

Stainless steel construction for use in corrosive environments

Provides high efficiency oil and particle removal

Large filter element area for high flow and minimum pressure drop

Automatic drain is operated by liquid level and also opens upon depressurization

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

Metallic parts meet NACE Standard MR-01-75*

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


F22

F22H

Technical data

F22 (general purpose)

Fluid:

Compressed air, neutral gases

NOTE: Contact technical support 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 or 25 micron

Flow:

98 scfm (46 dm³/s)

Typical flow with 90 psig inlet pressure and 5 psig pressure drop.

Materials

Body: stainless steel

Bowl: stainless steel

Element: sintered stainless steel

Elastomers: nitrile

F22H (High Flow, coalescing)

Fluid:

Compressed air, Hydrocarbon gas†

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:

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 12 ppm.

Maximum flow with at 90

psig (6.3 bar) inlet pressure to maintain stated oil removal performance:

75.0 scfm (35.4 dm³/s)

Manual drain connection:

No tube connection

Automatic drain connection:

Will fit 1/4-18 male pipe thread

Automatic drain operating conditions (float operated):

Bowl pressure required to close drain:

Greater than 5 psig (0.3 bar)

Bowl pressure required to open drain:

Less than 3 psig (0.2 bar)

Minimum air flow required to close drain:

2 scfm (1 dm³/s)

Manual operation:

unscrew drain outlet to drain bowl

Nominal bowl size:

8 fluid ounce (0.24 liter)

Materials of construction:

Body: 316 Stainless steel

Bowl: 316 Stainless steel

Manual drain: 316 Stainless steel, Nitrile

Automatic drain: 316 Stainless

steel, Nylon, Acetal, Nitrile

Filter element: Stainless steel, synthetic fiber, EPDM, polyester

Elastomers: Nitrile

Bowl sight glass: Pyrex

Bracket: Stainless steel (optional)

Service life indicator (factory option)-

Body: 316 Stainless steel

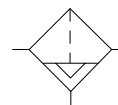
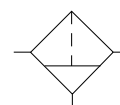
Lens: Transparent nylon

Internal parts: Acetal

Spring: 18-8 Stainless steel

Elastomers: Nitrile





† Confirm compatibility with materials of construction. Use in gas applications must be in a well vented or outdoor area. Products are designed with an allowable leakage and should only be used within the specifications printed on the data sheet or the product label for pressure, temperature, etc. It is the responsibility of the user to apply the product in a safe environment free from potential fire or explosive materials or components. Norgren will not be responsible for any injury or damage caused by the use of the product in an unsafe application.


Automatic Drain

Manual Drain

F22 General purpose filter

Port Size	Filtration	F22 Auto Drain Model No.	F22 Manual Drain Model No.	Indicator assembly
1/2"	5 µm	F22-400-A1DA	F22-400-M1DA	No
1/2"	25 µm	F22-400-A2DA	F22-400-M2DA	No
1/2"	5 µm	F22-402-A1DA	F22-402-M1DA	Yes
1/2"	25 µm	F22-402-A2DA	F22-402-M2DA	Yes

F22 Accessories

Element	Wall mounting bracket	Element	Auto drain service kit*	Manual drain service kit*
				
5 µm	18-001-962	6317-01	F22-100A5	F22-100M5
25 µm	18-001-962	6317-02	F22-100A	F22-100M





Additional F22 Options

F22 - 40★ - ★★D★			
Service life indicator	Substitute	Thread	Substitute
With indicator	2	PTF	A
Without indicator	0	Element	Substitute
		5 µm	1
		25 µm	2
		Drain	Substitute
		Automatic 1/4" (Acetal)	A
		Automatic 1/4" (Stainless steel)	T
		Manual	M

F22H High Flow, coalescing filter

Port Size	Element	F22H Auto Drain Model No.	F22H Manual Drain Model No.	Indicator assembly
1/2"	Coalescing	F22H-4AN-TD0	F22H-4AN-MD0	No
1/2"	Coalescing	F22H-4AD-TD0	F22H-4AD-MD0	Yes

