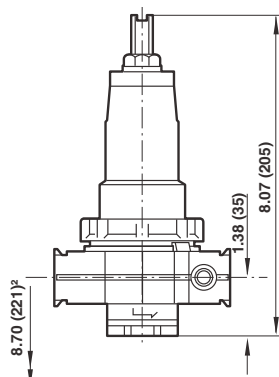
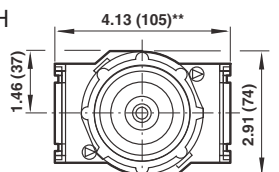
Dimensions in inches (mm)

Accessories

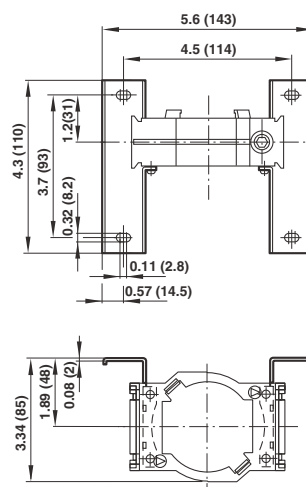
	Size	Bracket kit	Bracket kit	Gauge 0 ... 160 psig	Silencer	Tamper resistant cap	3/2 Shut-off valve
V64H	1/4"						
	3/8"						
	1/2"						
	3/4"						
V68H	3/4"	18-001-979					
	1"	18-001-979					
	1-1/4"	18-001-978					
	1-1/2"	—					

For additional options see website.

V64H

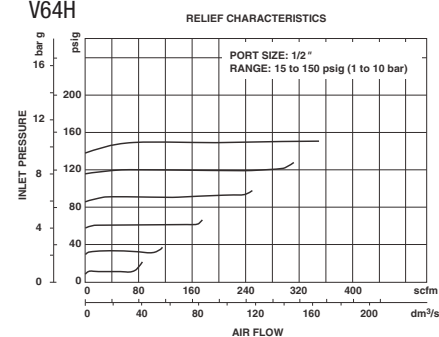


Mounting bracket (V64H)

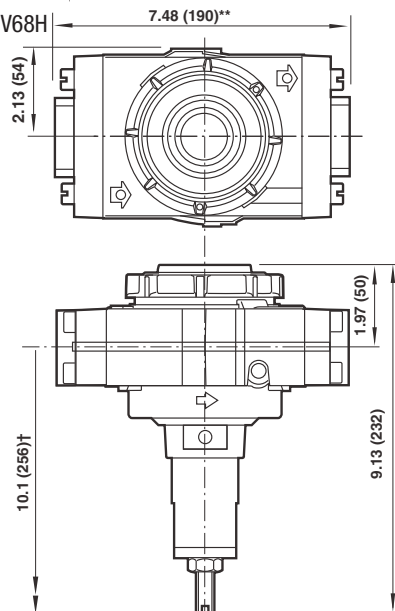


Typical Performance Characteristics

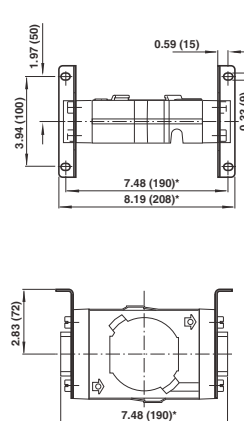
V64H



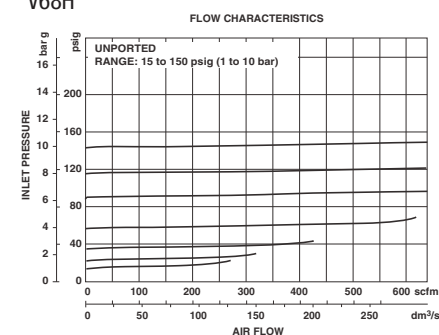
V68H



Mounting bracket (V68H)



V68H



** Add 0.39" (10mm) 1-1/4" and 1-1/2" models.
† Minimum clearance required to remove unit.

Olympian Plus Smooth Start/Exhaust Valves

P64F, P68F

Olympian Plus plug in design controls increase of downstream pressure on start up. Cylinders and other air operated devices are eased into normal operating positions, reducing the possibility of equipment damage and hazards to the user.

3 port/2 position, normally closed, soft start valve with optional manual lockout slide

Blocks inlet air and exhausts downstream air when pilot signal is removed or when the optional manual lockout slide is closed

Optional manual slide can be padlocked in closed position

Solenoid pilot or air pilot operation

Designed primarily for use in start-up and shutdown of equipment, not as a frequently cycling directional control valve. Norgren offers a wide variety of valves designed for frequent cycling and other applications. Please refer to the P72C and P74C valves, and to other Norgren valve catalogs.



P64F



P68F

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure solenoid operated:

Dependent on solenoid rating [must not exceed 250 psig (17 bar)]

Max. pressure pilot operated: 250 psig (17 bar) max.

Minimum operating pressure: 44 psig (3 bar)

Operating temperature solenoid operated:

Dependent on solenoid rating [must be within range 0° to 125°F (-20° to 50°C)] (64)

[must be within range 0° to 175°F (-20° to 80°C)] (68)

Operating temp. pilot operated: 0° to 175°F (-20° to 80°C)

Operating temp. pilot operated: 0° to +175°F (-20° to 80°C)

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

Materials

P64F

Body: Zinc alloy

Intermediate body and top plate: Aluminum

Exhaust bonnet: Zinc alloy

Yoke: Zinc alloy

Elastomers: Synthetic materials

Filter discs: Sintered plastic

Internal components: Brass/steel

P68F

Body: Aluminum

Top plate: Aluminum

Bottom plate: Aluminum

Yoke: Aluminum

Elastomers: Synthetic materials

Filter discs: Sintered plastic

Internal components: Brass/steel

Ordering Information

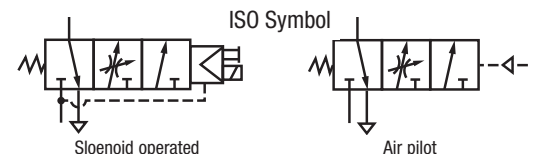
Models listed include PTF threads.

Port Size	Solenoid Operated* Model	Weight lb (kg)	Air Pilot Operated Model	Weight lb (kg)
1/2"	P64F-4AC-PFA	4.4 (2.02)	P64F-4AA-NNN	4.2 (1.91)
3/4"	P64F-6AC-PFA	5.2 (2.38)	P64F-6AA-NNN	5.0 (2.27)
1"	P68F-8AD-PFA	6.51 (2.93)	P68F-8AB-NNN	6.11 (2.75)
1-1/4"	P68F-AAD-PFA	6.44 (2.90)	P68F-AAB-NNN	6.04 (2.72)
1-1/2"	P68F-BAD-PFA	6.49 (2.92)	P68F-BAB-NNN	6.09 (2.74)

Options selector

Series		Substitute	Connectors		Substitute
64		4	3 pin plug with cable grip, no indicator		A
68		8	Without		N
Port size		Substitute	P64F (22 mm solenoid)		
1/4"		2	Nominal power rating Substitute		
3/8"		3	Coil voltage		
1/2"		4	24 V d.c.	2 W	F
3/4"		6	110/120 V, 50/60 Hz	4/2.5 V A	A
1"		8	No solenoid	—	N
1-1/4"		A	P68F (32 mm solenoid)		
1-1/2"		B	Nominal power rating Substitute		
Threads		Substitute	Coil voltage		
PTF		A	24 V d.c.	4.5 W	P
ISO G parallel		G	110/120 V, 50/60 Hz	14/10 V A	J
No Yoke (N in 5th position)		N	No solenoid	—	N
ISO G pilot and exhaust ports			No coil		Z
No Yoke (N in 5th position)		A	Solenoid manual operator		
PTF pilot and exhaust ports			Substitute		
Operator		Substitute	Shrouded push button		P
Air pilot		A	None		N
Air pilot with manual lockout		B			
22 mm miniature solenoid		C			
22 mm miniature solenoid with manual lockout		D			

* 64 series only ** 68 series only



Olympian Plus Smooth Start/Exhaust Valves

P64F, P68F

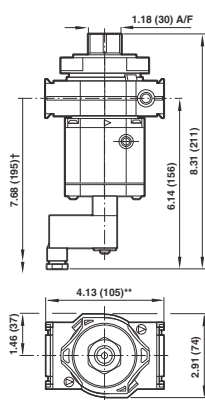
Accessories

	Size	Bracket kit	Bracket kit	3/2 Shut-off valve	Manual shut-off with lockout	Single yoke	Double yoke	Exhaust port silencer	Connector plug with cable gland	
										
P64F	1/4"	74504-50	—	T64E-2AB-P1N	—	Y64A-2AA-N1N	Y64A-2AA-N2N	MB004A	54934-08*	10-50 V a.c./d.c. Indicator type
	3/8"	74504-50	—	T64E-3AB-P1N	Factory fit option only.	Y64A-3AA-N1N	Y64A-3AA-N2N	MB004A	54934-02	110/120 V a.c. Indicator type
	1/2"	74504-50	—	T64E-4AB-P1N	See Options selector	Y64A-4AA-N1N	Y64A-4AA-N2N	MB004A	54934-01	— No indicator
	3/4"	74504-50	—	T64E-6AB-P1N	—	Y64A-6AA-N1N	Y64A-6AA-N2N	MB004A	—	— No indicator
P68F	3/4"	—	18-001-979	T68E-6AB-B2N	Standard	Y68A-6AN-N1N	Y68A-6AN-N2N	MB008A	54934-08*	10-50 V a.c./d.c. Indicator type
	1"	—	18-001-979	T68E-8AB-B2N	Standard	Y68A-8AN-N1N	Y68A-8AN-N2N	MB008A	54934-02	110/120 V a.c. Indicator type
	1 1/4"	—	18-001-978	T68E-AAB-B2N	Standard	Y68A-AAN-N1N	Y68A-AAN-N2N	MB008A	54934-01	— No indicator
	1 1/2"	—	—	T68E-BAB-B2N	Standard	Y68A-BAN-N1N	Y68A-BAN-N2N	MB008A	—	—

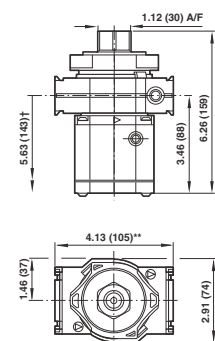
* Reduced light intensity at 12 V.

P64F

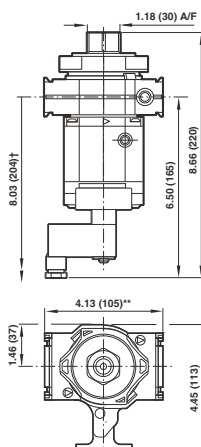
Solenoid operated



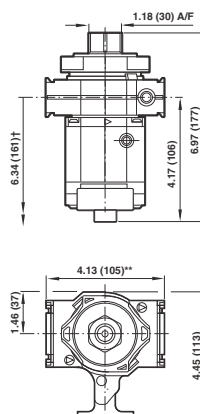
Air pilot operated



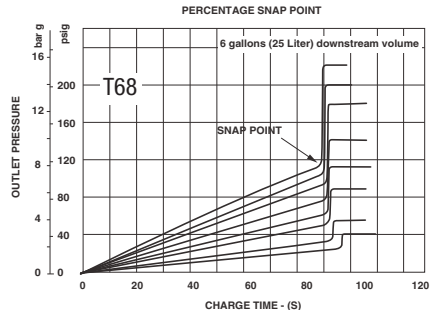
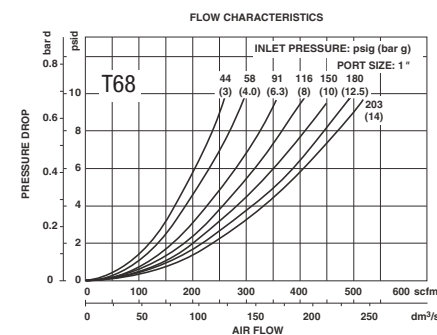
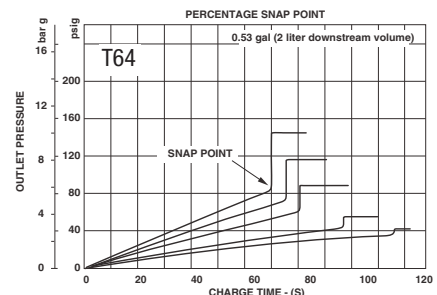
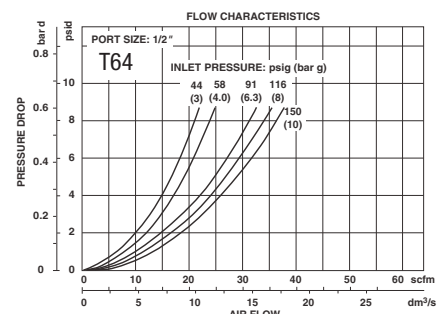
Solenoid operated plus manual shut-off with lockout



Air pilot operated plus manual shut-off with lockout

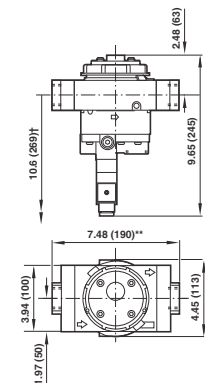


Typical Performance Characteristics

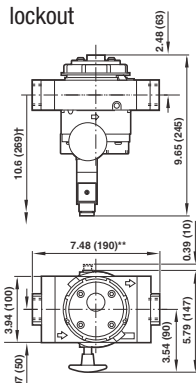


P68F

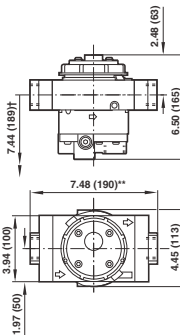
Solenoid operated



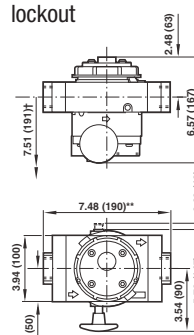
Solenoid operated plus manual shut-off with lockout



Air pilot operated



Air pilot operated plus manual shut-off with lockout



** 7.87" (200 mm) for 1-1/4, 1-1/2 models.

† Minimum clearance required to remove unit.

64 Series lockout valves

1/4" to 3/4" port size

Olympian Plus plug in design

Attaches to yoke, upstream or downstream of air processing units.

T64E 3-port/2-position lockout valves help conform to OSHA Lockout Regulations in USA market.

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

250 psig (17 bar)

Operating temperature*:

0° to 175°F (-20° to 80°C)

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

Cv factor from IN to OUT ports

1/4 port size: 2.6

3/8 port size: 5.5

1/2 port size: 6.7

3/4 port size: 7.5

Exhaust port threads on T64T models:

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

Materials

Body: Zinc

Slide: Acetal plastic

Elastomers: Nitrile



Ordering Information

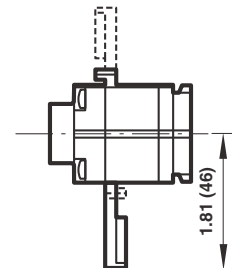
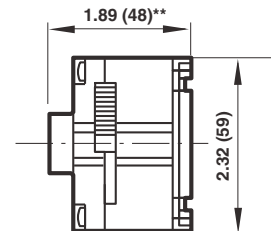
Models listed include PTF threads in the pilot and exhaust ports.

Port Size	2-Port/2-Position	3-Port/2-Position (OSHA)		Weight lbs (kg)
	No exhaust port	Unthreaded exhaust port	Threaded exhaust port	
1/4"	T64B-2AB-P1N	T64E-2AB-P1N	T64T-2AB-P1N	0.89 (0.40)
3/8"	T64B-3AB-P1N	T64E-3AB-P1N	T64T-3AB-P1N	0.88 (0.40)
1/2"	T64B-4AB-P1N	T64E-4AB-P1N	T64T-4AB-P1N	0.84 (0.38)
3/4"	T64B-6AB-P1N	T64E-6AB-P1N	T64T-6AB-P1N	0.84 (0.38)

Service Kits

Type	Part Number
T64B (red slide)	4384-210
T64E (yellow slide)	4384-211
T64T (red slide)	4384-210

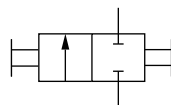
Service kit includes seals and slide.



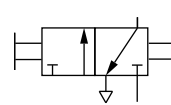
** Models with 3/4" ports

All Dimensions in Inches (mm)

ISO Symbols



2-Port/2-Position



3-Port/2-Position

T68

Olympian Plus T68 Shut-off & Lockout Valves

3/4", 1", 1-1/4", 1-1/2" Port Sizes



Olympian plug in system

2-port/2-position and 3-port/2-position shut-off valves

Can be locked in open or closed position

T68E 3-port/2-position lockout valves help conform to OSHA Lockout Regulations in USA market. Exhaust outlet is not tapped.

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

250 psig (17 bar)

Operating temperature*:

0° to +175°F (-20° to +80°C)

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

Cv factor:

IN to OUT port: 27.5

OUT to EXHAUST port: 0.16

Exhaust port threads on T68H models: 1/4"

Materials:

Body: Aluminum

Handle: Zinc

Seals: Nitrile

Ball: Brass

Ordering Information

Models listed are with PTF threads.

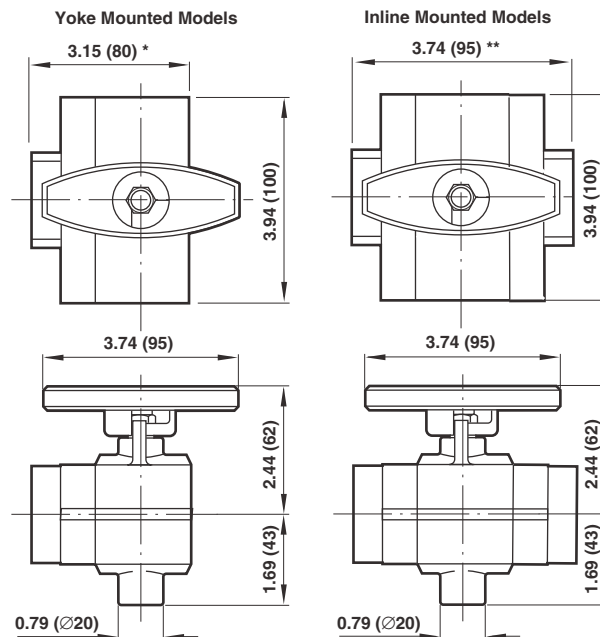
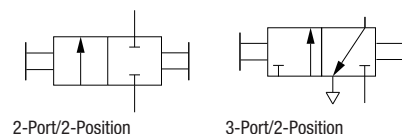
Port Size	3-Port/2-Position (OSHA)		2-Port/2-Position	
	Unthreaded exhaust port	Weight lbs (kg)	No exhaust port	Weight lbs (kg)
3/4"	T68E-6AB-B2N	2.21 (1.00)	T68A-6AB-B2N	2.21 (1.00)
1"	T68E-8AB-B2N	2.12 (0.96)	T68A-8AB-B2N	1.92 (0.87)
1-1/4"	T68E-AAB-B2N	2.07 (0.94)	T68A-AAB-B2N	2.21 (1.00)
1-1/2"	T68E-BAB-B2N	2.16 (0.98)	T68A-BAB-B2N	2.16 (0.98)

Service Kits

Item	Part Number
Service kit	4384-300

Service kit includes, valve spring, slip ring, valve assembly, diaphragm assembly and necessary seals and 'o' rings.

ISO Symbols



* 3.35" (85 mm) for 1-1/2" ported models.

** 4.13" (105 mm) for 1-1/2" ported models.

Dimensions in inches (mm)

PTH Filter/Regulator-Lubricator Combination Units

07 Series

Compact design

Filter removes liquids and solid particles down to 5 µm

Push to lock adjusting knob with tamper resistant option

Micro-Fog lubricator provides air line lubrication to one or more air driven tools or other devices

Nearly constant oil density output with varying air flow

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure

Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

Operating temperature*

Transparent bowl: 0° to 125°F (-20° to 50°C)

Metal bowl: 0° to 150°F (-20° to 65°C)

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

Typical flow at 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set:

1/8" ports: 10 scfm (5 dm³/s)

1/4" ports: 14 scfm (7 dm³/s)

Drain connection:

1/8" male pipe

Filter/Regulator

Particle removal:

5 µm or 40 µm. Within ISO 8573-1, Class 3 and Class 5

Gauge ports:

1/8" PTF with PTF main ports

1/8" ISO Rc with ISO Rc main ports

1/8" ISO Rc with ISO G main ports

Automatic drain operation:

Spitter type drain operates momentarily when a rapid change in air flow occurs or when the supply pressure is reduced.

Lubricator

Start point (i.e., minimum flow required for lubricator operation): 0.5 scfm (0.24 dm³/s) at 90 psig (6.3 bar) inlet pressure

Nominal bowl capacity:

1 fluid ounce (31 ml)

Materials



Ordering Information

Models listed include PTF threads, transparent bowls, filter/regulator with relieving diaphragm, automatic drain, 5 µm element, 5 to 100 psig (0.3 to 7 bar) outlet pressure adjustment range*, gauge, and microfog lubricator.

Port Size	Model Number	Weight lbs (kg)
1/8"	PTH-100-A1AA	0.87 (40)
1/4"	PTH-200-A1AA	0.87 (40)

* 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.

Bodies: Zinc

Filter/Regulator bonnet: Acetal

Filter/Regulator valve seat: Acetal

Bowls

Transparent: Polycarbonate

Metal: Zinc

Lubricator sight-feed dome: Transparent nylon

Filter element: Sintered polypropylene

Elastomers: Nitrile

PTH Filter/Regulator-Lubricator Combination Units

07 Series

Alternative Models

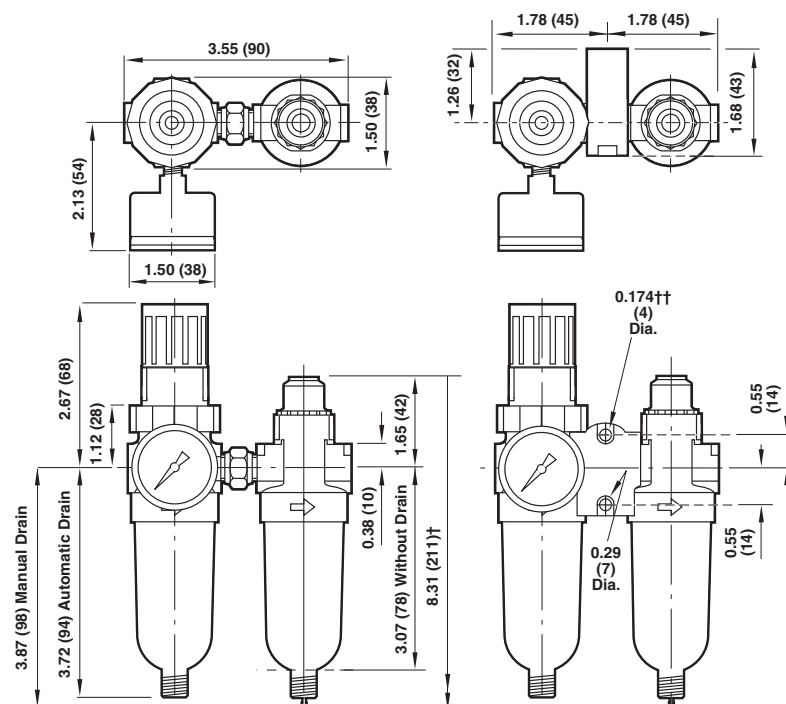
		PTH-★ ★ ★ - ★ ★ ★ A	
Port Size	Substitute		
1/8"	1		
1/4"	2		
Outlet Pressure			
Filter/Regulator	Adjustment Range*	Relief	
Bowl	bar	psig	Type Gauge Substitute
Transparent	5 to 100	0.3 to 7	Relieving With 00
Transparent	5 to 100	0.3 to 7	Relieving Without 01
Metal / no sight glass	5 to 100	0.3 to 7	Relieving With 40
Metal / no sight glass	5 to 100	0.3 to 7	Relieving Without 41

Lubricator Reservoir	Substitute
Transparent with drain	A
Metal with drain	M

Filter/Regulator Element	Substitute
5 µm	1
40 µm	3

Filter/Regulator Drain	Substitute
Automatic	A
Manual	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.



† Minimum distance required to remove bowl
†† Mounting holes

All Dimensions in Inches (mm)

Service Kits

Item	Type	Part number
Service kits,	relieving, 5 µm element	3820-02
filter/regulator	non relieving, 5 µm element	3820-01
Service kit, lubricator		3795-03
Replacement drains	Manual	773-03
	Automatic	3654-02
Replacement wall bracket for PTH unit	Integral 2 piece	6700-30

Filter/regulator service kit contains slip ring, diaphragm, valve seat with o-ring, valve, valve spring, element, element gasket, and bowl o-ring.

Lubricator service kit contains sight-feed dome seal, cartridge o-ring, and bowl o-ring.

F07

Miniature Series 07 General Purpose Filter

1/8" and 1/4" Port Sizes

Compact design

Protects air operated devices by removing liquid and solid contaminants

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

Operating temperature:*

Transparent bowl:

-30° to 125°F (-34° to 50°C)

Metal bowl:

-30° to 175°F (-34° to 80°C)

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

Particle removal:

5 µm or 40 µm filter element

Air quality:

Within ISO 8573-1, Class 3 and Class 5 (particulates)

Drain connection:

1/8" male pipe thread

Materials

Body: zinc

Transparent bowl: Polycarbonate

Metal bowl: Zinc (without sight glass)

Element: sintered polypropylene

Elastomers: neoprene & nitrile



Ordering Information

Models listed include PTF threads, automatic drain, transparent bowl and 5 µm element.

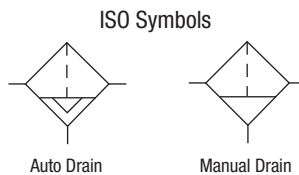
Port Size	Model Numbers	Flow scfm (dm ³ /s) *	Weight lbs (kg)	Replacement elements	Service kit**
1/8"	F07 100 A1TA	19 (9)	0.28 (0.13)	3652-17 (5µm)	3652-17
1/4"	F07 200 A1TA	24 (11.5)	0.28 (0.13)	3652-18 (40µm)	3652-18

* Approximate flow at 90 psig (6.3 bar) inlet pressure and 5 psig (0.35 bar) pressure drop.

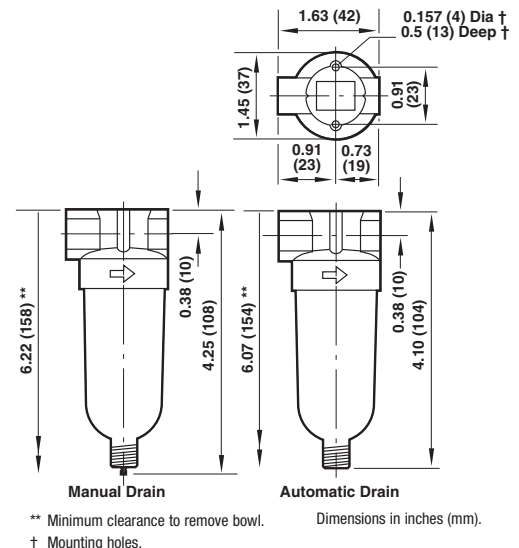
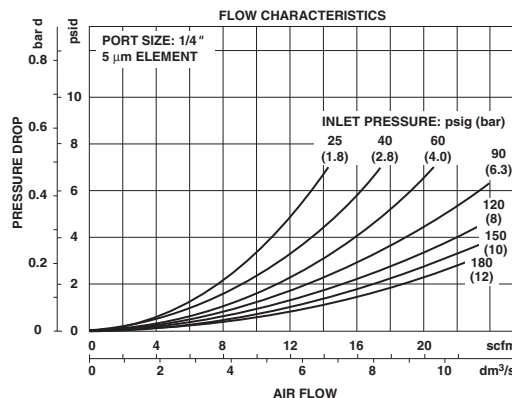
** Service kit includes element, element gasket, and bowl o-ring.

Alternative Models

Port Size	Substitute	Threads	Substitute	Bowl	Substitute	Element	Substitute	Drain	Substitute
1/8"	1	PTF	A	Transparent	T	5 µm	1	Automatic	A
1/4"	2	ISO G parallel	G	Metal	M	40 µm	3	Manual	M



Typical Performance Characteristics

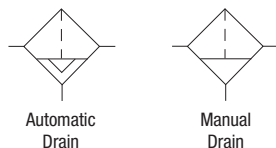


F39

Oil removal (Coalescing) Filter

1/8" and 1/4" Port Sizes

ISO Symbols



Compact design

High efficiency oil and particle removal

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

Operating temperature:*

Transparent bowl:

-30° to 125°F (-34° to 50°C)

Metal bowl:

-30° to 150°F (-34° to 65°C)

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

Oil aerosol removal:

Down to 0.01 µm

Air quality:

Within ISO 8573-1, Class 1 (particulates) and Class 2 (oil content)

Maximum remaining oil content of air leaving the filter: 0.01ppm at 70°F (21°C) with an inlet oil concentration of 17 ppm.

Maximum flow with 90 psig (6.3 bar) inlet pressure†:

1/8 ports, 6.0 scfm (2.8 dm³/s)

1/4 ports, 6.4 scfm (3 dm³/s)

† Maximum flow to maintain stated oil removal performance.

Nominal bowl size:

1 fluid ounce (31 ml)

Drain connection:

1/8" male pipe thread

Automatic drain operation:

Spitter type drain operates momentarily when a rapid change in air flow occurs or when the supply pressure is reduced.

Materials

Body: Zinc

Bowl: Transparent: Polycarbonate

Metal: Zinc

Element: Synthetic fiber and polyurethane foam

Elastomers: Neoprene & nitrile

Ordering Information

Models listed include PTF threads, automatic drain and transparent bowl.

Port Size	Model	Saturated Flow*	Dry Flow	Weight	Element
Size	Numbers	scfm (dm³/s)	scfm (dm³/s)	lbs (kg)	Kit**
1/8"	F39 100 A0TA	6.0 (2.8)	11.2 (5.3)	0.28 (0.13)	4141-10
1/4"	F39 200 A0TA	6.4 (3.0)	12.2 (5.8)	0.28 (0.13)	4141-10

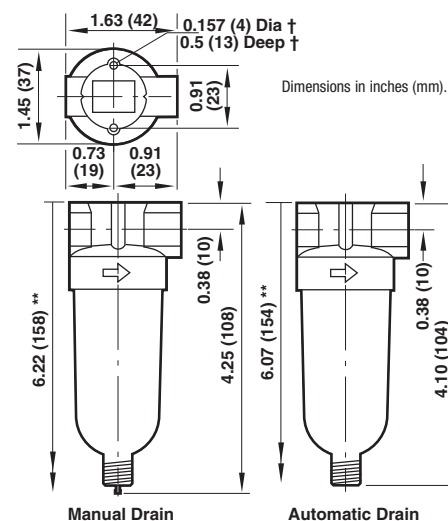
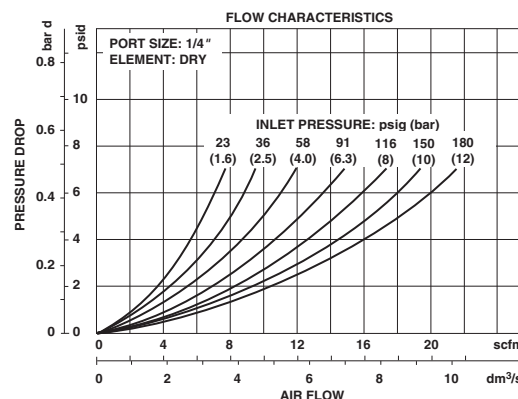
* Maximum flow at 90 psig (6.3 bar) inlet pressure to maintain stated oil removal performance.

** Includes element and O-rings

Alternative Models

Port Size	Substitute	Threads	Substitute	Bowl	Substitute	Drain	Substitute
1/8"	1	PTF	A	Transparent	T	Automatic	A
1/4"	2	ISO G parallel	G	Metal	M	Manual	M

Typical Performance Characteristics



** Minimum clearance to remove bowl.

† Mounting holes.

Miniature General Purpose Regulators

R07, R46

R07 General purpose

Snap action knob locks pressure setting when pushed in

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

R46 Non-repairable

Wrench flats for easy installation

Relieving piston design allows reduction of downstream pressure when the system is dead-ended

Choice of left to right or right to left flow

Technical data

R07

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

300 psig (20 bar)

Operating temperature:

-34° to 150°F (-35° to 65°C) *

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

R46

Fluid:

Compressed air

Maximum pressure:

250 psig (17 bar)

Operating temperature*:

-30° to 150°F (-34° to 65°C)

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

Materials

R07

Body: zinc

Bonnet: acetal

Knob: Acetal

Valve seat: acetal

Elastomers: nitrile

R46

Body: zinc

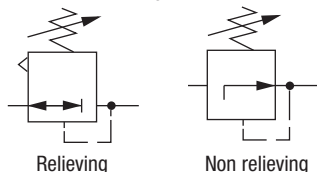
Knob: nylon

Valve: nitrile compound

Valve seat: acetal

Elastomers: nitrile

ISO Symbols



R07



R46

Ordering Information

Port Size	Model	Flow† scfm (dm3/s)	Weight lb (kg)
1/8"	R07 100 RGKA	14 (6.5)	0.31 (0.19)
1/4"	R07 200 RGKA	15 (7)	0.31 (0.19)
1/4"	R46 200 RGLA	13 (6)	0.2 (0.09)

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

† Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and 15 psig (1 bar) droop from set.

Alternative Models

		R07 ★00 ★★ ★★ ★★		
Port Size	Substitute		Threads	Substitute
1/8"	1		PTF	A
1/4"	2		ISO G parallel	G
Diaphragm	Substitute		Outlet Pressure	
Relieving	R		Adjustment Ranges*	Substitute
Non relieving	N		1 to 10 psig (0.1 to 0.7 bar)	A
			5 to 50 psig (0.3 to 3.5 bar)	E
			5 to 100 psig (0.3 to 7 bar)	K
			5 to 125 psig (0.3 to 8.6 bar)	L
Gauges	Substitute			
With	G			
Without	N			

		R46-★★★-R★★★		
Port Size	Substitute		Threads	Substitute
1/4"	2		PTF	A
			ISO G parallel	G
Flow Direction With Knob Up and Gauge Visible	Substitute		Outlet Pressure	
Left to Right	00		Adjustment Ranges*	Substitute
Right to Left	02		5 to 50 psig (0.3 to 3.5 bar)	E
			5 to 125 psig (0.3 to 8.5 bar)	L
			5 to 150 psig (0.3 to 10 bar)	M
Gauges	Substitute			
With	G			
Without	N			

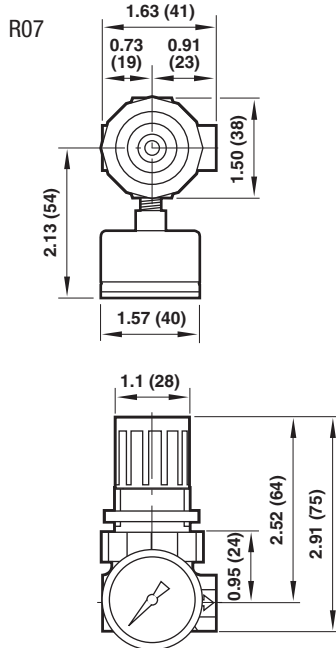
* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

Miniature General Purpose Regulators

R07, R46

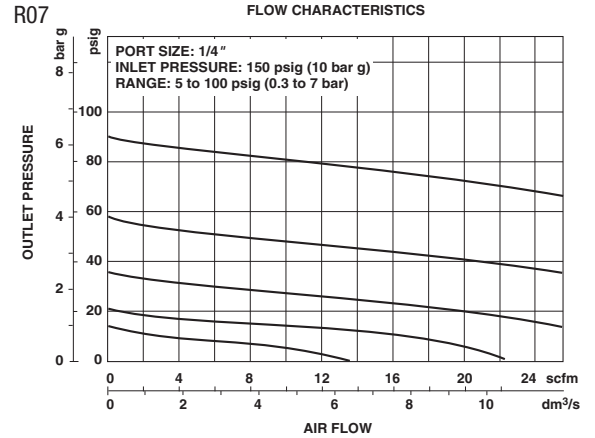
Dimensions in inches (mm).

Panel mounting hole diameter 1.19" (30 mm)
Maximum panel thickness 0.25" (6 mm)



All Dimensions in Inches (mm)

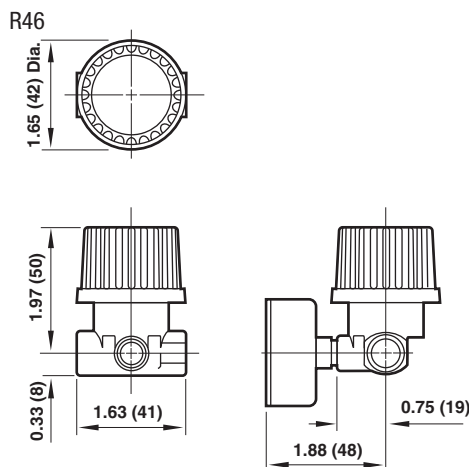
Typical Performance Characteristics



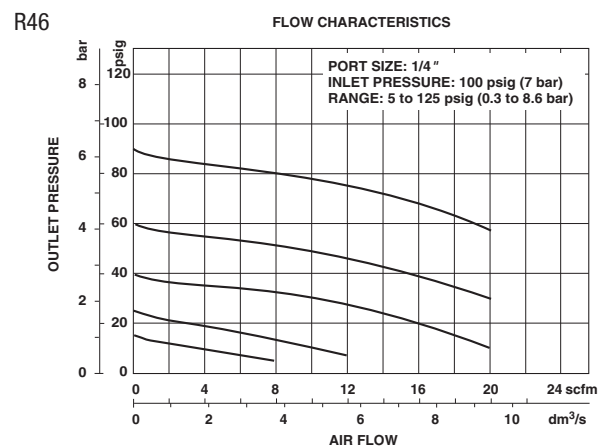
R07 Service Kits

Item	Type	Part number
Service kit	Relieving	3407-02
	Non relieving	3407-01

Service kit includes slip ring, diaphragm, standard valve seat with o-ring, valve, valve spring.



Typical Performance Characteristics



Miniature Filter/Regulators

B07 General purpose, and B39 Oil removal (coalescing) filter/regulators

Full flow gauge ports
High efficiency oil and particle removal
Excellent flow and regulation characteristics

Technical data

B07 Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure

Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

Particle removal:

5µm

Operating temperature*

Transparent bowl:

30° to 125°F (-34° to 50°C)

Metal bowl:

-30° to 150°F (-34° to 65°C)

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

B39

Fluid:

Compressed air

Maximum pressure

Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

Aerosol oil removal:

Down to 0.01 µm

Operating temperature*

Transparent bowl:

-30° to 125°F (-34° to 50°C)

Metal bowl:

-30° to 150°F (-34° to 65°C)

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

Materials

B07

Body: zinc

Bonnet: acetal

Valve seat: acetal

Transparent bowl: polycarbonate

Metal: zinc

Element: sintered polypropylene

Elastomers: nitrile

B39

Body: zinc

Bonnet: acetal

Valve: brass/nitrile

Valve seat: acetal

Transparent bowl: Polycarbonate

Metal: zinc

Element: synthetic fiber and polyurethane foam

Elastomers: nitrile



B07

B39

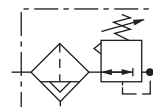
Ordering Information

Models listed include PTF threads, transparent bowl, relieving diaphragm, gauge, automatic drain, 5 to 100 psig (0.3 to 7 bar) outlet pressure adjustment range*.

Port Size	Model Number	Flow scfm (dm3/s)	Weight lbs (kg)	Service kit
1/8"	B07 102 A1KA	13 (6.2 dm3/s)	0.57 (0.26)	3820-02
1/4"	B07 202 A1KA	14 (6.5 dm3/s)	0.57 (0.26)	3820-02
1/8"	B39 102 A0KA	4.0 (1.9)	0.57 (0.26)	3407-66
1/4"	B39 202 A0KA	4.0 (1.9)	0.57 (0.26)	3407-66

*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.

ISO Symbols

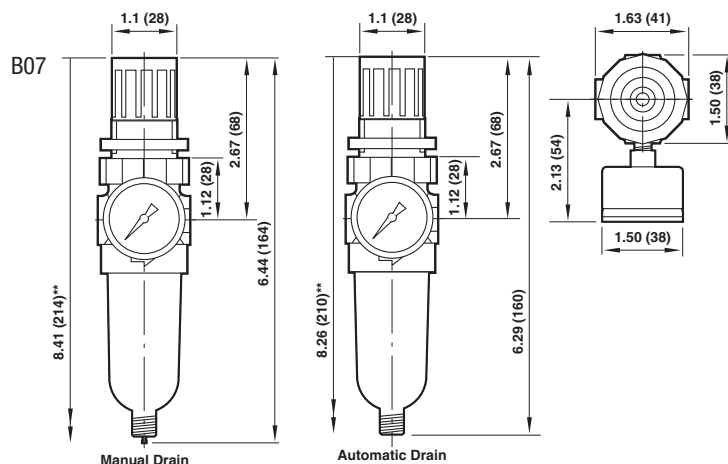


Automatic Drain
Relieving

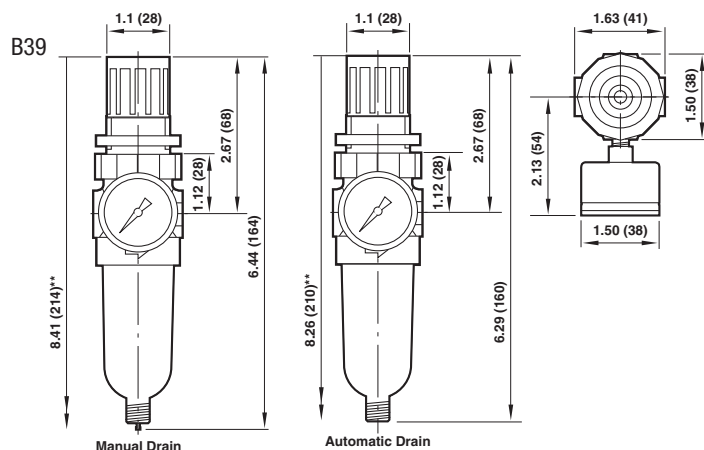
Miniature Filter/Regulators

B07, and B39

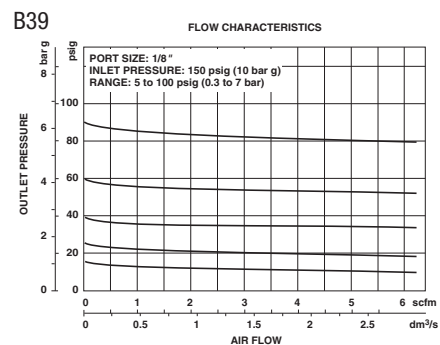
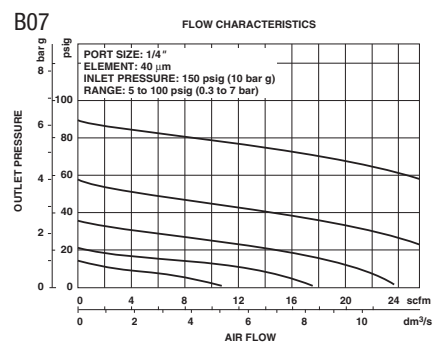
Dimensions in inches (mm).



