

3500 Series air service units – 3/4" to 1" Pressure Regulators

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

Features and Benefits

- Specifically designed for severe environments
- Non or self-relieving
- 316L stainless steel construction
- Large flow characteristics

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)

Ports NPT

(BSP option available - consult factory for part codes)

- 3/4", 1"

Gauge Ports

- 1/8" NPT

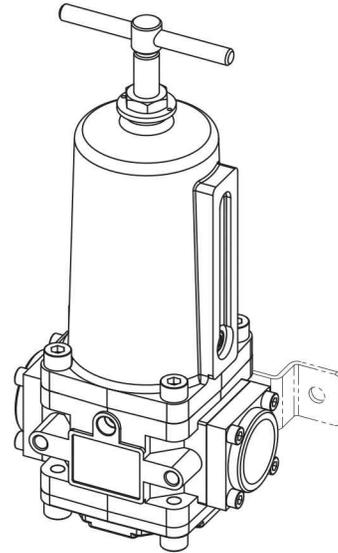
Relief Vent Port

- 1/8" NPT (fitted with breather)

Note: Not fitted on low temperature option

Size	Regulated Pressure bar (psi)	Max Inlet Pressure bar	Weight kg	Cv
3/4"	0.50 to 2.0 (7.2 to 29)	20	5.0	6.5
1"			5.0	8.8
3/4"	0.50 to 4.0 (7.2 to 58)	20	5.0	6.5
1"			5.0	8.8
3/4"	0.50 to 7.0 (7.2 to 102)	20	5.0	6.5
1"			5.0	8.8
3/4"	0.50 to 10.0 (7.2 to 145)	20	5.0	6.5
1"			5.0	8.8

Certification Options Available



Operating Media

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

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

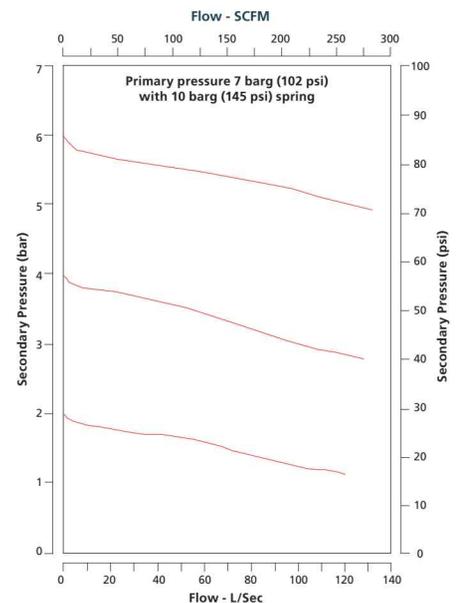
- Body/bonnet/bowl and internals: 316L stainless steel
- Seals: Standard option - Fluoroelastomer
Low temperature option - EPDM and Fluorosilicone¹

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

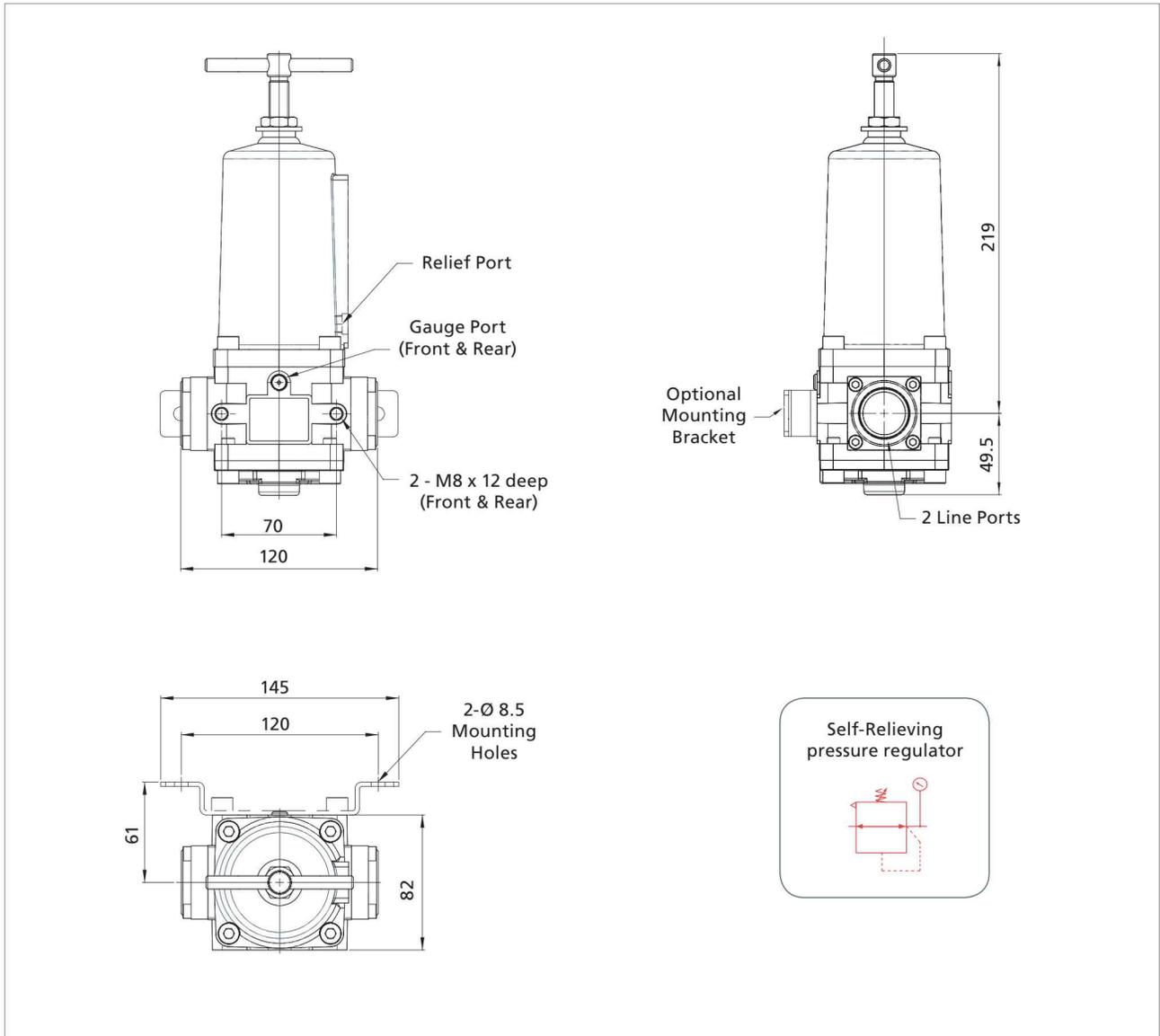
Accessories Available

- Mounting brackets
- Stainless steel pressure gauge

See page 26-28 for ordering details



3500 Series air service units – 3/4" to 1" Pressure Regulators - Engineering Drawings



3500 Series Coding Chart - Pressure Regulators

Additional Option

Size		Type		Material		Seals °C (°F)		Regulated Pressure bar (psi)		Port Style		Approval	
6	3/4"	PRV	Self Relieving	S	Stainless	V	Standard -20 (-4)	02	2 (29)	1	BSP	/ATEX	Ex II 2G c T6
8	1"	PRN	Non Relieving			L	Low Temp -50 (-58)	04	4 (58)	2	NPT		w/o option
								07	7 (102)				
								10	10 (145)				
				S									