F22H Accessories

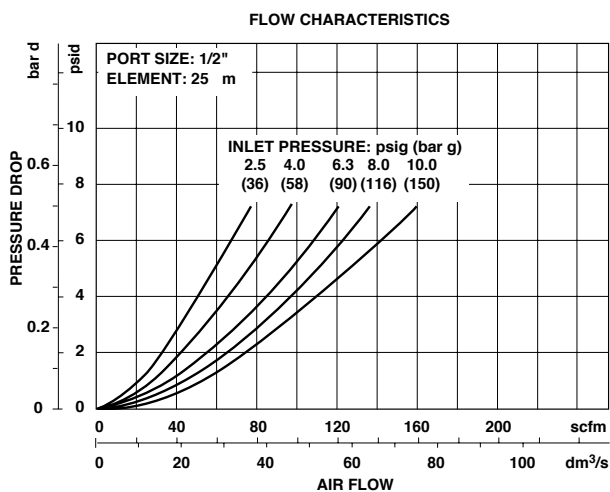
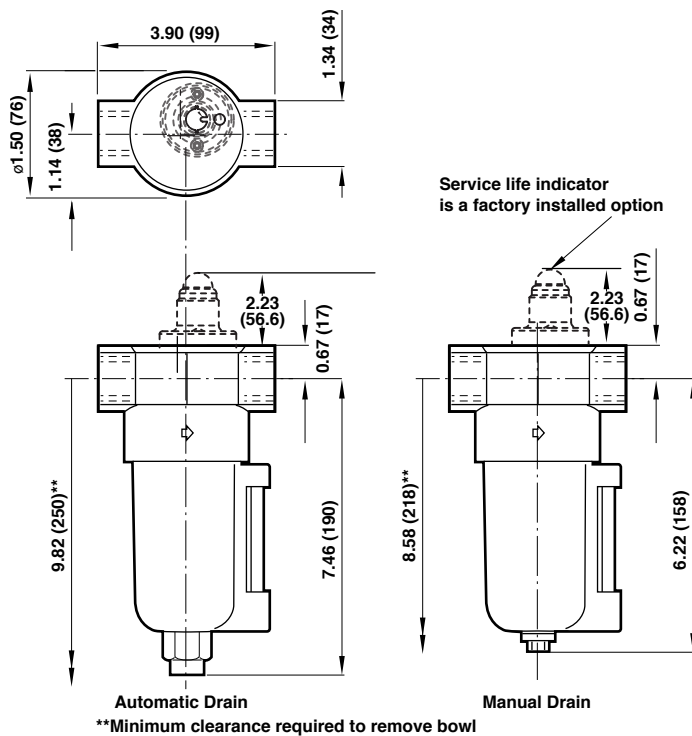
Wall mounting bracket	Element	Auto drain service kit*	Manual drain service kit*
			
18-001-962	5350-26	3000-85	2273-18
18-001-962	5350-26	3000-85	2273-18

Additional F22H Options

F22H - 4A★ - ★D0			
Service life indicator	Substitute	Drain	Substitute
With indicator	D	Manual	A
Without indicator	N	Automatic 1/4" (Stainless steel)	T

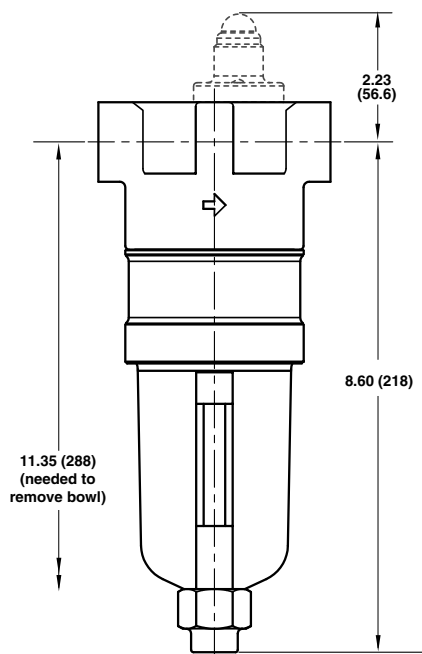
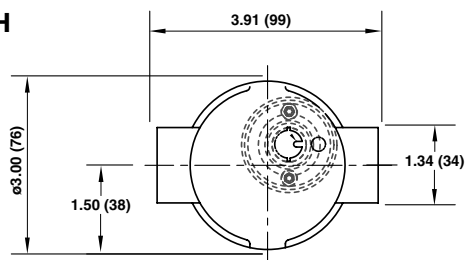
F22

Dimensions in inches (mm)