** Minimum clearance to remove bowl
Panel mounting hole diameter 1.19" (30 mm)
Panel thickness: 0.25" (6 mm)



Typical Performance Characteristics



Miniature Micro-Fog Lubricator

L07 Lubricators

All around (360°) visibility of the sight-feed dome simplifies installation and adjustment

Screw-on bowl reduces maintenance time

Can be disassembled without the use of tools or removal from the air line

Technical data

L07

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure

Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

Operating temperature*

Transparent bowl: 0° to 125°F (-20° to 50°C)

Metal bowl: 0° to 175°F (-20° to 80°C)

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

Start point (i.e. minimum flow required for lubricator operation):

0.5 scfm (0.24 dm³/s) at 90 psig (6.3 bar) inlet pressure

Nominal bowl size:

1 fluid ounce (31 ml)

Drain connection:

Will fit 1/8-27 and 1/8-28 pipe thread

Materials

Body: Zinc

Bowl

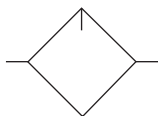
Transparent: Polycarbonate

Metal: Zinc

Sight-feed dome: Transparent nylon

Elastomers: Neoprene & nitrile

ISO Symbol



L07 with drain



Ordering Information

Models listed have PTF threads.

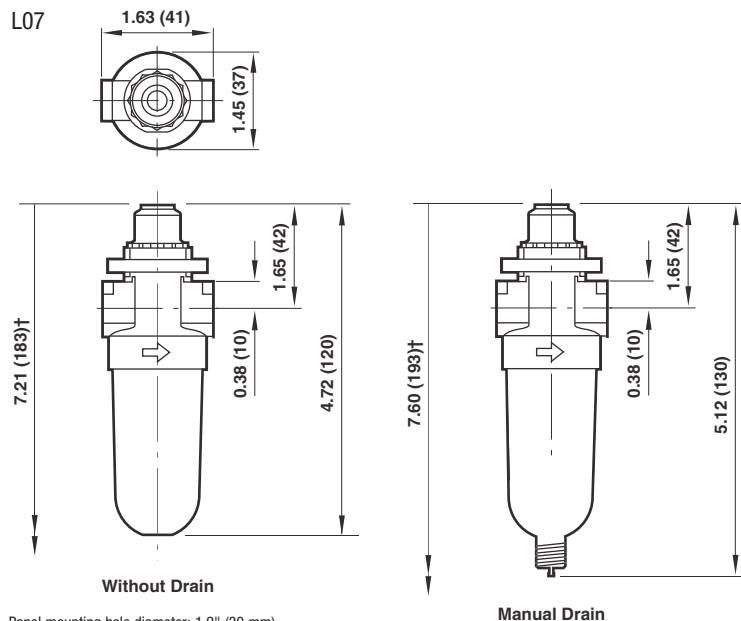
Port Size	Model Numbers	Flow scfm (dm ³ /s)*	Weight lbs (kg)
1/8"	L07-100-MPAA	10 (5.0 dm ³ /s)	0.28 (0.13)
1/4"	L07-200-MPAA	14 (6.7 dm ³ /s)	0.28 (0.13)

* Approximate flow at 90 psig (6.3 bar) inlet pressure and 7 psig (0.5 bar) pressure drop.

Miniature Micro-Fog Lubricator

L07 Lubricators

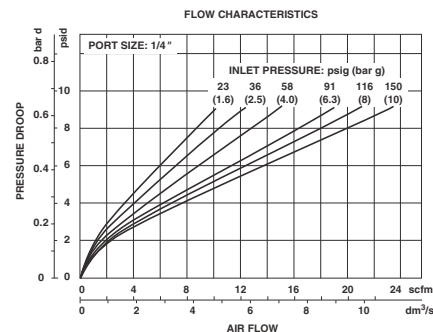
Dimensions in inches (mm)



Panel mounting hole diameter: 1.9" (30 mm)
Maximum panel thickness: 0.25" (6 mm)
† Minimum clearance to remove bowl.

Typical Performance Characteristics

L07



L07 Service Kits

Item	Type	Part number
Service kit	Seal and o-ring	3795-03
Replacement drain	Manual	773-03

Service kit includes o-ring, seal, and bowl o-ring.

F17

17 Series General Purpose Filter

3/4", 1", 1-1/4", 1-1/2" Port Sizes

Screw-on bowl reduces maintenance time

Can be serviced without the use of tools or removal from the air line

Optional visual service indicator

Optional electrical service indicator also available

Protects air operated devices by removing liquid and solid contaminants

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

250 psig (17 bar)

Operating temperature:*

-30° to 175°F (-34° to 80°C)

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

Oil aerosol removal:

5 µm, or 40 µm filter element

Air quality:

Within ISO 8573-1, Class 3 and Class 5 (particulates)

Nominal bowl size:

1 quart (1 liter)

Manual drain connection:

Will fit 1/8-27 and 1/8-28 male pipe thread.

Automatic drain connection:

Will fit 1/8-27 and 1/8-28 female pipe thread.

Materials

Body: Aluminum

Bowl: Aluminum

Bowl sight glass: Pyrex

Elastomers: Neoprene and nitrile



Ordering Information

Models listed include automatic drain, 40 µm element, metal bowl with sight glass, and PTF threads.

Port Size	Model Numbers	Flow scfm (dm³/s)*	Weight lbs (kg)	Filter elements**	Service kit††
3/4"	F17 600 A3DA	325 (153)	4.26 (1.93)	5311-01 (5µm)	5578 05 (all filters)
1"	F17 800 A3DA	425 (201)	4.15 (1.88)	5311-03 (40µm)	
1-1/4"	F17 A00 A3DA	425 (201)	4.39 (1.99)		
1-1/2"	F17 B00 A3DA	425 (201)	4.30 (1.95)		

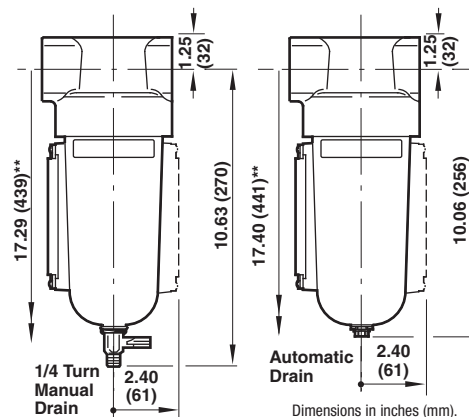
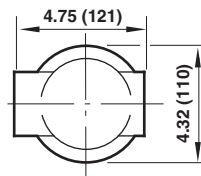
* Typical flow with a 40 µm element at 90 psig (6.3 bar) inlet pressure and 5 psig (0.35 bar) pressure drop.

** Filter elements are sintered bronze

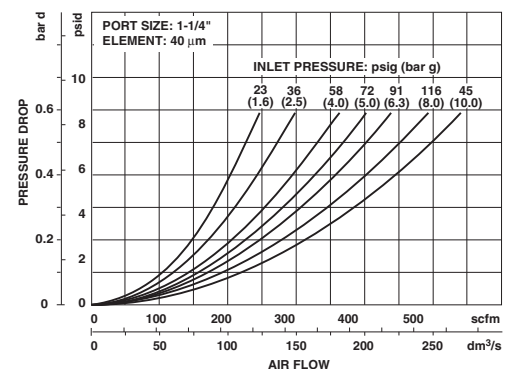
†† Service kit includes bowl o-ring, drain gasket, and element gasket.

Alternative Models

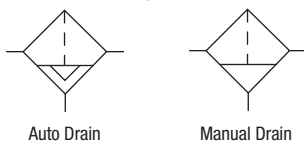
Port Size	Substitute	Threads	Substitute
3/4"	6	PTF	A
1"	8	ISO G parallel (not available with 1-1/2" ported units)	G
1-1/4"	A		
1-1/2"	B		
Element	Substitute	Drain	Substitute
5 µm	1	Automatic	A
40 µm	3	Manual 1/4 turn	M



Typical Performance Characteristics



ISO Symbols



F18

18 Series General Purpose Filter

1-1/2" and 2" Port Sizes

Highly visible, prismatic liquid level indicator lens

Can be disassembled without removal from the air line

Optional visual service indicator

Optional electrical service indicator

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

250 psig (17 bar)

Operating temperature*:

-30° to 175°F (-34° to 80°C)

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

Particle removal:

5 µm, or 40 µm filter element

Air quality:

Within ISO 8573-1, Class 3 and Class 5 (particulates)

Manual drain connection:

Will fit 1/8-27 and 1/8-28 male pipe thread.

Automatic drain connection:

Will fit 1/8-27 and 1/8-28 female pipe thread. - Flexible tube with 3/16" (5mm) minimum I.D. can be connected to the automatic drain. Drain may fail to operate if the tube I.D. is less than 3/16" (5mm). Avoid restrictions in the tube.

Materials

Body: Aluminum

Intermediate body: Aluminum

Bowl: Aluminum

Metal bowl liquid level indicator:

Transparent nylon

Filter element: Sintered bronze

Elastomers: Neoprene and nitrile



Ordering Information

Models listed include automatic drain, 40 µm element, metal bowl with sight glass, and PTF threads.

Port Size	Model Numbers	Flow scfm (dm ³ /s) *	Weight lbs (kg)	Replacements elements	Service kit**
1-1/2"	F18 B00 A3DA	1400 (661)	14.90 (6.76)	5882-11 (5µm)	5945 50
2"	F18 C00 A3DA	1400 (661)	14.65 (6.65)	5882-13 (40µm)	

* Typical flow with a 40 µm element at 90 psig (6.3 bar) inlet pressure and 5 psig (0.35 bar) pressure drop.

** Service kit contains body o-ring, element gasket, automatic drain gasket, and bowl o-ring.

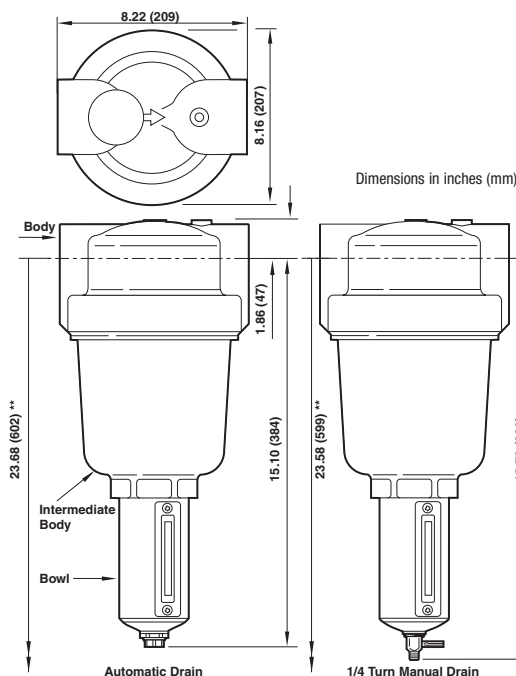
Alternative Models

Port Size	Substitute	Threads	Substitute
1-1/2"	B	PTF	A
2"	C	ISO G parallel	G

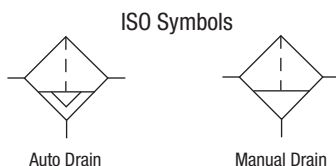
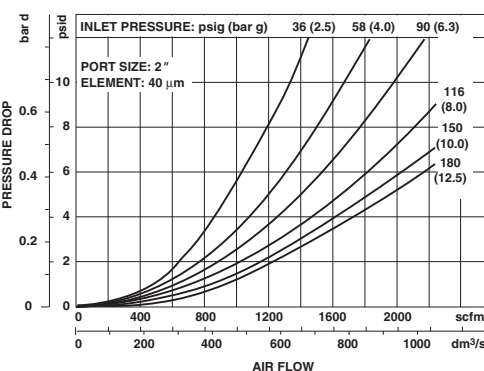
Element	Substitute
5 µm	1
40 µm	3

Drain	Substitute
Automatic	A
Manual 1/4 turn	M

F18 ★00 ★★D★



Typical Performance Characteristics



F46

F46 Oil Removal (Coalescing)

Filter 3/4", 1", and 1-1/4" Port Sizes

High efficiency oil and particle removal

Standard service indicator turns from green to red when the filter element needs to be replaced

NOTE: Install an F17 filter with a 5 µm filter element upstream of the F46 filter for maximum service life.

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

250 psig (17 bar)

Operating temperature:*

-30° to 150°F (-34° to 65°C)

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

Oil aerosol removal:

Down to 0.01 µm

Air quality:

Within ISO 8573-1, Class 1 (particulates) and Class 2 (oil content)

Maximum remaining oil content in outlet air:

0.01ppm at 70°F (20°C) with an inlet oil concentration of 17 ppm.

Nominal bowl size:

1 quart US (1 liter)

Manual drain connection:

Will fit 1/8-27 and 1/8-28 male pipe thread.

Automatic drain connection:

Will fit 1/8-27 and 1/8-28 female pipe thread. - Flexible tube with 3/16" (5mm) minimum I.D. can be connected to the automatic drain. Drain may fail to operate if the tube I.D. is less than 3/16" (5mm). Avoid restrictions in the tube.

Materials

Body: Aluminum

Bowl: Aluminum

Bowl sight glass: Pyrex

Elastomers: Neoprene and nitrile

Filter element: Synthetic fiber and polyurethane foam



Ordering Information

Models listed include service indicator, automatic drain, metal bowl with sight glass, and PTF threads.

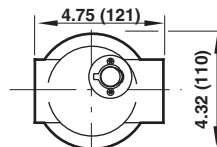
Port Size	Model Numbers	Maximum Flow* scfm (dm³/s)	Weight lbs (kg)	Element Kit**
3/4"	F46 601 A0DA	90 (42)	4.11 (1.86)	5351-04
1"	F46 801 A0DA	125 (59)	4.05 (1.84)	
1-1/4"	F46 A01 A0DA	125 (59)	4.29 (1.95)	

* Maximum flow for oil-saturated element at 90 psig (6.3 bar) inlet pressure to maintain stated oil removal performance.

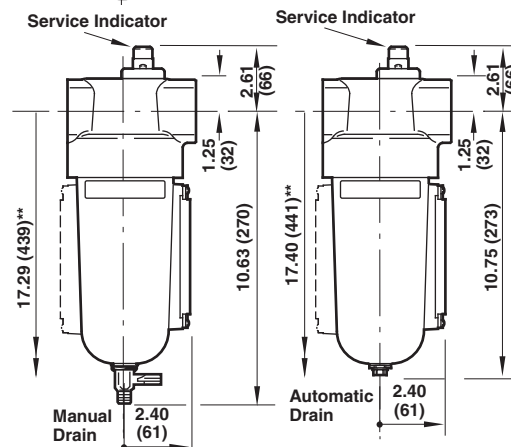
**Service kit contains coalescing element, element o-ring, bowl o-ring, and drain gasket.

Alternative Models

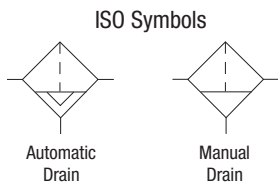
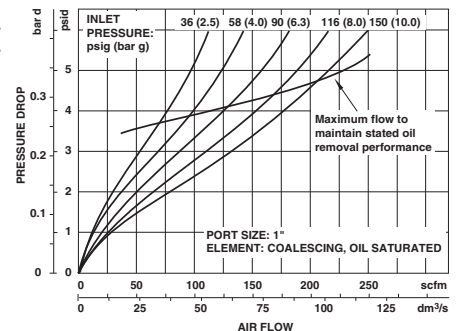
Port Size	Substitute	Threads	Substitute	Bowl	Substitute	Drain	Substitute
3/4"	6	PTF	A	Metal with sight glass	D	Automatic	A
1"	8	ISO G parallel	G			Manual	M
1-1/4"	A						



Dimensions in inches (mm).



Typical Performance Characteristic



F47

18 Series Oil Removal Filter

(Coalescing) 1-1/2" and 2" Port Sizes

Can be disassembled without removal from the air line

Standard service indicator

Optional electrical service indicator

NOTE: Install an F18 filter with a 5 µm filter element upstream of the F47 filter for maximum service life.

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

250 psig (17 bar)

Operating temperature:*

-30° to 150°F (-34° to 65°C)

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

Oil aerosol removal:

Down to 0.01 µm

Air quality:

Within ISO 8573-1, Class 1 (particulates) and Class 2 (oil content)

Maximum remaining oil content in outlet air:

0.01 ppm at 70°F (20°C) with an inlet concentration of 17 ppm

Nominal bowl size:

7 fluid ounce (0.2 liter)

Manual drain connection:

Will fit 1/8-27 and 1/8-28 male pipe thread.

Automatic drain connection:

Will fit 1/8-27 and 1/8-28 female pipe thread. - Flexible tube with 3/16" (5mm) minimum I.D. can be connected to the automatic drain. Drain may fail to operate if the tube I.D. is less than 3/16" (5mm). Avoid restrictions in the tube.

Materials

Body, intermediate body, bowl: Aluminum

Metal bowl liquid level indicator lens:

Transparent nylon

Filter element: Synthetic fiber and polyurethane foam

Elastomers: Neoprene and nitrile

Service indicator

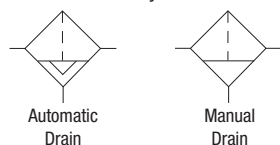
Body: Transparent nylon

Internal parts: Acetal

Spring: Stainless steel

Elastomers: Nitrile

ISO Symbols



Ordering Information

Models listed include service indicator, automatic drain, metal bowl with sight glass, and PTF threads.

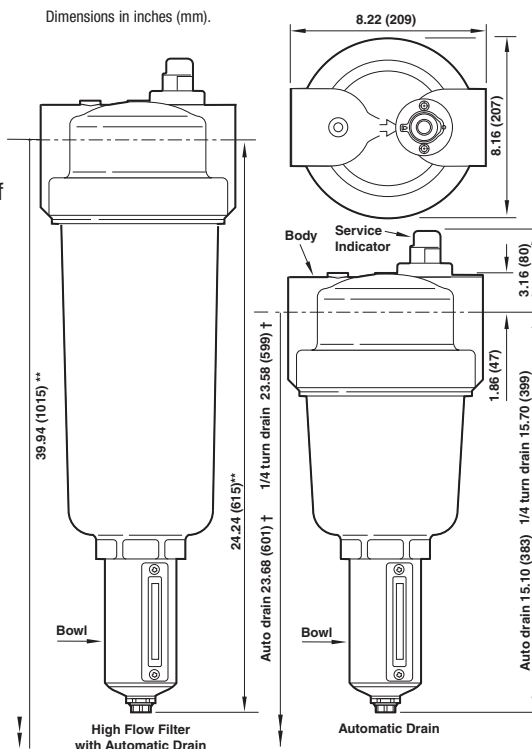
Port Size	Body and Element	Model Numbers	Flow scfm (dm ³ /s)*	Weight lbs (kg)	Element kit
1-1/2"	Standard	F47-B01-A0DA	250 (118)	15.51 (7.04)	std flow 3203-02
2"	Standard	F47-C01-A0DA	300 (142)	14.26 (6.47)	hi-flow 3203-05
2"	High Flow	F47-C21-A0DA	600 (283)	22.17 (10.06)	

* Maximum flow at 90 psig (6.3 bar) inlet pressure to maintain stated oil removal performance.

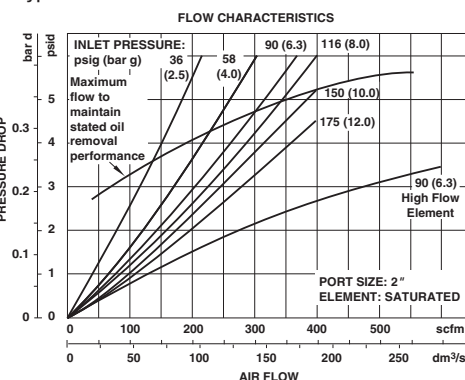
Alternative Models

Port Size	Substitute	Threads	Substitute
1-1/2"	B	PTF	A
2"	C	ISO G parallel	G
		Drain	Substitute
		Automatic	A
		Manual, 1/4 turn	M

Dimensions in inches (mm).



Typical Performance Characteristics



General Purpose Regulators

R17, R18

R17

High flow regulator, 3/4" to 1-1/2" ports

R18

High flow pilot regulator, 1-1/2" and 2"

Provides rapid response, superior pressure regulation, and excellent stability.

Constant bleed feature in pilot regulator provides quick response and maintains accurate downstream pressures

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

R17

Maximum pressure:

300 psig (20 bar)

Operating temperature:

-30°F to 175°F (-34° to 80°C) (R17)

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

Materials

Body: aluminum

Bonnet: aluminum

Bottom plug: acetal

Valve: aluminum and nylon

Elastomers: nitrile

R18

Inlet pressure range:

10 psig (0.7 bar) minimum to 450 psig (31 bar) maximum

Operating temperature:

0°F to 175°F (-18° to 80°C) (R17)

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

Materials

Body: aluminum

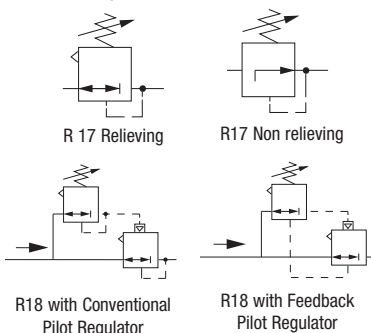
Bonnet: aluminum

Bottom plug: aluminum

Pilot Operated Regulator: aluminum

Elastomers: Nitrile

ISO Symbols



R17



R18

Ordering Information

Models listed have PTF threads, knob adjustment, relieving type diaphragm, and gauge,

Port Size	Model Number	Flow† scfm (dm³/s)	Weight lbs (kg)
1"	R17 800 RGLA	480 (227)	2.02 (0.92)
2"	R18 C05 RGLA	2000 (944)	8.27 (3.75)

† Typical flow with 100 psig (0.7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set.

Alternative Models

		R17	★	0	★	★	★	★	★		
Port Size	Substitute	←								Threads	Substitute
3/4"	6									PTF	A
1"	8									ISO G	G
1-1/4"	A										
1-1/2"	B										
Adjustment	Substitute	←								Outlet Pressure	
Knob	0									Adjustment Ranges*	Substitute
T-bar	1									5 to 50 psig (0.3 to 3.5 bar)	E
										5 to 125 psig (0.3 to 8.5 bar)	L
										10 to 250 psig (0.7 to 17 bar)	S
										Gauges	Substitute
										With	G
										Without	N
										Diaphragm	Substitute
										Relieving	R

		R18 ★★ ★★ ★★ ★★ ★★		
Port Size	Substitute	←	Port Threads	Substitute
1-1/2"	B		PTF	A
2"	C		ISO G	G
Pilot Regulator Type	Substitute	←	Outlet Pressure Adjustment Ranges*	Substitute
R40 Conventional	05		5 to 50 psig (0.3 to 3.5 bar)	E
R41 Feedback **	06		5 to 125 psig (0.3 to 8.5 bar)	L
		←	10 to 250 psig (0.7 to 17 bar)	S
Diaphragm	Substitute		Gauges	Substitute
Relieving	R		With	G
Non relieving	N		Without	N

* 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.

** Requires relieving diaphragm and 250 psig (17 bar) 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 100 psig. For feedback control at pressures below 100 psig use an 11-104-001 with a pilot operated R18.

NOTE: The R18 can be used with other pilot regulators and proportional valves such as 11-400, 20-AL, 11-104, VP50 and VP51

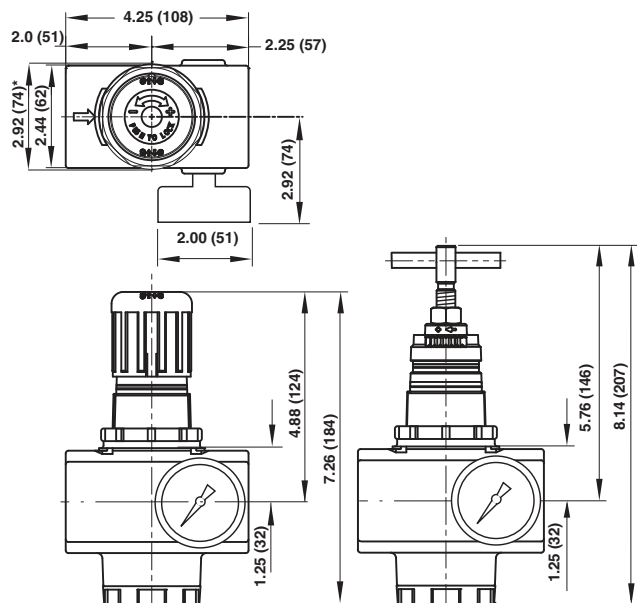
General Purpose Regulators

R17, R18

Dimensions in inches (mm).

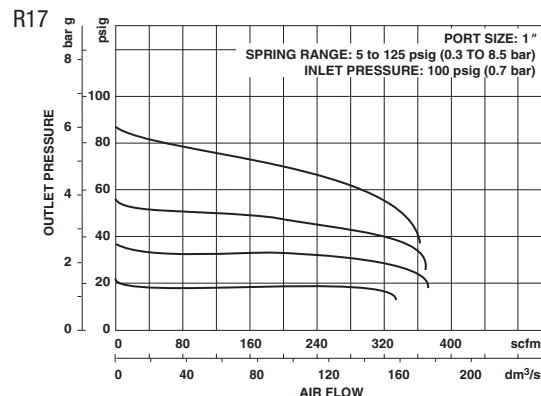
Panel mounting hole diameter: 2.28" (58 mm)
Panel thickness: 0.06" to 0.16" (2 to 4 mm)

R17



Panel mounting hole diameter: 2.28" (58 mm)
Panel thickness: 0.06" to 0.16" (2 to 4 mm)
*OD of panel mount nut. Nut not included

Typical Performance Characteristics

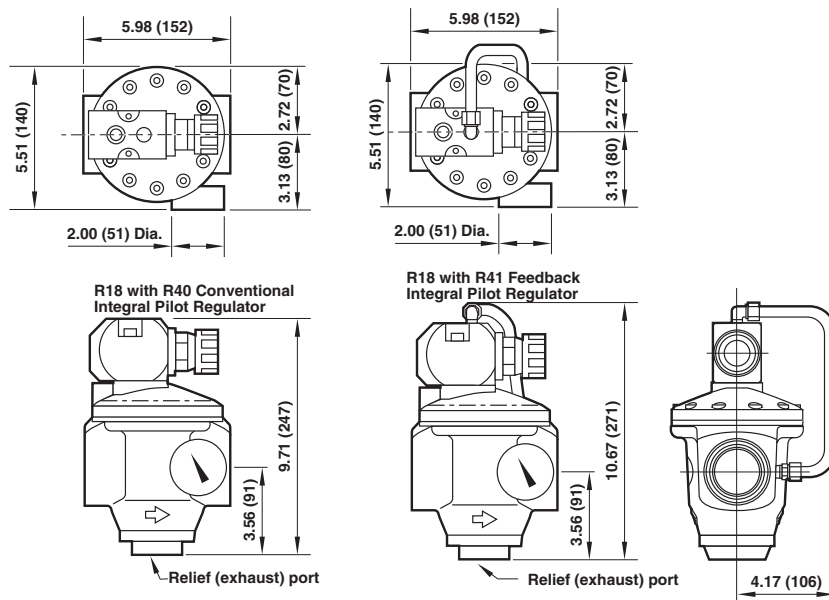


Service Kits

Item	Type	Part number
Service kit	Relieving	5578-02
	Non relieving	5578-01

Service kit contains, diaphragm, all o-rings, valve, and valve spring.

R18



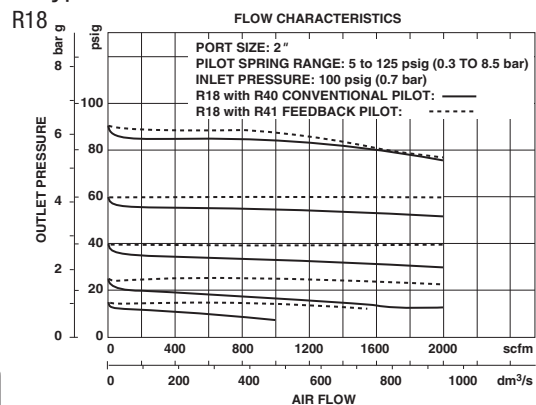
R18 with R40 Conventional
Integral Pilot Regulator

R18 with R41 Feedback
Integral Pilot Regulator

Relief (exhaust) port

Relief (exhaust) port

Typical Performance Characteristics



Service Kits

Item	Type	Part number
Service kits	R18 Pilot operated regulator**	5945-40
	R40 and R41 Pilot regulators†	5945-41

** Contains filter screen and all o-rings for R18 pilot operated regulator.

† Contains diaphragm, valve spring, valve, guide bushing, filter screen, and all o-rings for R40 and R41 pilot regulators.

11-002 & 20AG Pressure Regulator

1/4", 3/8", and 1/2", G3/4, and G1 ports

Large diaphragm provides accurate and quick response to changing flow demands and line pressure

Floating valve pin provides positive valve seating

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

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

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

400 psig (28 bar)

Operating temperature*:

-30° to 175°F (-34° to 80°C)

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

Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and 15 psig (1 bar) droop from set:

1/4" and 3/8" ports: 60 scfm (28 dm³/s)

1/2" ports: 200 scfm (95 dm³/s)

Gauge ports

1/8" PTF with PTF main ports

Rc1/8 with ISO G and ISO Rc main ports

Materials

Body: Zinc

Bonnet: Aluminum

Valve: Brass and nitrile

Valve seat: Brass

Elastomers: Nitrile

Bottom plug

1/4" and 3/8" Ports: Brass

1/2" Ports: Nylon



11-002

20AG

Ordering Information

Models listed have T-bar adjustment, relieving diaphragm. PTF models are 5 to 125 psig (0.3 to 8.5 bar) outlet pressure adjustment range*. For alternative models please contact the factory.

Port Size	Model Number	Flow scfm (dm ³ /s)	Weight lbs (kg)
1/4"	11-002-013	60 (30)†	1.9 (0.86)
3/8"	11-002-037	60 (30)†	1.9 (0.86)
1/2"	11-002-061	200 (100)†	2.0 (0.91)
G3/4	20AG-X6G/PD100	160 (80)**	6.1 (2.75)
G3/4	20AG-X6G/PH100	160 (80)**	6.3 (2.85)
G1	20AG-X8G/PD100	200 (100)**	5.4 (2.44)
G1	20AG-X8G/PH100	200 (100)**	6.4 (2.90)

† Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and 15 psig (1 bar) droop from set.

*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.

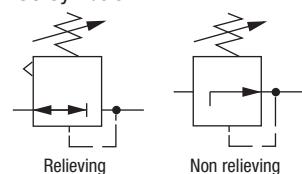
** Maximum flow with 7 bar inlet pressure, 4 bar outlet pressure and a pressure droop of 1 bar.

Service Kits

Type	Part number
Relieving, 1/4" and 3/8" ports	529-03
Relieving, 1/2" ports	535-03
Non-relieving, 1/4" and 3/8" ports	529-01
Non-relieving, 1/2" ports	535-01

Kit includes diaphragm, valve, valve spring, and o-rings.

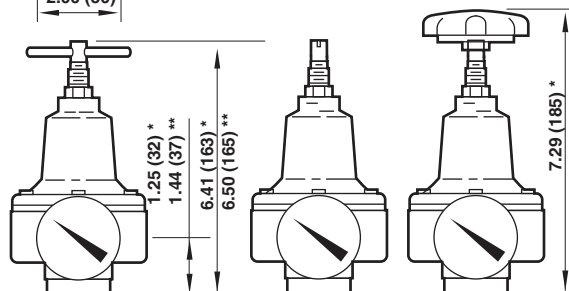
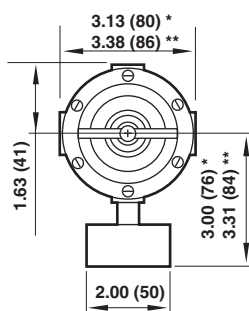
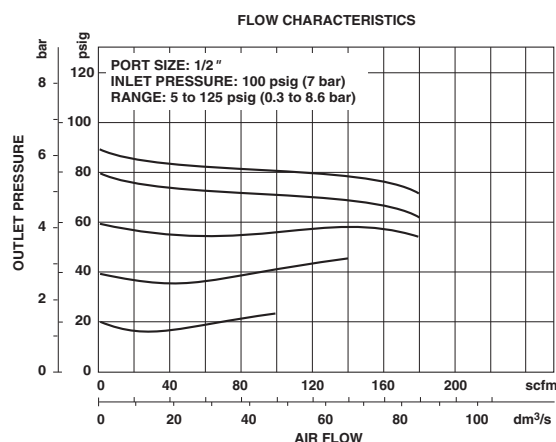
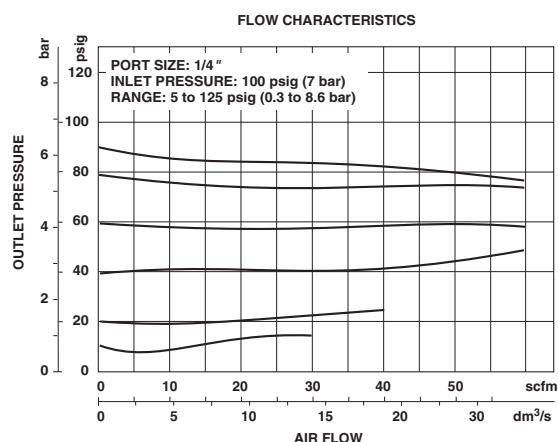
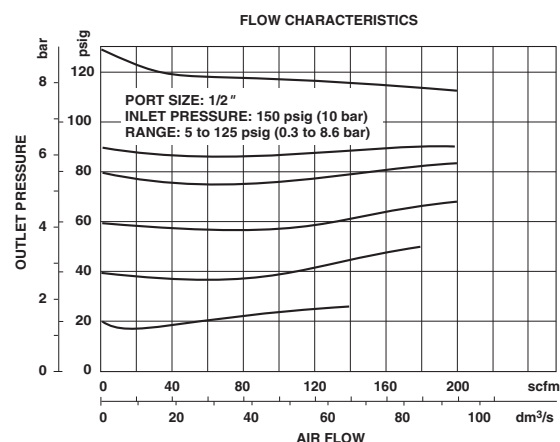
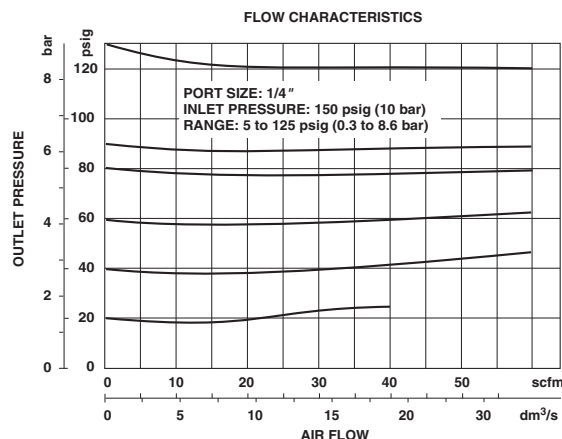
ISO Symbols



11-002 Pressure Regulator

1/4", 3/8", and 1/2" ports

Typical Performance Characteristics



Panel Mounting Option
Requires alternative
threaded bonnet.
Panel mounting hole
diameter: 1.06" (27 mm).
Panel thickness: 0.2" to
0.4" (5 to 10 mm).

* Regulators with 1/4" and 3/8" ports.

** Regulators with 1/2" ports.

Dimensions in inches (mm)

R24 Micro-Trol Pressure Regulator

1/4" to 1-1/4" ports

High flow regulator with exceptional high relief flow

Adjusting knob can be set in the field to stop at some maximum pressure setting or some minimum pressure setting

Easy to adjust even at high output pressures

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

Constant bleed feature provides maximum sensitivity to system changes

Relieving feature allows reduction of downstream pressure when the system is dead-ended

Full flow gauge ports



Ordering Information.

Models listed are constant bleed units with relieving diaphragm, 10 to 125 psig (0.7 to 8 bar) outlet pressure adjustment range, and PTF threads.

Port Size	Model	Flow (scfm)	Weight lb (kg)
1/2"	R24-400-RGLA	200	1.79 (0.81)
1-1/4"	R24-A00-RGLA	700	2.65 (1.20)

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum inlet pressure:

300 psig (20 bar)

Operating temperature:

0° to 150°F (-20° to 80°C)*

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

Maximum bleed rate at 50 psig (3.5 bar) outlet pressure:

0.031 scfm (0.016 dm³/s) †

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

Port sizes:

Main	Gauge
1/4"	1/4"
3/8"	3/8"
1/2", 3/4", 1", 1-1/4"	1/2"

Thread type: PTF, ISO G, or Rc

Materials

Body, top cap: Zinc

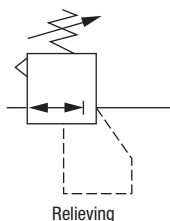
Main valve, adjusting screw: Brass

Pilot valve, relief valve: Acetal

Elastomers: Nitrile

Bottom Plug: Acetal

ISO Symbol



Alternative Models

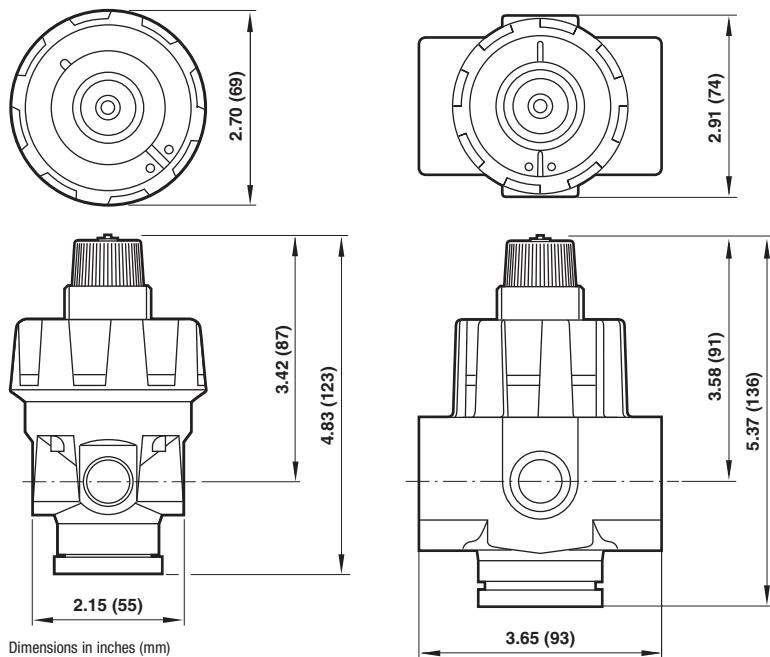
Port Size	Substitute	Threads	Substitute	Outlet Pres Adj. Ranges*	Substitute	Gauge	Substitute
1/4"	2	PTF	A	5 to 30 psig (0.3 to 2 bar)	C	With	G**
3/8"	3	ISO G parallel	G	5 to 60 psig (0.3 to 4 bar)	F	Without	N
1/2"	4			10 to 125 psig (0.7 to 8 bar)	L		
3/4"	6			10 to 250 psig (0.7 to 17 bar)	S		
1"	8						
1-1/4"	A						

* 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.

** A factory installed gauge is only available with PTF threads (A in last position of model number). If a gauge is desired with ISO threads (B or G in last position), order the desired gauge and appropriate reducing bushing from Accessories.

R24 Micro Trol Pressure Regulator

1/4" to 1-1/4" ports



Dimensions in inches (mm)

Panel mounting hole diameter: 1.26" (32 mm)

Maximum panel thickness: 0 to 0.12" (3 mm)

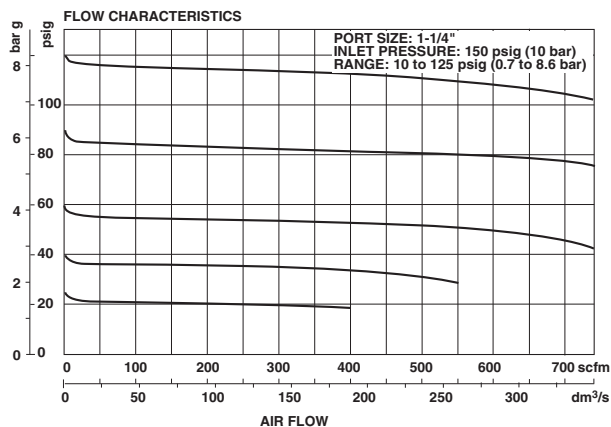
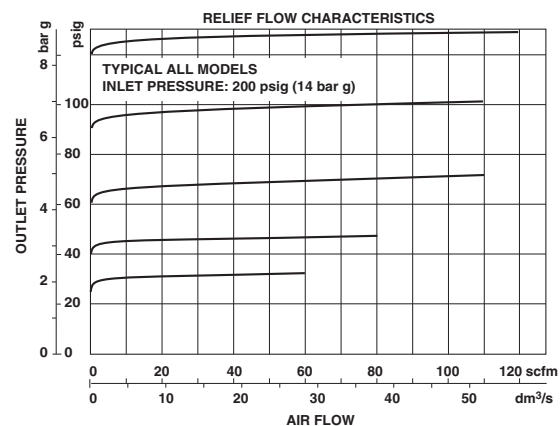
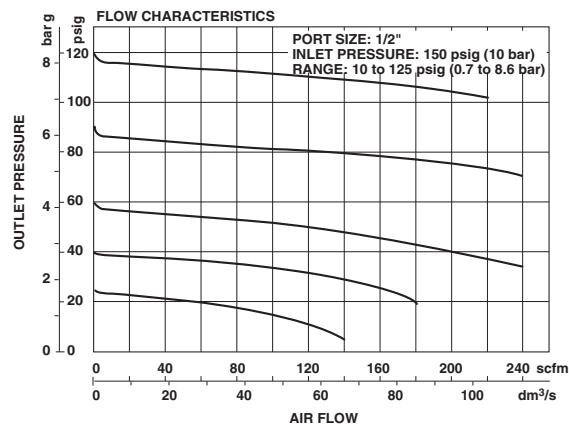
Service Kits

Item	Type	Part number
Service kit	1/4, 3/8, 1/2	5292-52
Service kit	3/4, 1, 1-1/4	5292-53

Service kits include seals, main valve and spring.

