

Air service units series 1700 Steel line



General

The stainless steel SS1700 air treatment series has been engineered and developed to approach specifically the OIL & GAS industry and more widely for all the severe service applications that require excellent corrosion resistance due to chemical and/or harsh environmental condition. **All external and internal parts (except for the automatic drain version) are AISI 316L stainless steel material in compliance with NACE standard MR0175/ISO 15156/1**. The product range includes FILTER, with filtration elements up to 3 filtration degree (5μ m-20 μ m-50 μ m), available in AISI316 stainless steel or HDPE (high density polyethylene), and manual or automatic condensed exhaust; The PRESSURE REGULATOR is supplied with low hysteresis rolling diaphragm and an over-pressure exhaust valve (RELIEVING), available in 4 different adjustment ranges from 0 to 12 bar. As a last the FILTER REGULATOR range, which combines the features of a filter and pressure regulator into a one single device. "CLEAN PROFILE" version is available for all the sizes, featuring a glossy finish on the external surface. The over-pressure exhaust hole (RELIEVING) has a 1/8" NPT threading, and it is protected by an AISI 316 sintered filter series. Note: for CLEAN PROFILE series this is a simple unthread hole.

Construction and operational characteristics

construction and operational character	131103		
ody, bowl and adjustment mechanism AISI 316L stainless steel			
Caseback regulator	AISI 316L stainless steel	AISI 316L stainless steel	
Adjustment screw, locking nut and fastening sc	rews AISI 316L stainless steel (stainle	AISI 316L stainless steel (stainless steel A4-70)	
Internal components	AISI 316L stainless steel	AISI 316L stainless steel	
Filtering elements	AISI 316 stainless steel or HDPE	E (High density polyethylene)	
Spring	AISI 316 stainless steel	AISI 316 stainless steel	
Seals			
NBR (standard versions and automatic drain)	NBR for low temperatures (L versions)	Silicone - PU (Z version)	
FPM - HNBR (H versions)	EPDM-FDA (EF versions)		
Automatic drain	Brass, stainless steel AISI 304 a	Brass, stainless steel AISI 304 and AISI 302, sintered bronze	
	Acetal resin , NBR, FPM		
Operating Range			
Fluid	Filtered air. No lubrication need	Itered air. No lubrication needed, if applied it shall be continuous.	
	Inert gases.		
	Natural gases		
Temperature			
-30°C +80°C (standard version)	-5°C +150°C (high temperature H version)	-40°C +100°C (EPDM-FDA version)	
-50°C +80°C (low temperature L version)	-5°C +70°C (automatic drain S version)		
-60°C +80°C (low temperature version -60 °C Z)	-5°C +70°C (reduced orifice automatic drain SR version)	
Maximum working pressure			
20 bar (standard, low and high temperature versions)	16 bar (automatic drain version)	10 bar (reduced orifice automatic drain version)	

Instructions for installation and use

Product shall be installed reducing the distance from inlet point. Check and install the device following the flow direction (clearly marked with an arrow stamped on the body). Vertical position installation with condensed exhaust tap pointing downward is recommended.

Devices must be used in compliance with pressure and temperature operating range. To set the pressure there is an adjustable knob, located on the top of the device. Pneumax recommend selection of pressure regulator adjusting range option in line with client required performance The condensed exhaust action for the manual drain version shall be performed only in the absence of pressure. To discharge liquid, turn the tap clockwise until the discharge of liquid is triggered, then tighten it all the way.

Maintenance



Filtration elements and filter regulator are reusable through blowing and/or washing and is made of stainless steel or HDPE (high density polyethylene). To replace, remove the cup, loosen the set screw of the support and replace the filter element with a new one or refurbished one. Replace the regulator diaphragm whenever the performance is compromised or if there is a continuous discharge from the relieving hole (over-pressure exhaust). Fully discharge the adjustment spring before removing the adjustment mechanism. For other maintenance activities, due to complexity of assembly and requirement for dedicated **PNEUMAX** testing activities, it is strongly recommended to contact the manufacturer.