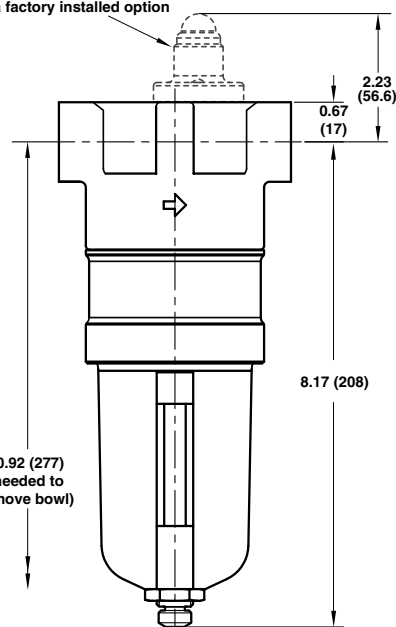
F22H

Dimensions in inches (mm)

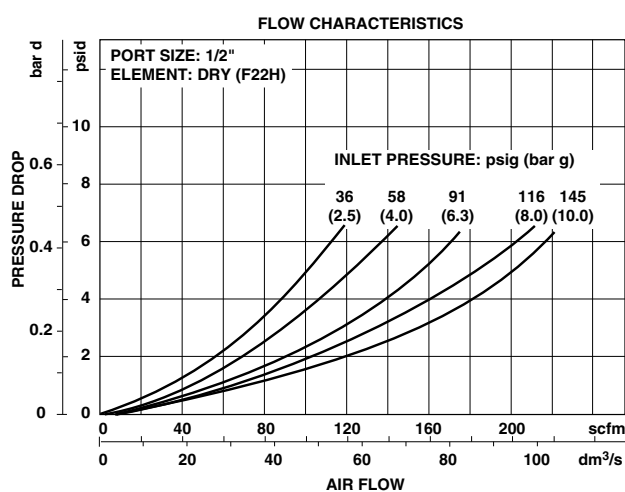
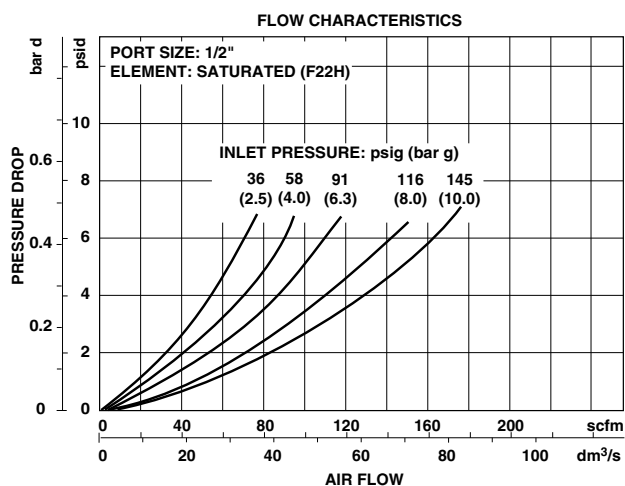


Automatic Drain

Service life indicator
is a factory installed option



Manual Drain



Model IFR (instrument filter regulator)

Filter / regulator combination

High flow capability

Max inlet pressure 20 bar (290 psi)

Maintains set pressure with increasing flow

Fully venting

Reliable and long life, ideal for one time installation



Technical data

Media:

Air

Filter with manual drain:

40 - 50 µm - stainless steel

Relief port:

2 mm drilled hole

Maximum inlet pressure:

20 bar (290 psi)

Outlet pressure range:

0.5 - 10 bar (7 - 145 psi)

Temperature ratings:

Standard =

Media (min/max -30/90 °C
(-22/194 °F))

Ambient (min/max -30/90 °C
(-22/194 °F))

Process connections:

IFR3 - 1/4" NPT

IFR4 - 1/2" NPT

Weight:

IFR3 - 1.8 kg

IFR4 - 2.2 kg

ATEX classification:

Exc - complies with EN13463
for non-electrical equipment

Materials

Valve body - stainless steel - 316L

Top & bottom covers - stainless
steel - 316

Valve trim materials - 316L
stainless steel

O-rings & seals - nitrile (NBR)

Diaphragm - nitrile (NBR)

