

3500 Series air service units – ¾" to 1" Filter Regulators

A 316L stainless steel combined unit for filtration and regulation of compressed air and gases for the actuation industries.

Features and Benefits

- Specifically designed for severe environments
- 40 micron element as standard, 5 micron option available
- Non or self-relieving
- 316L stainless steel construction
- Large flow characteristics
- Bowl capacity window

Media & Ambient Temperature Range

- Standard temperature
-20 to +80 °C (-4 to +176 °F)
- Low temperature version
-50 to +80 °C (-58 to +176 °F)

Note: When product is ordered as /ATEX ambient temperature is limited to +40 °C (104 °F) Ex II 2G c T6.

Maximum Relief Flow

- At 2 bar (29 psi) secondary pressure
0.5 cc/sec (0.03 cu in/sec)

Flow

At 7 bar (102 psi) supply pressure, 6 bar (87 psi) secondary pressure, 1 bar (14.5 psi) pressure drop.

- 7,800 l/min (274 SCFM)

Maximum Inlet Pressure

- Manual drain - 20 bar (290 psi)
- Automatic drain - 17 bar (247 psi)

Ports NPT

(BSP option available - consult factory for part codes)

- ¾", 1"

Gauge Ports

- 1/8" NPT

Relief Vent Port

- 1/8" NPT (fitted with breather)
- Note: Not fitted on low temperature option



Bowl Capacity

- 260 cc (15.87 cu ins)

Accessories Available

- Mounting brackets
- Stainless steel pressure gauge

See page 26-28 for ordering details

Operating Media

- Gases - air, inert gas and sweet (natural) gases

Note: To prevent freezing of the condensate within the product, the media dew point must be at least 10 °C below the lowest ambient temperature the product will be exposed to.

Construction Materials

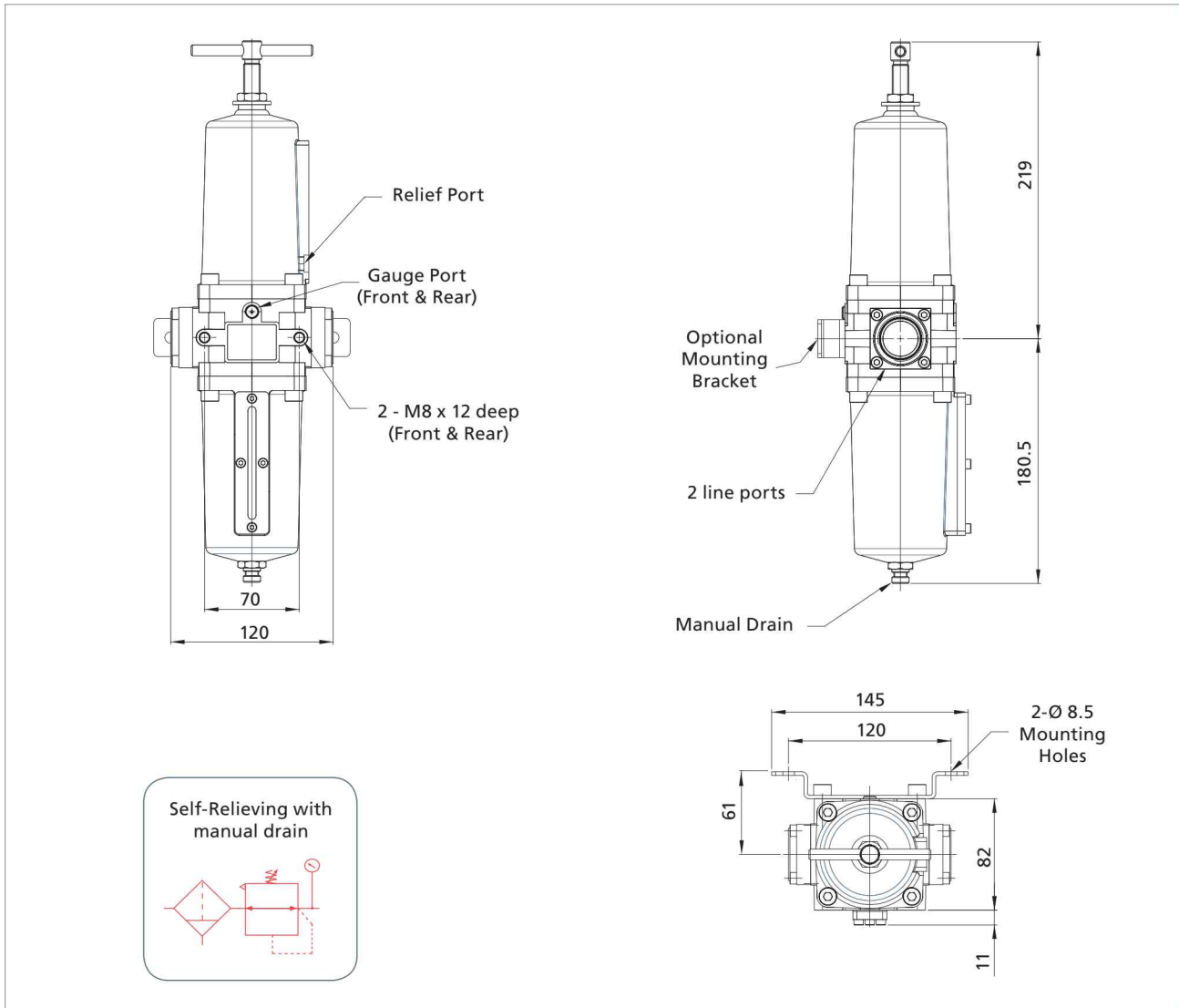
- Body/bonnet/bowl and internals: 316L stainless steel
Note: on auto-drain version float is nylon, polyoxymethylene and rubber.
- Element: 40 micron sintered polypropylene (5 micron option available - suffix product code with '05')
- Seals: Standard option - Fluoroelastomer
Low temperature option - EPDM and Fluorosilicone¹