Typical Performance Characteristics

RANGE: 10 to 232 psi (0.7 to 16 bar)



11-018 Precision Air Pressure Regulator

1/4" Port Size

Fast response

Minimum overshoot during flow changes

Constant bleed feature provides maximum sensitivity to system changes

Relieving feature allows reduction of downstream pressure when the system is dead-ended

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Note: 5 micron prefiltration and oil-free air required.

Inlet pressure range*

Low Pressure Models: 8 to 150 psig (0.55 to 10.3 bar)

High Pressure Models: 10 to 200 psig (0.7 to 13.8 bar)

* Inlet pressure must be at least 7 psig (0.5 bar) greater than the adjusted outlet pressure for proper operation.

Operating temperature**:

32° to 160°F (0° to 70°C)

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

Repeatability

Low Pressure Models: 0.02 psig (0.001 bar) for flow change; 0.05 psig (0.004 bar) when turning supply off and on

High Pressure Models: 0.08 psig (0.006 bar) for flow change; 0.16 psig (0.011 bar) when turning supply off and on

Constant bleed feature: Under dead-end conditions, a small, constant bleed of pilot air will escape thru the relief passage in the bottom plug. This will be accompanied by a slight residual outlet pressure of 1 to 4 inches H₂O (2.5 to 10 millibar).

Gauge ports:

1/4" PTF

Materials

Body and bonnet: Zinc

Main valve: Polycarbonate

Main valve seat: Teflon

Pilot valve: Stainless steel

Pilot valve seat: Aluminum

Main diaphragm: Nitrile

Pilot diaphragm

Low Pressure Models: 302 SS

High Pressure Models: Nitrile

Bottom plug: Brass

Elastomers: Nitrile, neoprene, polyurethane



Ordering Information

Models listed have PTF threads, hand wheel adjustment, and relieving diaphragm. A gauge is not included.

Port Size	Outlet Pressure Adjustment Range*	Model Number	Flow scfm (dm ³ /s)	Weight lbs (kg)
1/4"	0.4 to 10 psig (0.03 to 0.69 bar)	11-018-146 (low pressure)	12 (5.66)†	1.4 (0.64)
1/4"	1.0 to 60 psig (0.1 to 4.1 bar)	11-018-100 (low pressure)	12 (5.66)†	1.4 (0.64)
1/4"	3 to 150 psig (0.2 to 10.3 bar)	11-018-110 (high pressure)	12 (5.66)††	1.4 (0.64)

* 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.

† Typical flow with 100 psig (7 bar) inlet pressure, 60 psig (4.1 bar) set pressure and 0.125 psig (0.009 bar) droop from set.

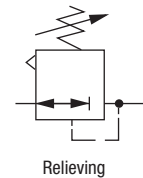
†† Typical flow with 200 psig (14 bar) inlet pressure, 60 psig (4.1 bar) set pressure and 0.250 psig (0.017 bar) droop from set.

Service Kits

Type	Part number
Low Pressure Models	2787-01
High Pressure Models	2787-02
Special tool to install main valve seat	681-01

Service kit includes o-rings, seals, pilot diaphragm, pilot spring, main diaphragm, main valve, main valve seat, diffuser screen, constant bleed orifice and orifice filter

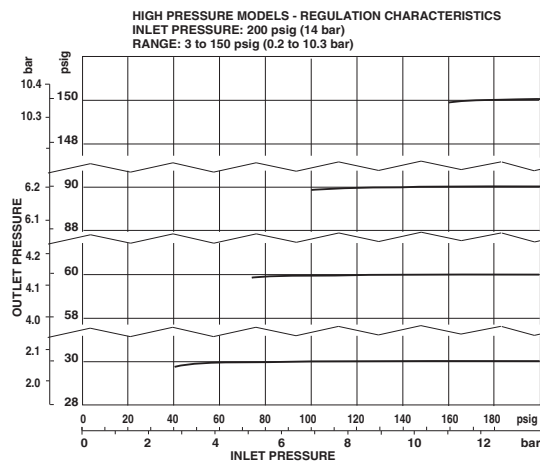
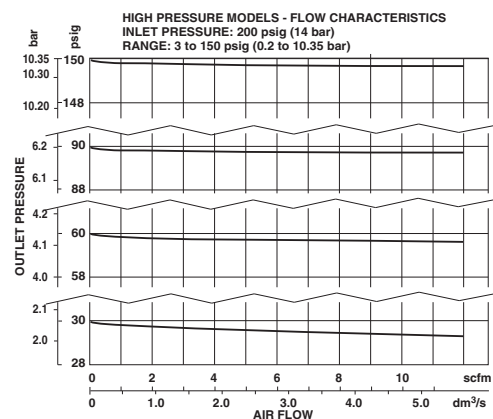
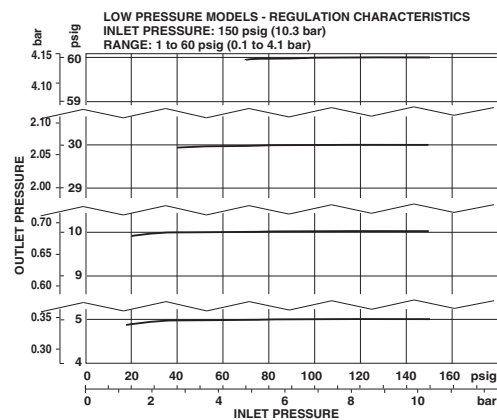
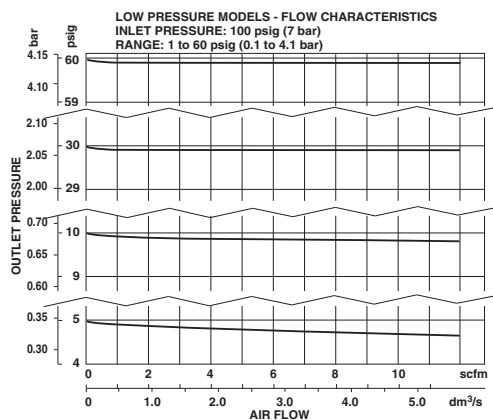
ISO Symbols



11-018 Precision Air Pressure Regulator

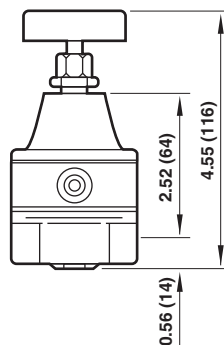
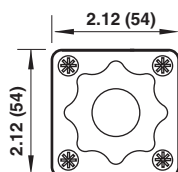
1/4" Port Size

Typical Performance Characteristics



Panel mounting hole diameter: 0.47" (12 mm)

Maximum panel thickness: 0.094" (2.4 mm)



Dimensions in inches (mm)

R38 Instrument Regulator and B38 Filter/Regulator

Aluminum Model 1/4" Port Size

Compact instrument units with high performance

Stable regulation with temperature compensation

Excellent flow and regulation characteristics

Panel Mounting facility

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

290 psig (20 bar)

Operating temperature:

-40° to 175°F (-40° to 80°C) *

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

Typical relief differential at 30 psig (2 bar) outlet pressure:

2.3 psig (0.16 bar)

Maximum bleed flow at 30 psig (2 bar) outlet pressure (relieving types only):

0.003 scfm (1.5 cm³/s)†

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

Gauge ports:

1/4 NPT

Materials

Body: Aluminum

Bonnet: Aluminum

Adjusting screw: Steel

Elastomeric materials: Nitrile



B38

R38

Ordering Information

Models listed are relieving type with 0.6 to 30 psig (0.04 to 2 bar) outlet pressure adjustment range *, and PTF threads. A gauge is not included.

Port Size	Model Number	Flow† scfm (dm ³ /s)	Weight lbs (kg)
1/4" PTF	R38-200-RNCA	17 (8)	1.06 (0.48)
1/4" PTF	B38-200-B2CA	17 (8)	1.18 (0.54)

* 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.

† Typical flow with 100 psig (7 bar) inlet pressure, 15 psig (1 bar) set pressure and 1 psig (0.05 bar) droop from set.

Service Kits

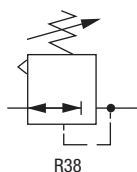
R38 Item	Type	Part number
30 psig (2 bar) Range	Relieving	R38-100-R
	Non relieving	R38-100-NR
60, 100 psig (4 bar, 7 bar) Range	Relieving	R38-101-R
	Non relieving	R38-101-NR

Service kit includes diaphragm assembly, o-ring, valve, valve spring and 8 pan head screws.

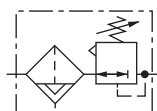
B38 Filter Elements

B38-100A (5)	5 µm
B38-100A (25)	25 µm

ISO Symbols



R38



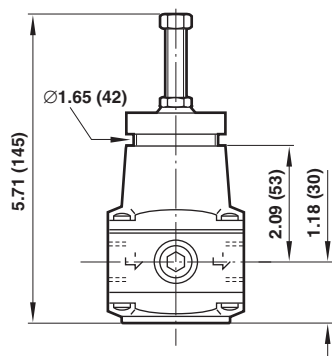
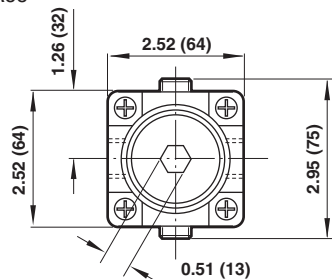
B38

All Dimensions in Inches (mm)

R38 Instrument Regulator

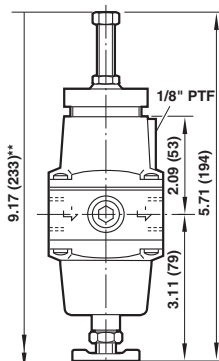
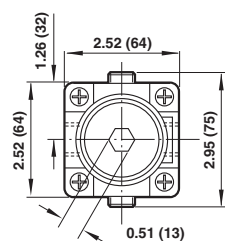
Aluminum Model 1/4" Port Size

R38



Panel mounting hole diameter: 1.65" (42 mm)
Panel thickness: 0" to 0.24" (0 to 6 mm)

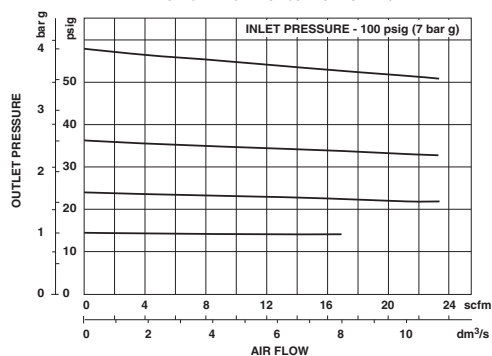
B38



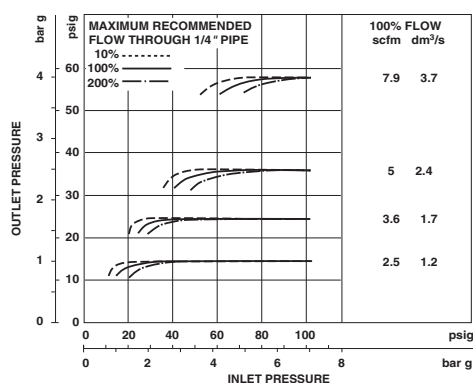
** Minimum clearance required to remove bowl.
Panel mounting hole diameter: 1.65" (42 mm)
Maximum panel thickness: 0.24" (6 mm)

Typical Performance Characteristics

R38 FLOW CHARACTERISTICS - PORT SIZE: 1/4"

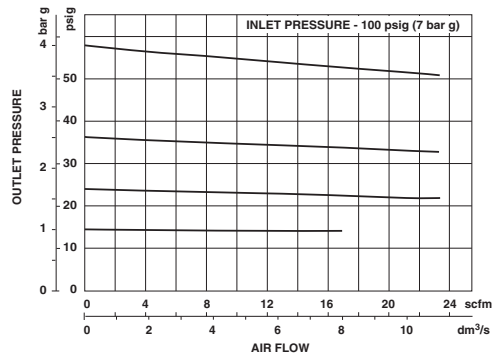


REGULATION CHARACTERISTICS - PORT SIZE: 1/4"

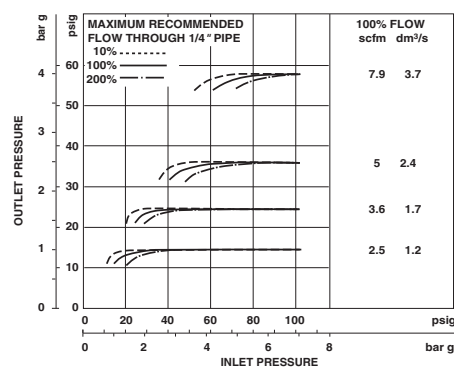


B38

FLOW CHARACTERISTICS - PORT SIZE: 1/4"



REGULATION CHARACTERISTICS - PORT SIZE: 1/4"



AIR LINE EQUIPMENT

R40, R41

R40 Conventional Pilot Regulator, and R41 Feedback Pilot Regulator

1/4" Port Size

Pilot regulators are used to control the outlet pressure of a pilot operated regulator (ordered separately)

R41 can be close coupled to a 2" R18 pilot regulator

Conventional pilot regulator provides good pressure regulation, rapid response to changing flow demands, and excellent stability.

Feedback pilot regulator provides superior pressure regulation under changing flow demands where changes in flow demand are not sudden or cyclic.

Constant bleed feature provides maximum sensitivity to system changes

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Inlet pressure range:

10 psig (0.7 bar) to 450 psig (31 bar) maximum

Operating temperature:

0° to 175°F (-20° to 80°C) **

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

Maximum bleed rate at 50 psig (3.5 bar) outlet pressure:

0.25 scfm (0.12 dm³/s)†

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

Pilot ports:

1/4" PTF, ISO G, or ISO Rc

R41 feedback port: 1/8" PTF, ISO G, or ISO Rc

Materials

Body, bonnet: Aluminum

Valve: Teflon

Elastomers: Nitrile



Ordering Information

Models listed are relieving with constant bleed, 10 to 250 psig (0.7 to 17 bar) outlet pressure adjustment range *, PTF ports.

Port Size	Type	Model	Flow† scfm (dm ³ /s)	Weight lb (kg)
1/4"	Conventional Pilot	R40-200-BNSA	6.4 (3)	1.66 (0.75)
1/4"	Feedback Pilot	R41-204-BNSA††	6.4 (3)	1.66 (0.75)

† Typical flow with 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and 15 psig (1 bar) droop from set.

†† Do not use the R41 feedback pilot regulator to control outlet pressures at or less than 100 psig (7 bar). Use the 11-104 feedback pilot regulator at those pressures.

Alternative Models

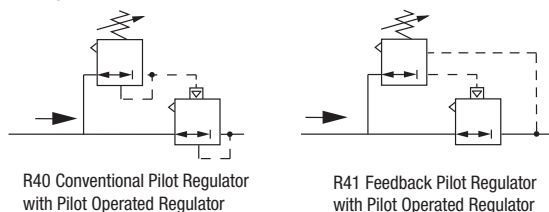
Type	Substitute	Threads	Substitute
R40 Conventional	40	PTF	A
R41 Feedback	41	ISO G parallel	G
Mounting/Type	Substitute	Outlet Pressure Adjustment Ranges*	Substitute
Remote/R40 Conventional	00	2 to 50 psig (0.1 to 3.5 bar) R40 only	E
Remote/R41 Feedback	04	5 to 125 psig (0.3 to 8.5 bar) R40 only	L
		10 to 250 psig (0.7 to 17 bar)	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.

Feedback Pilot Regulator Warning

The feedback line must sense the pilot operated regulator outlet pressure and must be connected before turning on the air supply. If the feedback line is not connected, the pilot operated regulator outlet pressure will rapidly increase to the inlet pressure when the adjusting knob on the pilot regulator is turned clockwise.

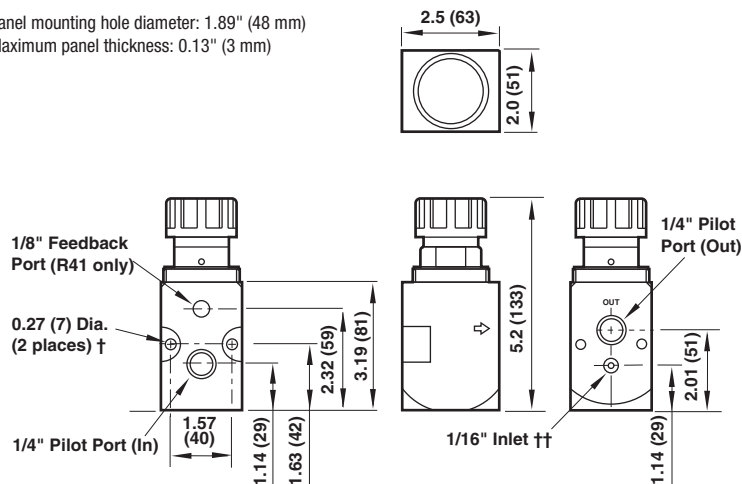
ISO Symbols



R40, R41

**R40 Conventional Pilot Regulator,
and R41 Feedback Pilot Regulator**
1/4" Port Size

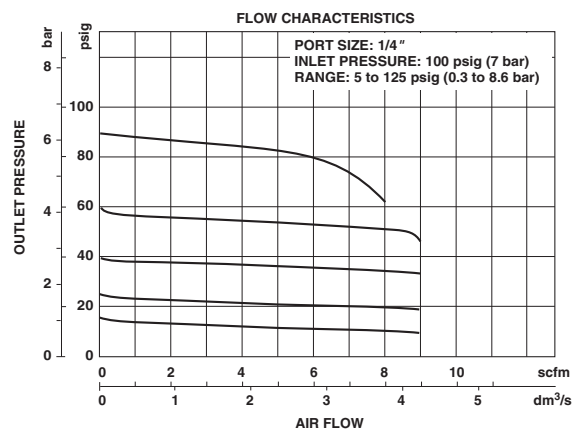
Panel mounting hole diameter: 1.89" (48 mm)
Maximum panel thickness: 0.13" (3 mm)



† Mounting holes for subbase mounting.
†† Air inlet for subbase mounting.

Dimensions in inches (mm)

Typical Performance Characteristics



Service Kits

Type	Part number
R40, R41	5945-41

Service kit contains diaphragm, valve spring, guide bushing, valve, valve spring, filter screen, and all o-rings.

11-400, 20AL

Conventional Pilot Regulators

1/4" Port Size

Pilot regulators are used to control the outlet pressure of a pilot operated regulator (ordered separately)

The pilot regulator is installed in an accessible location in the compressed air system; pilot operated regulator is installed at any point without regard to accessibility

Conventional pilot regulator provides good pressure regulation, rapid response to changing flow demands, and excellent stability.

Constant bleed feature provides maximum sensitivity to system changes

Relief feature allows reduction of downstream pressure when the system is dead-ended

Technical data

Fluid:

Compressed air filtered to 5µm, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum inlet pressure:

360 psig (25 bar)

Operating temperature:

0° to 175°F (-20° to 80°C) *

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

Typical flow: with 100 psig (7 bar) inlet pressure, 23 psig (1.6 bar) set pressure and 1.5 psig (0.1 bar) droop from set: 4.2 scfm (2 dm³/s)

Gauge ports:

1/8" PTF

Materials:

Body, bonnet: Zinc

Elastomers: Nitrile



Ordering Information.

Models listed are relieving with constant bleed, PTF threads, without gauge.

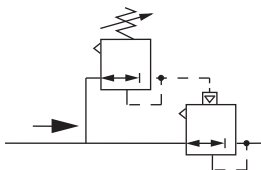
Port Size	Model Number	Range psig (bar)	Weight lbs (kg)
1/4"	11-400-2G/AC103	1 to 30 (0.06 to 2)	1.98 (0.90)
1/4"	11-400-2G/AE103	1 to 60 (0.06 to 4)	2.07 (0.94)
1/4"	11-400-2G/AG103	2 to 100 (0.16 to 7)	2.2 (1.00)
1/4"	20AL-X2G/AK103	100 to 300 (7 to 20)	2.3 (1.05)

Service Kits

Type	Part number
11 400-20AL-X	11 400-100/20AL

Service kit includes: diaphragm assemblies, valve assembly, valve spring o-rings and valve seats for pilots.

ISO Symbol



Conventional Pilot Regulator
with Pilot Operated Regulator

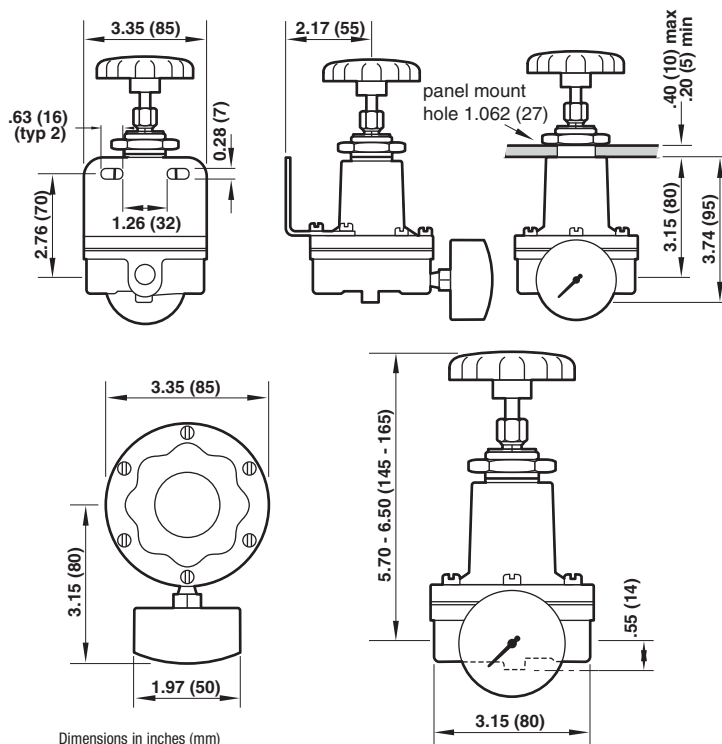
11-400, 20AL

Conventional Pilot Regulators

1/4" Port Size

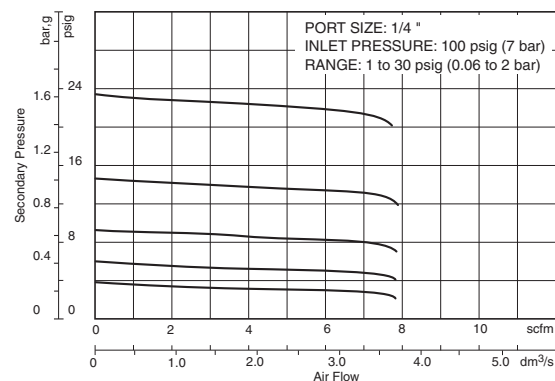
Mounting Dimensions

(Shown with optional gauge and mounting bracket)

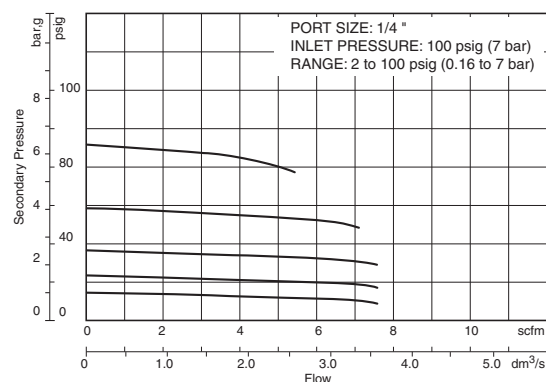


Typical Performance Characteristics

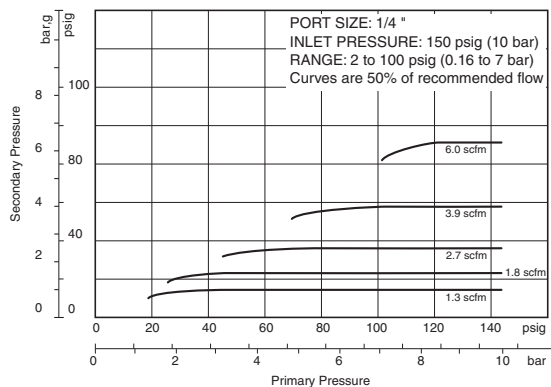
FLOW CHARACTERISTICS



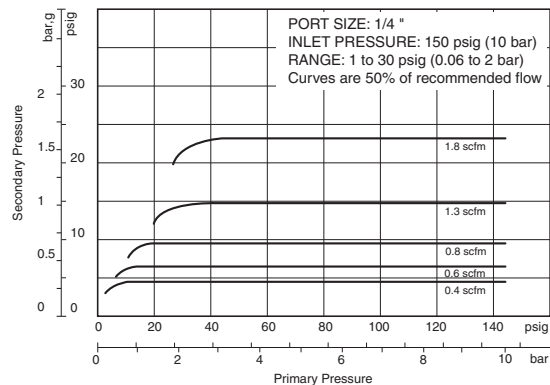
FLOW CHARACTERISTICS



REGULATION CHARACTERISTICS



REGULATION CHARACTERISTICS



11-104

Feedback Pilot Regulator

1/4" Port Size

Pilot regulators are used to control the outlet pressure of a pilot operated regulator (ordered separately)

The pilot regulator is installed in an accessible location in the compressed air system; pilot operated regulator is installed at any point without regard to accessibility

Feedback pilot regulator provides superior pressure regulation under changing flow demands where changes in flow demand are not sudden or cyclic.

Constant bleed feature provides maximum sensitivity to system changes

Relief feature allows reduction of downstream pressure when the system is dead-ended

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Inlet pressure range:

10 psig (0.7 bar) to 400 psig (27.6 bar) maximum

Operating temperature:

0 to 175°F (-20° to 80°C) *

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

Maximum bleed rate at 50 psig (3.5 bar) outlet pressure:

0.25 scfm (0.12 dm³/s)†

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

Pilot ports:

1/4" PTF

Feedback port:

1/8" PTF

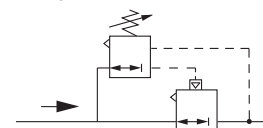
Materials

Body, bonnet: Zinc

Valve seat: Brass

Valve ball: Stainless steel

ISO Symbols



11-104 Feedback Pilot Regulator with Pilot Operated Regulator



Ordering Information.

Model listed is relieving, constant bleed, 5 to 100 psig (0.3 to 7 bar) outlet pressure adjustment range†, with PTF ports.

Port Size	Type	Model	Weight lb (kg)	Pressure psig (bar)
1/4" PTF	Feedback Pilot	11-104-001	3.38 (1.53)	5-105 (.3-7)
1/4" PTF	Feedback Pilot	11-104-002	3.38 (1.53)	50-250 (3-17)

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

Service Kits

Type	Part number
11-104	1970-11

Service kit includes: diaphragm assemblies, valve assembly, valve spring o-rings and valve seats for pilots.

Feedback Pilot Regulator Warning

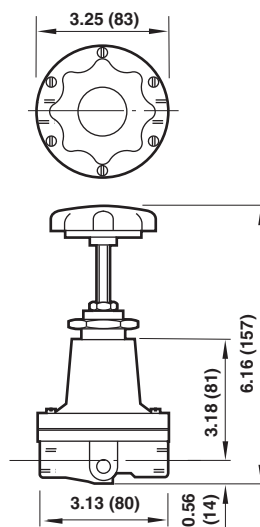
The feedback line must sense the pilot operated regulator outlet pressure and must be connected before turning on the air supply. If the feedback line is not connected, the pilot operated regulator outlet pressure will rapidly increase to the inlet pressure when the adjusting knob on the pilot regulator is turned clockwise.

11-104

Feedback Pilot Regulator

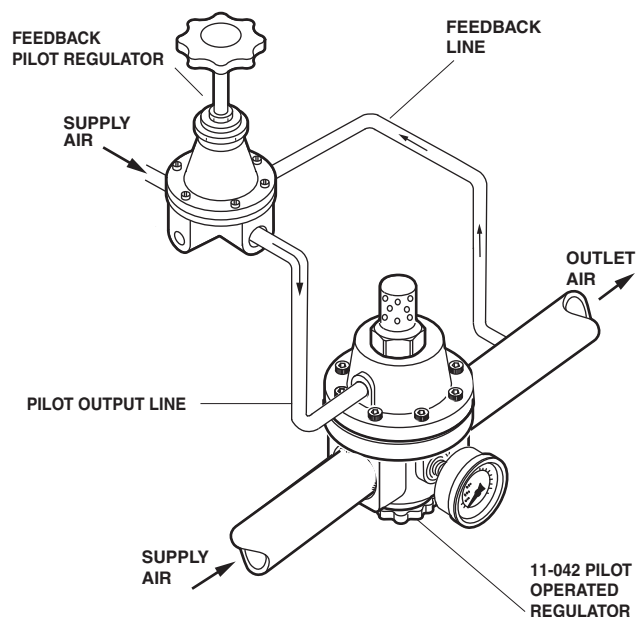
1/4" Port Size

Panel mounting hole diameter: 1.06" (27 mm)
Maximum panel thickness: 0.38" (10 mm)



Dimensions inches (mm)

Typical installation



Pilot Operated Regulators

11-042 and 11-008

Designed for systems that require pressure regulation at an inaccessible location.

A pilot regulator (ordered separately) controls the outlet pressure of the pilot operated regulator.

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Inlet pressure range:

10 psig (0.7 bar) to 400 psig (27.6 bar)

Operating temperature:

0° to 175°F (-20° to 80°C) **

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

Materials

11-042

Body: zinc

Bonnet: aluminum

Bottom plug: acetal

Valve: brass

Elastomers: nitrile

Port sizes

Main	Gauge	Pilot	Exhaust
1/4"	1/4"	1/4"	3/4"
3/8"	3/8"	1/4"	3/4"
1/2", 3/4", 1", 1-1/4"	1/2"	1/4"	3/4"

11-008

Body: zinc

Bonnet: aluminum

Bottom plug:

1/2", 3/4 ports: glass filled nylon

1" ports: brass

Gauge port: 1/8" NPT

Pilot port: 1/4" NPT

Valve: brass

Elastomers: nitrile



11-042



11-008
Constant bleed type

11-042 and 11-008 Pilot Operated Regulator Ordering Information

Models listed include relieving diaphragm and PTF threads. Also order a pilot regulator.

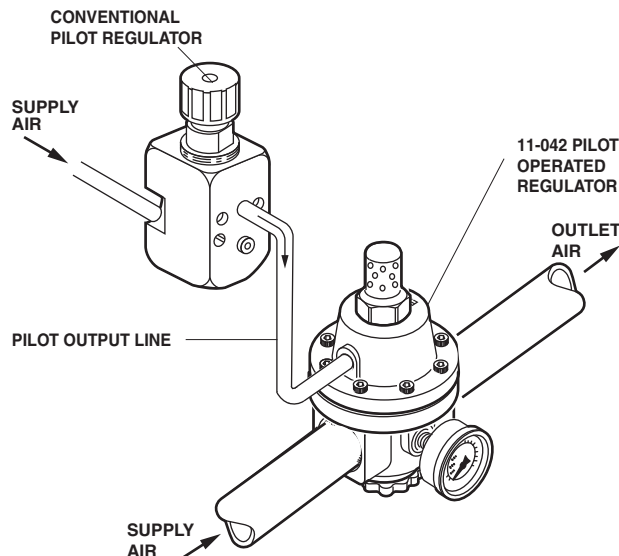
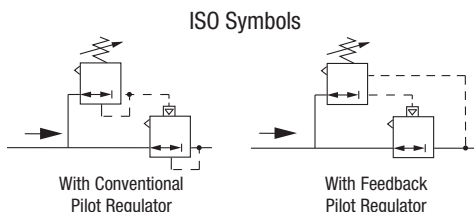
Port Size	Model	Flow* scfm (dm3/s)	Weight lb (kg)
1/4"	11-042-001	120 (57)	2.8 (1.3)
3/8"	11-042-002	120 (57)	2.7 (1.2)
1/2"	11-042-003	120 (57)	2.6 (1.2)
3/4"	11-042-007	300 (142)	4.8 (2.2)
1"	11-042-008	300 (142)	4.6 (2.1)
1-1/4"	11-042-009	300 (142)	4.3 (2.0)
1/2"	11-008-130	70 (33)	1.6 (0.7)
3/4"	11-008-009	110 (52)	4.9 (2.2)
1"	11-008-110	180 (85)	4.6 (2.1)

* Typical flow with 100 psig (0.7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 5 psig (0.35 bar) from set.

For additional models contact the factory

Feedback Pilot Regulator Warning

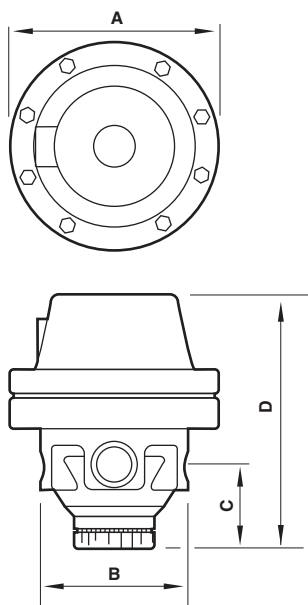
The feedback line must sense the pilot operated regulator outlet pressure and must be connected before turning on the air supply. If the feedback line is not connected, the pilot operated regulator outlet pressure will rapidly increase to the inlet pressure when the adjusting knob on the pilot regulator is turned clockwise.



Pilot Operated Regulators

11-042 and 11-008

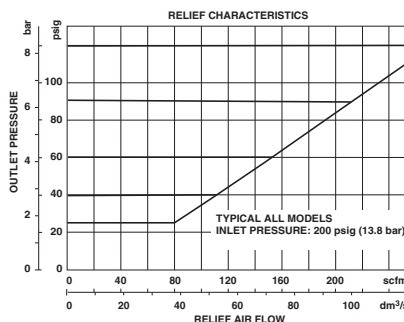
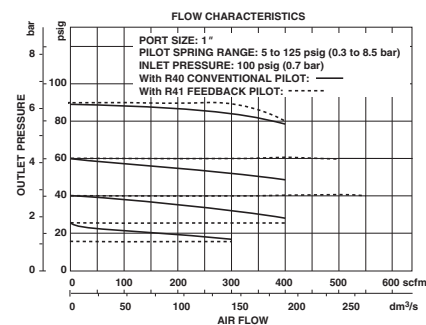
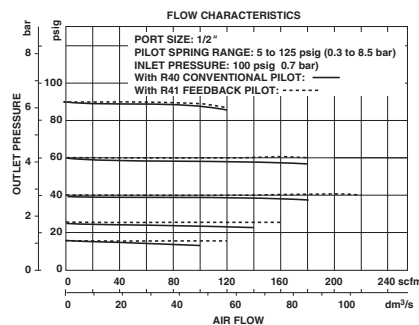
11-042



Port Size	A	B	C	D
1/4", 3/8", 1/2"	4.16 (106)	2.71 (69)	1.48 (38)	5.07 (129)
3/4", 1", 1-1/4"	4.16 (106)	3.65 (93)	1.86 (47)	5.97 (152)

Dimensions in inches (mm)

Typical Performance Characteristics

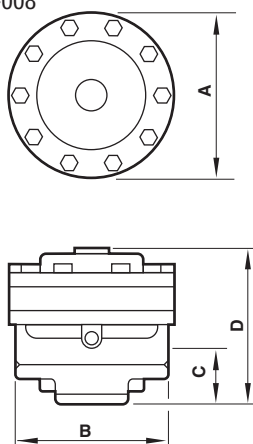


11-042 Service Kits

Type	Part number
Kit for 1/4", 3/8", 1/2" units	4158-01
Kit for 3/4", 1", 1-1/4" units	4158-02
O-ring kit for 1/4", 3/8", 1/2" units	4158-03
O-ring kit for 3/4", 1", 1-1/4" units	4158-04

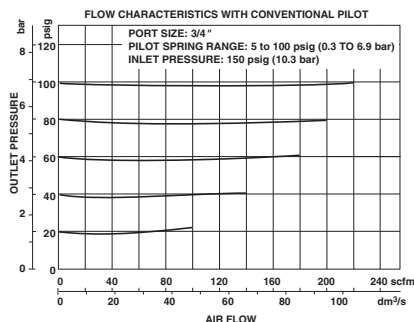
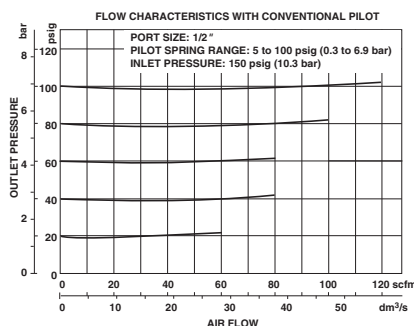
Kit contains filter screen, diaphragm, and all o-rings.
O-ring kit contains filter screen and all o-rings.

11-008



Port Size	A	B	C	D
1/2"	3.34 (85)	3.38 (86)	1.50 (38)	3.30 (84)
3/4", 1"	4.91 (125)	4.63 (118)	1.69 (43)	4.36 (111)

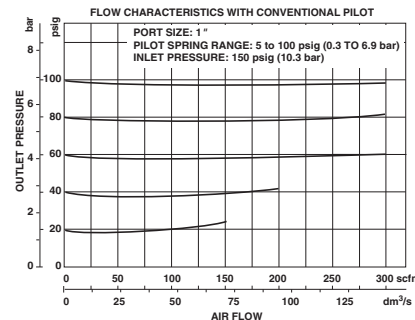
Dimensions in inches (mm)



11-008 Service Kits

Type	Part number
1/2" ported units	695-01
3/4", 1" ported units	696-01

Kit contains diaphragm, valve, and all o-rings.



Pilot Operated Regulators

R18 and R24

Designed for systems that require pressure regulation at an inaccessible location.

A pilot regulator (ordered separately) controls the outlet pressure of the pilot operated regulator.

Technical data

R18

Fluid:

Compressed air

Inlet pressure range:

10 psig (0.7 bar) minimum to

450 psig (31 bar) maximum

Operating temperature:

0° to 175°F (-18° to 80°C)*

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

R24

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Inlet pressure range:

10 psig (0.7 bar) to 300 psig (20 bar)

Operating temperature:

0° to 175°F (-20° to 80°C)**

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

Materials

R18

Body, bonnet, bottom plug, valve:
Aluminum

Elastomers: Nitrile

R24

Body, top cap: zinc
main valve, adjusting screw: brass
pilot valve, relief valve: acetal

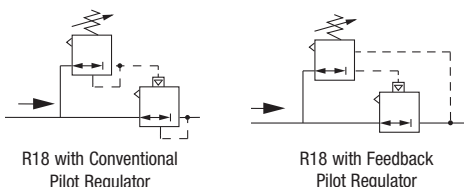
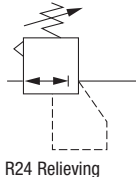
Elastomers: nitrile

Bottom plug: acetal

Port sizes

	Gauge	Pilot
Main		
1/4"	1/4"	1/4"
3/8"	3/8"	1/4"
1/2", 3/4", 1", 1-1/4"	1/2"	1/4"

ISO Symbols



R18



R24

Ordering Information

Models listed include relieving diaphragm and PTF threads. Also order a pilot regulator.

Port Size	Model	Flow† scfm (dm³/s)	Weight lb (kg)
1-1/2"	R18-B00-RNXA††	2000 (944)	6.82 (3.09)
2"	R18-C00-RNXA††	2000 (944)	6.61 (2.99)
1/4"	R24-201-RNXA		1.16 (0.73)
3/8"	R24-301-RNXA		1.54 (0.70)
1/2"	R24-401-RNXA		1.50 (0.68)
3/4"	R24-601-RNXA		2.60 (1.18)
1"	R24-801-RNXA		2.60 (1.18)
1-1/4"	R24-A01-RNXA††		2.51 (1.14)

† Typical flow with 100 psig (0.7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set.

†† Do not use the R41 feedback pilot regulator to control outlet pressures at or less than 100 psig (7 bar). Use the 11-104 feedback pilot regulator at those pressures.

Alternative Models - R18

Port Size	Substitute	Threads	Substitute
1-1/2"	B	PTF	A*
2"	C	ISO G parallel	G
Diaphragm	Substitute	Gauge*	Substitute
Relieving	R	Without	N
Non relieving (do not use with a feedback pilot regulator)	N		

* A factory installed gauge is only available with PTF threads (A in last position of model number). For additional options see the website for this product.

Alternative Models - R24

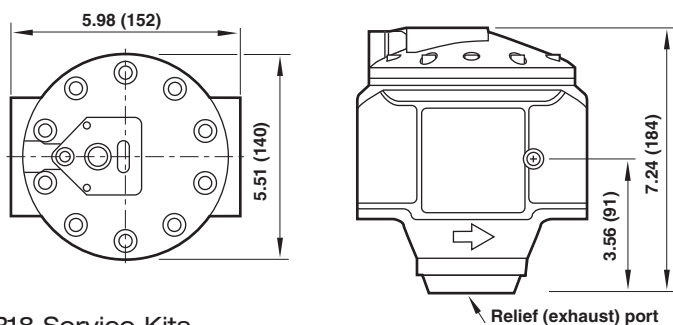
Port Size	Substitute	Threads	Substitute
1/4"	2	PTF	A
3/8"	3	ISO G parallel	G
1/2"	4		
3/4"	6		
1"	8		
1-1/4"	A		

Feedback Pilot Regulator Warning

The feedback line must sense the pilot operated regulator outlet pressure and must be connected before turning on the air supply. If the feedback line is not connected, the pilot operated regulator outlet pressure will rapidly increase to the inlet pressure when the adjusting knob on the pilot regulator is turned clockwise.

NOTE: Do not use the R41 feedback pilot regulator to control outlet pressures at or less than 100 psig (7 bar). Use the 11-104 feedback pilot regulator at those pressures.