Seat & adjustment springs -
stainless steel

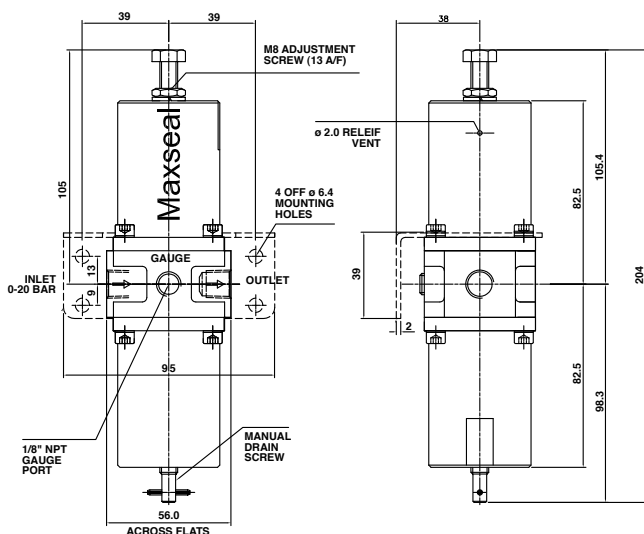
Models

Part number	Outlet pressure psi (bar)	Drain type	Port size NPT	Seat/seal materials	Gauge
YR2ACA1H1BS040	7 to 145 (0.5 to 10)	Manual	1/4	NBR	304/316SS dry, bar & psi
YR2ACA3H1BS040	7 to 145 (0.5 to 10)	Manual	1/2	NBR	304/316SS dry, bar & psi

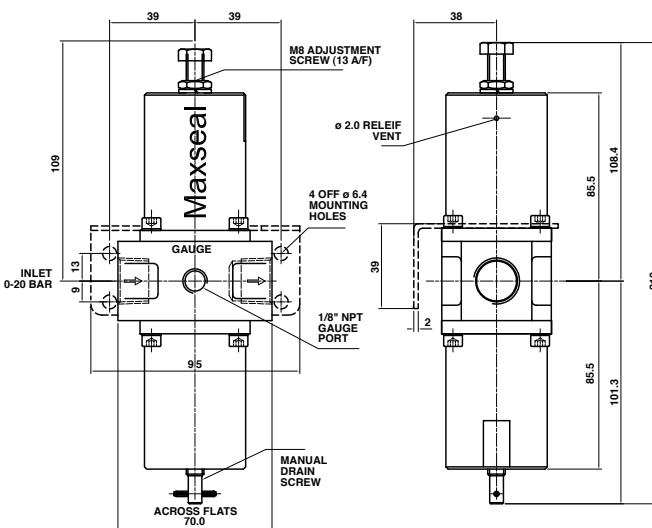
*1) Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

*2) Typical flow with 10 bar inlet pressure, 6.3 bar set pressure and a 1 bar drop from set.

IFR3 - 1/4" Filter/regulator combination



IFR4 - 1/2" Filter/regulator combination



316 Stainless steel construction 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


R22
L22

Technical data

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).

Materials

Body: stainless steel

Bonnet: stainless steel

Adjusting screw: stainless steel

Handwheel: stainless steel, acetal

Elastomers: nitrile

L22 Oil fog lubricator

Fluid:

Compressed air

Maximum pressure:

250 psig (17 bar)

Operating temperature:

-4° to 175°F (-20° to 80°C)*

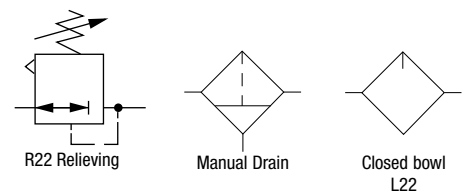
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Materials

Body: stainless steel

Bowl: stainless steel

Elastomers: nitrile







R22 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 (dm ³ /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.

R22 Accessories

Wall mounting bracket	Neck mounting bracket	Gauge 0 to 160 psig	Service Kit*
			
18-001-962	18-001-959	18-013-917	R22-100R
18-001-962	18-001-959	18-013-917	R22-100R

Additional R22 Options

Modification	Substitute				Thread	Substitute
T-handle	1				PTF	A
Plastic handwheel	5				ISO G	G
					Outlet pressure adjustment range	Substitute
					5 to 150 psig (0.3 to 10 bar)	M
					5 to 60 psig (0.3 to 4 bar)	F
					10 to 250 psig (0.7 to 17 bar)	S
					Gauge	Substitute
					Gauge	G
					No gauge	N
					Diaphragm	Substitute
					Relieving	R
					Non relieving	N