¹ The use of lubrication upstream of the product is not recommended for low temperature applications.

Certification Options Available

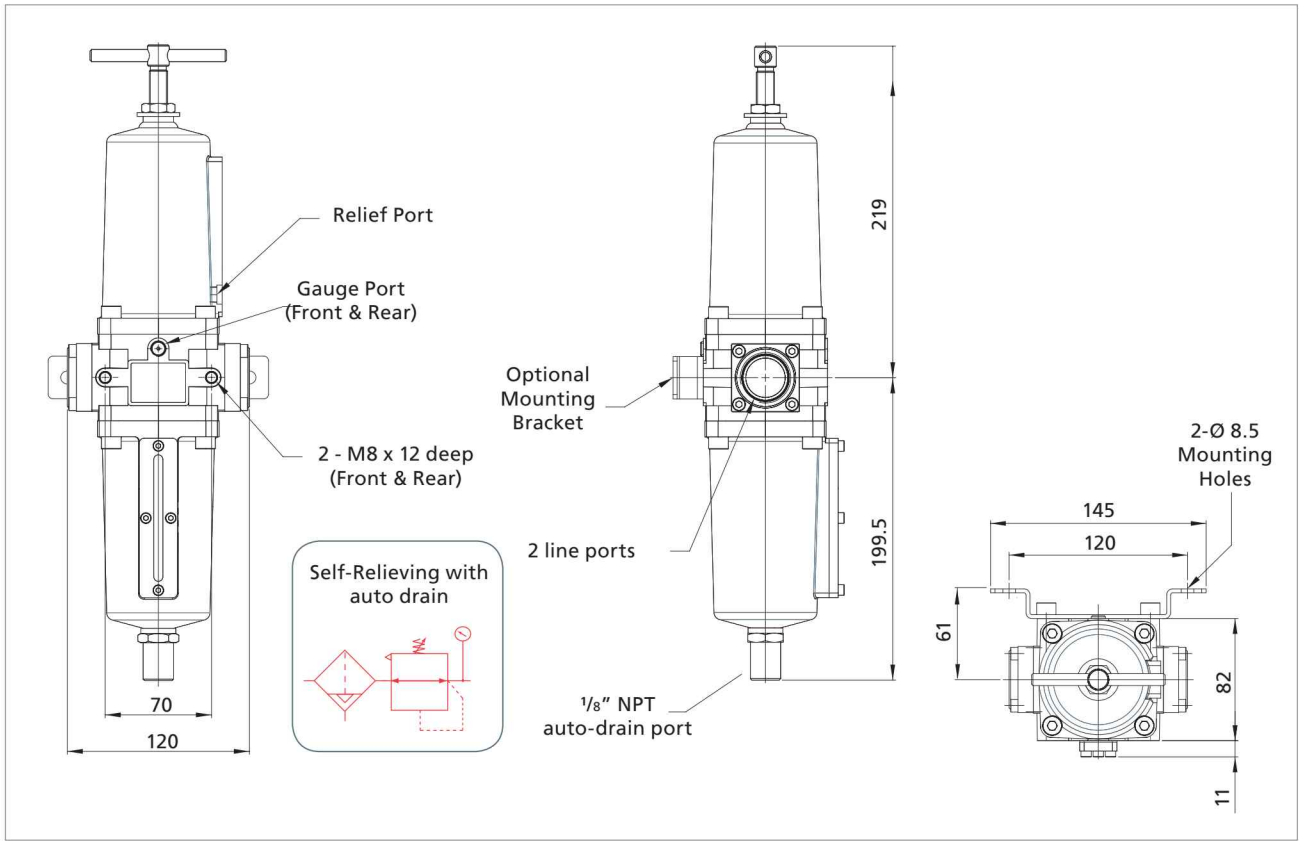


3500 Series air service units – 3/4" to 1" Filter Regulators - Engineering Drawings (manual drain)



Size	Filter	Regulated Pressure bar (psi)	Max Inlet Pressure bar	Weight kg	Cv
3/4"	Manual Drain	0.50 to 2.0 (7.2 to 29)	20	5.75	6.5
1"				5.75	8.8
3/4"	Manual Drain	0.50 to 4.0 (7.2 to 58)	20	5.75	6.5
1"				5.75	8.8
3/4"	Manual Drain	0.50 to 7.0 (7.2 to 102)	20	5.75	6.5
1"				5.75	8.8
3/4"	Manual Drain	0.50 to 10.0 (7.2 to 145)	20	5.75	6.5

3500 Series air service units – 3/4" to 1" Filter Regulators - Engineering Drawings (auto drain)



Size	Filter	Regulated Pressure bar (psi)	Max Inlet Pressure bar	Weight kg	Cv