R18

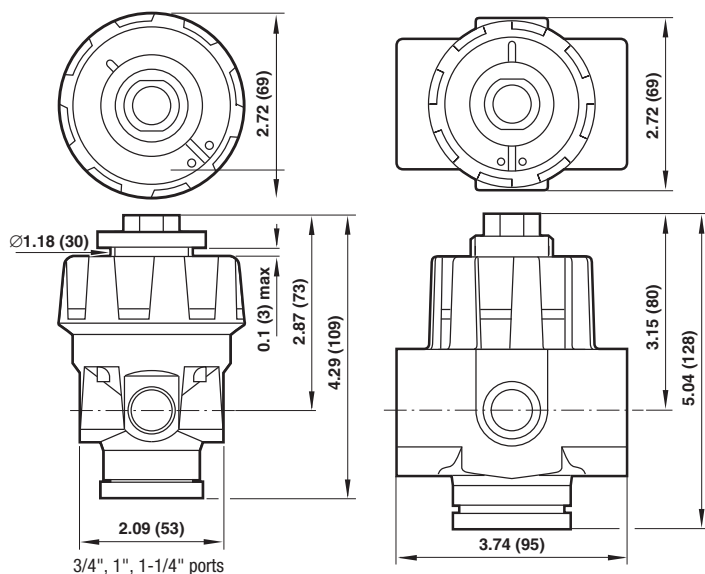


R18 Service Kits

Type	Part number
R18	5945-40

R18 service kit contains filter screen and all o-rings.

R24



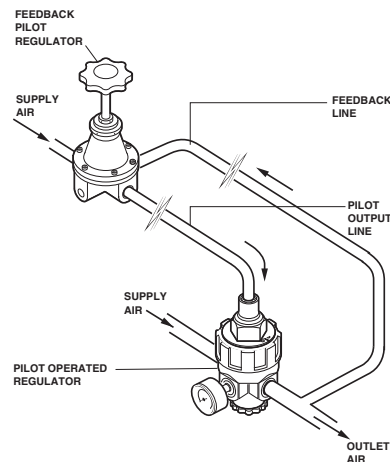
R24 Service Kits

Item	Port Size	Part number
Service kit	1/4", 3/8", 1/2"	5292-54
Service kit	3/4", 1", 1-1/4"	5292-55

Service kits include seals, main valve and spring.

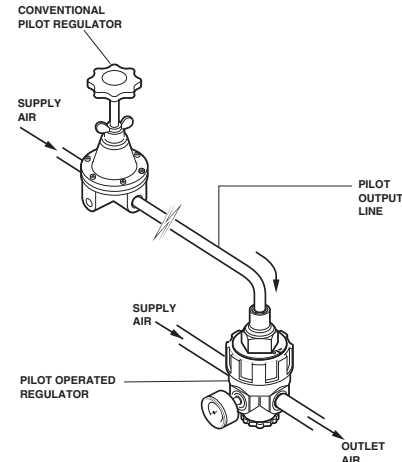
Typical Installation

Feedback Pilot and Pilot Operated Regulator



Typical Installation

Conventional Pilot and Pilot Operated Regulator



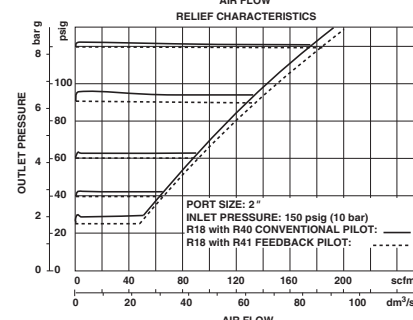
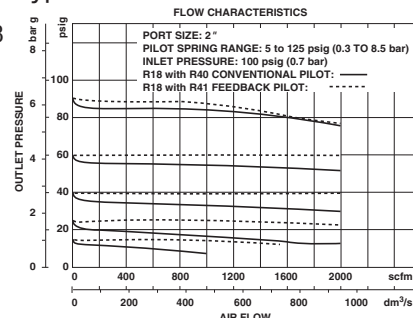
Pilot Operated Regulators

R18 and R24

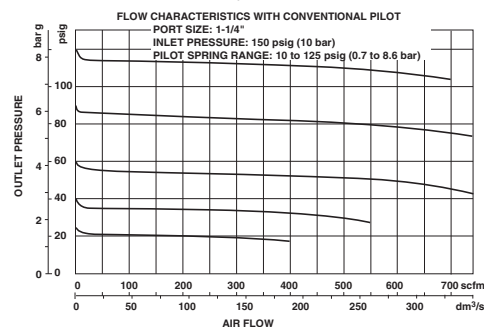
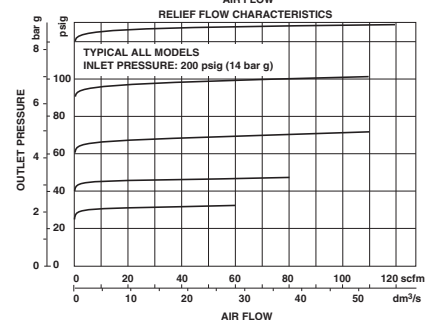
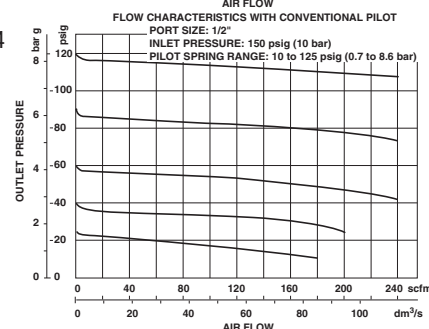
Dimensions in inches (mm)

Typical Performance Characteristics

R18



R24



Excelon® R72M and R74M

Manifold Regulator

1/4", 3/8", 1/2" and 3/4" port sizes

Excelon® design allows in-line or modular installation

Manifold typically up to six regulators without booster signal

RoHS compliant

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

R72M

Maximum pressure:

300 psig (20 bar)

Operating temperature*:

-30° to 150°F (-34° to 65°C)

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

Ports:

Inlet ports (2):

1/4" or 3/8" PTF or ISO G

Outlet port (1):

1/4" PTF with PTF inlet ports, or
1/4" ISO Rc with ISO G inlet ports

Gauge port (1):

1/8" PTF with PTF inlet ports
1/8" ISO Rc with ISO G inlet ports

Materials

Body: Zinc

Bonnet: Acetal

(Zinc on 250 psi (17 bar) T-handle version)

Elastomers: Nitrile

Bottom plug: Acetal

R74M

Maximum pressure:

300 psig (20 bar)

Operating temperature*:

R74M: -30° to 175°F (-34° to 80°C)

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

Ports

Inlet ports (2):

1/2" or 3/4" PTF or ISO G

Outlet port (1):

1/2" PTF with PTF inlet ports, or
1/2" ISO Rc with ISO G inlet ports

Gauge port (1):

1/8" PTF with PTF inlet ports
1/8" ISO Rc with ISO G inlet ports

Materials

Body: Aluminum

Bonnet: Aluminum

Elastomers: Nitrile

Bottom plug: Acetal



R72M

R74M

Ordering Information.

Models listed include PTF threads, knob adjustment, relieving diaphragm, 5 to 150 psig (0.3 to 10 bar) outlet pressure adjustment range* with gauge.

Inlet Port (2)	Outlet Port (1)	Model	Flow† scfm (dm3/s)	Weight lb (kg)
1/4"	1/4"	R72M 2AK RMG	83 (39)	0.79 (0.36)
3/8"	1/4"	R72M 3AK RMG	83 (39)	0.79 (0.36)
1/2"	1/2"	R74M 4AK RMG	220 (105)	1.77 (0.8)
3/4"	1/2"	R74M 6AK RMG	220 (105)	1.73 (0.78)

† Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) droop from set.

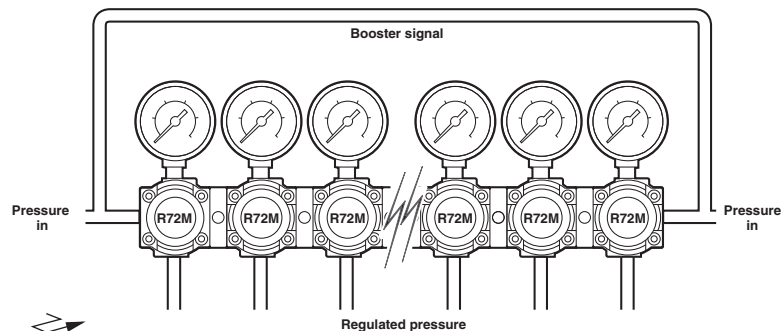
Alternative Models

Series	Substitute	Gauge	Substitute
72	2	With	G
74	4	Without	N
Inlet Port Size	Substitute	Outlet Pressure Adjustment Range*	Substitute
1/4"	2	5 to 30 psig (0.3 to 2 bar) (R72M)	C
3/8"	3	5 to 60 psig (0.3 to 4 bar)	F
1/2"	4	5 to 150 psig (0.3 to 10 bar)	M
3/4"	6	10 to 250 psig (0.7 to 17 bar)**	S
Threads	Substitute	Diaphragm	Substitute
PTF	A	Relieving	R
ISO Rc taper	B	Non relieving	N
ISO G parallel	G	Adjustment	Substitute
		Knob	K
		T-bar	T

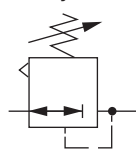
* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

** Units with 250 psig (17 bar) outlet pressure range are available only with the T-bar adjustment. Substitute "T" in the 7th position and "S" in the 9th position.

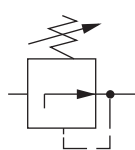
Typical Manifold Regulator Application (R72M shown)



ISO Symbols



Relieving



Non Relieving

Dimensions in inches (mm)

R72M and R74M Manifold Regulators

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

Accessories

Wall mounting bracket*



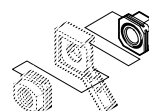
Neck mounting bracket


 Gauge
0 ... 160 psig


Panel nut



Tamper resistant cover and seal wire


 Pipe adapters
(quantity of 1) (NPT)


Quikclamp®



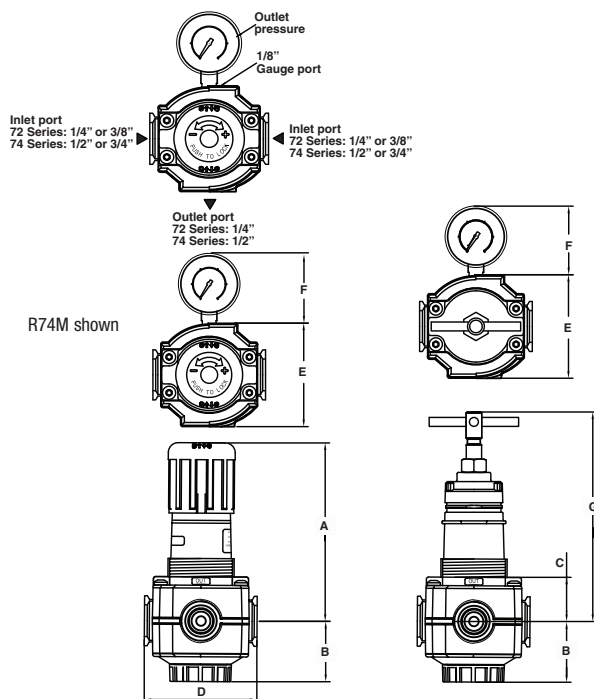
Quikclamp® and wall bracket



Service kit

R72G	4224-50	74316-50	18-013-212	4248-89	4255-51	4215-02 (1/4)	4214-51	4214-52	4381-500
						4215-03 (3/8)			
R74G	4324-50	4368-51	18-013-209	4348-89	4355-51	4315-02 (3/8)	4314-51	4314-52	4381-700
						4315-03 (1/2)			
						4315-04 (3/4)			

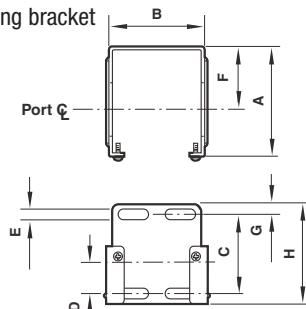
* Bracket kit does not include wall mounting screws.



Series	A	B	C	D	E	F	G	Panel Ø	Panel depth
72	2.88 (73.3)	1.31 (33.2)	1.01 (25.7)	1.98 (50.2)	1.91 (48.4)	1.90 (48.3)	4.03/4.25** (102.2/108)	1.57 (39)	0 to .16 (0 to 4)
74	4.98 (126.6)	1.69 (43.0)	1.24 (31.4)	3.1 (80.0)	2.89 (73.5)	2.72 (69.0)	5.86 (148.8)	2.05 (52)	.07 to .25 (1.8 to 6)

** 72 Series 250 psi version with Zinc bonnet and T-handle.

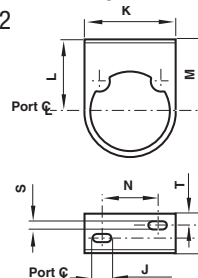
Mounting bracket



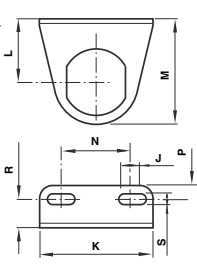
Series	A	B	C	D	E	F	G	H
72	2.36 (60)	1.65 (42)	1.54 (39)	0.73 (19)	0.16 (4)	1.50 (38)	0.24 (6)	2.01 (51)
74	3.11 (79)	2.72 (69)	1.97 (50)	0.79 (20)	0.20 (5)	2.01 (51)	0.24 (6)	2.40 (61)

Neck mounting brackets

R72



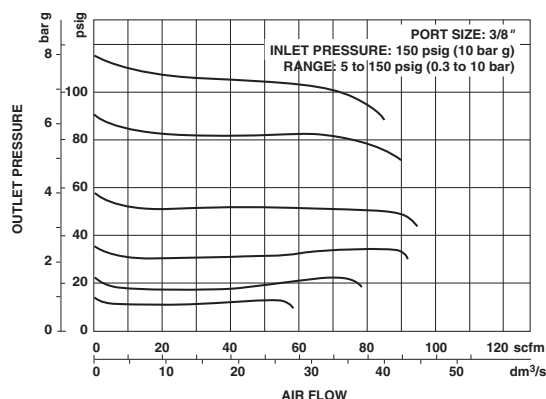
R74



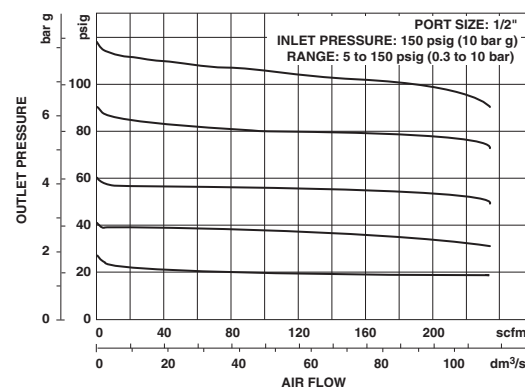
Series	J	K	L	M	N	P	R	S	T	V
72	0.31 (8)	1.93 (49)	1.50 (38)	2.50 (64)	1.18 (30)	0.94 (24)	-	0.17 (4)	0.31 (8)	0.59 (15)
74	0.94 (24)	3.50 (89)	2.05 (52)	3.39 (86)	2.20 (56)	1.38 (35)	0.91 (23)	0.28 (7)	-	-

Typical Performance Characteristics

R72M FLOW CHARACTERISTICS



R74 FLOW CHARACTERISTICS



R30M Series Manifold Regulator

8 mm and 10 mm Port Sizes

Push-in fittings in ports. No need for threaded connectors and fittings

Integral base mounting

Water or compressed air only

Technical data

Fluid:

Compressed air or water, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

150 psig (10 bar)

Operating temperature*:

23° to 104°F (-5° to 40°C)

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

Gauge port:

(can be used as additional outlet port) 10 mm OD tube with 10 mm OD tube main ports: 8 mm OD tube with 8 mm OD tube main ports

Two inlet ports: 10 mm OD tube or 8 mm o/d tube

One outlet port: 10 mm OD tube with 10 mm OD tube inlet

8 mm OD tube with 8 mm OD tube inlet

Materials:

Body: Acetal

Bonnet: Acetal

Valve: Brass/nitrile

Elastomers: Nitrile

Valve seat: Acetal



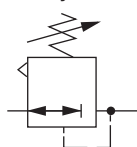
Ordering Information.

Models listed include 10 mm push-in fittings, knob adjustment, relieving diaphragm, 0 to 70 psig (0 to 4.8 bar) outlet pressure adjustment range* with gauge, with porting plug.

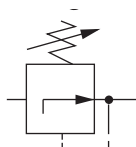
Port	Model	Flow† scfm (dm ³ /s)	Weight lb (kg)
8 mm	R30M 8DK RGG	17 (8)	0.22 (0.10)
10 mm	R30M ADK RGG	17 (8)	0.22 (0.10)

† Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) droop from set.

ISO Symbols



Relieving



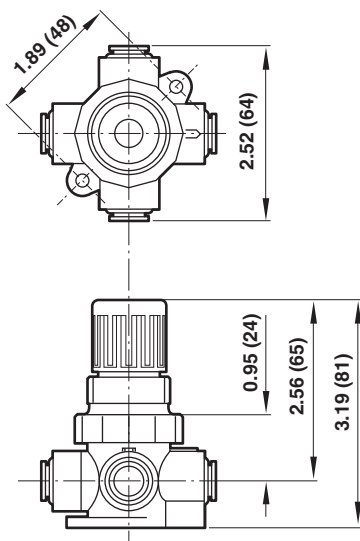
Non relieving

R30M Series Manifold Regulator

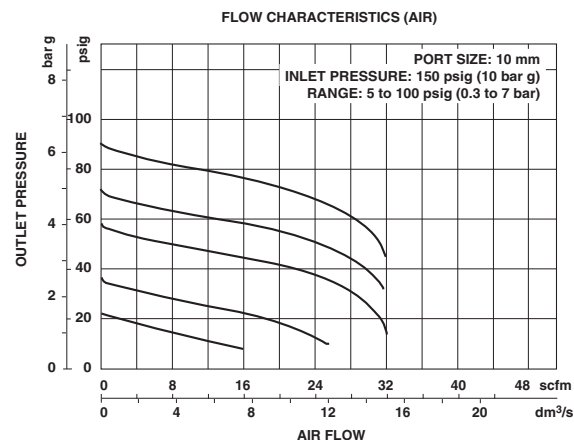
8 mm and 10 mm Port Sizes

Typical Performance Characteristics

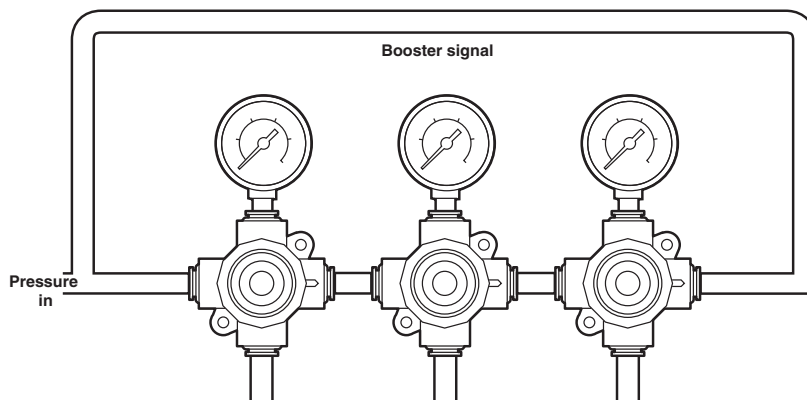
Panel mounting hole diameter: 1.19" (30 mm)
Maximum panel thickness: 0.25" (6 mm)



Dimensions in inches (mm)



Typical Manifold Regulator Application



Stainless Steel Products

R05, and B05

Designed for use in corrosive environments

Metallic parts meet NACE Standard MR-01-75*

* 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 data

R05

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

300 psig (20 bar)

Operating temperature:

With Acetal bonnet

-13° to 150°F (-25°C to 66°C)*

With metal bonnet

-13°F to 175°F (-25°C to 80°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C). Contact Norgren for use below -13°F (-25°C).

NOTE: Low temperature options available to -40°F (-40°C).

B05

Fluid:

Compressed air

Maximum pressure:

300 psig (20 bar)

Operating temperature:

With Acetal bonnet

-13° to 150°F (-25°C to 66°C)*

With metal bonnet

-13°F to 175°F (-25°C to 80°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C). Contact Norgren for use below -13°F (-25°C).

NOTE: Low temperature options available to -40°F (-40°C).

Particle removal:

5 µm or 40 µm filter element

Materials

R05

Body: 316 stainless steel

Bonnet: 316 Stainless steel with T-handle or Acetal with stainless steel adjusting screw

Valve: 316 Stainless steel with fluorocarbon elastomer

Valve seat: Acetal

Springs: 302 Stainless steel

Elastomers: Fluorocarbon

B05

Body and bowl: 316 stainless steel

Bonnet: 316 Stainless steel with T-handle or Acetal with stainless steel adjusting screw

Valve: 316 Stainless steel with fluorocarbon elastomer

Valve seat: Acetal

Springs: 302 Stainless steel

Drain: Stainless steel or Acetal

Element: Sintered polypropylene

Elastomers: Fluorocarbon

Autodrain: Nitrile



B05 Filter/Regulators

R05 Regulators

R05 Ordering Information

Standard models listed are relieving type with 5 to 125 psig (0.3 to 8.5 bar) outlet pressure adjustment range* and PTF threads. A gauge is not included.

Port Size	Model	Bonnet type	Flow** scfm (dm3/s)	Weight lb (kg)	Service kit†
1/4" PTF	R05-200-RNLA	Acetal	15 (7)	0.32 (0.15)	3407-71
1/4" PTF	R05-232-RNLA	Stainless steel w/ T-handle	15 (7)	0.58 (0.26)	3407-71

B05 Ordering Information

Standard models listed include a relieving diaphragm, manual drain, 5 µm element, 5 to 125 psig (0.3 to 8.5 bar) outlet pressure adjustment range* and PTF threads. A gauge is not included.

Port Size	Model	Bonnet type	Drain type (material)	Flow** scfm (dm3/s)	Weight lb (kg)	Service kit†
1/4" PTF	B05-233-M1LA	Acetal	manual (Acetal)	15 (7)	0.85 (0.38)	3820-08
1/4" PTF	B05-238-M1LA	Stainless steel w/ T-handle	manual (SS)	15 (7)	1.20 (0.54)	3820-08
1/4" PTF	B05-233-A1LA	Acetal	automatic (SS)	15 (7)	0.85 (0.38)	3820-08

* 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.

** Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and 15 psig (1 bar) droop from set.

† Service kit includes diaphragm, seals, o-rings, and valve

Additional Options††

R 0 5 - 2 ★ ★ - ★ N ★ A

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

Outlet Pressure Adjustment Ranges*	Substitute
5 to 50 psig (0.3 to 3.5 bar)	E
5 to 125 psig (0.3 to 8.5 bar)	L

Diaphragm	Substitute
Relieving	R
Non relieving	N

B 0 5 - 2 ★ ★ - ★ ★ ★ ★

Diaphragm & Bonnet	Substitute
Relieving, acetal knob	33
Non relieving, acetal knob	35
Relieving, stainless steel T-handle	38†
Non-relieving, stainless steel T-handle	41†

Drain	Substitute
Automatic (stainless steel)	A
Manual (Acetal)	M

Threads	Substitute
PTF	A

Outlet Pressure Adjustment Ranges*	Substitute
5 to 50 psig (0.3 to 3.5 bar)	E
5 to 125 psig (0.3 to 8.5 bar)	L

Element	Substitute
5 µm	1
40 µm	2

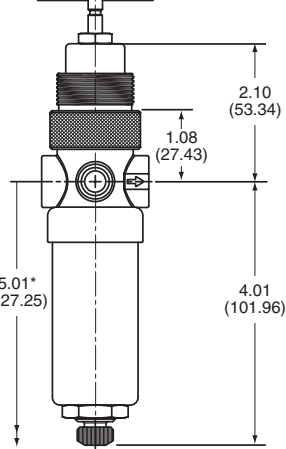
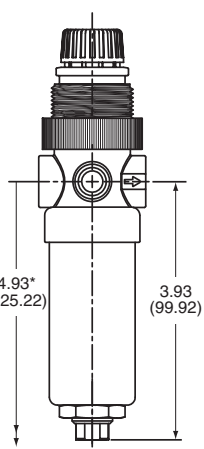
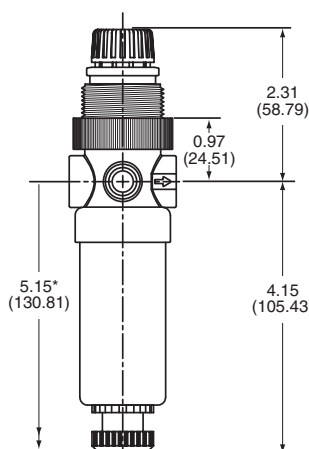
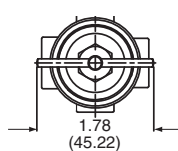
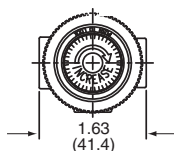
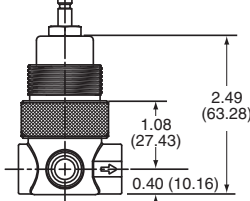
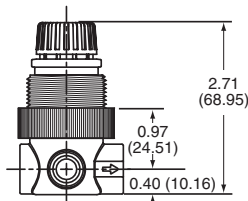
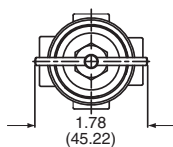
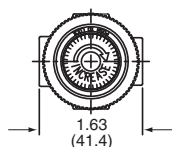
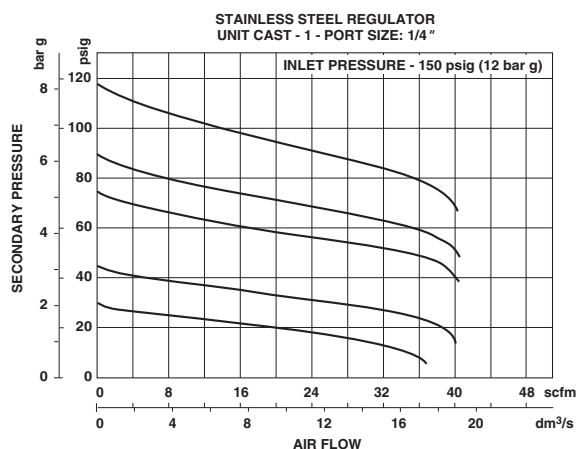
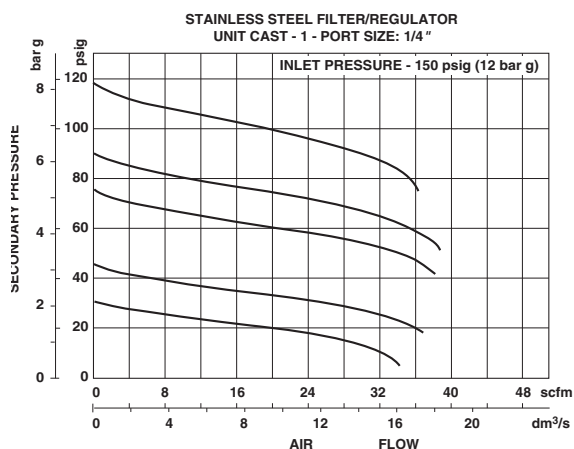
†† These options may require minimum order quantities and may have longer lead times.

† Options 38 and 41 have stainless steel manual drains as standard.

Stainless Steel Products

R05, and B05

Dimensions in inches (mm)



Manual drain

Auto drain

Stainless steel
Manual drain

*Minimum distance to remove bowl

Accessories

Panel nut
(Acetal)



2962-89

Gauge
(Stainless steel)
0 ... 140 psig

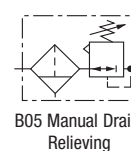


18-013-844

ISO Symbols



R05 Relieving



B05 Manual Drain,
Relieving

AIR LINE EQUIPMENT

Stainless Steel Products

R38, and B38

Designed for use in corrosive environments

Metallic parts meet NACE Standard MR-01-75*

* 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 data

R38

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

450 psig (31 bar)

Operating temperature:

-40° to 175°F (-40° to 80°C) *

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

B38

Fluid:

Compressed air

Maximum pressure:

Manual drain: 450 psig (31 bar)

Automatic drain: 250 psig (17 bar)

Operating temperature:

-40° to 175°F (-40° to 80°C) *

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

Particle removal:

5 µm or filter element

Materials

R38

Body: Stainless steel

Bonnet: Stainless steel

Adjusting screw: Stainless steel

Elastomeric materials: Nitrile

B38 (standard option)

Body: Stainless steel

Bonnet: Stainless steel

Bowl: Stainless steel

Adjusting screw: Stainless steel

Elements

5 µm: High density polyethylene

1/4" only 5 µm: Ceramic pyrolyth

Elastomeric materials: Nitrile



R38

B38

R38 Ordering Information

Models listed are relieving type with 0.6 to 30 psig (0.04 to 2 bar) outlet pressure adjustment range **, and PTF threads. A gauge is not included.

Port Size	Model Number	Flow† scfm (dm³/s)	Weight lbs (kg)
1/4" PTF	R38-240-RNCA	17 (8)	1.56 (0.71)

** 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.

† Typical flow with 100 psig (7 bar) inlet pressure, 15 psig (1 bar) set pressure and 1 psig (0.05 bar) droop from set.

B38 Ordering Information

Models listed are relieving type with manual drain, 5µm element, and PTF threads. A gauge is not included.

Port Size	Model Number	Outlet pressure range psig (bar)	Flow** scfm (dm³/s)	Weight kg (lbs)
1/4" PTF	B38-240-B1KA	4 to 100 (0.3 to 7)	15 (7)	3.11 (1.4)
1/2" PTF	B38-440-M1LA	4 to 125 (0.3 to 9)	106 (50)	4.75 (2.2)

** Typical flow with 175 psig (12 bar) inlet pressure, 115 psig (8 bar) set pressure and 15 psig (1 bar) droop from set.

Accessories

Neck mounting bracket



18-001-959

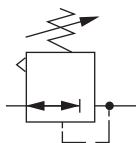
**Gauge
0 ... 140 psig**



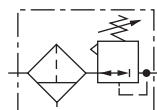
18-013-909

* Bracket kit does not include wall mounting screws.

ISO Symbols



R38



B38 Manual Drain, Relieving

Stainless Steel Products

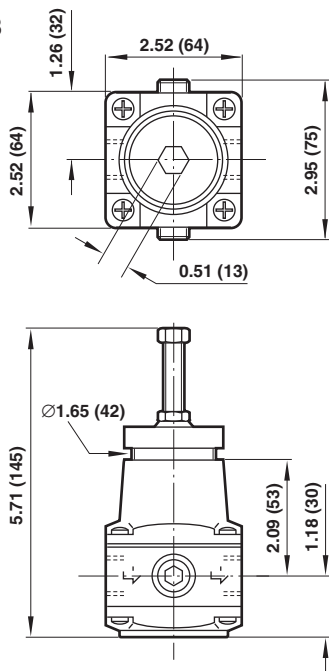
R38, and B38

Dimensions in inches (mm)

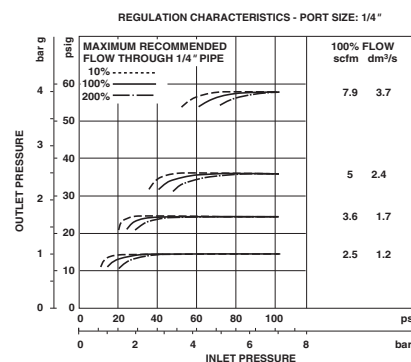
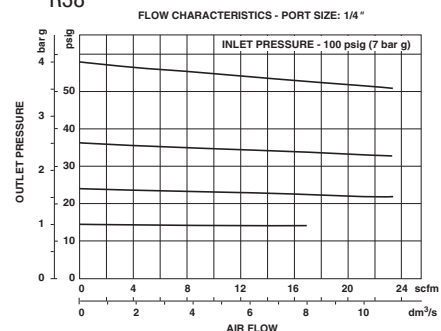
Panel mounting hole diameter: 1.65" (42 mm)

Maximum panel thickness: 0.24" (6 mm)

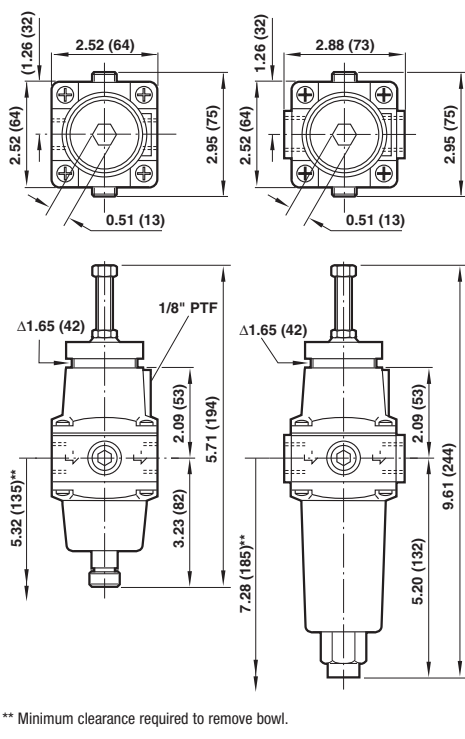
R38



R38

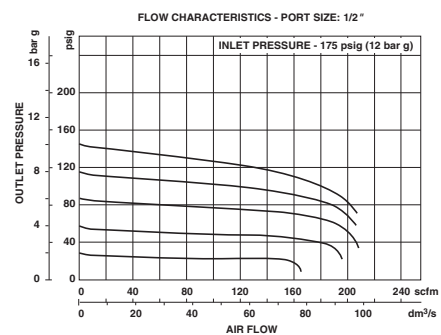
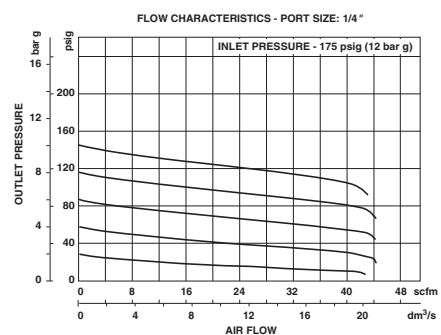


B38



Panel mounting hole diameter: 1.65" (42 mm)
Maximum panel thickness: 0.24" (6 mm)

B38

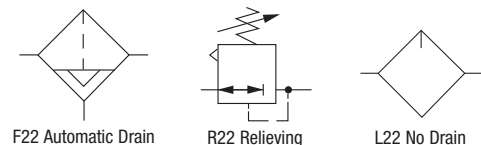


** Minimum clearance required to remove bowl.

Stainless Steel Products

F22, R22, L22

ISO Symbols



Designed for use in corrosive environments

Metallic parts meet NACE Standard MR-01-75*

* National Association of Corrosion Engineers (NACE) MR-01-75 defines requirements for sulphide stress cracking resistant

Technical data

F22

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

250 psig (17 bar)

Operating temperature:

0° to 175°F (-20° to 80°C)*

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

Particle removal:

5 µm optional

Air quality:

Within ISO 8573-1, Class 3 and Class 5 (particulates)

R22

Fluid:

Compressed air

Maximum pressure:

290 psig (20 bar)

Operating temperature:

-4° to 175°F (-20° to 80°C)*

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

L22

Fluid:

Compressed air

Maximum pressure:

250 psig (17 bar)

Operating temperature:

-4° to 175°F (-20° to 80°C)*

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



Filters

Model listed has PTF threads, automatic drain, and 25 µm element.

Port Size	Model Number	Flow† scfm (dm3/s)	Weight lbs (kg)
1/2 PTF	F22-405-A2DA	98 (46)	4.18 (1.88)

† Typical flow with element at 90 psig (6.3 bar) inlet pressure, and 5 psig (0.35 bar) pressure drop.

Regulators

Models listed have T-handle adjustment, relieving diaphragm, 5 to 150 psig (0.4 to 10 bar) outlet pressure adjustment range and PTF threads. A gauge is not included.

Port Size	Model Number	Flow** scfm (dm3/s)	Weight lbs (kg)
1/2 PTF	R22-401-RNMA (T-handle adjustment)	106 (50)	3.35 (1.52)
1/2 PTF	R22-405-RNMA (handwheel adjustment)	106 (50)	3.35 (1.52)

** Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3) set pressure, and a 15 psig (1 bar) droop from set.

Lubricators

Model listed is oil-fog unit with closed bowl (no drain) and PTF threads.

Type	Model Number	Flow† scfm (dm3/s)	Weight lbs (kg)
Oil-Fog	L22-405-OP8A	102 scfm (48 dm³/s)	4.29 (1.93)

† Typical flow with 90 psig (6.3 bar) inlet pressure and 7 psig (0.5 bar) pressure drop.

Materials

F22

Body: Stainless steel
 Bowl: Stainless steel
 Element: Sintered stainless steel
 Elastomers: Nitrile

R22

Body: Stainless steel
 Bonnet: Stainless steel
 Adjusting screw: Stainless steel
 Handwheel: Stainless steel, acetal
 Elastomers: Nitrile

L22

Body: Stainless steel
 Bowl: Stainless steel
 Elastomers: Nitrile

Accessories

Neck mounting bracket



18-001-959

Wall mounting bracket



18-001-962

Gauge 0 ... 140 psig



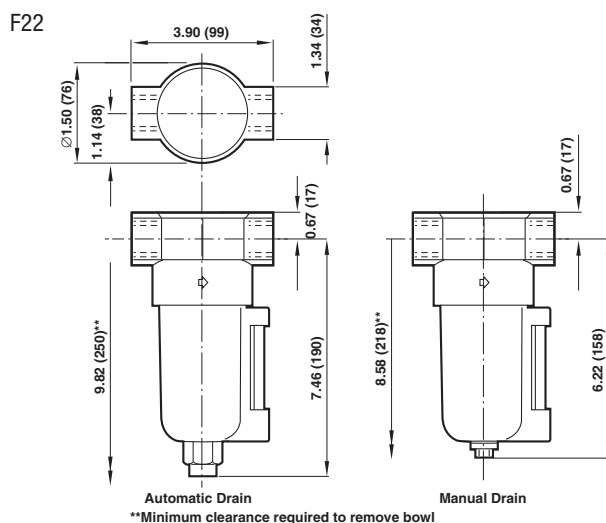
18-013-909

* Bracket kit does not include wall mounting screws.

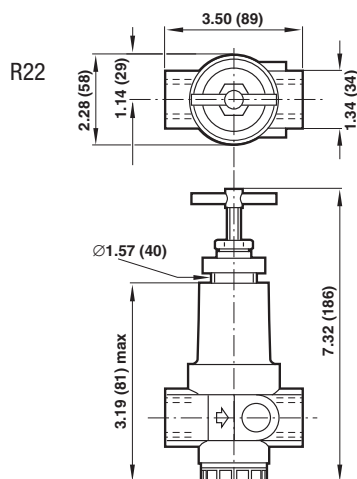
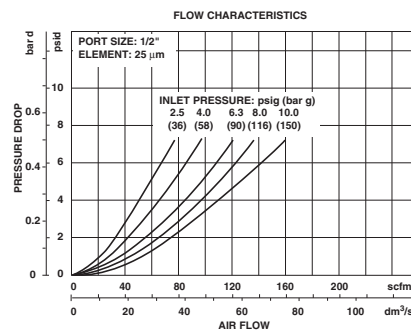
Stainless Steel Products

F22, R22, L22

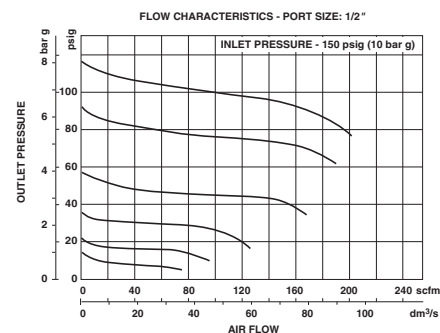
Dimensions in inches (mm)



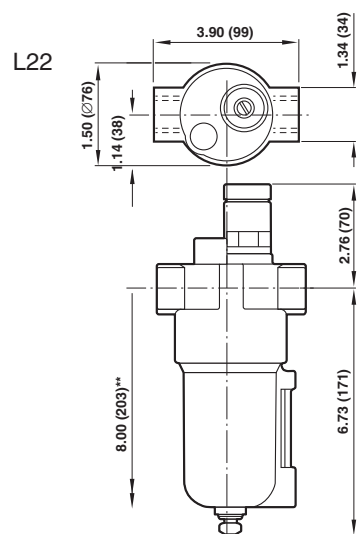
F22



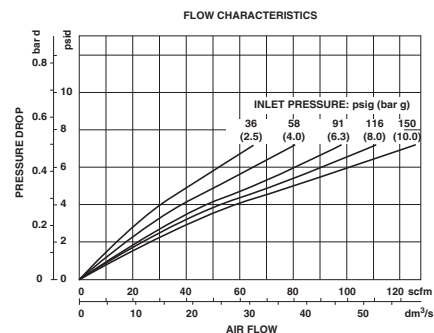
R22



Panel mounting hole diameter: 1.65" (42 mm)
Maximum Panel thickness: 0.37" (9.5 mm)



L22



** Minimum clearance required to remove bowl.

R06 Miniature Brass Water/Air Regulator

1/8" and 1/4" PTF Port Sizes

Compact design, corrosion resistant construction

Brass body with choice of plastic or brass bonnet

Brass bonnet equipped with pressure adjusting screw

Non-relieving models for water and air service

Technical data

Fluid:

Water and compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

400 psig (27 bar)

Operating temperature

Water service: 35° to 150°F (2° to 65°C)†

Air service: -30° to 150°F (-34° to 65°C) *†

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

Typical flow for water service at 100 psig (7 bar) inlet pressure, 60 psig (4 bar) set pressure and a droop of 15 psig (1 bar) from set: 1.3 gpm (4.9 lpm)

Typical flow for compressed air service at 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set: 12 scfm (5.7 dm³/s)

Gauge ports:

1/8" PTF

Materials

Body: Brass

Bonnet

Standard: Acetal resin

Optional: Brass

Valve: Brass/nitrile

Valve seat: Acetal resin

Elastomers: Nitrile



R06 221



R06 222

Ordering Information

Models listed have PTF threads, non-relieving diaphragm, and no gauge.