Suitable up to SIL 3

Certifications available

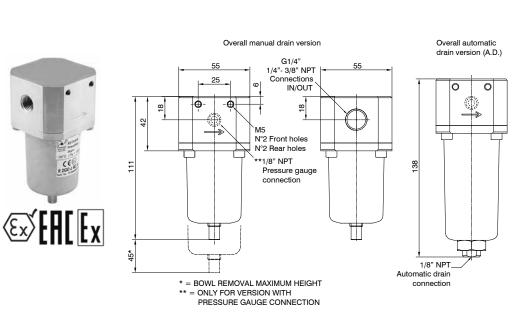


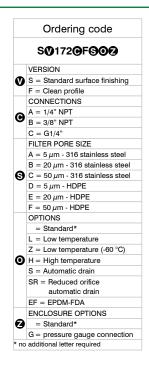
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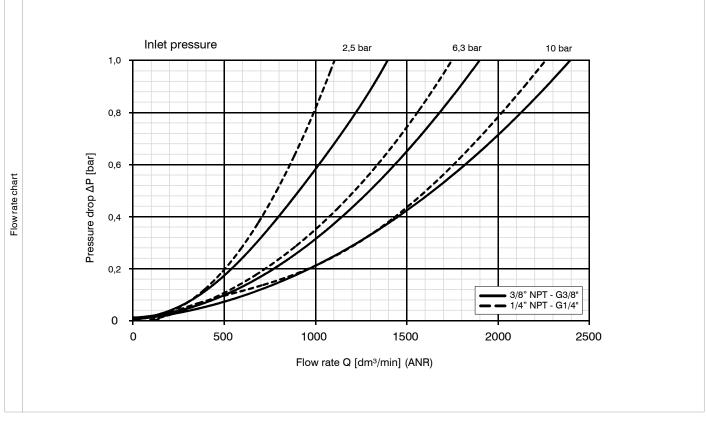
Filters





Construction characteristics	Technical characte
- Body, bowl and internal components in AISI 316L stainless steel. - A4 (AISI 316) stainless steel fixing screws. - Manual or automatic condensed drain.	Maximum inlet pressure (standard version)
	Maximum inlet pressure (automatic drain version)
	Maximum inlet pressure (reduced orifice automatic drain version)
	Temperature (standard version)
	Temperature (low temperature version)
	Temperature (low temperature version -60 °C)
	Temperature (high temperature version)
	Temperature (automatic and reduced orifice drain version)
	Temperature (EPDM-FDA version)
	Weight
	Bowl capacity
	Assembly positions

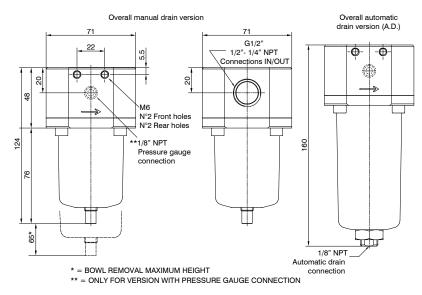
Technical characteristics		
Maximum inlet pressure (standard version)	20 bar	
Maximum inlet pressure (automatic drain version)	16 bar	
Maximum inlet pressure (reduced orifice automatic drain version)	10 bar	
Temperature (standard version)	-30°C +80°C	
Temperature (low temperature version)	-50°C +80°C	
Temperature (low temperature version -60 °C)	-60°C +80°C	
Temperature (high temperature version)	-5°C +150°C	
Temperature (automatic and reduced orifice drain version)	-5°C +70°C	
Temperature (EPDM-FDA version)	-40°C +100°C	
Weight	1070 (gr.)	
Bowl capacity	15 cm ³	
Assembly positions	Vertical	
	Venuce	