3/4"	Auto Drain	0.50 to 2.0 (7.2 to 29)	17	5.75	6.5
1"				5.75	8.8
3/4"	Auto Drain	0.50 to 4.0 (7.2 to 58)	17	5.75	6.5
1"				5.75	8.8
3/4"	Auto Drain	0.50 to 7.0 (7.2 to 102)	17	5.75	6.5
1"				5.75	8.8
3/4"	Auto Drain	0.50 to 10.0 (7.2 to 145)	17	5.75	6.5
1"				5.75	8.8

3500 Series Coding Chart - Filter Regulators

Size		Type		Material		Seals °C (°F)		Regulated Pressure bar (psi)		Port Style		Filter Element (40 micron standard)		Approval	
6	3/4"	FRM	Manual Drain	S	Stainless	V	Standard -20 (-4)	02	2 (29)	1	BSP	05	5 micron	/ATEX	Ex II 2G c T6
8	1"	FRA	Auto Drain			L ¹	Low Temp -50 (-58)	04	4 (58)	2	NPT		w/o option		w/o option
		FRN	Manual Drain Non Relieving					07	7 (102)						
		FRB	Auto Drain Non Relieving					10	10 (145)						
●		●		S		●		●		●		●		●	

¹ Low temperature version not available in auto-drain

Additional Options