Port	Model	Flow* scfm (dm ³ /s)	Flow** gpm (lpm)	Weight lb (kg)
1/8" PTF	R06 121 NNKA	12 (5.7)	1.3 (4.9)	0.2 (0.09)
1/4" PTF	R06 221 NNKA	12 (5.7)	1.3 (4.9)	0.2 (0.09)

* Approximate flow with 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) droop from set.

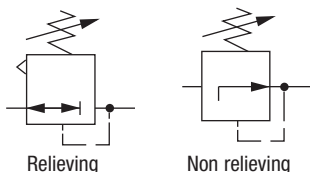
** Approximate flow with 100 psig (7 bar) inlet pressure, 60 psig (4 bar) set pressure and a 15 psig (1 bar) droop from set.

Alternative Models

		R06 ★★ ★★ ★★ ★★ A	
Port Size	Substitute	←	
1/8"	1		
1/4"	2		
Bonnet	Substitute	←	
Plastic	21		
Brass	22		
Diaphragm	Substitute	←	
Relieving	R		
Non relieving	N		
		→	Outlet Pres Adj† Substitute
			1 to 10 psig (0.1 to 0.7 bar) A
			5 to 50 psig (0.3 to 3.5 bar) E
			5 to 100 psig (0.3 to 7 bar) K
			5 to 125 psig (0.3 to 8.6 bar) L
		→	Gauges Substitute
			With G
			Without 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.

ISO Symbols



R06 Miniature Brass Body Regulator

Water and Compressed Air Service

1/8" and 1/4" PTF Port Sizes

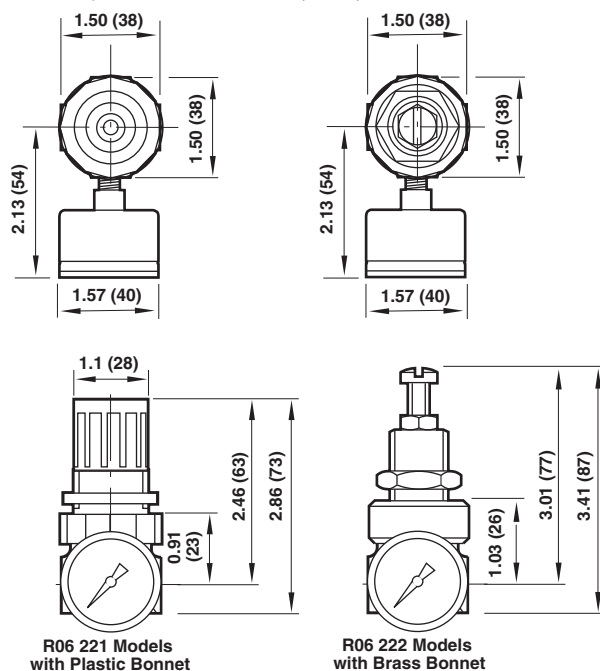
Dimensions in inches (mm).

Panel mounting hole diameter:

Models with plastic bonnet: 1.19" (30 mm)

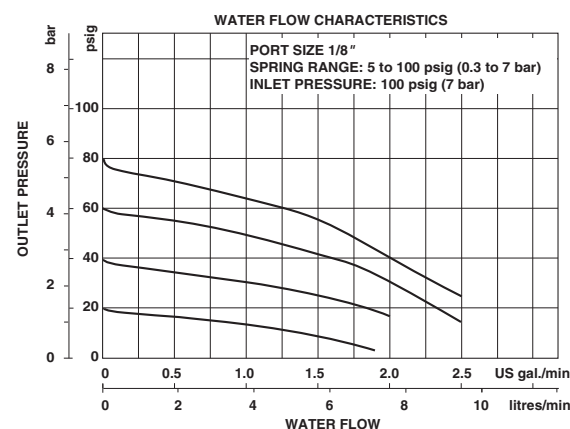
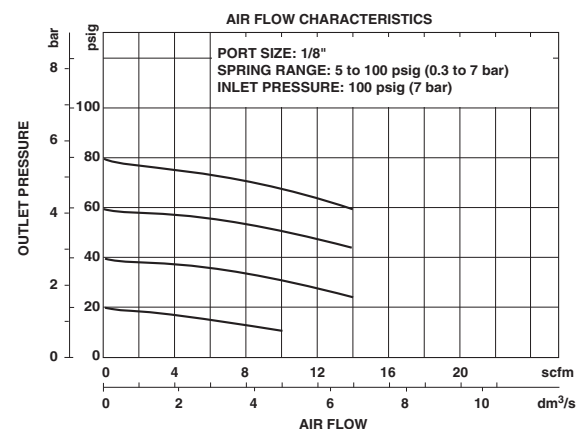
Models with brass bonnet: 0.81" (21mm)

Maximum panel thickness: 0.25" (6 mm)



† Brass bonnet & body combination max temperature 200°F

Typical Performance Characteristics



Service Kits

Item	Type	Part number
Service Kit	Relieving	3407-18
	Non relieving	3407-17

Service kit includes slip ring, diaphragm, standard valve seat with o-ring, valve, valve spring.

R14, R16 Miniature, Preset, Nonadjustable Pressure Regulator

Water and Compressed Air Service

1/8" or 1/4" PTF Port Sizes

Non-relieving models for air and water service

Relieving models for air service allow reduction of outlet pressure even when the system is dead-ended

R14 has aluminum body and bonnet

R16 has brass body and bonnet

Factory preset, tamper resistant pressure setting

Technical data

Fluid

R14: Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

R16: Water and compressed air

Maximum pressure:

400 psig (27 bar)

Operating temperature

Water service: 35° to 175°F (2° to 79°C)†

Air service: -30° to 175°F (-34° to 79°C)*

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

† R16 brass bonnet & body combination max temp. 200°F.

Type

R14: Piston, relieving or non-relieving

R16: Diaphragm, relieving or non-relieving

Gauge ports:

1/8" PTF

Factory preset outlet pressure settings:

3 to 99 psig (0.2 to 6.8 bar)

Outlet pressure tolerance:

Outlet pressure setting - psig (bar)

Tolerance - psig (bar)**

3 to 20 psig (0.21 to 1.38 bar) ± 1.0 psig (0.07 bar)
21 to 50 psig (1.45 to 3.45 bar) ± 2.0 psig (0.14 bar)

51 to 99 psig (3.52 to 6.84 bar) ± 3.0 psig (0.21 bar)

** When outlet pressure is preset at the factory, the following conditions exist

Inlet pressure:

100 psig (6.9 bar) for outlet pressures up through 95 psig (6.6 bar)

125 psig (8.6 bar) for outlet pressures of 96 through 99 psig (6.7 through 6.8 bar)

Materials

Body and bonnet

R14: Aluminum

R16: Brass

Valve: Brass

Valve seat: Acetal resin

Elastomers: Nitrile



Ordering Information.

Models listed are relieving type for compressed air service with PTF threads and with gauge ports

Port	Model	Flow† scfm (dm³/s)	Flow†† U.S. gpm (lpm)	Weight lb (kg)
1/8" PTF	R14 100 R**A	12 (5.7)	1.3 (4.9)	0.2 (0.09)
1/8" PTF	R16 100 R**A	12 (5.7)	1.3 (4.9)	0.7 (0.32)
1/4" PTF	R14 200 R**A	12 (5.7)	1.3 (4.9)	0.2 (0.09)
1/4" PTF	R16 200 R**A	12 (5.7)	1.3 (4.9)	0.7 (0.32)

† Approximate flow with 100 psig (7 bar) inlet pressure, 80 psig (5.5 bar) set pressure and a 15 psig (1 bar) droop from set.

†† Approximate flow with 100 psig (7 bar) inlet pressure, 60 psig (4 bar) set pressure and a 15 psig (1 bar) droop from set.

Alternative Models

Type/Service	Substitute
Piston; air service only	14
Diaphragm; air and water service	16

Port Size	Substitute
1/8"	1
1/4"	2

Gauge ports in body	Substitute
With gauge ports	00
Without gauge ports	01

Diaphragm	Substitute
Relieving	R
Non relieving	N

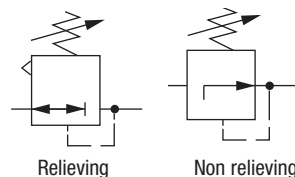
Threads	Substitute
PTF	A

**** The 8th and 9th positions of the model number contain the Modified Outlet Pressure Setting. The Modified Outlet Pressure Setting is the desired outlet pressure, modified to allow for inlet pressures other than 100 psig, and for flows other than zero. Insert the modified outlet pressure setting in positions 8 and 9 as described below.**

- Write down the desired outlet pressure and the flow through the regulator. EXAMPLE: 30 psig outlet pressure at 10 scfm flow.
- Modifications for inlet pressures other than 100 psig: If inlet pressure exceeds 100 psig*, add 1 psig to the desired outlet pressure for each 20 psig the inlet pressure is above 100 psig*. EXAMPLE: If the inlet pressure is 180 psig, add 4 to the desired outlet pressure. Following through with the example in step 1, add 4 to 30 for a modified outlet pressure setting of 34 psig. If inlet pressure is less than 100 psig*, subtract 1 psig from the desired outlet pressure for each 20 psig the inlet pressure is below 100 psig*. EXAMPLE: If the inlet pressure is 60 psig, subtract 2 from the desired outlet pressure. Following through with the example in step 1, subtract 2 from 30 for a modified outlet pressure setting of 28 psig.
- Modifications for flows other than zero: Determine the pressure drop from the appropriate flow curve above. Add the pressure drop to the modified outlet pressure setting. EXAMPLE: If the desired outlet pressure is 30 psig at a flow of 10 scfm, add 10 to the modified outlet pressure setting. The quantity of 10 is the difference between the outlet pressure (30 psig) at the desired flow (10 scfm) and outlet pressure (40 psig) at no flow. See dashed lines on the air flow curve for example. Following through with the first example in Step 2 above, add 10 to the 34 to obtain a modified outlet pressure setting of 44. Enter 44 in the 8th and 9th positions of the model number.

* 125 psig for outlet pressure settings of 95 through 99 psig.

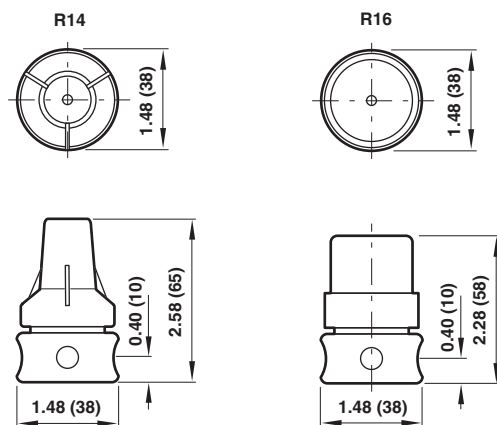
ISO Symbols



R14, R16 Miniature, Preset, Nonadjustable Pressure Regulator

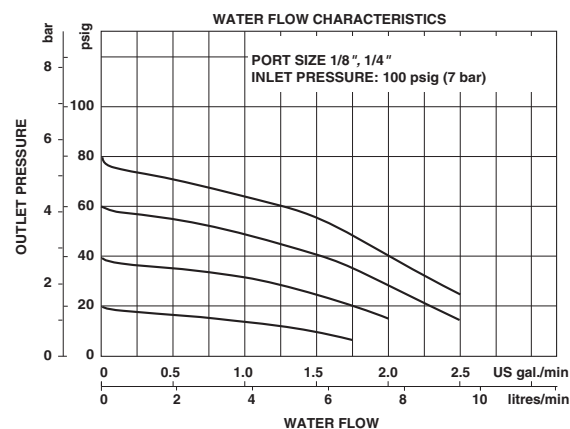
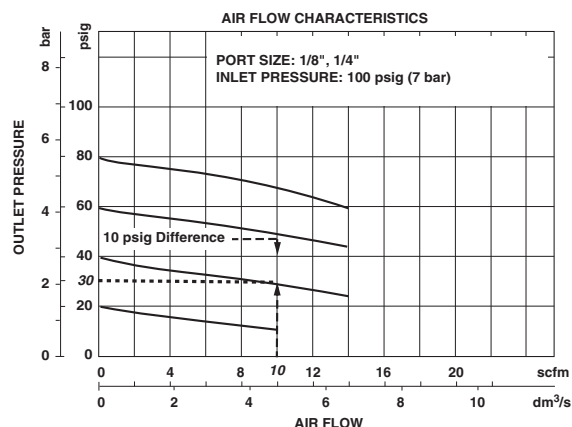
Water and Compressed Air Service

1/8" or 1/4" PTF Port Sizes



Dimensions in inches (mm)

Typical Performance Characteristics



11 044 Pressure Regulator

Water and Compressed Air Service

1/4" Tube connection

Non-relieving models.

Acetal plastic, corrosion resistant construction

Low torque, non-rising adjusting knob.

Designed for use with deionized water and potable water systems. Plastic (not assembly) is NSF approved. All elastomers are CFR 21 FDA food and water contact compliant. Non-relieving models only.

Technical data

Fluid:

Water and compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

250 psig (17 bar)

Operating temperature:

Water service: 35° to 150°F (2° to 66°C)

Air service: -30° to 150°F (-34° to 66°C) *

*When used in air service, air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Port connections:

1/4" OD tube (brass nut and plastic ferrule supplied)

Recommended tubing: 1/4" soft PVC or Polyethylene tubing. Avoid aluminum, copper, and hard plastic tubing.

Typical flow:

Compressed air service at 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set: 3.0 scfm (1.4 dm³/s)

Water service at 100 psig (7 bar) inlet pressure, 60 psig (4 bar) set pressure and a droop of 15 psig (1 bar) from set: 0.7 U.S. gpm (2.65 liters per minute)

No gauge ports

Materials

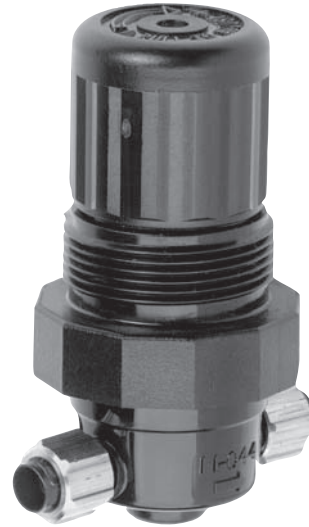
Body: Acetal

Bonnet: Acetal

Valve: Stainless steel with EPDM seal (CFR21 FDA food and water contact compliant)

Valve seat: Acetal

Diaphragm: Stainless steel and nitrile (CFR21 FDA food and water contact compliant)



Ordering Information

Model listed has non-relieving diaphragm, and 5 to 100 psig (0.3 to 7 bar) outlet pressure adjustment range.†

Port Connection	Model	Flow* scfm (dm ³ /s)	Flow** U.S. gpm (lpm)	Weight lb (kg)
1/4" tube nut and ferrule	11 044 003	3.0 (1.4)	0.7 (2.65)	0.16 (0.08)

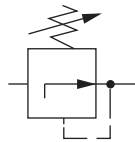
For additional models contact the factory.

* Approximate flow with 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) droop from set.

** Approximate flow with 100 psig (7 bar) inlet pressure, 60 psig (4 bar) set pressure and a 15 psig (1 bar) droop from set.

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

ISO Symbols



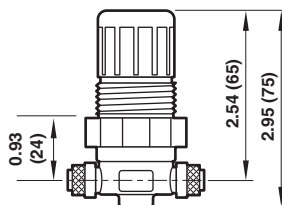
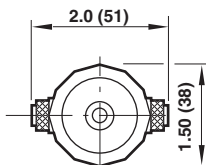
Non relieving

11 044 Pressure Regulator

Water and Compressed Air Service

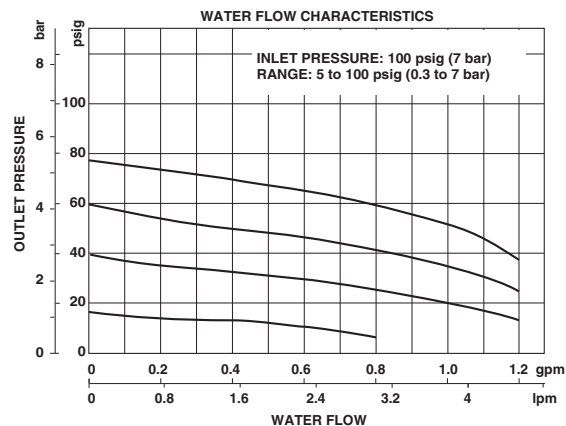
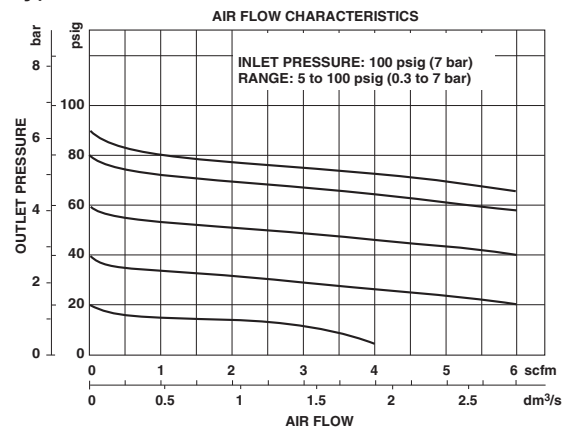
1/4" Tube connection

Panel mounting hole diameter: 1.19" (30 mm)
Maximum panel thickness: 0.25" (6 mm)



Dimensions in inches (mm)

Typical Performance Characteristics



Service Kits

Type	Part number
Non-relieving	3407-59

Service kit includes slip ring, valve seat, valve, valve spring, and diaphragm.

R91 Water or Compressed Air Pressure Regulator

Regulator 1/4" Port Size

R91W: Use with deionized water and potable water systems. Plastic (not assembly) is NSF approved. All elastomers are CFR 21 FDA food and water contact compliant. Non relieving models only.

R91G: Use with non-potable water (non-relieving only) and compressed air systems (Non relieving and relieving models.)

Technical data

Fluid

R91G: Compressed air and non-potable water, neutral gases

NOTE: Contact Norgren for use with other media.

R91W: Potable water, deionized water

Maximum pressure:

150 psig (10 bar)

Operating temperature

Water service: 35° to 125°F (2° to 52°C)

Air service: 0° to 125°F (-20° to 52°C)*

* When used in air service, air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Gauge ports:

1/8 PTF with PTF main ports

R1/8 with ISO Rc main ports

R1/8 with ISO G main ports

Materials

Body and bonnet: Acetal

Valve

R91G: Brass/nitrile

R91W: Stainless steel/food grade EPDM

Valve seat: Acetal

Valve seat o-ring

R91G: Nitrile

R91W: Food grade EPDM

Diaphragm

R91G: Acetal/nylon inserted nitrile

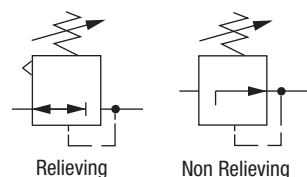
R91W: Acetal/nylon inserted nitrile, food grade

Gauge port plugs: Nylon for NPT

Brass for ISO G & Rc

(furnished only with PTF-ported units)

ISO Symbols



Ordering Information

Models listed include PTF threads, knob adjustment, non relieving diaphragm, 5 to 125 psig (0.3 to 8.6 bar) outlet pressure adjustment range†, and without gauge.

Inlet Port	Application	Model	Flow* scfm (dm3/s)	Flow** gpm (lpm)	Weight lb (kg)
1/4"	Industrial air and non-potable water	R91G 2AK NLN	24 (11)	1.75 (6.6)	0.15 (0.07)
1/4"	Potable water and deionized water	R91W 2AK NLN	24 (11)	1.75 (6.6)	0.15 (0.07)

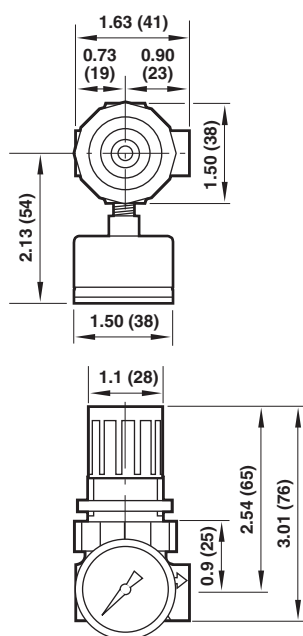
* Typical flow for compressed air service at 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set.

** Typical flow for water service at 100 psig (7 bar) inlet pressure, 60 psig (4 bar) set pressure and a droop of 15 psig (1 bar) from set.

R91 Water or Compressed Air Pressure Regulator

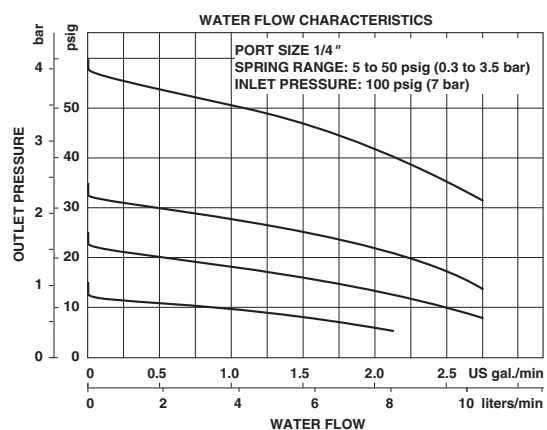
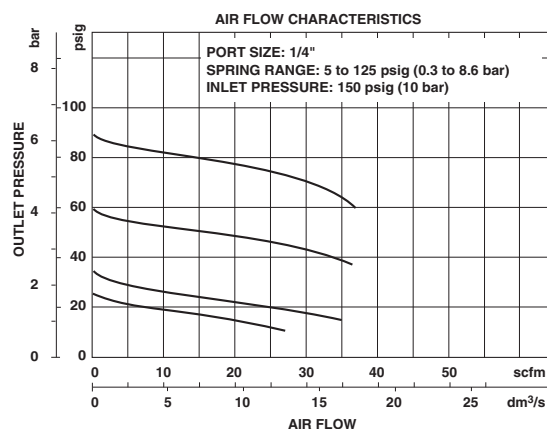
Regulator 1/4" Port Size

Panel mounting hole diameter 1.19" (30 mm)
Maximum panel thickness 0.25" (6 mm)



Dimensions in Inches (mm)

Typical Performance Characteristics



Service Kits

Item	Type	Part number
Service Kit	R91W, non relieving	3407-93
	R91G, non relieving	3407-94
	R91G, relieving	3407-95

Service kit contains slip ring, diaphragm, valve seat with o-ring, valve, and valve spring.

Water Regulator

1/4", 3/8" and 1/2" Port Sizes

Non-relieving models

Brass body, corrosion resistant construction

Full flow gauge ports can be used as auxiliary outlets

Technical data

Fluid:

Water and compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

400 psig (27 bar)

Operating temperature:

Water service: 35° to 200°F (2° to 93°C)

Air service: -30° to 200°F (-34° to 93°C)*

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

R43 Gauge ports

1/4" PTF with PTF main ports

1/4" ISO G with ISO G main ports

1/4" ISO Rc with ISO Rc main ports

11-009 Gauge ports:

1/8" PTF with PTF main ports

G1/8 with ISO G main ports

Rc1/4 with ISO Rc main ports

Materials:

Body: Brass

Bonnet: Aluminum

Valve: Brass

Bottom plug: Brass

Elastomers: Nitrile



R43



11-009

R43 Ordering Information

Models listed have T-handle adjustment, 5 to 125 psig (0.3 to 8.5 bar) outlet pressure adjustment range*, and PTF threads. A gauge is not included.

Port	Model	Flow† U.S. gpm (lpm)	Weight lb (kg)
1/4"	R43 201 NNLA	6 (23)	2.4 (1.09)
3/8"	R43 301 NNLA	6 (23)	2.4 (1.09)
1/2"	R43 406 NNLA	9 (34)	2.4 (1.09)

† Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and 15 psig (1 bar) droop from set.

11-009 Ordering Information

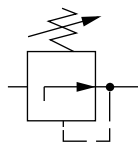
Models listed have PTF threads, T-bar adjustment, non-relieving diaphragm, and 5 to 125 psig (0.3 to 8.5 bar) outlet pressure adjustment range*. A gauge is not included.

Port Size	Model Number	Flow † U.S. gpm (lpm)	Weight lbs (kg)
3/4"	11 009 065	27.5 (104)	3.54 (7.8)
1"	11 009 081	27.5 (104)	3.40 (7.5)

* 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.

† Typical flow with 100 psig (6.9 bar) inlet pressure, 60 psig (4 bar) set pressure and 15 psig (1 bar) droop from set.

ISO Symbols

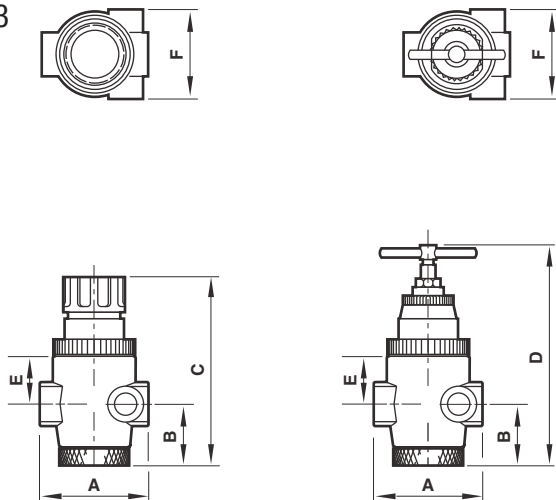


R43 Water Pressure Regulator

1/4", 3/8" and 1/2" Port Sizes

Panel mounting hole diameter: 1.89" (48 mm)
Maximum panel thickness: 0.19" (5 mm)

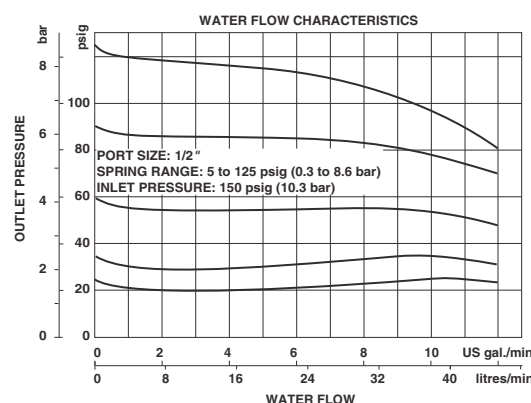
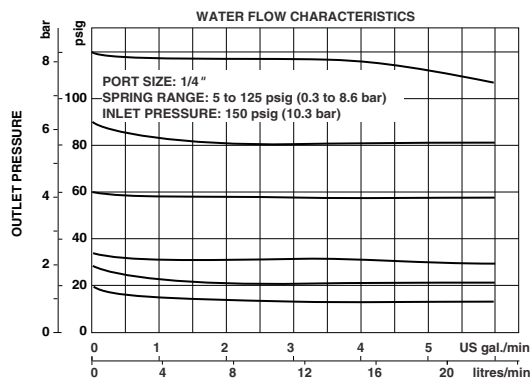
R43



Port Size	A	B	C	D	E	F
1/4", 3/8"	2.76 (70)	1.52 (39)	4.86 (124)	5.75 (146)	1.21 (31)	2.31 (59)
1/2"	3.34 (85)	1.59 (41)	5.01 (127)	5.90 (150)	1.28 (33)	2.44 (62)

Dimensions in inches (mm)

Typical Performance Characteristics

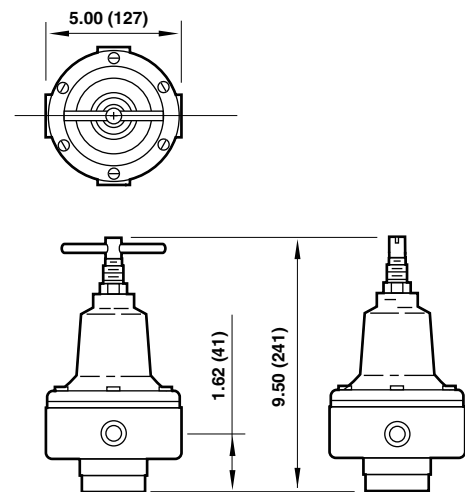


Service Kits

Item	Type	Part number
Service Kit	For 1/4" and 3/8" ported units	5298-03
	For 1/2" ported units	5298-10

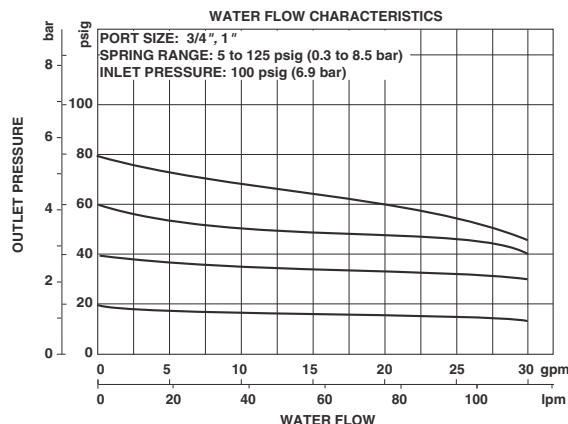
Service kit includes diaphragm, o-rings, valve, valve spring.

11-009



Dimensions in inches (mm)

Typical Performance Characteristics



Service Kits

Type	Part number
Non-relieving	2436-03

Service kit includes diaphragm, valve seat, valve pin, valve pin gasket, valve, valve spring, and o-rings.

Inline Micro-Fog and Oil Fog Lubricators

L17 Lubricators

All around (360°) visibility of the sight-feed dome simplifies installation and adjustment

Screw-on bowl reduces maintenance time

Can be disassembled without the use of tools or removal from the air line

Technical data

L17

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

250 psig (17 bar)

Operating temperature*:

0° to 175°F (-20° to 80°C)

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

Start point (minimum flow required for lubricator operation):

8 scfm (3.8 dm³/s) at 90 psig (6.3 bar) inlet pressure

1" ports: 275 scfm (130 dm³/s)

Nominal reservoir size

Standard: 1 quart US (1 liter)

Optional: 2 gallon US (8 liter)**

5 gallon US (20 liter)

Manual drain connection on 1 quart reservoir: Will fit 1/8-27 and 1/8-28 pipe thread

Materials

Body: Aluminum

Reservoir:

1 quart US (1 liter): Aluminum

2 and 5 gal: Steel**

Reservoir sight glass: Pyrex

Sight-feed dome

Standard: Transparent nylon

Optional: Pyrex and aluminum

Elastomers: Neoprene and nitrile

** The 2 and 5 gallon (8 and 20 liter) steel reservoirs are ASME rated according to the ASME Pressure Vessel Code, Section VIII



Ordering Information

Models listed have PTF threads.

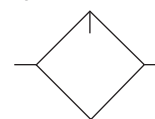
Port Size**	Micro-Fog Models**	Oil-Fog Models*	Flow scfm (dm ³ /s)†	Weight lbs (kg)
3/4"	L17-600-MPDA	L17-600-OPDA	160 (76)	3.73 (1.69)
1"	L17-800-MPDA	L17-800-OPDA	275 (130)	3.56 (1.62)
1-1/4"	L17-A00-MPDA	L17-A00-OPDA	275 (130)	4.65 (2.11)
1-1/2"	L17-B00-MPDA	L17-B00-OPDA	275 (130)	3.67 (1.67)

* Models listed in the order table must not be located downstream of frequently cycling directional control valves. Order the optional bi-directional Oil-Fog Lubricator for use under such conditions.

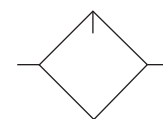
** Smaller port sizes available upon request.

† Typical flow with 90 psig (6.3 bar) inlet pressure and a pressure drop of 5 psig (0.35 bar).

ISO Symbols



L07 with drain

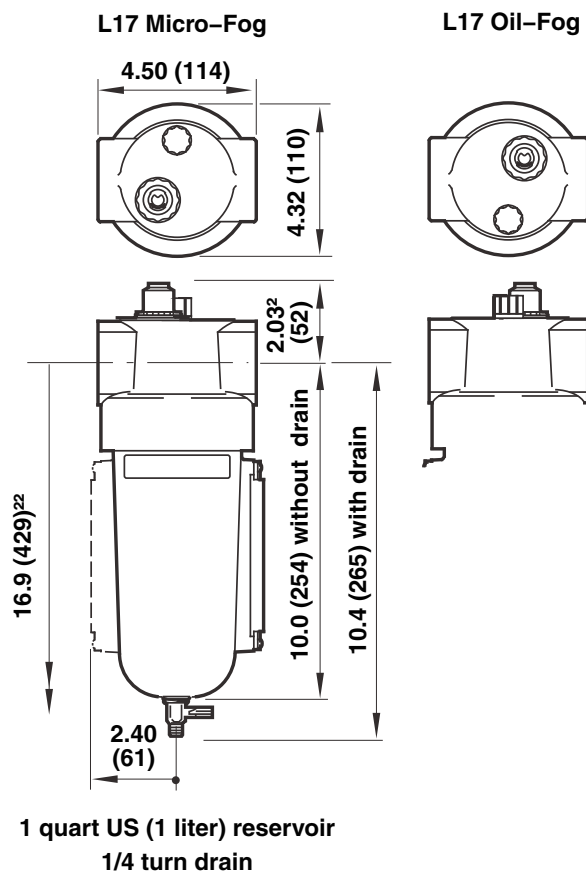


L17 manual drain

Inline Micro-Fog and Oil-Fog Lubricators

L17 Lubricators

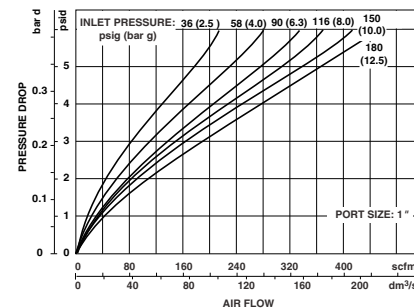
Dimensions in inches (mm)



† Standard dome: 2.03" (52 mm) Pyrex dome: 2.72" (69 mm)
†† Minimum clearance required to remove bowl.

Reservoir	A	B	C
2 gallon US (8 liter)	21.2 (538)	6.25 (159)	7.44 (189)
5 gallon US (20 liter)	24.2 (614)	10.3 (260)	11.4 (291)

L17



L17 Service Kits

Item	Type	Part Number
Service kit	Oil-Fog and Micro-Fog	5771-02
Reservoir sight glass kit	1 quart US (1 liter)	2273-22
	2/5 gallon US (8/20 liter)	2274-01
Replacement drain	1/4 Turn	619-50

Service kit 5771-02 includes o-rings, seals and gaskets.

Reservoir sight glass kits, include all o-rings, seals, glass, guard, and sight glass hardware.

Inline Oil-Fog Lubricators

10-028, and 10-076 Lubricators

1-1/2" and 2" port sizes

Designed to lubricate a single tool, valve, cylinder, air motor, or other air driven device.

One Oil-Fog lubricator should be provided for each device requiring lubrication

All around (360°) visibility of the sight-feed dome simplifies installation and adjustment

The 2 and 5 U.S. gallon (8 and 20 liter) reservoirs are rated to ASME Pressure Vessel Code, Section VIII



10-076

Technical data

10-028

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

250 psig (17 bar)

Operating temperature*:

0° to 175°F (-20° to 80°C)

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

Start point (minimum flow required for lubricator operation) at 90 psig (6.3 bar)

inlet pressure: 103 scfm (49 dm³/s)

Typical flow at 90 psig (6.3 bar) inlet pressure and 5 psig (0.35 bar) pressure drop: 568 scfm (268 dm³/s)

Nominal reservoir sizes:

1 quart (1 liter)

2 U.S. gallon (8 liter)

5 U.S. gallon (20 liter)

Materials

Body: Aluminum

Reservoir: Steel

Reservoir liquid level indicator lens:

Pyrex

Sight-feed dome

Standard: Transparent nylon

Optional: Pyrex and aluminum

Elastomers: Neoprene and Nitrile

10-076

Fluid:

Compressed air

Maximum pressure:

250 psig (17 bar)

Operating temperature*:

0° to 175°F (-20° to 80°C)

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

Ordering Information

Models listed have PTF threads.

Model Number	Reservoir Nominal Size	Reservoir Working Capacity Fluid Ounce (Liter)	Recommended Operating Flow Range scfm (dm ³ /s)	Weight lbs (kg)
10-028-545	1 quart (1 liter)**	19 (0.56)	110 to 590 (52 to 278)	5 (0.91)
10-028-047	2 U.S. gallon (8 liter)	113 (3.34)	110 to 590 (52 to 278)	16 (7.26)
10-028-048	5 U.S. gallon (20 liter)	316 (9.34)	110 to 590 (52 to 278)	28 (12.70)

Model Number	Reservoir Nominal Size	Reservoir Working Capacity Fluid Ounce (Liter)	Recommended Operating Flow Range scfm (dm ³ /s)†	Weight lbs (kg)
10-076-004	2 U.S. gallon (8 liter)	113 (3.34)	250 to 1000 (118 to 472)	19 (8.6)
10-076-005	5 U.S. gallon (20 liter)	316 (9.34)	250 to 1000 (118 to 472)	32 (14.5)

* Models listed in the order table must not be located downstream of frequently cycling directional control valves. Order the optional bi-directional Oil-Fog Lubricator for use under such conditions.

** Models with 1 quart reservoirs must not be located downstream of frequently cycling directional control valves. Models with the 2 and 5 gallon reservoirs may be located downstream of frequently cycling directional control valves.

† At 100 psig (6.9 bar) inlet pressure drop of 5 psid (0.35 bar)

Start point (minimum flow required for lubricator operation) at 90 psig (6.3 bar)

inlet pressure: 240 scfm (123 dm³/s)

Typical flow with 90 psig (6.3 bar) inlet pressure and 5 psig (0.35 bar) pressure drop: 1300 scfm (614 dm³/s)

Nominal reservoir sizes:

2 U.S. gallon (8 liter)

5 U.S. gallon (20 liter)

Materials

Body and adapter: Aluminum

Reservoir: Steel

Reservoir liquid level indicator lens:

Pyrex

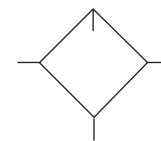
Sight-feed dome

Standard: Transparent nylon

Optional: Pyrex and aluminum

Elastomers: Nitrile

ISO Symbol



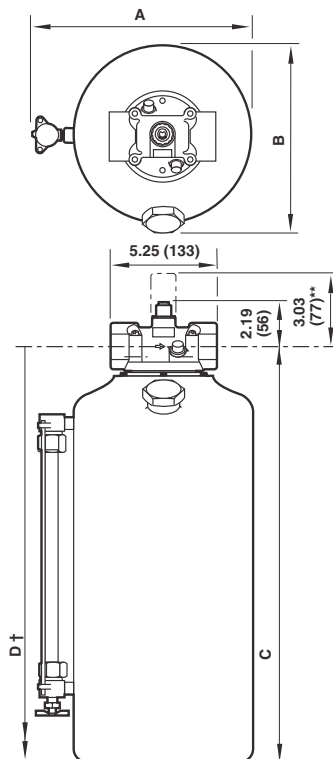
With Drain

Inline Oil-Fog Lubricators

10-028, and 10-076 Lubricators

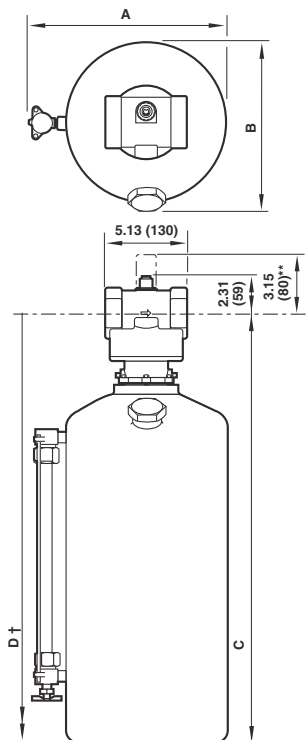
1-1/2" and 2" port sizes

Dimensions in inches (mm)



2 and 5 gallon (8 and 20 liter) reservoir

Reservoir	A	B	C	D
1 quart (1 liter)	4.72 (120)	4.06 (103)	8.27 (210)	15 (376)
2 gallon (8 liter)	7.81 (198)	7.18 (182)	18.34 (466)	32 (813)
5 gallon (20 liter)	11.81 (300)	11.18 (284)	21.59 (548)	37 (940)



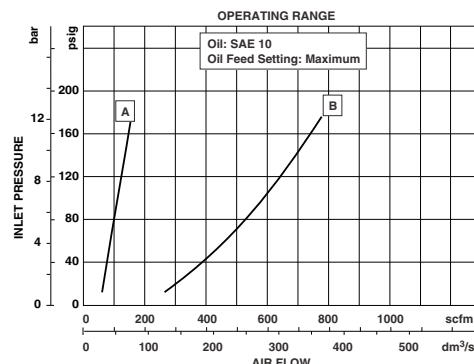
2 and 5 gallon (8 and 20 liter) reservoir

** Optional pyrex sight-feed dome.
† Minimum clearance required to remove bowl.

Reservoir	A	B	C	D
2 gallon (8 liter)	7.81 (198)	7.18 (182)	21.53 (547)	35 (887)
5 gallon (20 liter)	11.81 (300)	11.18 (284)	24.78 (629)	40 (1014)

10-028

Typical Performance Characteristics



A: Minimum flow based on oil drip rate of 5 drops per minute.
B: Maximum flow based on pressure drop of 5 psid (0.35 bar).

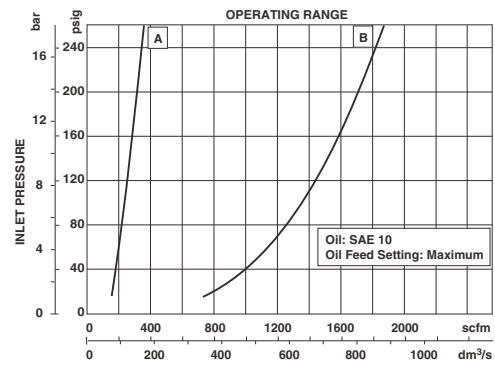
10-028 Service Kits

Item	Type	Part Number
Liquid level lens kit	1 quart reservoir	2273-22
	2 and 5 gallon reservoir	2274-01
Replacement drain	Manual petcock	684-01

Liquid level lens kit include sight glass, sight glass guards, seals, and hardware.

10-076

Typical Performance Characteristics



A: Minimum flow based on oil drip rate of 5 drops per minute.
B: Maximum flow based on pressure drop of 5 psid (0.35 bar).