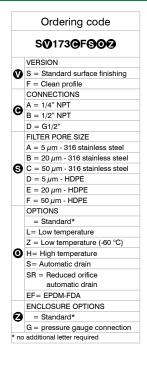




Filters



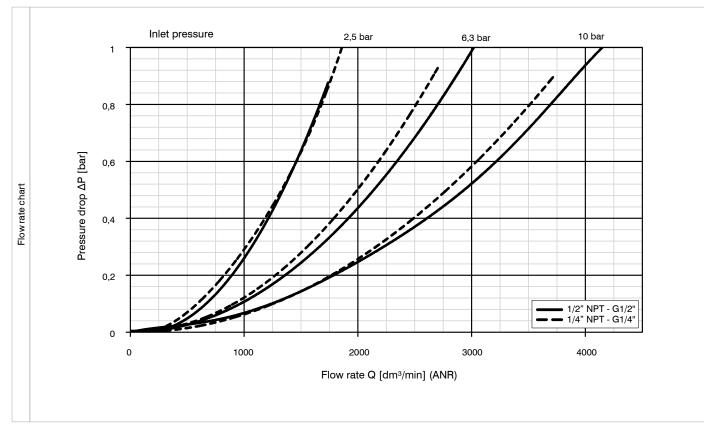




Construction characteristics

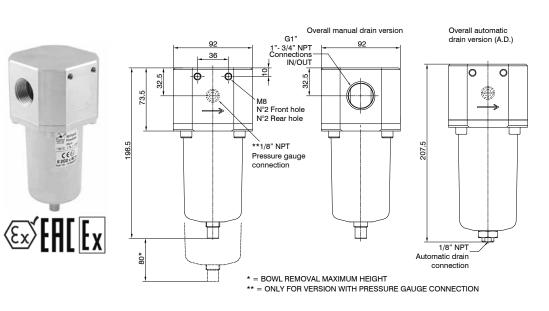
Body, bowl and internal components in AISI 316L stainless steel
A4 (AISI 316) stainless steel fixing screws.
Manual or automatic condensed drain.

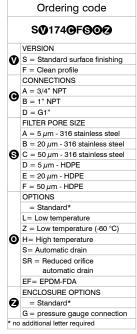
Technical characteristics	
Maximum inlet pressure (standard version)	20 bar
Maximum inlet pressure (automatic drain version)	16 bar
Maximum inlet pressure (reduced orifice automatic drain version)	10 bar
Temperature (standard version)	-30°C +80°C
Temperature (low temperature version)	-50°C +80°C
Temperature (low temperature version -60 °C)	-60°C +80°C
Temperature (high temperature version)	-5°C +150°C
Temperature (automatic and reduced orifice drain version)	-5°C +70°C
Temperature (EPDM-FDA version)	-40°C +100°C
Weight	1650 (gr.)
Bowl capacity	25 cm ³
Assembly positions	Vertical





Filters





Construction characteristics	Technical characteristics	
 Body, bowl and internal components in AISI 316L stainless steel. A4 (AISI 316) stainless steel fixing screws. Manual or automatic condensed drain. 	Maximum inlet pressure (standard version)	20 bar
	Maximum inlet pressure (automatic drain version)	16 bar
	Maximum inlet pressure (reduced orifice automatic drain version)	10 bar
	Temperature (standard version)	-30°C +80°C
	Temperature (low temperature version)	-50°C +80°C
	Temperature (low temperature version -60 °C)	-60°C +80°C
	Temperature (high temperature version)	-5°C +150°C
	Temperature (automatic and reduced orifice drain version)	-5°C +70°C
	Temperature (EPDM-FDA version)	-40°C +100°C
	Weight 3/4" NPT - G 3/4"	4700 (gr.)
	Weight 1" NPT - G 1"	4600 (gr.)
	Bowl capacity	78 cm ³
	Assembly positions	Vertical