L22 Oil fog Lubricators

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

Port Size	Flow** scfm (dm ³ /s)	No Drain Model No.	Manual Drain Model No.	Weight lbs (kg)
Oil-Fog	102 scfm (48 dm ³ /s)	L22-405-OP8A	L22-405-OPDA	4.29 (1.93)

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

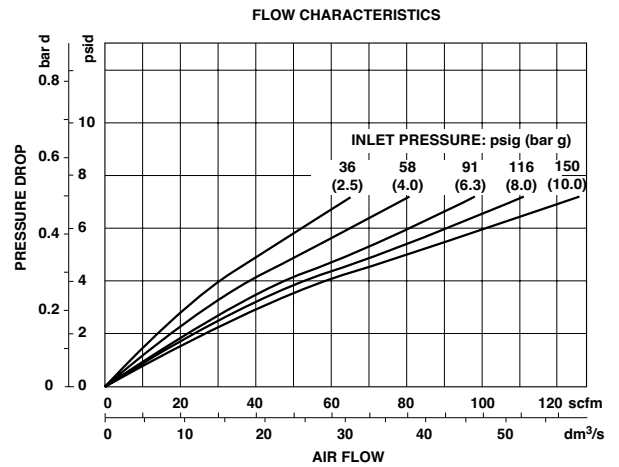
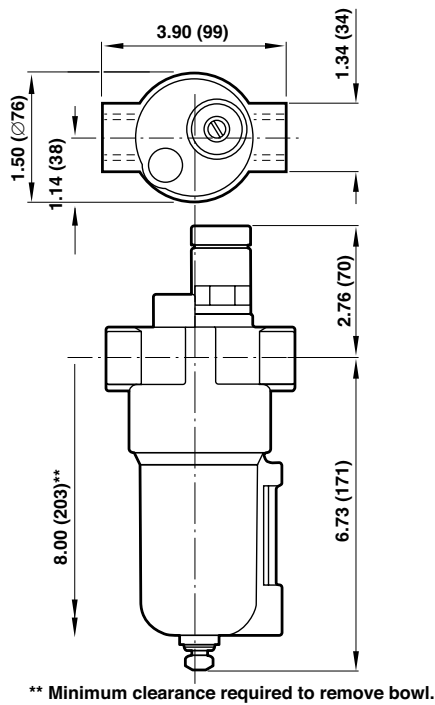
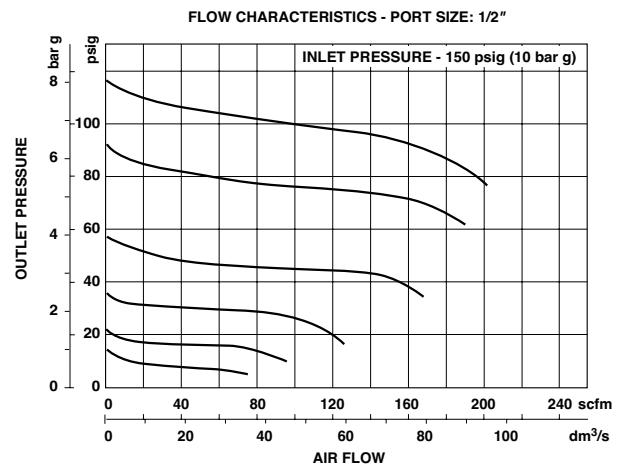
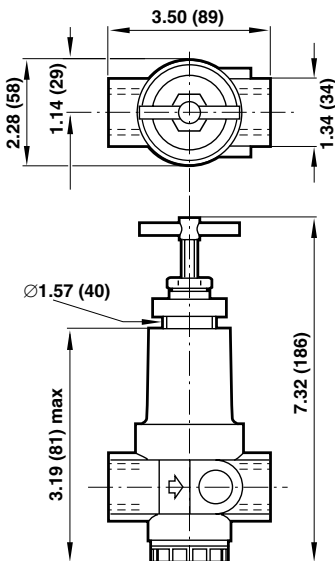
L22 Accessories

Wall mounting bracket	Sight feed dome	Service Kit*
		
18-001-962	6336-50	L22-100

* Kit includes: Seals, check valve, ball and spring, sight dome, filter plug assemblies

Additional L22 Options

Modification	Substitute				Thread	Substitute
Closed bowl	0				PTF	A
Plugged closed bowl	5				Bowl / Drain	Substitute
					Closed bowl	8
					Manual drain	D

L22**R22**

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