10-076 Service Kits

Item	Type	Part Number
Liquid level lens kit	8 and 20 liter reservoir	2274-01
Replacement drain	Manual petcock	684-01
Seal kit	Models after 2000	3035-06
Seal kit	Models prior 2000	3035-02

Reservoir sight glass kits include sight glass, sight glass guards, seals, and hardware.

Pressure Relief Valves

V07, 16-004, and V06

Compact design

V07 helps protect air operated equipment from over pressure by retarding excessive pressure buildup

16-004: Used in low-volume air tanks to retard excessive pressure buildup

V06: Helps protect water systems from excessive pressure buildup by venting water when pressure exceeds setting of the relief valve. Relief valve closes when pressure is reduced to the relief pressure setting.

Technical data

V07

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

300 psig (20 bar)

Operating temperature:

-30° to 150°F (-34° to 65°C) *

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

Gauge ports:

1/8" PTF with PTF main ports

1/8" ISO Rc with ISO Rc main ports

1/8" ISO Rc with ISO G main ports

16-004

Fluid:

Compressed air

Maximum pressure:

300 psig (20 bar)

Operating temperature*:

-30° to 200°F (-34° to 93°C)

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

Repeatability:

± 20% of relief pressure setting

V06

Fluid:

Water and compressed air

Maximum pressure:

400 psig (27.6 bar)

Operating temperature:

Plastic bonnet:

35° to 150°F (2° to 65°C)

Brass bonnet:

35° to 200°F (2° to 94°C)

Gauge ports:

1/8" PTF



Ordering Information

Port Size		Model Number		Weight lbs (kg)		
1/8"		V07-100-NNKA		0.28 (0.13)		
1/4"		V07-200-NNKA		0.28 (0.13)		
1/8"		V06-121-NNKA		0.2 (0.09)		
1/4"		V06-221-NNKA		0.2 (0.09)		
Port Size	5 to 25 psig*	25 to 50 psig*	25 to 75 psig*	70 to 150 psig*	125 to 300 psig*	Weight lbs (kg)
1/8"	16-004-030	16-004-001	16-004-002	16-004-003	16-004-004	0.11 (0.05)
1/4"	16-004-031	16-004-009	16-004-010	16-004-011	16-004-012	0.11 (0.05)

* Pressure relief ranges. Relief valves 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.

Materials:

V07

Body: Zinc

Bonnet: Acetal

Valve seat: Polyphenylene

Elastomers: Nitrile

16-004

Body, cap, spring rest: Brass

Valve: Brass and nitrile

Regulating spring: Stainless steel

V06

Body: Brass

Bonnet

Standard: Acetal resin

Optional: Brass

Valve seat: Acetal resin

Elastomers: Nitrile

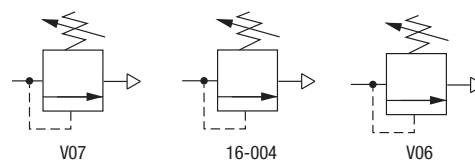
V07 Service Kits

Type	Part number
Diaphragm and valve seat seal	3407-80
Valve seat and valve seat seal	3439-11
Diaphragm seat and seal	3407-19

V06 Service Kits

Type	Part number
Valve seat and seal	3439-11
Diaphragm	3440-03

ISO Symbols

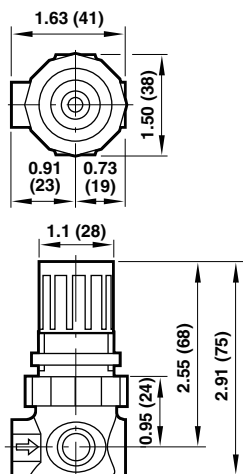


Pressure Relief Valves

V07, 16-004, and V06

Dimensions in inches (mm)

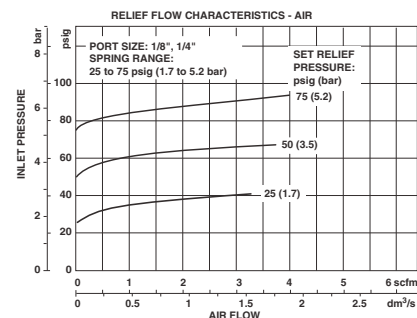
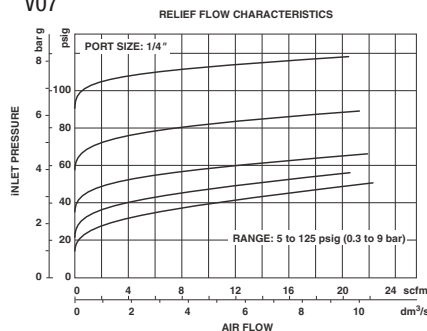
V07



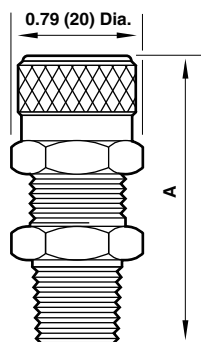
Panel mounting hole diameter: 1.19" (30 mm)
Maximum panel thickness: 0.25" (6 mm)

Typical Performance Characteristics

V07

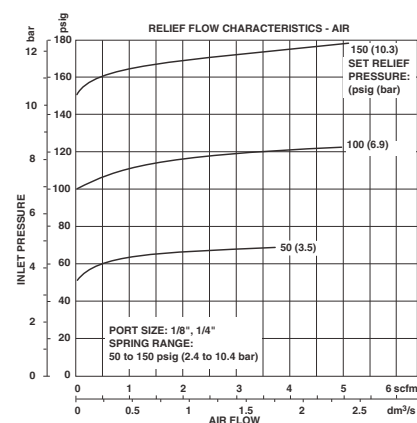
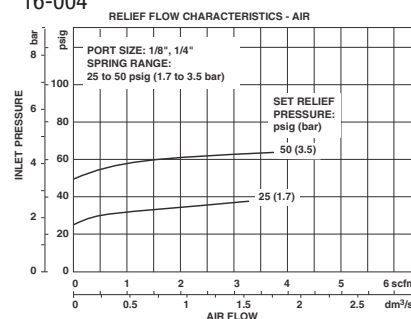


16-004

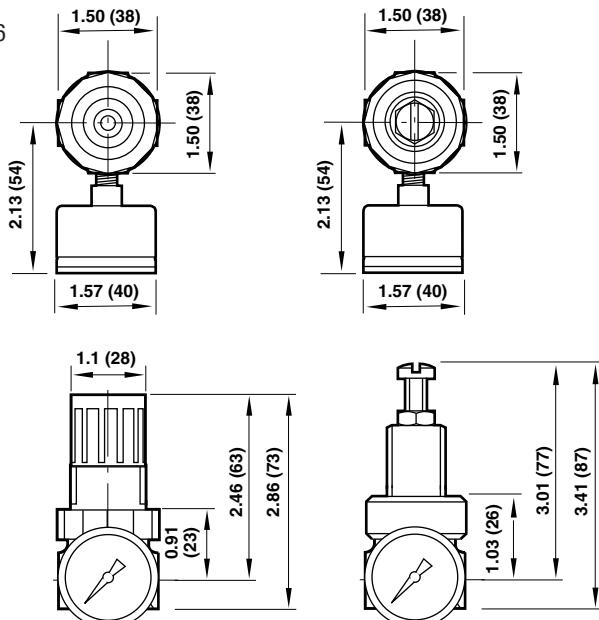


A: 1.56 (62) for 1/8" pipe size
1.75 (44) for 1/4" pipe size

16-004



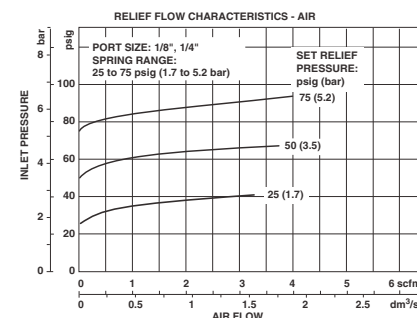
V06



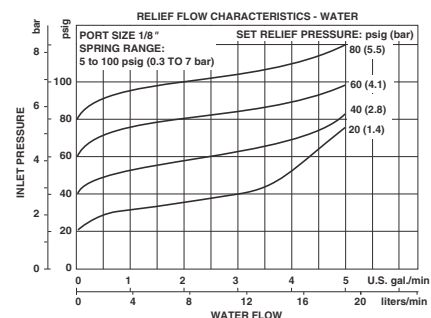
Models with Plastic Bonnet

Models with Brass Bonnet

Panel mounting hole diameter:
Models with plastic bonnet: 1.19" (30 mm)
Models with brass bonnet: 0.81" (21 mm)
Maximum panel thickness: 0.25" (6 mm)



V06



AIR LINE EQUIPMENT

Inline Lockout Valves

For installation in 1/4" through 1-1/2" air lines.

3-way, manually operated, full flow lockout valves can be locked in the closed position with a customer supplied padlock.

Helps you comply to OSHA regulations, as they relate to OSHA regulation 29 CFR Part 1910, standard for lockout/tagout procedures.

Technical data

Fluid:

Compressed air, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum Pressure:

300 psig (20.4 bar)

Temperature Range:

-20° to 175°F* (-29° to 79°C)

*With a dew point of supply air less than air temperature below 35°F (2°C).

Maximum Diameter of Lock Shackle:

5/16" (8mm)

Materials

Valve Body: Aluminum

Muffler Base: Zinc

Spool, T-Handle, Muffler Shell: Aluminum

Spring Detent: Stainless Steel

Elastomers

Standard: Nitrile and Polyurethane

Optional: Fluorocarbon

Repair Kits

C0021A/D and C0023A/D Valves:

Standard Elastomers: 53474-43

Fluorocarbon Elastomers: 53474-44

C0022A/D and C0024A/D Valves:

Standard Elastomers: 53475-34

Fluorocarbon Elastomers: 53475-36

Replacement Mufflers* for

C0021A/C0024D Valves

C0021A/D and C0023A/D Valves:

ML004F

C0022A/D and C0024A/D Valves:

ML008F

*Contains all bolts and washers required to flange mount with the respective sized lockout valve.

Lockout Hasp

Part Number: 54547-01

Note: The 1-1/2" diameter jaws can be used with all Norgren Inline, Olympian, and Poppet Lockout Valves except the T15. High-tensile steel affords extra protection against unauthorized access. Red vinyl coated and plated to resist rust. Locking holes accommodate padlocks up to 11/32" shackle diameter.



Ordering Information

Models listed are with PTF threads.

Port	Model	Model	Basic	Size	Model	Model	Cv Factor	
Basic	Size	Without	With	Size	ISO G	Without	With	In-Out
Size	PTF	Muffler	Muffler			Muffler	Muffler	Ports
1/2"	1/4"	C0021A	C0023A	1/2"	G1/4	C0041A	C0043A	4.2
	3/8"	C0021B	C0023B		G3/8	C0041B	C0043B	6.6
	1/2"	C0021C	C0023C		G1/2	C0041C	C0043C	9.3
	3/4"	C0021D	C0023D		G3/4	C0041D	C0043D	12.6
1"	3/4"	C0022A	C0024A	1"	G3/4	C0042A	C0044A	10.6
	1"	C0022B	C0024B		G1	C0042B	C0044B	16.2
	1-1/4"	C0022C	C0024C		G1-1/4	C0042C	C0044C	25.3
	1-1/2"	C0022D	C0024D		—	—	—	22.4

Options

C0021A/D and C0023A/D Valves with fluorocarbon elastomers: Specify 1FA after the desired valve model number.

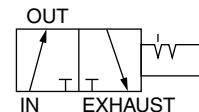
C0022A/D and C0024A/D Valves with fluorocarbon elastomers: Specify 1EX after the desired valve model number.

C0021A/D Valves with tapped muffler base that accepts a muffler with 3/4" NPT male threads: Specify 1M2 after the desired valve model number. Recommended muffler: MB006A.

C0022A/D Valves with tapped muffler base that accepts a muffler with 1" NPT male threads: Specify 1M1 after the desired valve model number. Recommended muffler MB008A.

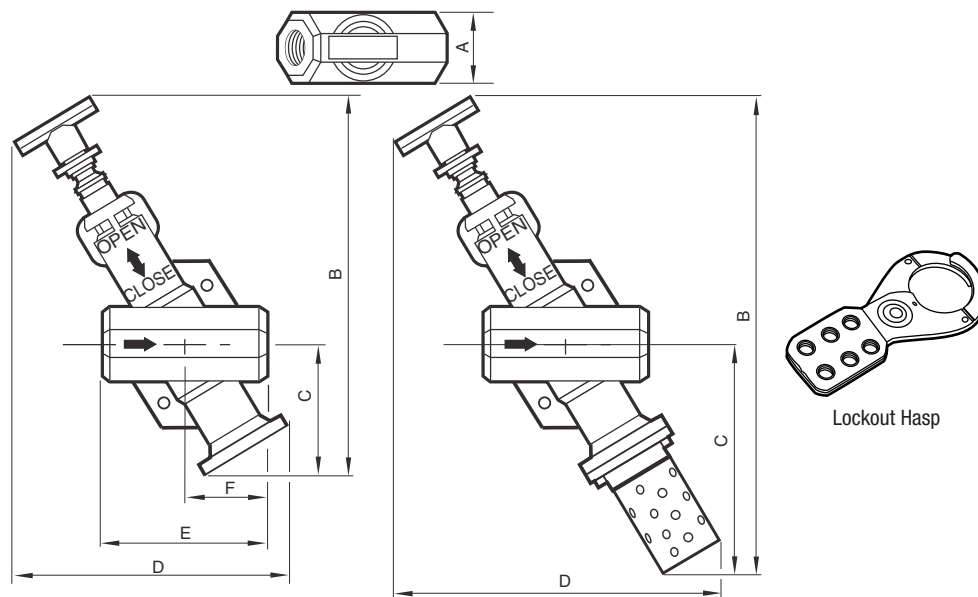
Note: Standard valves have a black handle. To order valves with a red handle, change the second position of the model number to an R (e.g., C0021A would change to CR021A).

Graphic Symbol



Inline Lockout Valves

For installation in 1/4" through 1-1/2" air lines.



Valve Type	A	B		C		D		E	F
		Without Muffler	With Muffler	Without Muffler	With Muffler	Without Muffler	With Muffler		
All	1.87	9.33	11.78	2.90	5.35	6.97	7.97	4.00	2.00
1/2" basic	(48)	(237)	(299)	(74)	(136)	(177)	(202)	(102)	(51)
All	2.26	12.07	15.72	4.13	7.78	8.65	10.46	5.00	2.50
1" basic	(57)	(307)	(399)	(105)	(198)	(220)	(266)	(127)	(64)

All Dimensions in Inches (mm)

UL Listed Regulators for Industrial Service

Regulators for use with compressed air and inert gases

Underwriters Laboratories, Inc. listed (file number SA1089) for use with air, argon, carbon dioxide, krypton, neon, nitrogen, xenon. For use with other gases, including oxygen, consult Norgren.

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

R44

Fluid:

Compressed air, carbon dioxide, inert gases, neutral gases

NOTE: Contact Norgren for use with other media.

Maximum pressure:

250 psig (17 bar)

Operating temperature:

-30° to 150°F (-34° to 66°C) *

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

R83

Fluid:

Air, argon, carbon dioxide, krypton, neon, nitrogen, and xenon. For use with other gases, including oxygen, consult Norgren. Do not use the R83 regulator in beverage dispensing applications. Other Norgren regulators (R81 for soft drink, R82 for beer, R84 for carbonators) are available for use in dispensing systems.

Maximum pressure:

3000 psig (207 bar)

Operating temperature:

-30° to 140°F (-34° to 60°C) *

* Fluid must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Materials

R44

Body and bonnet

R44-100/-200: Aluminum body; acetal plastic bonnet

R44-121/-221: Brass body; acetal plastic bonnet

R44-122/-222: Zinc body; acetal plastic bonnet

R44-133/-233: Brass body; brass bonnet

Valve: Brass/nitrile

Valve seat: Acetal

Elastomers: Nitrile

R83

Body: Brass

Bonnet: Zinc

Cartridge valve: Teflon, brass, stainless steel

Diaphragm: Acetal and nitrile

Seals: Nitrile



Ordering Information

Models listed have PTF threads, and relieving diaphragm.

Body	Bonnet	Medium	Port PTF	Model	Flow* scfm (dm3/s)	Weight lb (kg)
Aluminum	Plastic	Air, inert	1/8"	R44-100-RNKA	10 (4.7)	0.23 (0.11)
		gases	1/4"	R44-200-RNKA	10 (4.7)	0.23 (0.11)
Brass	Plastic	Air, CO2,	1/8"	R44-121-RNKA	10 (4.7)	0.45 (0.21)
		inert gases	1/4"	R44-221-RNKA	10 (4.7)	0.45 (0.21)
Zinc	Plastic	Air, inert	1/8"	R44-122-RNKA	10 (4.7)	0.31 (0.14)
		gases	1/4"	R44-222-RNKA	10 (4.7)	0.31 (0.14)
Brass	Brass	Air, CO2,	1/8"	R44-133-RNKA	10 (4.7)	0.54 (0.25)
		inert gases	1/4"	R44-233-RNKA	10 (4.7)	0.54 (0.25)

Alternative Models - R44

		R44-★-★-★-★-★-★			
Port Size	Substitute	Threads	Substitute	Outlet Pres Adj Range†	Substitute
1/8"	1	PTF	A	1 to 10 psig (0.1 to 0.7 bar)	A
1/4"	2			5 to 50 psig (0.3 to 3.5 bar)	E
				5 to 100 psig (0.3 to 7 bar)	K
Body/Bonnet	Substitute	Gauges	Substitute	Diaphragm	Substitute
Aluminum/Plastic	00	With	G	Relieving	R
Brass/Plastic	21	Without	N	Non relieving	N
Zinc/Plastic	22				
Brass/Brass	33				

* Approximate flow with 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) droop from set.

† 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.

Port	Model	Flow * scfm dm3/s()	Weight lb (kg)
1/4"	R83-200-RNLA	11 (5.2)	1.3 (0.59)

Alternative Models - R83

		R83-200-★N★A			
Diaphragm	Substitute	Outlet Pres Adj Ranges †	Substitute		
Relieving	R	2 to 50 psig (0.1 to 3.5 bar)	E		
Non relieving	N	5 to 125 psig (0.3 to 8.5 bar)	L		
		10 to 175 psig (0.7 to 12 bar)	N		

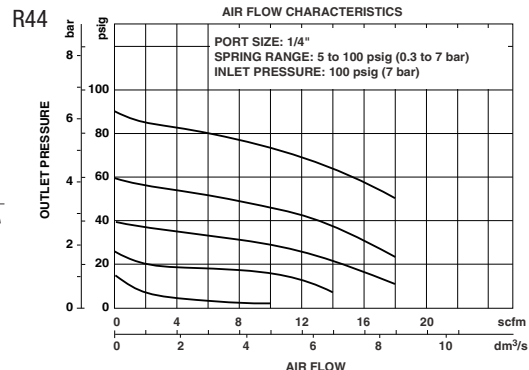
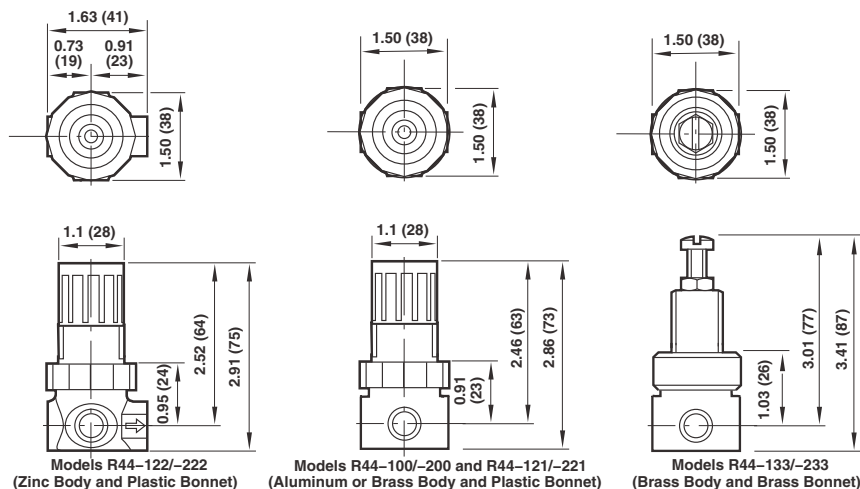
* Approximate flow with 1000 psig (69 bar) inlet pressure, 60 psig (4 bar) set pressure and a 5 psig (0.35 bar) droop from set.

† 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.

UL Listed Regulators for Industrial Service

Regulators for use with compressed air and inert gases

R44



Panel mounting hole diameter:

Models with plastic bonnet: 1.19" (30 mm)

Models with brass bonnet: 0.81" (21mm)

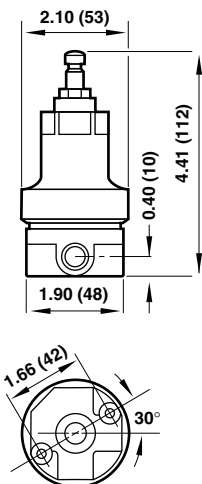
Maximum panel thickness: 0.25" (6 mm)

R44 Service Kits

Item	Type	Part number
Service kit	Relieving	3407-02
	Non relieving	3407-01

Service kit includes slip ring, diaphragm, standard valve seat with seal, valve, valve spring.

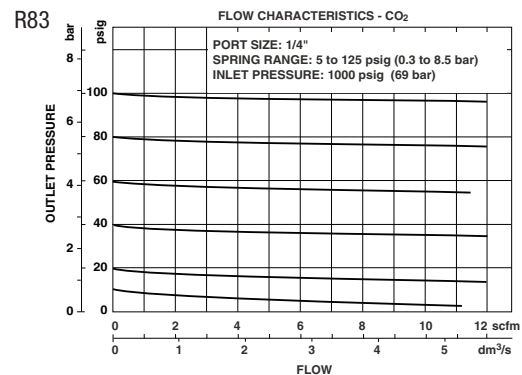
R83



Mounting Holes (2 Places)

0.18" (4.6mm) dia. by 0.39 (10mm) deep.

Use 10-32 thread forming screws.



R83 Service Kits

Item	Type	Part number
Service kits	Diaphragm, relieving	570-51
	Diaphragm, non relieving	570-10
Valve cartridge		5086-55

Valve cartridge includes the sealed cartridge and cartridge o-ring.

U.L. Listed Beverage Regulators

Cylinder gas pressure (CO2) regulators for
Soft drink and Beer dispensing systems

Underwriters Laboratories, Inc. listed
(file number SA1089)

The R81 regulator and C81 regulator configurations with integral relief valve and outlet check valves meet the requirements of paragraphs 4.5 and 4.6 of NSDA Pamphlet TD02, Installation and Operational Procedures for Pressurized Soft Drink Dispensing Systems, dated July, 1980.

The R82 regulator with integral relief valve meets the requirements of Proposed Section 9.7, Draught Beer Dispensing Equipment and Related Components (Seventh Draft dated October 17, 1980), of ANSI-ASME F2.1-1975, Food, Drug, and Beverage Equipment.

Technical data

R84

Fluid:

Carbon dioxide.

Maximum pressure:

3000 psig (207 bar)

Operating temperature:

0° to 140°F (-18° to 60°C)

Integral relief valve cracking pressure:

150 ± 5 psig (10.4 ± 0.33 bar)

R81

Fluid:

Carbon dioxide.

Maximum pressure:

3000 psig (207 bar)

Operating temperature:

0° to 140°F (-18° to 60°C)

Integral relief valve cracking pressure:

130 ± 4 psig (9.0 ± 0.28 bar)

R82

Fluid:

Carbon dioxide.

Maximum pressure:

3000 psig (207 bar)

Operating temperature:

0° to 140°F (-18° to 60°C)



R84

Ordering Information

Models listed have PTF threads, integral relief valve, and relieving diaphragm.

Port	Model	Weight lb (kg)
1/4"	R84-200-MNLA	1.3 (0.59)
1/4"	R81-200-LNKA	1.3 (0.59)
1/4"	R82-200-ENEA	1.3 (0.59)

Alternative Models

R81-200-LN★A

Outlet Pressure

Adjustment Ranges †	Substitute
1 to 25 psig (0.07 to 1.7 bar)	T
2 to 50 psig (0.14 to 3.4 bar)	E
5 to 100 psig (0.34 to 6.9 bar)	K

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

Maximum outlet pressure adjustment limit:

Factory set at 40 to 45 psig
(2.8 to 3.1 bar)

Integral relief valve cracking pressure:

60 ± 4 psig (4.1 ± 0.28 bar)

Materials

R84

Body: Brass

Bonnet: Zinc

Valve cartridge: Teflon, brass, stainless steel

Diaphragm: Acetal and nitrile

Relief valve: Brass, polycarbonate, nitrile, aluminum

Seals: Nitrile

R81

Body: Brass

Bonnet: Zinc

Valve cartridge: Teflon, brass, stainless steel

Diaphragm: Acetal and nitrile

Relief valve: Brass, polycarbonate, nitrile, aluminum

Seals: Nitrile

R82

Body: Brass

Bonnet: Zinc

Valve cartridge: Teflon, brass, stainless steel

Diaphragm: Acetal and nitrile

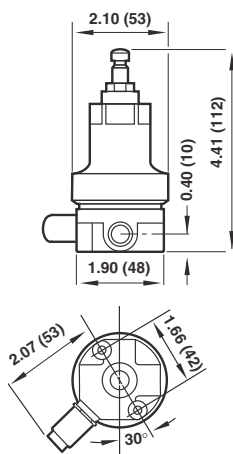
Relief valve: Brass, polycarbonate, nitrile, aluminum

Seals: Nitrile

U.L. Listed Beverage Regulators

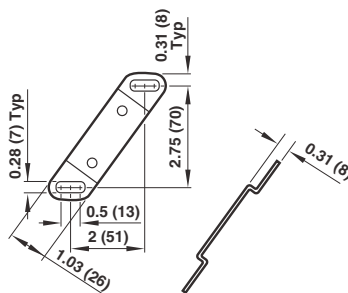
Cylinder gas pressure (C02) regulators for Soft drink and Beer dispensing systems

R81 and R84 Regulator

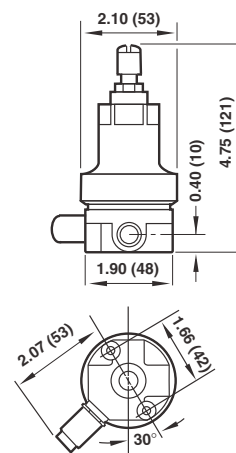


Mounting Holes (2 Places)
0.18" (4.6mm) dia. by 0.39 (10mm) deep.
Use 10-32 thread forming screws.

5095-51 Strap Type Bracket



R82 Regulator



Mounting Holes (2 Places)
0.18" (4.6 mm) dia. by 0.39" (10 mm) deep.
Use 10-32 thread forming screws.

R84 WARNING

For safety in systems using Norgren Model R84 regulators, the following procedures must be followed.

1. Pressure relief valves of sufficient capacity must always be used in the secondary (outlet) lines downstream of each pressure regulator, whether as an integral part of the regulator, as is the case with Norgren Model R84 Regulator, or separately installed elsewhere in the outlet lines. Do not remove or attempt to adjust, plug, block or otherwise defeat the purpose of the relief valve. Do not replace a relief valve with any but an identical model. The relief valve used on the R84 regulator is preset and marked **150 PSIG RELIEF VALVE**. Replace only with the same 150 psig relief valve, part number 5779-54. The end cap on the 5779-54 relief valve is color coded red for visual identification. Failure to provide a pressure relief valve of sufficient capacity to hold outlet pressure below the lowest working pressure rating of any piece of equipment installed in the outlet lines can result in equipment damage and/or personal injury.
2. A back flow check valve must always be installed at the regulator or at each manifold outlet in liquid dispensing applications to prevent reverse flow through the regulator and possible introduction of liquids and other contaminants into the regulator.
3. Regulators must not be used where temperature or pressure may exceed those specified in the **Technical data** paragraph.

4. The accuracy of the indication of pressure gauges can change, both during shipment (despite care in packaging) and during the service life. If a pressure gauge is to be used in conjunction with these products and if inaccurate indications may be hazardous to personnel or property, the gauge should be calibrated before initial installation and at regular intervals during use. For gauge standards refer to ANSI B40.1.

5. These regulators are not intended for use in life support systems, beer dispensing systems, with soft drink product (syrup) containers, or industrial cylinder gas systems.

R81 WARNING

Soft drink dispensing systems must be designed, installed, and operated in accordance with the guidelines set forth in NSDA pamphlet TD02, **Installation and Operational Procedures for Pressurized Soft Drink Dispensing Systems**, dated July, 1980 or subsequent revisions.

1. Pressure relief valves of sufficient capacity must always be used in the secondary (outlet) lines downstream of each pressure regulator, whether as an integral part of the regulator, as is the case with Norgren Model R81 Regulator, or separately installed elsewhere in the outlet lines. Do not remove or attempt to adjust, plug, block or otherwise defeat the purpose of the relief valve. Do not replace a relief valve with any but an identical model. The relief valve used on the R81 regulator is preset and marked **130 PSIG RELIEF VALVE**. Replace only with the same 130 psig relief valve, part number 5779-55. The end cap on the 5779-55 relief valve is color coded black for visual identification. Failure to provide a pressure relief valve of sufficient capacity to hold outlet pressure below the lowest working pressure rating of any piece of equipment installed in the outlet lines can result in equipment damage and/or personal injury.
2. A back flow check valve must always be installed at the regulator or at each manifold outlet in liquid dispensing applications to prevent reverse flow through the regulator and possible introduction of liquids and other contaminants into the regulator.
3. Regulators must not be used where temperature or pressure may exceed those specified in the **Technical data** paragraph.

4. The accuracy of the indication of pressure gauges can change, both during shipment (despite care in packaging) and during the service life. If a pressure gauge is to be used in conjunction with these products and if inaccurate indications may be hazardous to personnel or property, the gauge should be calibrated before initial installation and at regular intervals during use. For gauge standards refer to ANSI B40.1.

5. These regulators are not intended for use in life support systems, beer dispensing systems, soft drink carbonator systems, or industrial cylinder gas systems.

R82 WARNING

Beer dispensing systems must be designed, installed, and operated in accordance with the applicable guidelines such as the proposed Section 9.7, **Draught Beer Dispensing Equipment and Related Components** (Seventh Draft dated October 17, 1980), of ANSI-ASME F2.1-1975, Food, Drug and Beverage Equipment or subsequent revisions.

1. Pressure relief valves of sufficient capacity must always be used in the secondary (outlet) lines downstream of each pressure regulator, whether as an integral part of the regulator, as is the case with Norgren Model R82 Regulator, or separately installed elsewhere in the outlet lines. Do not remove or attempt to adjust, plug, block or otherwise defeat the purpose of the relief valve. Do not replace a relief valve with any but an identical model. The relief valve used on the R82 regulator is preset and marked **60 PSIG RELIEF VALVE**. Replace only with the same 60 psig relief valve, part number 5779-56. The end cap on the 5779-56 relief valve is color coded silver for visual identification. Failure to provide a pressure relief valve of sufficient capacity to hold outlet pressure below the lowest working pressure rating of any piece of equipment installed in the outlet lines can result in equipment damage and/or personal injury.
2. A back flow check valve must always be installed at the regulator or at each manifold outlet in liquid dispensing applications to prevent reverse flow through the regulator and possible introduction of liquids and other contaminants into the regulator.
3. Regulators must not be used where temperature or pressure may exceed those specified in the **Technical data** paragraph.

4. The accuracy of the indication of pressure gauges can change, both during shipment (despite care in packaging) and during the service life. If a pressure gauge is to be used in conjunction with these products and if inaccurate indications may be hazardous to personnel or property, the gauge should be calibrated before initial installation and at regular intervals during use. For gauge standards refer to ANSI B40.1.

5. These regulators are not intended for use in life support systems, soft drink carbonator systems, with soft drink product (syrup) containers, or industrial cylinder gas systems.

Additional Products

CS13 and CS15

Olympian Coalescing Exhaust Silencers
1/4", 3/8", 1/2", 3/4", 1", 1-1/4",
1-1/2" Port Sizes

Ordering Information

Port Size	Model	Weight lb (kg)
1/4"	CS13-264-10AA	2.98 (1.35)
3/8"	CS13-364-10AA	2.93 (1.33)
1/2"	CS13-464-10AA	2.87 (1.30)
3/4"	CS13-664-10AA	3.66 (1.66)

Olympian plug in design
Reduces noise from multi
valve and cylinder circuits
Removes oil mist and sub
micron particles from
exhausting air
Flow in either direction
Single or double 15 Series
units for high flow rates



Port Size	Single	Weight lb (kg)	Double	Weight lb (kg)
3/4"	CS15-600-10AA	5.20 (2.34)	CS15-600-20AA	9.47 (4.26)
1"	CS15-800-10AA	5.09 (2.29)	CS15-800-20AA	9.36 (4.21)
1-1/4"	CS15-A00-10HA	5.22 (2.35)	CS15-A00-20AA	9.49 (4.27)
1-1/2"	CS15-B00-10HA	5.24 (2.36)	CS15-B00-20AA	9.51 (4.28)

High Pressure Needle Valves

1/8" and 1/4" Port Sizes

Adjustable stem packing nut
with Teflon® seal
Accurate metering of fluids
3,000 psig inlet pressure

Ordering Information

Size (NPT)	Port In	Port Out	Part Number
1/8"	Male	Male	17-001-106
	Female	Female	17-001-109
	Female	Male	17-001-112
1/4"	Male	Male	17-001-107
	Female	Female	17-001-110
	Male	Female	17-001-114



17-016

Drip Leg Drain
1/2" Port Size

Automatically expels liquids from the
piping network
Automatic drain valve opens when
system is unpressurized, allowing
water to escape by gravity
Automatic drain valve is float
operated when system is pressurized



Ordering Information

Port Size	Bowl Type	Bowl Size	Model Number	Weight lbs (kg)
1/2" PTF	Transparent	1/3 pint (0.16 liter)	17-016-104	0.8 (0.38)
1/2" PTF	Metal with sight glass	1/3 pint (0.16 liter)	17-016-107	1.3 (0.59)
1/2" PTF	Transparent	3 fluid ounce (0.09 liter)	17-016-102	0.8 (0.38)

Additional Products

18-013, 5PG

Air Pressure Gauges
1/8" and 1/4" Port Sizes

Triple calibrated scale indicates pressure
in psi, bar, and Mpa (megapascal)

Back or bottom connection

Panel mount, stainless steel, and
Underwriters Laboratories, Inc. listed
gauges available



Center Back Connection

Outer Scale psig	Scale Range Middle Scale bar	Inner Scale Mpa	1/8 NPT 1.5" (40mm) Diameter	1/8 NPT 2" (50mm) Diameter	1/4 NPT 2" (50mm) Diameter	R1/4 2" (50mm) Diameter
0 to 30	0 to 2	0 to 0.2	18-013-214	18-013-201	18-013-207	—
0 to 60	0 to 4	0 to 0.4	18-013-211	18-013-202	18-013-208	18-013-268
0 to 100	0 to 7	0 to 0.7	—	18-013-203	18-013-235	—
0 to 160	0 to 11	0 to 1.1	18-013-212	18-013-204	18-013-209	18-013-269
0 to 300	0 to 20	0 to 2.1	—	18-013-205	18-013-210	18-013-270
0 to 400	0 to 28	0 to 2.8	—	18-013-206	—	—

Bottom Connection

2" (50 mm) diameter gauges do not have the Mpa scale

Outer Scale Range-psig	Middle Scale Range-bar	Inner Scale Range-Mpa	1/8 NPT 1.5" (40mm) Dia.	1/4 NPT 2" (50mm) Dia.
0 to 15	0 to 1	—	—	18-013-082
0 to 30	0 to 2	0 to 0.2	18-013-224	18-013-030 *
0 to 60	0 to 4	0 to 0.4	18-013-225	18-013-083 *
0 to 100	0 to 7	0 to 0.7	18-013-265	18-013-084 *
0 to 160	0 to 11	0 to 1.1	18-013-273	18-013-085 *
0 to 300	0 to 20	—	—	18-013-086 *
0 to 2000	0 to 135	—	—	18-013-244 *†
0 to 3000	0 to 205	—	—	18-013-087 *†

* Underwriters Laboratories Inc. Listed

† Shipped with pulsation dampener installed.

Stainless Steel Gauges

Gauges do not have the Mpa scale

Outer Scale Range-bar	Inner Scale Range-psi	1/8 PTF 1.5" (40mm) Dia.	1/4 PTF 1.5" (40mm) Dia.
0 to 6	0 to 84	—	18-013-913
0 to 10	0 to 140	18-013-844	18-013-909
0 to 25	0 to 360	—	18-013-905

Center Back Connection, Panel Mount

Outer Scale Range-psig	Middle Scale Range-bar	Inner Scale Range-Mpa	1/8 NPT Male and 10-32 Female 1.5" (40mm) Diameter
0 to 30	0 to 2	0 to 0.2	5PG-306-000 **
0 to 60	0 to 4	0 to 0.4	5PG-312-000 **
0 to 100	0 to 7	0 to 0.7	5PG-320-000 **

Center Back Connection

Outer Scale Range-bar	Middle Scale Range-Mpa	Inner Scale Range-psi	R1/8 1.5" (40mm) Diameter	R1/8 2" (50mm) Diameter	R1/8 2.5" (63mm) Diameter
0 to 1.6	0 to 0.16	0 to 23	18-013-991	18-013-010	—
0 to 4	0 to 0.4	0 to 56	18-013-990	18-013-011	—
0 to 6	0 to 0.6	0 to 84	—	18-013-012	—
0 to 10	0 to 1.0	0 to 140	18-013-989	18-013-013	18-013-856
0 to 16	0 to 1.6	0 to 240	—	—	18-013-855
0 to 25	0 to 2.5	0 to 360	18-013-908	18-013-014	—

Bottom Connection

Outer Scale Range-bar	Middle Scale Range-Mpa	Inner Scale Range-psi	R1/8 2" (50mm) Dia.	G1/4A 2.5" (63mm) Dia.
0 to 1.6	0 to 0.16	0 to 23	18-013-024	—
0 to 4	0 to 0.4	0 to 56	18-013-277	—
0 to 6	0 to 0.6	0 to 84	18-013-026	—
0 to 10	0 to 1.0	0 to 140	18-013-279	18-013-854
0 to 16	0 to 1.6	0 to 240	—	18-013-853
0 to 25	0 to 2.5	0 to 360	18-013-028	—

Center Back Connection, Panel Mount

Outer Scale Range-bar	Middle Scale Range-Mpa	Inner Scale Range-psi	G1/8A 2" (50mm) Dia.	G1/4A 2.5" (63mm) Dia.
0 to 6	0 to 0.6	0 to 84	18-013-858 *	—
0 to 10	0 to 1.0	0 to 140	18-013-857 *	18-013-852 †
0 to 16	0 to 1.6	0 to 240	—	18-013-851 †

* Requires 2.01" (51 mm) diameter panel hole.

† Requires 2.52" (64 mm) diameter panel hole.

Blow Guns BG Series

1/4" Port Size

Ordering Information

Port (PTF)	Part Number	Description
1/4"	BG4200	Metal blow gun
1/4"	BG3200	Plastic blow gun
1/8"	BG0200	Rubber Tip**

** Units are not O.S.H.A. compliant without air exhaust mechanism.

Air exhaust mechanism must be removed to use the rubber tip.

OSHA compliant**

Exhausts air when nozzle is
blocked



BG0200



BG4200



BG3200

Dryers

D11 Series Dryers

Refrigerated Compressed Air Dryers

Continuous compressor operation adds years to compressor life, and maintains a 35° to 42° (2° to 6°C) pressure dew point per ANSI/B93.45M.



D10 Series Dryers

Water or Air-Cooled Refrigerated Compressed Air Dryers

Refrigerant compressor runs continuously when power is applied to the dryer, providing a nearly constant dew point at all times
High efficiency heat exchangers.
Heat exchangers are modular in design and may be replaced in the field.



D50 Series Dryers

Compact Heatless Regenerative Compressed Air Dryers

The twin desiccant-packed towers alternate operation continuously to provide ultra-dry air for critical applications.
Timer controlled shuttle valves direct the compressed air into the active tower for drying.
Calibrated needle valve adjusts purge flow to actual outlet flow and pressure conditions.
Overlapping cycle times provide constant downstream pressure and dew point.



Dryers

D51 Series Dryers

Heatless Regenerative
Compressed Air Dryers

-40°F pressure dew point ultra-dry air.
Automatic operation
Provides continuous supply of dry air.
Precision timing control.



D60 Series Dryers

Externally Heated Regenerative
Compressed Air Dryers

Delivers -40° pressure dew point
Provides continuous supply of dry air
Operates automatically with flexible controls
Reduces purge air requirements



D70 Series Dryers

Blower Purge Regenerative
Compressed Air Dryers

Delivers -40° pressure dew point
Provides continuous supply of dry air
Operates automatically with flexible controls
Reduces purge air requirements



Dryers

W74D

Excelon® 74 Desiccant Compressed Air Dryer
1/4", 3/8", and 1/2" Port Sizes

Helps eliminate condensate at point-of-use.
Typical dew point suppression of 15°F (-10°C) below inlet ambient pressure dew point.



F21 / F61

F21 and F61 Mainline Filters

High flow mainline system filters
The F21 provides 1 micron particle removal filtration
The F61 provides 0.01 oil coalescing
The F61 carbon type vapor removal filtration
Optional automatic or timer drains available



Membrane Dryers

W07M, W72M, and W74M
Series Membrane Dryer
1/4", and 1/2" Port Size

Removes water vapor from compressed air providing condensate-free air at the point of application.
Provides dewpoint suppression up to 80°F (44°C) depending on air flow through the membrane
Dewpoint suppression of 20°F (11°C) below the inlet temperature is suitable for most industrial applications.
Utilizes the latest membrane technology to achieve optimal water vapor removal rates.



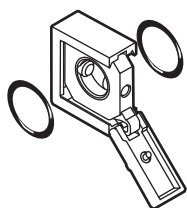
72 Series Modular Components

Quickclamp

Maximum Pressure: 17 bar (250 psig)
Maximum Temperature: 65°C (150°F)

Use with all Excelon 72 Products to provide modular installation capability. Flanges on the products slide into V grooves in the Quickclamp. Two face-sealing o-rings in the Quickclamp provide a positive seal when the clamp is closed and the captive screw is tightened. Tighten screw with a 3 mm hex wrench or a T15 Torx wrench.

Quickclamp Service Kit (contains 2 Nitrile o-rings): 4384-570
A Quickclamp adds 0.26" (6.5 mm) to the overall length of a combination unit.

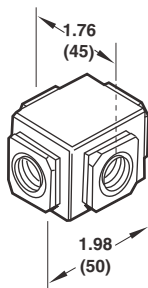


Part

Number: 4214-51

Manifold Block

Installs with Quickclamps. Ports are threaded 3/8" pipe to provide manifolding capability for up to three components.

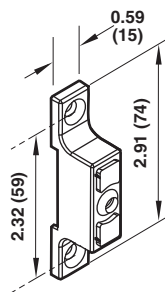


Side

Port Threads	Part Number
3/8" PTF	4228-01
3/8" ISO Rc	4228-02
3/8" ISO G	4228-03

Quickclamp Wall Mounting Bracket

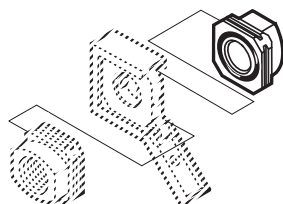
Use with the Quickclamp to provide secure mounting to a wall, machine panel or other flat surface.
Use 3/16" (5 mm) screws to mount bracket to wall.



Part Number 4213-89

Quickmount Pipe Adapters

Use with the Quickclamp to provide threaded connections to the system piping.

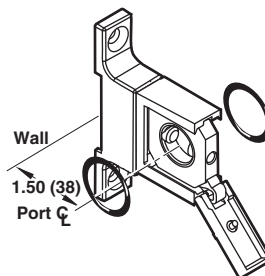


A pipe adapter adds 0.63" (16 mm) to the overall length of a combination unit.

Port Size and Thread	Part No. (Quantity of 1)
1/4" PTF	4215-02
3/8" PTF	4215-03
1/4" ISO Rc	4215-05
3/8" ISO Rc	4215-06
1/4" ISO G	4215-08
3/8" ISO G	4215-09

Quickclamp and Wall Mounting Bracket

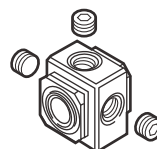
See Quickclamp paragraph for descriptions and dimensions.
Use 3/16" (5 mm) screws to mount bracket to wall.



Part Number 4214-52

Porting Block

Installs between two Quickclamps to provide three additional 1/4" outlets for auxiliary air.
A Porting Block adds 1.13" (28.5 mm) to the overall length of a combination unit.

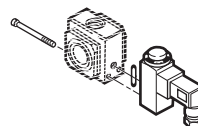


Auxiliary Port

Size & Thread	Part Number
1/4" NPT	4216-50
1/4" ISO Rc	4216-51
1/4" ISO G	4216-52

Replacement Pressure Switch

Use only with pressure switch sub-base. Cannot be used with the standard porting block.



Part Number: 4246-01

Sub-base Mounted Pressure Switch

Monitors air pressure and provides an electrical output when the pressure drops below or exceeds an adjustable preset pressure. Installs between two Quickclamps. Also provides two additional 1/4" outlets for auxiliary air.

P₁ max: 250 psig (17 bar)

Temperature: 14° to 150°F
(-10° to 65°C)

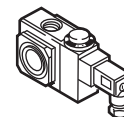
Adjustable: 30 to 150 psig (2 to 10 bar). Shipped from factory preset at 90 psig (6.3 bar)

Max. Voltage: 240 V a.c./d.c.

Max. Current: 5 Amp

Hysteresis at Midpoint: 12%

A Sub-base Mounted Pressure Switch adds 1.13" (29 mm) to the overall length of a combination unit.



Auxiliary Port

Threads	Part Number
1/4" PTF	4246-50
1/4" ISO G	4246-52

Transition Connector

Enables connection of Excelon 72 to 74 units. Typically this will allow F74C/H high grade coalescing filters to be flow matched with R72 regulators.

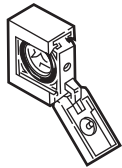


Part Number: 4417-01

73 and 74 Series Modular Components

Quikclamp

Use with all 73 and 74 Series Products to provide modular installation capability. Flanges on the products slide into V grooves in the Quikclamp. Two face-sealing o-rings in the Quikclamp provide a positive seal when the clamp is closed and the captive screw is tightened. A Quikclamp adds 0.54" (13.6 mm) to the overall length of a combination unit. Tighten screw with a 5/32" (4 mm) hex or T25 Torx wrench. (30 in. lbs. Torque)



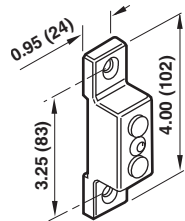
Material:

Zinc

Quikclamp part number: 4314-51
 O-ring kit part number: 4384-770

Quikclamp Wall Mounting Bracket

Use with the Quikclamp to provide secure mounting to a wall, machine panel or other flat surface. Use No. 12 (6 mm) screws to mount bracket to wall.

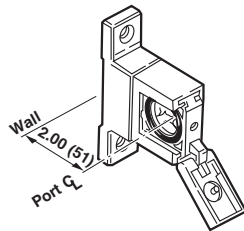


Material: Zinc

Part number: 4313-50

Quikclamp and Wall Mounting Bracket

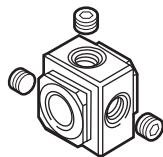
See preceding paragraphs for descriptions and dimensions.



Material: Zinc
 Part number: 4314-52
 L74 1 quart 4314-55

Porting Block

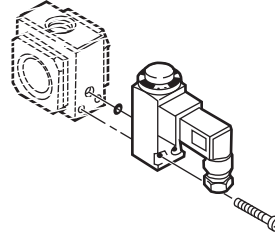
Installs between two Quikclamps to provide three additional 1/4" outlets for auxiliary air. A Porting Block adds 1.30" (33 mm) to the overall length of a combination unit.



Material: Zinc
 Part number Auxiliary port size and thread
 4316-50 1/4" PTF
 4316-51 1/4" ISO Rc
 4316-52 1/4" ISO G

Replacement Pressure Switch

Use only with the pressure switch subbase. Cannot be used with the standard porting block.



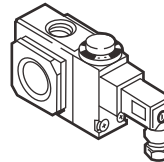
Material: Aluminum

Pressure switch part number: 4346-01

Replacement connector: 4346-01R

Subbase Mounted Pressure Switch

Monitors air pressure and provides an electrical output when the pressure drops below or exceeds an adjustable preset pressure. Installs between two Quikclamps. Also provides three additional 1/4" outlets for auxiliary air. A Subbase Mounted Pressure Switch adds 1.30" (33 mm) to the overall length of a combination unit.



Specifications

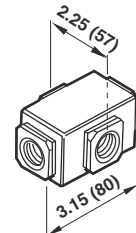
Maximum Pressure: 300 psig (20 bar)
 Maximum Temperature: 175°F (80°C)
 Adjustable Range: 30 to 150 psig (2 to 10 bar)
 Shipped from factory preset at 90 psig (6.2 bar).
 Maximum Voltage: 240V ac/dc
 Maximum Current: 5 Amp
 Hysteresis at Midpoint: 12%

Materials: Zinc subbase, Aluminum switch
 Part number Auxiliary port thread

4346-50 1/4" PTF
 4346-51 1/4" ISO Rc
 4346-52 1/4" ISO G

Manifold Block

Installs with Quikclamps. Ports are threaded 3/4" pipe to provide manifolding capability for up to three components.



Material: Zinc
 Part number Side port threads

4328-50 3/4" PTF
 4328-53 3/4" ISO G
 4328-52 3/4" ISO Rc

Transition Connector

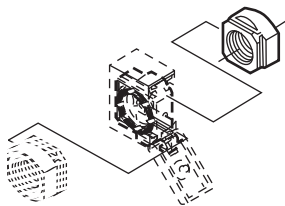
Enables connection of Excelon 72 to 74 units. A transition connector adds 0.06" (1.5mm) to the overall length of a combination unit.



Material: Aluminum
 Part Number: 4417-01

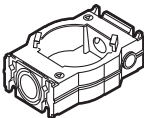
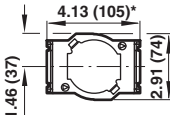
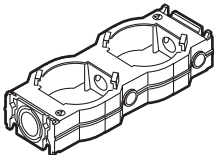
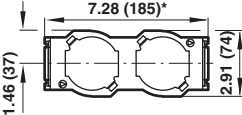
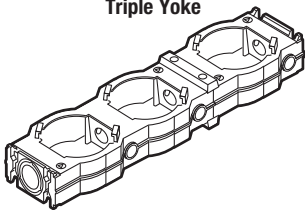
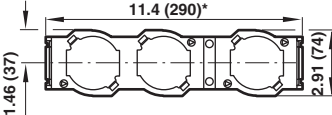
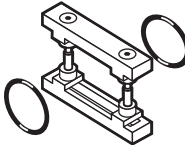
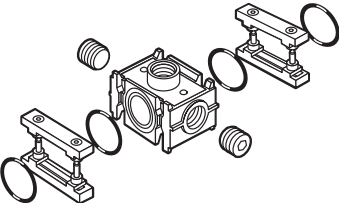
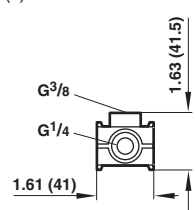
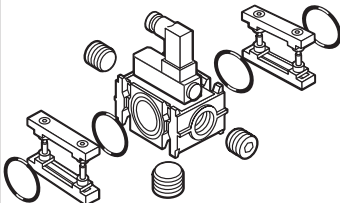
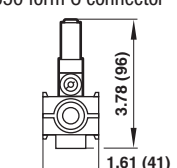
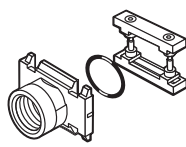
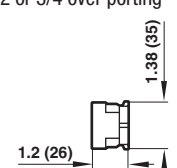
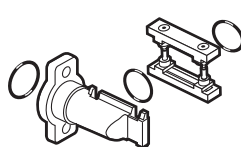
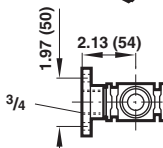
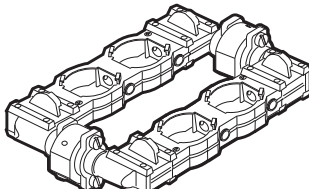
Quikmount Pipe Adapters

Use with the Quikclamp to provide threaded connections to the system piping. Each pipe adapter adds 0.71" (18 mm) to the overall length of a combination unit (each kit contains one adapter).



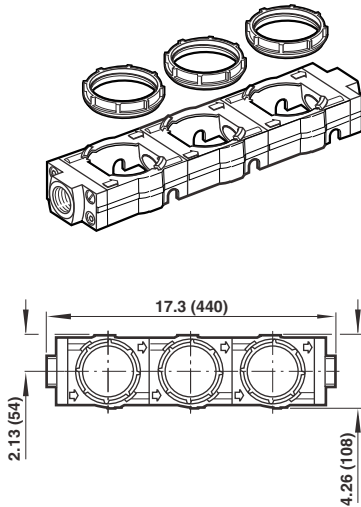
Material: Aluminum
 Part number Port size and (Qty thread 1)
 4315-01 1/4" PTF
 4315-02 3/8" PTF
 4315-03 1/2" PTF
 4315-04 3/4" PTF
 4315-05 1/4" ISO Rc
 4315-06 3/8" ISO Rc
 4315-07 1/2" ISO Rc
 4315-08 3/4" ISO Rc
 4315-09 1/4" ISO G
 4315-10 3/8" ISO G
 4315-11 1/2" ISO G
 4315-12 3/4" ISO G

64 Series Modular Components

Single Yoke   * 3/4= 6.18 (157) <table><tr><td>1/4</td><td>Y64A-2AA-N1N</td></tr><tr><td>3/8</td><td>Y64A-3AA-N1N</td></tr><tr><td>1/2</td><td>Y64A-4AA-N1N</td></tr><tr><td>3/4</td><td>Y64A-6AA-N1N</td></tr></table>	1/4	Y64A-2AA-N1N	3/8	Y64A-3AA-N1N	1/2	Y64A-4AA-N1N	3/4	Y64A-6AA-N1N	Double Yoke   * 3/4 = 9.33 (237) <table><tr><td>1/4</td><td>Y64A-2AA-N2N</td></tr><tr><td>3/8</td><td>Y64A-3AA-N2N</td></tr><tr><td>1/2</td><td>Y64A-4AA-N2N</td></tr><tr><td>3/4</td><td>Y64A-6AA-N2N</td></tr></table>	1/4	Y64A-2AA-N2N	3/8	Y64A-3AA-N2N	1/2	Y64A-4AA-N2N	3/4	Y64A-6AA-N2N	Triple Yoke   * 3/4 = 13.46 (342) <table><tr><td>1/4</td><td>Y64A-2AA-N3N</td></tr><tr><td>3/8</td><td>Y64A-3AA-N3N</td></tr><tr><td>1/2</td><td>Y64A-4AA-N3N</td></tr><tr><td>3/4</td><td>Y64A-6AA-N3N</td></tr></table>	1/4	Y64A-2AA-N3N	3/8	Y64A-3AA-N3N	1/2	Y64A-4AA-N3N	3/4	Y64A-6AA-N3N	Yoke Connector  74503-51
1/4	Y64A-2AA-N1N																										
3/8	Y64A-3AA-N1N																										
1/2	Y64A-4AA-N1N																										
3/4	Y64A-6AA-N1N																										
1/4	Y64A-2AA-N2N																										
3/8	Y64A-3AA-N2N																										
1/2	Y64A-4AA-N2N																										
3/4	Y64A-6AA-N2N																										
1/4	Y64A-2AA-N3N																										
3/8	Y64A-3AA-N3N																										
1/2	Y64A-4AA-N3N																										
3/4	Y64A-6AA-N3N																										
Porting Block  ● (2) 1/4 outlets ● (1) 3/8 outlet  G^{3/8} G^{1/4} P₁ max. = 250 psi (17 bar) T max. = 175°F (80°C) <table><tr><td>74507-52 PTF</td></tr><tr><td>74507-50 ISO G</td></tr><tr><td>74507-51 ISO Rc</td></tr></table>	74507-52 PTF	74507-50 ISO G	74507-51 ISO Rc	Adjustable Pressure Switch  ● 30-150 psi (2–10 bar) adjustable ● Porting block mounted ● DIN 43650 form C connector  P₁ max. = 250 psi (17 bar) T max. = 175°F (80°C) I max. = 5 A V max. = 240 V Reset differential = 15 psi (1 bar) nominal  4346-99	End Connector  ● For use with end mounted porting block ● 1/2 or 3/4 over porting  <table><tr><td>1/2</td><td>74505-52 PTF</td></tr><tr><td>3/4</td><td>74505-55 PTF</td></tr><tr><td>1/2</td><td>74505-50 ISO G</td></tr><tr><td>3/4</td><td>74505-53 ISO G</td></tr></table>	1/2	74505-52 PTF	3/4	74505-55 PTF	1/2	74505-50 ISO G	3/4	74505-53 ISO G														
74507-52 PTF																											
74507-50 ISO G																											
74507-51 ISO Rc																											
1/2	74505-52 PTF																										
3/4	74505-55 PTF																										
1/2	74505-50 ISO G																										
3/4	74505-53 ISO G																										
Rear Entry Bracket Kit   3/4 18-026-981	Duplex Kit  18-026-978																										

68 Series Modular Components

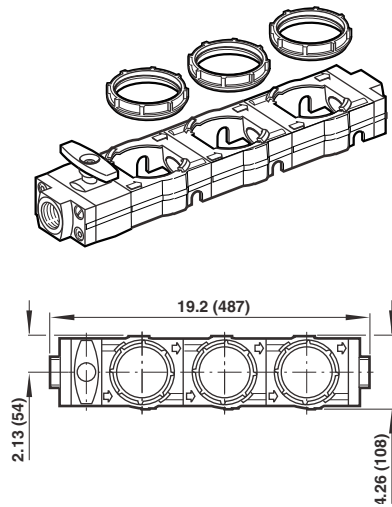
Triple Yoke Assembly



Port Size

NPT 1/2	Y68A-4AN-N3N
NPT 3/4	Y68A-6AN-N3N
NPT 1	Y68A-8AN-N3N
NPT 1-1/4	Y68A-AAN-N3N
NPT 1-1/2	Y68A-BAN-N3N

Triple Yoke Assembly with Shut-off



Port Size

NPT 1/2	Y68B-4AN-E3N
NPT 3/4	Y68B-6AN-E3N
NPT 1	Y68B-8AN-E3N
NPT 1-1/4	Y68B-AAN-E3N
NPT 1-1/2	Y68B-BAN-E3N

Alternative 68 Series Yoke Assembly Models

Shut-Off Valve and Porting Block	Substitute
No shut-off valve, No porting block	A
With shut-off valve, No porting block	B
With shut-off valve, With porting block	E
No shut-off valve, With porting block	F

Port Size	Substitute
3/4"	6
1"	8
1 1/4"	A
1 1/2"	B

Threads	Substitute
PTF	A
ISO Rc taper	B
ISO G parallel	G

Y 6 8 ★ - ★ ★ N - ★ ★ ★

Wall Mounting Bracket	Substitute
Without	N
With	B

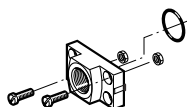
Yoke	Substitute
Single	1
Double	2
Triple	3

Shut-Off Valve Type	Substitute
2-port/2-position, Padlocks open or closed, No exhaust, Black handle	A
3-port/2-position, Padlocks open or closed, Unthreaded exhaust, Black handle	C
3-port/2-position, Not lockable, Threaded exhaust, Black handle	D
3-port/2-position, Padlocks closed only, Unthreaded exhaust, Yellow handle	E *
2-port/2-position, Not lockable, No exhaust, Black handle	G
No shut-off valve	N

* Meets OSHA requirements.

68 Series Modular Components

End Connector Kit



Note: Two kits are required per unidaptor. Each kit contains end connector, screws, nuts and o-ring.

Port Size

NPT 1/2	5524-56
NPT 3/4	5524-53
NPT 1	5524-50
NPT 1-1/4	5523-50
NPT 1-1/2	5523-95

Yoke Connecting Kit



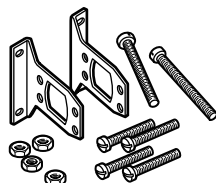
Comprising seal, screws and nuts. Part Number 18-026-987

Mounting Bracket

Brackets slip over end connectors and are bolted to Yoke Assembly with nuts and screws provided.

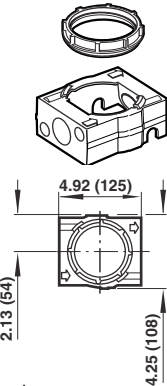
Note: Each kit contains 6 screws (2 x 80 mm and 4 x 35 mm) and 4 nuts.

Part Number



1/2" ported yoke	18-001-979
3/4" ported yoke	18-001-979
1" ported yoke	18-001-979
1-1/4" ported yoke	18-001-978
1-1/2" ported yoke	N/A

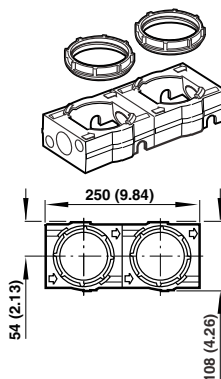
Single Yoke



Part Number: 74785-98

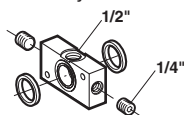
Double Yoke

Part Number: 74785-51



Porting Block

May be fitted to end connectors, shut-off valves, or yokes. Provides additional outlets for auxiliary air.



A porting block adds 29 mm (1.14") to the overall length of a combination unit.

To order separately:

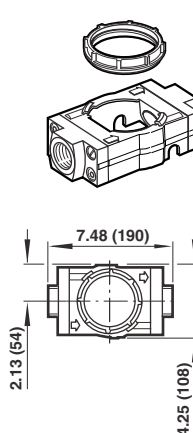
Thread Type	Part Number
ISO G	18-026-986
NPT	18-026-983

To order unidaptor with porting block installed after 1st yoke:

With shut-off valve and porting block: Change **B** to **E** in 4th position of unidaptor model number.

Without shut-off valve, with porting block: Change **A** to **F** in 4th position of unidaptor model number.

Single Yoke Assembly

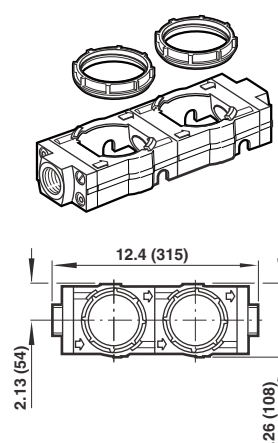


Port Size

NPT 1/2	Y68A-4AN-N1N
NPT 3/4	Y68A-6AN-N1N
NPT 1	Y68A-8AN-N1N
NPT 1-1/4	Y68A-AAN-N1N
NPT 1-1/2	Y68A-BAN-N1N

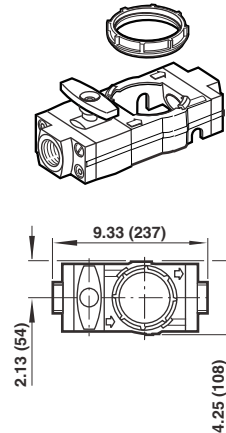
Double Yoke Assembly

Port Size



NPT 1/2	Y68A-4AN-N2N
NPT 3/4	Y68A-6AN-N2N
NPT 1	Y68A-8AN-N2N
NPT 1-1/4	Y68A-AAN-N2N
NPT 1-1/2	Y68A-BAN-N2N

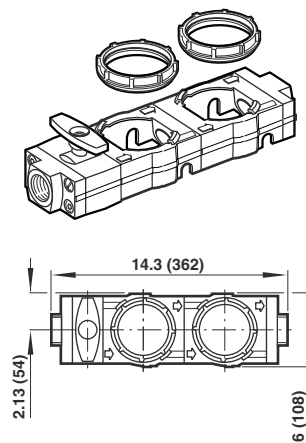
Single Shut-off Yoke Assembly



Port Size

NPT 1/2	Y68B-4AN-E1N
NPT 3/4	Y68B-6AN-E1N
NPT 1	Y68B-8AN-E1N
NPT 1-1/4	Y68B-AAN-E1N
NPT 1-1/2	Y68B-BAN-E1N

Double Shut-off Yoke Assembly



Port Size

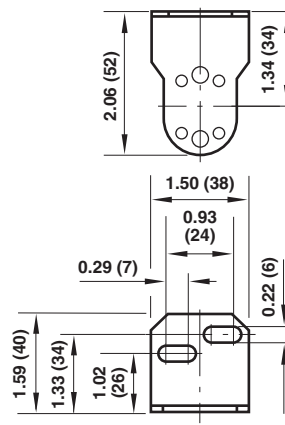
NPT 1/2	Y68B-4AN-E2N
NPT 3/4	Y68B-6AN-E2N
NPT 1	Y68B-8AN-E2N
NPT 1-1/4	Y68B-AAN-E2N
NPT 1-1/2	Y68B-BAN-E2N

Filter Accessories

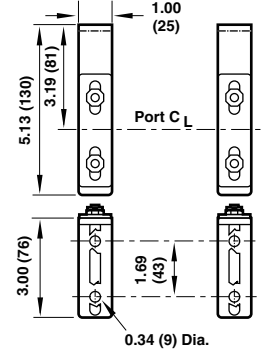
Product	Accessory	Part No.
F07	Wall bracket	5939-06
F17	Wall bracket	3/4", 1" Ports: 6212-50 1-1/4", 1-1/2" Ports: 6212-51
F22	Wall bracket	18-001-962
F39	Wall bracket	5939-06
F46	Wall bracket	3/4", 1" Ports: 6212-50 1-1/4", 1-1/2" Ports: 6212-51
F64	Wall bracket	74504-50

All Dimensions in Inches (mm)

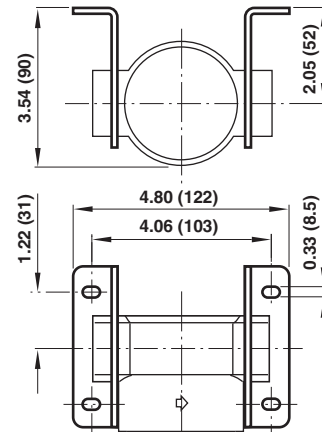
F07, F39 Bracket (5939-06)



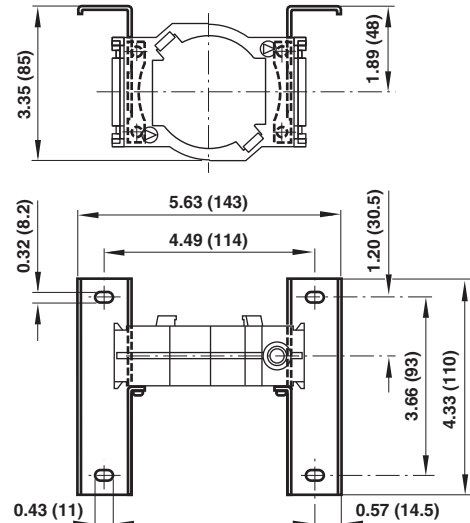
F17, F46 Bracket (6212-50, 6212-51)



F22 Bracket (18-001-962)



F64 Bracket (74504-50)

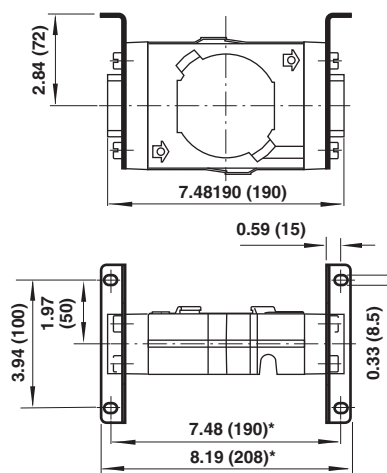


Filter Accessories

Product	Accessory	Part No.
F68	Wall bracket 1/2", 3/4", 1", 1-1/4" Ports: 18-001-978 1-1/2" Ports: Not Available	
F72	Wall bracket	4224-50
F73	Wall Bracket	4424-50
	Electric service indicator Provides electrical signal when element needs to be replaced. Rated NEMA 4.	4020-51R
	Visual service indicator Turns from green to red when element needs to be replaced.	5797-50
F74	Wall bracket	4324-50
	Electric service indicator Rated NEMA 4 Provides electrical signal when element needs to be replaced.	4020-51R
	Visual service indicator Turns from green to red when element needs to be replaced.	5797-50

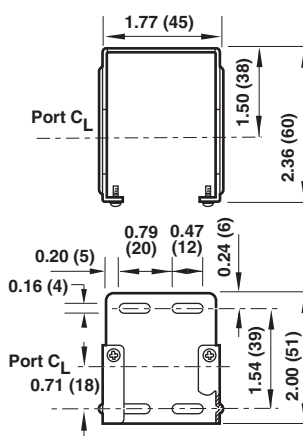
All Dimensions in Inches (mm)

F68 Bracket (18-001-978)

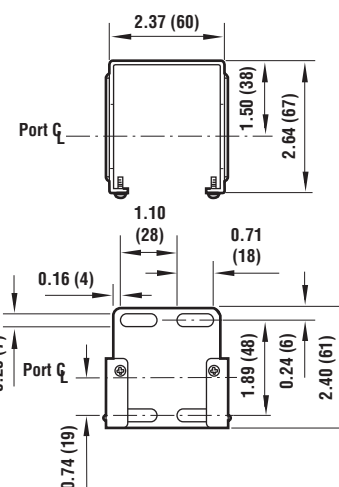


* Add 0.39" (10) for 1-1/4" ported yokes.

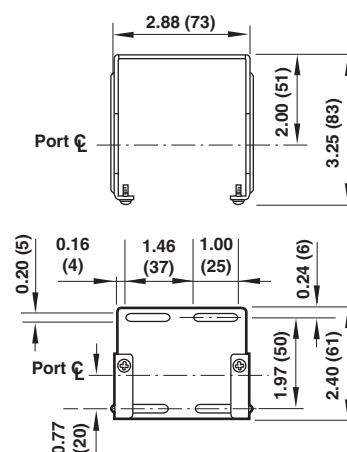
F72 Bracket (4224-50)



F73 Bracket (4424-50)



F74 Bracket (4324-50)

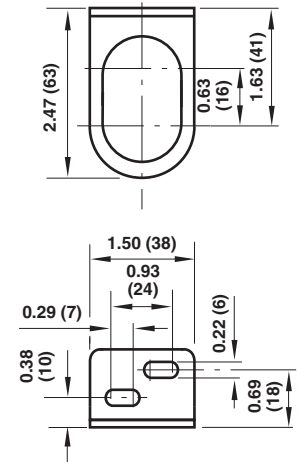


Regulator Accessories

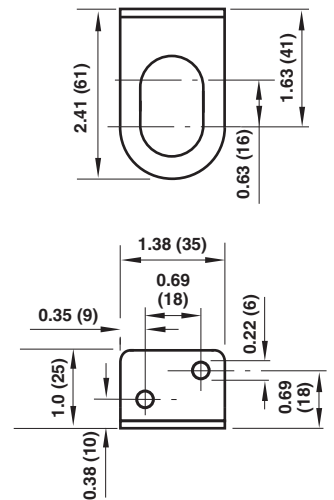
Product	Accessory	Part No.
R05	Plastic panel nut	2962-89
R06	Wall bracket for R06 with plastic bonnet	Bracket and plastic nut: 18-025-003 Plastic nut: 2962-89 Metal nut: 2962-04
	Wall bracket for R06 with brass bonnet	Bracket and metal nut: 18-001-021 Metal nut: 616-01
	Tamper resistant knob kit	18-001-092
R07	Wall bracket with plastic nut	Bracket and plastic nut: 18-025-003 Plastic nut: 2962-89 Metal nut: 2962-04
	Tamper resistant knob kit	18-001-092
R17	Wall bracket with plastic nut	Bracket and metal nut: 5570-04 Metal nut: 5226-97
	Tamper resistant seal wire	2117-01
R18	Muffler	3/4 PTF: MB006A R 3/4: MB006B

All Dimensions in Inches (mm)

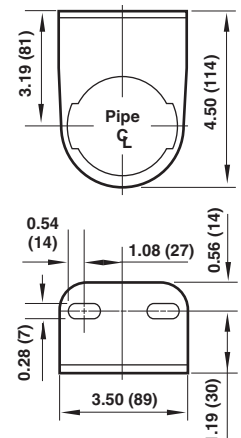
R06, R07 Bracket (18-025-003)



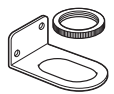
R06 Bracket for Brass Bonnet (18-001-021)



R17 Bracket (5570-04)

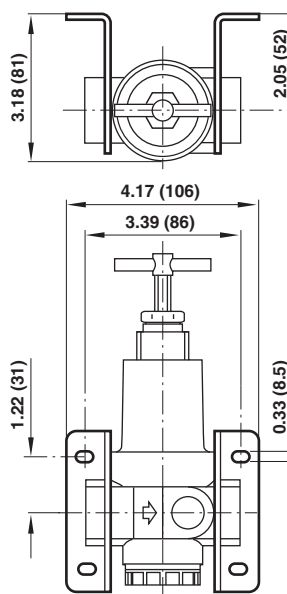


Regulator Accessories

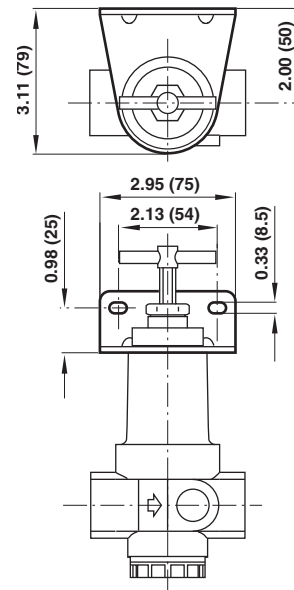
Product	Accessory	Part No.
R22	Stainless steel wall bracket	18-001-962
		
	Wall bracket (neck mount)	Stainless steel wall bracket and metal nut: 18-001-959 Metal nut: 5988-02
		
R24	Wall bracket with metal nut	Bracket and metal nut: 18-999-412 Bracket: 18-001-996 Plastic nut: 2962-89 Metal nut: 2962-04
		
	Reducing bushing for gauge ports	3/8 to 1/4 PTF: 5950-01 1/2 to 1/4 PTF: 2339-04 R1/4 to G1/8: 150232818 R3/8 to G1/8: 150233818 R1/2 to G1/8: 150234818
		
	Tamper resistant cap	18-021-006
R30M	Plastic panel nut	2962-89
	Metal panel nut	2962-04
		
	Tamper resistant knob kit	18-001-092
		
	Push-in connector	8 mm: 11-002-0800 10 mm: 11-002-1000
		
	Push-in plug	8 mm: 11-004-0800 10 mm: 11-004-1000
		
	Push-in gauge adapter	8 mm: 74679-02 10 mm: 74679-03
		

All Dimensions in Inches (mm)

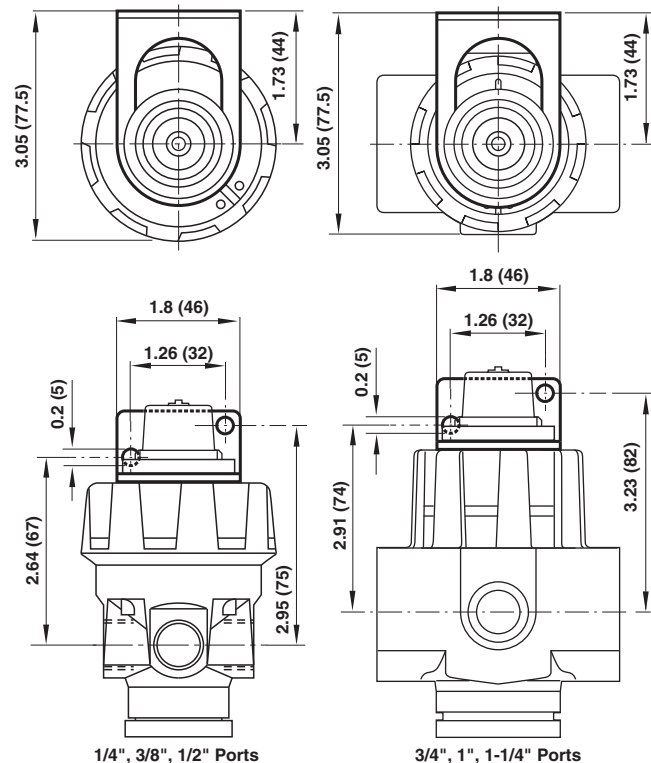
R22 Bracket (18-001-962)



R22 Neck Bracket (18-001-959)



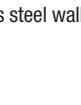
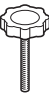
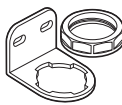
R24 Bracket (18-999-412)



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

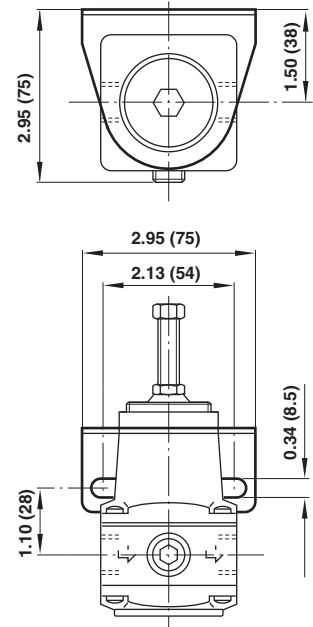
3/4", 1", 1-1/4" Ports

Regulator Accessories

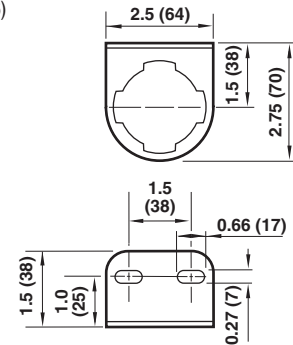
Product	Accessory	Part No.
R38	Aluminum wall bracket and nut: 18-001-974 Aluminum nut: 5988-01	
		
	Stainless steel wall bracket and nut: 18-001-973 Stainless steel nut: 5988-02	
		
	Plastic adjusting knob	655-97
		
	Tamper resistant cap	18-004-987
		
R40 R41 R43	Wall bracket with metal nut	Bracket and metal nut: 5203-06 Plastic nut: 5191-89 Metal nut: 5191-88
		
	Tamper resistant seal wire	2117-01
		
R44	Wall bracket for R44 with plastic bonnet	Bracket and plastic nut: 18-025-003 Plastic nut: 2962-89 Metal nut: 2962-04
		
	Wall bracket for R44 with brass bonnet	Bracket and metal nut: 18-001-021 Metal nut: 616-01
		
	Tamper resistant knob	18-001-092
		

All Dimensions in Inches (mm)

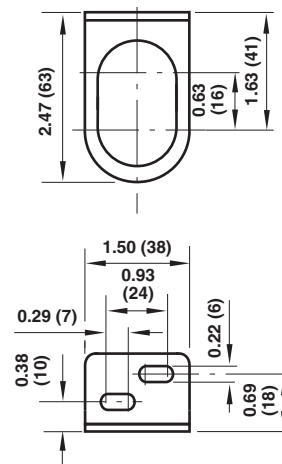
R38 Bracket (18-001-974)



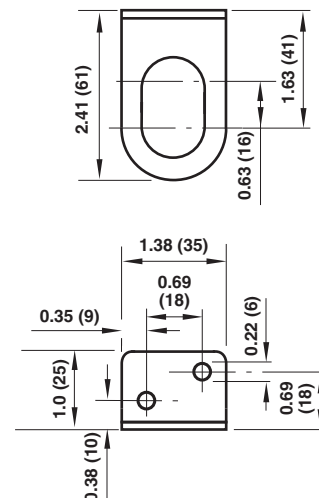
R40, R41, R43 Bracket (5203-06)



R44 Bracket (18-025-003)



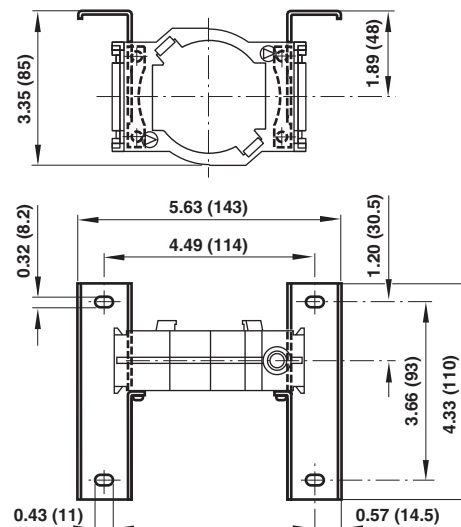
R44 Bracket for Brass Bonnet (18-001-021)



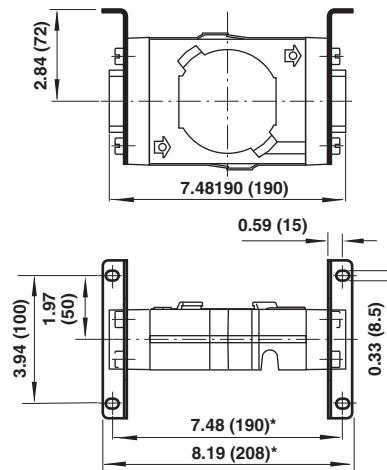
Regulator Accessories

All Dimensions in Inches (mm)

R64 Bracket (74504-50)

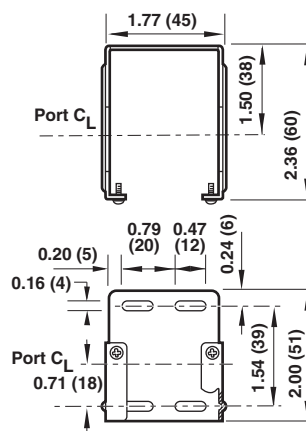


R68 Bracket (18-001-978)

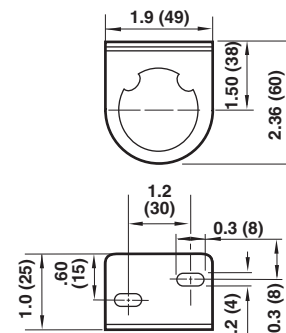


* Add 0.39" (10) for 1-1/4" ported yokes.

R72 Bracket (4224-50)

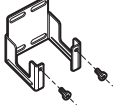
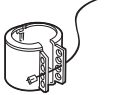
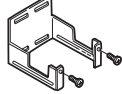
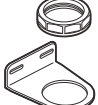
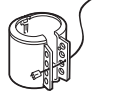


R72 Neck Bracket (74316-02)



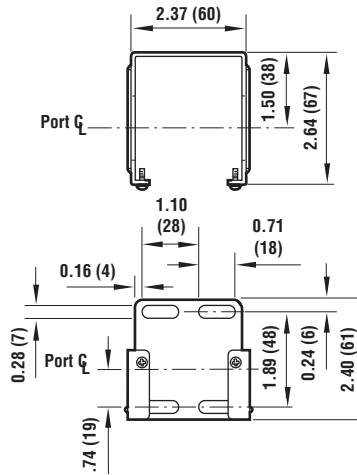
Product	Accessory	Part No.
R64	Wall bracket	74504-50
	Metal panel nut	4348-89
	Tamper resistant cover and wire. Install over knob to help prevent tampering of pressure setting. Use up to 4 padlocks with 5/16" (8mm) diameter shackle to secure cover. Lockout hasp may also be used.	Cover and wire: 4355-51 Wire: 2117-01
	Lockout hasp. Allows use of up to 6 padlocks with 5/16" (8mm) diameter shackle.	54547-01
R68	Wall bracket	1/2", 3/4", 1", 1-1/4" Ports: 18-001-978 1-1/2" Ports: Not Available
	Tamper resistant cover and wire. Install over knob to help prevent tampering of pressure setting. Use up to 4 padlocks with 5/16" (8mm) diameter shackle to secure cover. Lockout hasp may also be used.	Cover and wire: 4355-51 Wire: 2117-01
	Lockout hasp. Allows use of up to 6 padlocks with 5/16" (8mm) diameter shackle.	54547-01
R72	Wall bracket	4224-50
	Wall bracket/plastic nut	Bracket and plastic nut: 74316-50 Plastic nut: 4248-89 Metal Nut: 4248-01
	Tamper resistant cover and wire. Install over knob to help prevent tampering of pressure setting. Use up to 2 padlocks with 5/16" (8mm) diameter shackle to secure cover. Lockout hasp may also be used.	Cover and wire: 4255-51 Wire: 2117-01
	Lockout hasp. Allows use of up to 6 padlocks with 5/16" (8mm) diameter shackle.	54547-01

Regulator Accessories

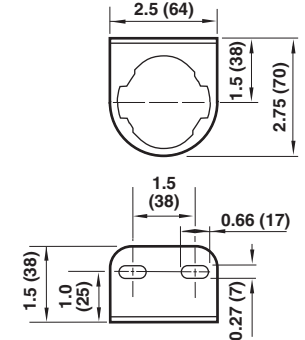
Product	Accessory	Part No.
R73	Wall bracket	4424-50
		
	Wall bracket/metal nut Bracket and metal nut: 4461-50 Metal Nut: 5191-88 Plastic Nut: 5191-89 	
	Tamper resistant cover and wire. Install over knob to help prevent tampering of pressure setting. Use up to 4 padlocks with 5/16" (8mm) diameter shackle to secure cover. Lockout hasp may also be used. Cover and wire: 4455-51 Wire: 2117-01 	
	Lockout hasp. Allows use of up to 6 padlocks with 5/16" (8mm) diameter shackle. 	54547-01
R74	Wall bracket	4324-50
		
	Wall bracket/metal nut Bracket and metal nut: 4368-51 Metal Nut: 4348-89 	
	Tamper resistant cover and wire. Install over knob to help prevent tampering of pressure setting. Use up to 4 padlocks with 5/16" (8mm) diameter shackle to secure cover. Lockout hasp may also be used. Cover and wire: 4355-51 Wire: 2117-01 	
	Lockout hasp. Allows use of up to 6 padlocks with 5/16" (8mm) diameter shackle. 	54547-01

All Dimensions in Inches (mm)

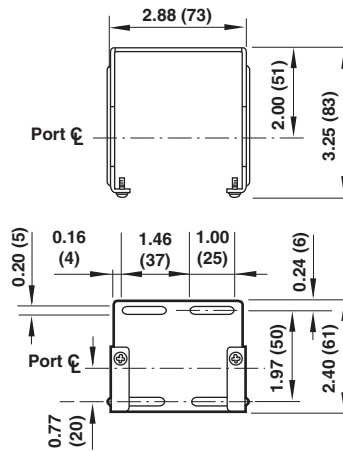
R73 Bracket (4424-50)



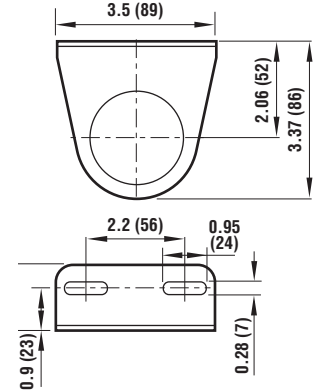
R73 Neck Bracket (4461-50)



R74 Bracket (4324-50)



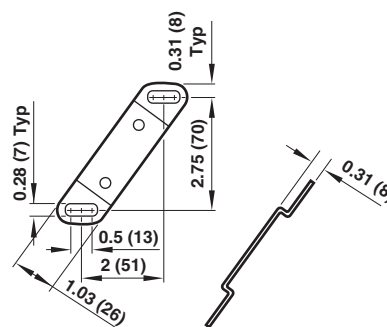
R74 Neck Bracket (4368-51)

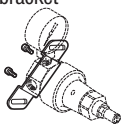
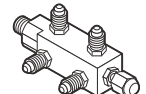


Regulator Accessories

All Dimensions in Inches (mm)

R81, R82, R83, R84 Bracket (5095-51)



Product	Accessory	Part No.
R81 R82 R83 R84	Wall bracket 	5095-51
	Pipe plug, hex socket 	1/4 PTF: 2891-97
	Nipple 	1/4 PTF male: 18-006-067
	Union adapter with cap 	1/4 PTF to 1/4 tube (45° flare): 18-006-068 Adapter only: 18-006-027 Cap only: 3302-50
	Cylinder connector, nitrogen service, 0.906-14 RH external thread 	CGA No. 580: 18-008-004
	Cylinder connector, carbon dioxide service, 0.830-14 RH internal thread 	CGA No 320: 18-008-002 With 2.25" (57mm) long nipple: 18-008-015 Replacement gasket: 1390-02
	Check valves * 	1/4 PTF male to 1/4 tube (45° flare): 16-009-001 1/4 PTF male to 1/2-16 BSF: 16-009-002 1/4 PTF male to 1/4 PTF female: 16-009-003
	Check and relief valve ** Relief cracking pressure: 130±4 psig (9 ±0.28 bar) 	1/4 PTF male to 1/4 tube (45° flare): 16-006-107
	Manifolds with integral check valve *  	2 or 3 outlets, 1/4 PTF male to 1/4 tube (45° flare): 3228-54 2 or 3 outlets, 1/4 PTF male to 1/2-16 BSF: 3228-55 4 or 5 outlets, 1/4 PTF male to 1/4 tube (45° flare): 3228-60 4 or 5 outlets, 1/4 PTF male to 1/2-16 BSF: 3228-61
	Manifold extension 	1/4 PTF male to 1/4 PTF female: 2340-50
	Streamline wye † 	1/4 PTF male to 1/4 PTF female: 18-006-016

* The listed check valves and manifolds with integral check valves are designed for use with Norgren beverage regulators (R81, R82, R84) to help prevent the back flow of liquids into the regulator.

** The 16-006-107 check and relief valve meets the pressure and flow requirements of paragraphs 4.5 and 4.6 of NSDA Pamphlet TD02, Installation and Operational Procedures for Pressurized Soft Drink Dispensing Systems, dated July, 1980.

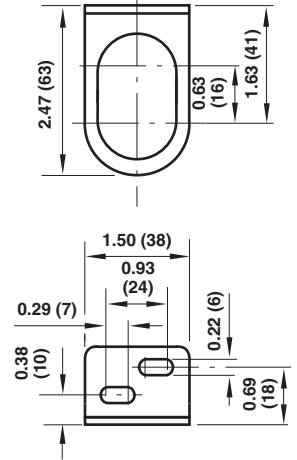
† Check valves, or manifolds with integral check valves, must be installed in the outlet ports of the wye when the wye is installed in the outlet port of Norgren beverage regulators.

Regulator Accessories

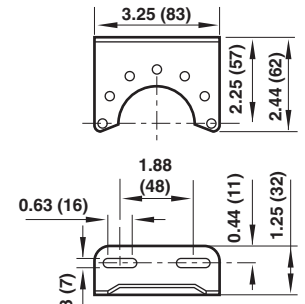
Product	Accessory	Part No.
R91	Wall bracket with plastic nut	Bracket and plastic nut: 18-025-003 Plastic nut: 2962-89 Metal nut: 2962-04
	Tamper resistant knob	18-001-092
11-002	Wall bracket	18-001-003
	Panel mount kit with T-bar adjustment Bonnet included	18-003-004
	Panel mount kit with hand wheel adjustment Bonnet included	18-003-002
	Panel mount kit with screw adjustment Bonnet included	18-003-006
11-008	Wall bracket	Units with 1/2" ports: 18-001-003 Units with 3/4" and 1" ports: 18-001-027

All Dimensions in Inches (mm)

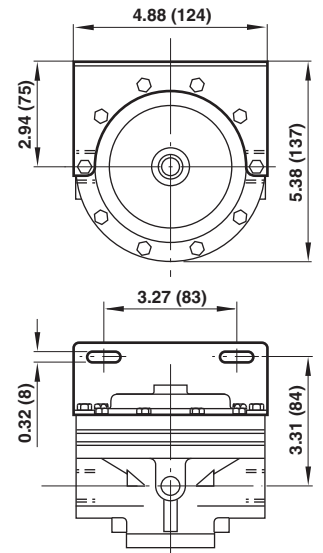
R91 Bracket (18-025-003)



11-002 Bracket 11-008 Bracket (Units with 1/2" Ports) (18-001-003)



11-008 Bracket (Units with 3/4" and 1" Ports) (18-001-027)

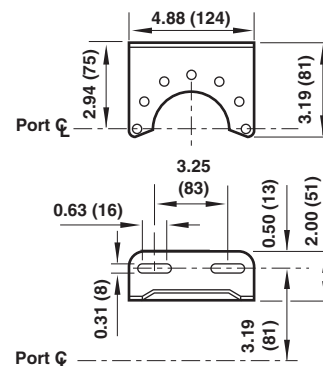


Regulator Accessories

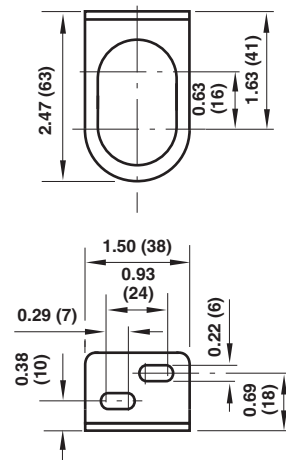
Product	Accessory	Part No.
11-009	Wall bracket	18-001-029
	Screw adjustment	1095-02
11-018	Tamper resistant cap	639-02
11-042	Muffler	3/4 PTF: MB006A R3/4: MB006B
11-044	Wall bracket with plastic nut	Bracket and plastic nut: 18-025-003 Plastic nut: 2962-89 Metal nut: 2962-04
	Tamper resistant knob	18-001-092
11400-20AL-11-104-	Wall bracket	18-001-003

All Dimensions in Inches (mm)

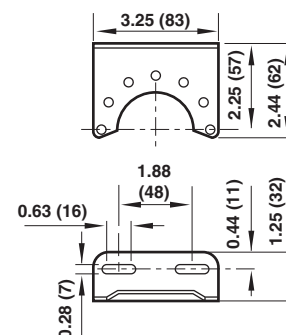
11-009 Bracket (18-001-029)



11-044 Bracket (18-025-003)



**11400- Bracket
20AL Bracket
(18-001-003)**

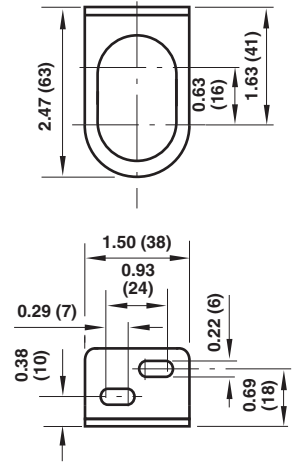


Filter/Regulator Accessories

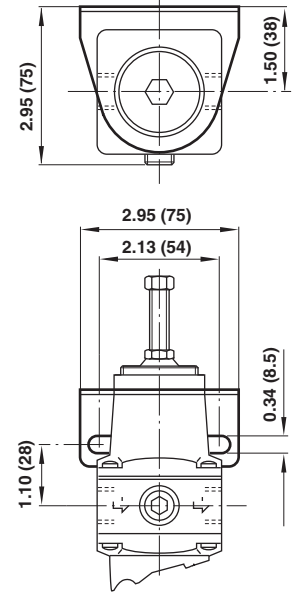
Product	Accessory	Part No.
B05	Plastic Panel Nut	2962-89
B07	Wall bracket with plastic nut	Bracket and plastic nut: 18-025-003 Plastic nut: 2962-89 Metal nut: 2962-04
	Tamper resistant knob	18-001-092
B38	Aluminum wall bracket and nut: 18-001-974 Aluminum nut: 5988-01	
	Stainless steel wall bracket and nut: 18-001-973 Stainless steel nut: 5988-02	
	Plastic adjusting knob	655-97
	Tamper resistant cap	18-004-987
B39	Wall bracket with plastic nut	Bracket and plastic nut: 18-025-003 Plastic nut: 2962-89 Metal nut: 2962-04
	Tamper resistant knob	18-001-092

All Dimensions in Inches (mm)

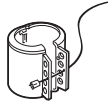
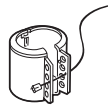
B07, B39 Bracket (18-025-003)



B38 Bracket (18-001-974)

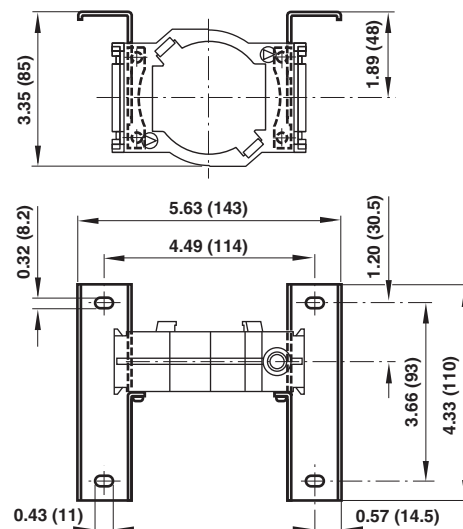


Filter/Regulator Accessories

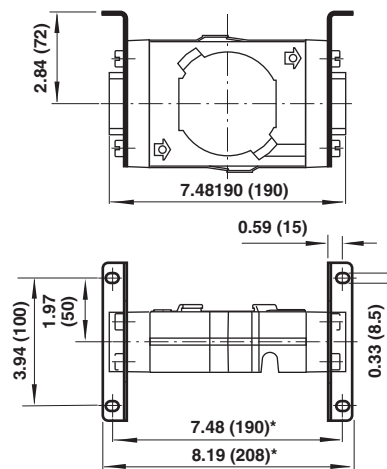
Product	Accessory	Part No.
B64	Wall bracket	74504-50
	 Tamper resistant cover and wire. Install over knob to help prevent tampering of pressure setting. Use up to 4 padlocks with 5/16" (8mm) diameter shackle to secure cover. Lockout hasp may also be used. Cover and wire: 4355-51 Wire: 2117-01  Lockout hasp. Allows use of up to 6 padlocks with 5/16" (8mm) diameter shackle. 	
B68	Wall bracket	18-001-978
	 1/2", 3/4", 1", 1-1/4" Ports: 18-001-978 1-1/2" Ports: Not Available Tamper resistant cover and wire. Install over knob to help prevent tampering of pressure setting. Use up to 4 padlocks with 5/16" (8mm) diameter shackle to secure cover. Lockout hasp may also be used. Cover and wire: 4355-51 Wire: 2117-01  Lockout hasp. Allows use of up to 6 padlocks with 5/16" (8mm) diameter shackle. 	

All Dimensions in Inches (mm)

B64 Bracket (74504-50)



B68 Bracket (18-001-978)

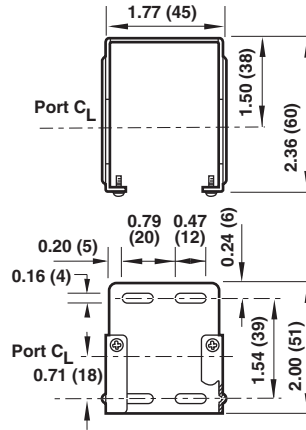
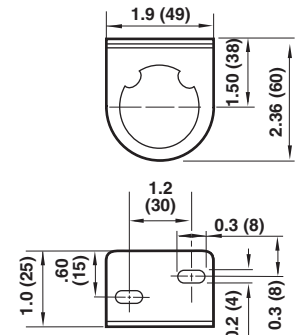
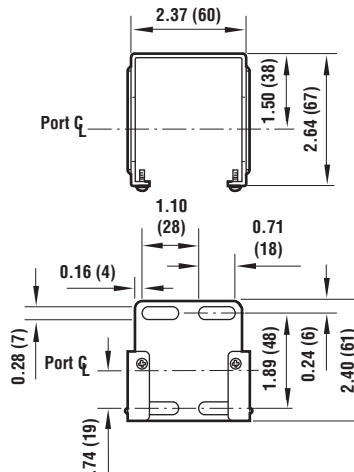
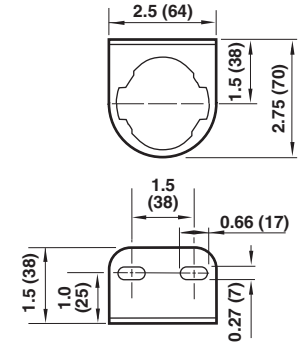
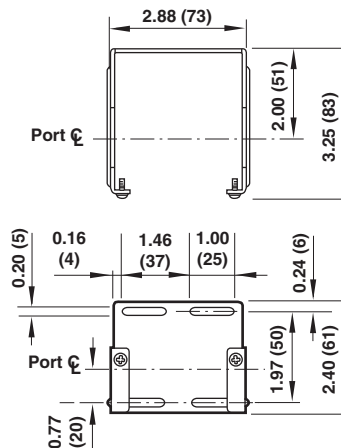
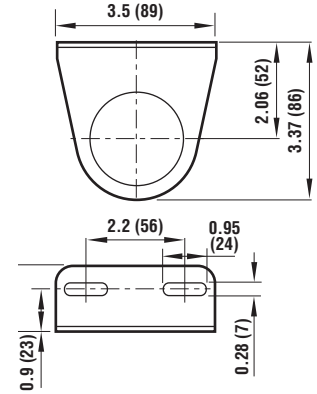


* Add 0.39" (10) for 1-1/4" ported yokes.

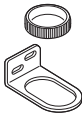
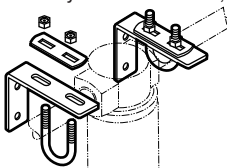
Product	Accessory	Part No.
B72	Wall bracket	4224-50
	Wall bracket/plastic nut  Bracket and plastic nut: 74316-50 Plastic nut: 4248-89 Metal Nut: 4248-01	
	Tamper resistant cover and wire. Install over knob to help prevent tampering of pressure setting. Use up to 2 padlocks with 5/16" (8mm) diameter shackle to secure cover. Lockout hasp may also be used.	Cover and wire: 4255-51 Wire: 2117-01 
	Lockout hasp. Allows use of up to 6 padlocks with 5/16" (8mm) diameter shackle.	 54547-01
B73	Wall bracket	4424-50
	Wall bracket/metal nut  Bracket and metal nut: 4461-50 Metal Nut: 5191-88 Plastic Nut: 5191-89	
	Tamper resistant cover and wire. Install over knob to help prevent tampering of pressure setting. Use up to 4 padlocks with 5/16" (8mm) diameter shackle to secure cover. Lockout hasp may also be used.	Cover and wire: 4455-51 Wire: 2117-01 
	Lockout hasp. Allows use of up to 6 padlocks with 5/16" (8mm) diameter shackle.	 54547-01
B74	Wall bracket	4324-50
	Wall bracket/metal nut  Bracket and metal nut: 4368-51 Metal Nut: 4348-89	
	Tamper resistant cover and wire. Install over knob to help prevent tampering of pressure setting. Use up to 4 padlocks with 5/16" (8mm) diameter shackle to secure cover. Lockout hasp may also be used.	Cover and wire: 4355-51 Wire: 2117-01 
	Lockout hasp. Allows use of up to 6 padlocks with 5/16" (8mm) diameter shackle.	 54547-01

F/R Accessories

All Dimensions in Inches (mm)

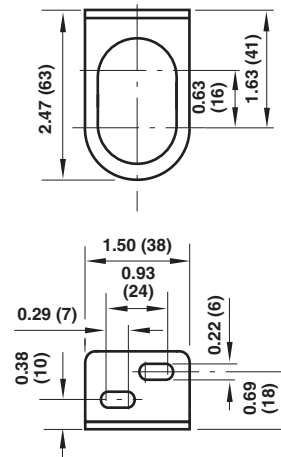
B72 Bracket (4224-02)

B72 Neck Bracket (74316-02)

B73 Bracket (4424-50)

B73 Neck Bracket (4461-50)

B74 Bracket (4324-50)

B74 Neck Bracket (4368-51)


Lubricator Accessories

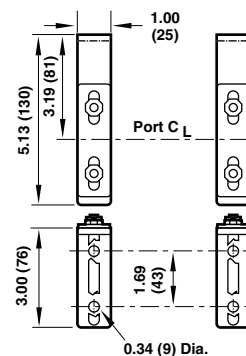
Product	Accessory	Part No.
L07	Wall bracket with plastic nut 	Bracket and plastic nut: 18-025-003 Plastic nut: 2962-89 Metal nut: 2962-04
L17	Wall bracket - use with 1 and 2 quart reservoirs only  Wall strap - use with 2 and 5 gal reservoirs only  Low oil level switch. Provides electrical signal for warning or shut-down when oil level is low.  High/Low Level switch Provides electrical signal for warning or shut-down when oil level is full or low. Pyrex dome and metal fill plug  Quick fill cap. Use with Norgren 18-010-003 oil pump, pail, and hose assembly (see catalog sheet NC-26) to refill reservoir without shutting off air supply. Replaces fill plug.  Fill plug with 1/8 PTF tapped hole. Use with customer supplied pressurized oil source to refill reservoir without shutting off air supply. Replaces standard fill plug. 	3/4", 1" Ports: 6212-50 1-1/4", 1-1/2" Ports: 6212-51 2 gal reservoir: 18-001-056 5 gal reservoir: 18-001-039 2 qt reservoir: 18-023-612 2 gal reservoir: 18-023-614 5 gal reservoir: 18-023-616 5 gal reservoir: 18-023-658 5605-60 18-011-021 5301-52
L22	Wall bracket 	18-001-962

All Dimensions in Inches (mm)

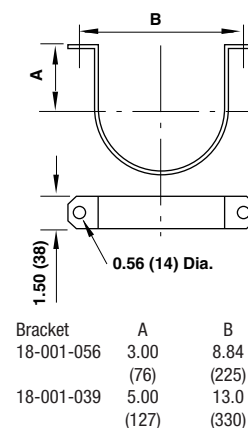
L07 Bracket (18-025-003)



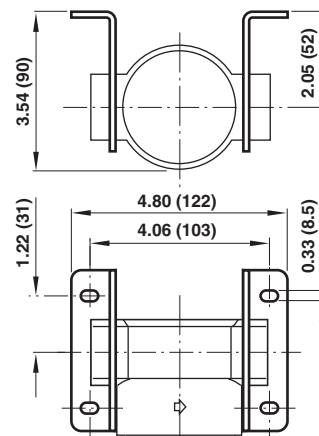
L17 Bracket (6212-50, 6212-51)



L17 Strap (18-001-039/056)



L22 Bracket (18-001-962)

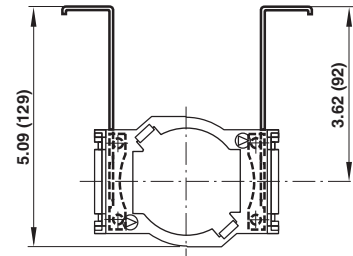


Lubricator Accessories

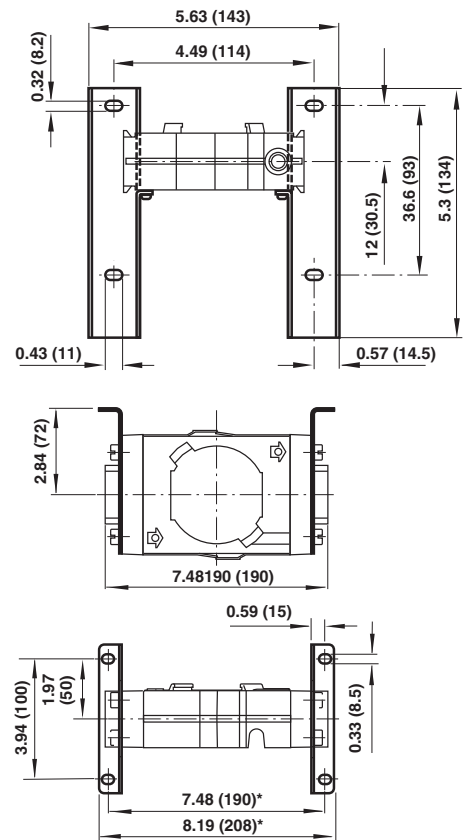
Product	Accessory	Part No.
L64	Wall bracket	7 ounce bowl: 74504-50 1 quart bowl: 74504-52
		
	Tamper resistant seal wire for sight-feed dome	2117-01
		
	Low oil level switch. Provides electrical signal for warning or shut-down when oil level is low.	1 qt reservoir: 18-023-610
		
	Quick fill cap. Use with Norgren 18-010-003 oil pump, pail, and hose assembly (see catalog sheet NC-26) to refill reservoir without shutting off air supply. Replaces fill plug.	18-011-024
		
	Remote fill - use with 7 ounce reservoir only Use with customer supplied pressurized oil source to automatically refill reservoir.	5335-50
		
L68	Wall bracket	1/2", 3/4", 1", 1-1/4" Ports: 18-001-978 1-1/2" Ports: Not Available
		
	Tamper resistant seal wire for sight-feed dome	2117-01
		
	Low oil level switch. Provides electrical signal for warning or shut-down when oil level is low.	2 gal reservoir: 18-007-975 5 gal reservoir: 18-007-974
		
	Quick fill cap. Use with Norgren 18-010-003 oil pump, pail, and hose assembly (see catalog sheet NC-26) to refill reservoir without shutting off air supply. Replaces fill plug.	18-011-021
		
	Remote fill - use with 1 qt reservoirs only Use with customer supplied pressurized oil source to automatically refill reservoir.	5335-52
		

All Dimensions in Inches (mm)

L64 Bracket
(74504-52)



L68 Bracket
(18-001-978)

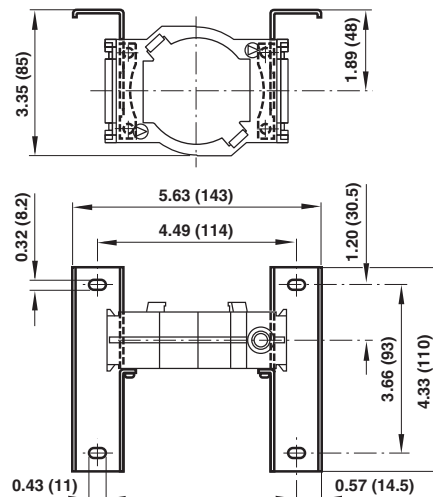


Lubricator Accessories

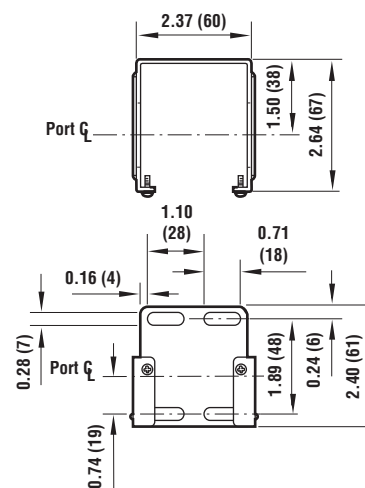
Product	Accessory	Part No.
L72	Wall bracket	4224-50
L73	Wall bracket	4424-50
	Quick fill cap. Use with Norgren 18-010-003 oil pump, pail, and hose assembly (see catalog sheet NC-26) to refill reservoir without shutting off air supply. Replaces fill plug.	18-011-024
L74	Wall bracket	7 ounce bowl: 4324-50 1 quart bowl: 4324-51
	Low oil level switch - use with 1 qt reservoir only Provides electrical signal for warning or shut-down when oil level is low.	18-023-610
	Quick fill cap. Use with Norgren 18-010-003 oil pump, pail, and hose assembly (see catalog sheet NC-26) to refill reservoir without shutting off air supply. Replaces fill plug.	18-011-024
	Remote fill - use with 7 ounce reservoir only Use with customer supplied pressurized oil source to automatically refill reservoir.	5335-50

All Dimensions in Inches (mm)

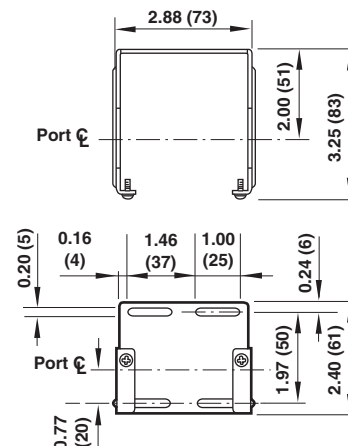
L64 Bracket
(74504-50)



L73 Bracket (4424-50)



L74 Bracket (4324-50)

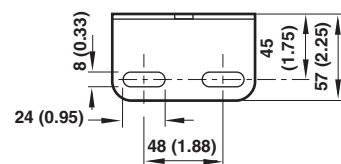
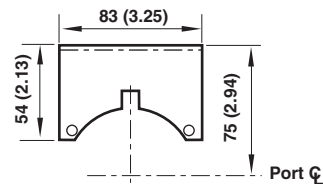


Lubricator Accessories

Product	Accessory	Part No.
10-015 and 10-065	Wall bracket kit - use with 10-015 only. Includes screws to attach lubricator	18-001-009
		
	Low oil level switch. Provides electrical signal for warning or shut-down when oil level is low. 	10-015-504: 18-023-018 10-015-005: 18-023-018 10-065-006: 18-023-022 10-065-007: 18-023-024
	Pyrex dome kit 	1804-03
	Quick fill cap. Use with Norgren 18-010-003 oil pump, pail, and hose assembly (see catalog sheet NC-26) to refill reservoir without shutting off air supply. Replaces fill plug. 	18-011-006
	Bowl guard for 10-015-002 and 10-015-100 	18-012-002
	Streamline wye 1/4 PTF male to 1/4 PTF female: 18-006-016 	
	Quick fill cap. Use with Norgren 18-010-003 oil pump, pail, and hose assembly (see catalog sheet NC-26) to refill reservoir without shutting off air supply. Replaces fill plug. 	18-011-008
	Pyrex/aluminum dome 	5605-50

All Dimensions in Inches (mm)

10-015 Bracket (18-001-009)

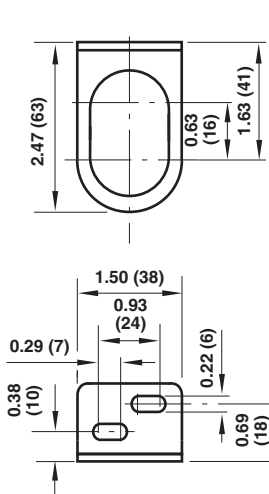


Relief Valve Accessories

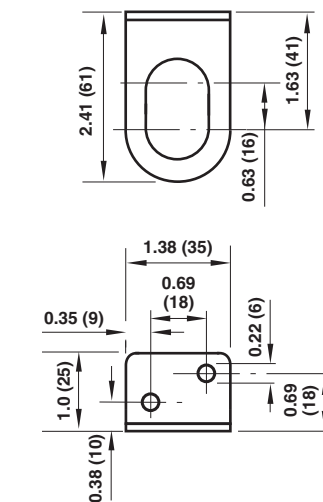
All Dimensions in Inches (mm)

Product	Accessory	Part No.
V06	Wall bracket for V06 with plastic bonnet	Bracket and plastic nut: 18-025-003 Plastic nut: 2962-89 Metal nut: 2962-04
	Wall bracket for V06 with brass bonnet	Bracket and metal nut: 18-001-021 Metal nut: 616-01
	Tamper resistant knob kit	18-001-092
V07	Wall bracket with plastic nut	Bracket and plastic nut: 18-025-003 Plastic nut: 2962-89 Metal nut: 2962-04
	Tamper resistant knob kit	18-001-092
V64	Wall bracket	74504-50
	Muffler	1/2 PTF: MB004A R1/2: MB004B
	Tamper resistant cap	1581-90
V68	Wall bracket	3/4", 1", 1-1/4" Ports: 18-001-978 1-1/2" Ports: Not Available
	Muffler	1/2 PTF: MB008A R1/2: MB008B

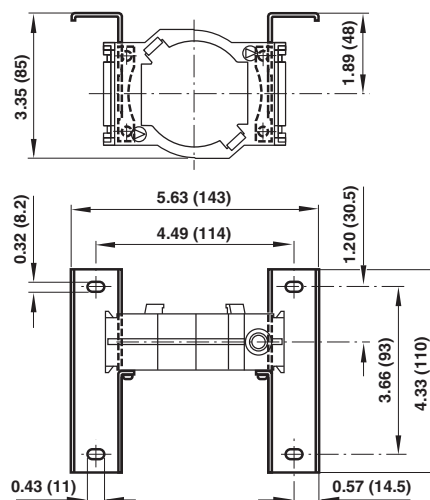
V06, V07 Bracket (18-025-003)



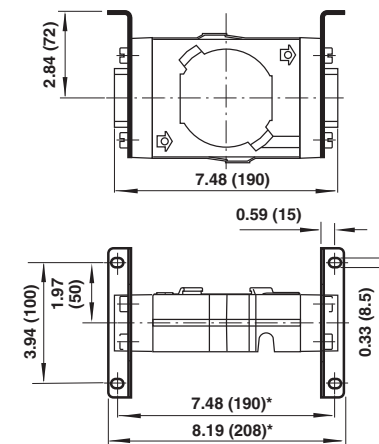
V06 Bracket for Brass Bonnet (18-001-021)



V64 Bracket (74504-50)

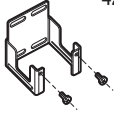
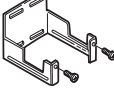


V68 Bracket (18-001-978)



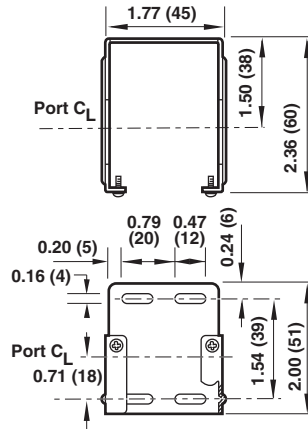
* Add 0.39" (10) for 1-1/4" ported yokes.

Relief Valve Accessories

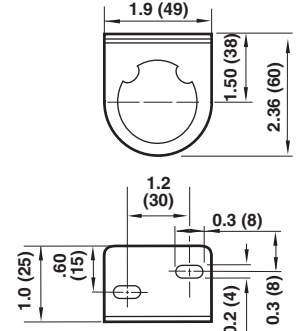
Product	Accessory	Part No.
V72	Wall bracket	4224-50
	 Wall bracket/plastic nut  Bracket and plastic nut: 74316-50 Bracket and metal nut: 74316-51 Plastic nut: 4248-89 Metal Nut: 4248-01	
	Tamper resistant cover and wire. Install over knob to help prevent tampering of pressure setting. Use up to 2 padlocks with 5/16" (8mm) diameter shackle to secure cover. Lockout hasp may also be used.  Cover and wire: 4255-51 Wire: 2117-01	
	Lockout hasp. Allows use of up to 6 padlocks with 5/16" (8mm) diameter shackle.  54547-01	
V74	Wall bracket	4324-50
	 Wall bracket/metal nut  Bracket and metal nut: 4368-51 Metal Nut: 4348-89	
	Tamper resistant cover and wire. Install over knob to help prevent tampering of pressure setting. Use up to 4 padlocks with 5/16" (8mm) diameter shackle to secure cover. Lockout hasp may also be used.  Cover and wire: 4355-51 Wire: 2117-01	
	Lockout hasp. Allows use of up to 6 padlocks with 5/16" (8mm) diameter shackle.  54547-01	

All Dimensions in Inches (mm)

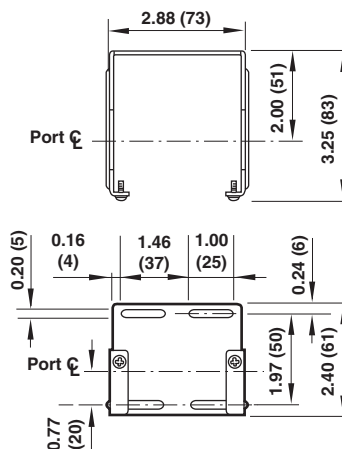
V72 Bracket (4224-50)



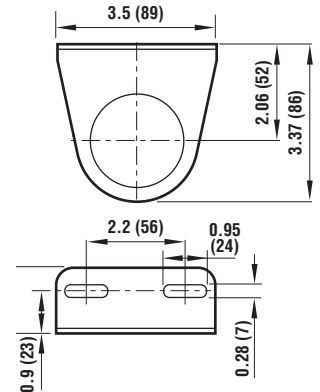
V72 Neck Bracket (74316-02)



V74 Bracket (4324-50)

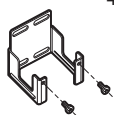


V74 Neck Bracket (4368-51)

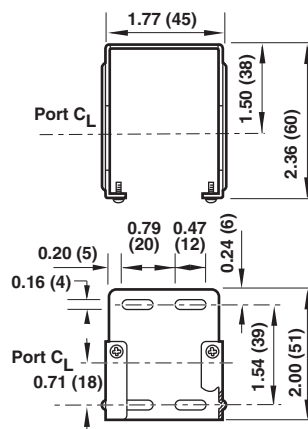


Accessories

All Dimensions in Inches (mm)

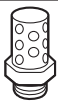
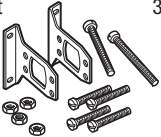
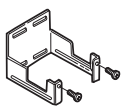
Product	Accessory	Part No.
T72	Wall bracket	4224-50
		
	Mufflers (T72T)  Diffuser (10-32 and M5): 54463-01 Muffler (10-32): MS000A Muffler (M5): T40M0500	
	Lockout hasp.(use only with T72E and T72T) Allows use of up to 6 padlocks with 5/16" (8mm) diameter shackle.	54547-01
		
T64	Muffler (T64T)	
	 Muffler (1/8 PTF): MS001A Muffler (R1/8): T40B1800	
	Lockout hasp. Allows use of up to 6 padlocks with 5/16" (8mm) diameter shackle.	54547-01
		
T68	Lockout hasp.	54547-01
	Allows use of up to 6 padlocks with 5/16" (8mm) diameter shackle.	
		
T73	Mufflers (T73T)	
	 Diffuser (10-32 and M5): 54463-01 Muffler (10-32): MS000A Muffler (M5): T40M0500	
	Lockout hasp. Allows use of up to 6 padlocks with 5/16" (8mm) diameter shackle.	54547-01
		
T74	Muffler (T74T)	
	 Muffler (1/8 PTF): MS001A Muffler (R1/8): T40B1800	
	Lockout hasp. Allows use of up to 6 padlocks with 5/16" (8mm) diameter shackle.	54547-01
		

T72 Bracket (4224-50)

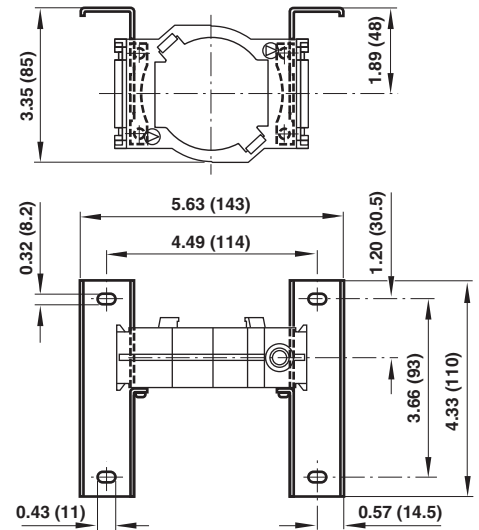


Accessories

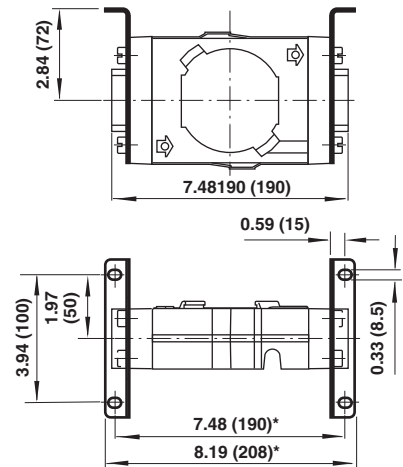
All Dimensions in Inches (mm)

Product	Accessory	Part No.
P72	Mufflers for P72C and P72F  Lockout hasp for P72F. Allows use of up to 6 padlocks with 5/16" (8mm) diameter shackle. 	1/4 PTF: MB002A R1/4: MB002B 54547-01
P64F	Wall bracket  Muffler  Lockout hasp. Allows use of up to 6 padlocks with 5/16" (8mm) diameter shackle. 	74504-50 1/2 PTF: MB004A R1/2: MB004B 54547-01
P68F	Wall bracket  3/4", 1", 1-1/4" Ports: 18-001-978 1-1/2" Ports: Not Available Muffler  Lockout hasp. Allows use of up to 6 padlocks with 5/16" (8mm) diameter shackle. 	1" PTF: MB008A R1 : MB008B 54547-01
P74	Wall bracket  Mufflers for P74C and P74F  Lockout hasp for P74F and P74C with lockout slide: Allows use of up to 6 padlocks with 5/16" (8mm) diameter shackle. 	4324-50 1/2 PTF: MB004A R1/2: MB004B 54547-01

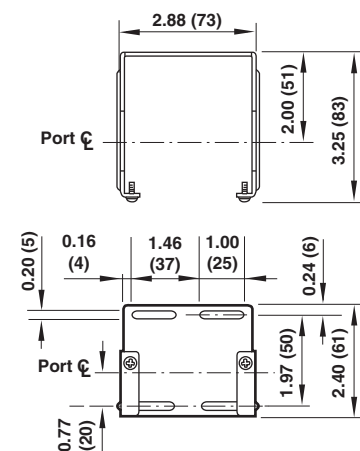
P64 Bracket
(74504-50)



P68 Bracket
(18-001-978)



P74 Bracket (4324-50)



Accessories

4020-51R

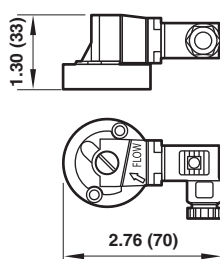
ELECTRICAL SERVICE INDICATOR



- Switches when the differential pressure across the filter element exceeds the factory set differential pressure
- Can replace the standard mechanical Service Indicator on Norgren filters
- Can be field installed on Norgren F55, F73G, F73C, F74G, F74C, and F74H filters

Note: 17, 18, 72, 64, and 68 Series cannot be field converted. The electrical service indicator must be factory installed. It can be used replace the mechanical service life indicator.

Dimensions inches (mm)



Technical Data

Maximum pressure: 250 psig (17 bar)

Operating temperature*: +14° to +175°F (-10° to +80°C)

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

Maximum voltage: 240VAC/DC

Maximum current: 5 Amp

Protection: NEMA 4, IP 65

Contacts: SPDT

Connector: DIN 43650-C

Connector plug: Cable grip for cables 1/4" to 9/32" (6.3 to 7.1 mm) diameter

Switching pressures: Switches when differential pressure rises to between 8 and 12 psid (0.55 and 0.83 bar d). Resets when differential pressure falls below 3 psid (0.21 bar d).

Body material: Nylon 6-GF

Elastomer material: Nitrile

Ordering Information

Model	Differential Pressure Factory Setting
4020-51R	10 psid (0.7 bar d)