

ASCO™ Stainless Steel Filter & Regulator

316 Stainless Steel Body | 1/4" - 1" NPT

SERIES
342

Features

- Heavy duty 316L stainless steel construction, internal and external, for use in corrosive environments
- Suitable for use in potentially explosive atmospheres per ATEX directive 2014/34/EU
- SIL 2 Certified per IEC 61508
- Compliant with NACE MR 0175 requirements
- High flow design and better control on regulation
- Built-in overpressure relieving function
- Manual and auto-drain constructions available
- Laser etched nameplate

General

Media	Compressed Air, Sour Gas
Inlet/Outlet Port	1/4" NPT - 1" NPT
Gauge Port	1/4" NPT (high flow), 1/8" NPT (1/4" compact)
Pressure Relief Port	1/8" NPT, M5
Pressure Range (inlet)	0 - 290 psi (manual drain), 36 - 159 psi (auto drain)
Pressure Range (outlet)	7 - 145 psi
Adjustable Pressure	7 - 145 psi
Hysteresis	< 4.64 psi (compact); < 2.9 psi (HF 1/4", 1/2"); < 3.63 psi (HF 3/4", 1")

Construction

	Standard	Nace
Body	316L Stainless Steel	
Bowl	316L Stainless Steel	
Filtering Element	316 Stainless Steel	
Diaphragm and Seal	LT FKM (1/4" compact), HNBR (HF 1/4", 1/2"), FKM (HF 3/4", 1")	
Springs	17-7 PH Stainless Steel	Inconel®

Spare Parts Kits

25 Microns - 1/4" compact	C325921*
5 Microns - 1/4" compact	C325922*
25 Microns - 1/4" & 1/2" high flow	C325305*
5 Microns - 1/4" & 1/2" high flow	C325307*
40 Microns - 3/4" & 1" high flow	C326176*
25 Microns - 3/4" & 1" high flow	C326177*
5 Microns - 3/4" & 1" high flow	C326178*
Stainless Steel Gauge	C325937 (compact), C325316 (HF 1/4"-1")
Mounting Bracket	C117877 (compact), C117813 (HF 1/4"-1")

*Spare parts kits include: o-rings, seal, diaphragm assembly, and filter element.



Options

- Auto drain with 1/8" NPT connection (Suffix AN)
- Low Ambient Temperature:
 - 1/4" compact: - 58°F (- 50°C) (Suffix LT)
 - 1/4" & 1/2" high flow: - 76°F (- 60°C) (Suffix LT)
- Stainless Steel Gauge: 0 - 160 PSI (0 - 11 Bar) (Suffix G)
- Stainless Steel Gauge for 58°F (-50°C) service (Suffix LTG)
- Mounting Bracket (Suffix MB)
- Quick Relief (Suffix K; 1/4" & 1/2" high flow versions only)

Nominal Ambient Temperature Ranges

- Standard: -40°F to 194°F (-40°C to 90°C)
- Autodrain: 32°F to 140°F (0°C to 60°C)
- Optional (Suffix LT):
 - 1/4" compact: -58°F to 194°F (-50°C to 90°C)
 - 1/4" & 1/2" high flow: -76°F to 194°F (-60°C to 90°C)

Ordering

Standard Ambient Version: 342A8401GMB
Low Temperature Version: 342A8401LTGMB
Auto Drain: 342A8401ANGMB
GMB = with gauge and mounting bracket

Approvals

- ATEX II 2G/D IIC X T100°C (T5) with 194°F (90°C) ambient
- ATEX II 2GD IIC T85°C (T6) with 167°F (75°C) ambient
ZONE 1-21; Explosion group IIC
- SIL 2 certified per IEC 61508

Specifications English (Metric Units)

Pipe Size (in)	Bowl Capacity oz (cm ³)	Filter Capacity (µm)	Max. Flow @ 90 psi & 14 psi Drop (SCFM) (@ 6 bar & 1 bar Drop (l/m))	Adjustable Pressure psi (bar)	Min. Ambient Temperature °F (°C)	Max. Ambient Temperature °F (°C)	Manual Drain	
							Standard	NACE
25 Micron - Self-Relieving								
1/4 Compact	0.8 (25)	25	49 (1400)	7-145 (0.5-10)	-40 (-40)	194 (90)	342A8409	-
1/4 High Flow	2.5 (75)	25	90 (2540)	7-145 (0.5-10)	-40 (-40)	194 (90)	342A8401	342A8421
1/2 High Flow	2.5 (75)	25	156 (4430)	7-145 (0.5-10)	-40 (-40)	194 (90)	342A8403	342A8423
3/4 High Flow	5.4 (160)	25	264 (7500)	7-145 (0.5-10)	-40 (-40)	194 (90)	342A840D	342A842D
1 High Flow	5.4 (160)	25	273 (7750)	7-145 (0.5-10)	-40 (-40)	194 (90)	342A840F	342A842F
5 Micron - Self-Relieving								
1/4 Compact	0.8 (25)	5	45 (1280)	7-145 (0.5-10)	-40 (-40)	194 (90)	342A840B	-
1/4 High Flow	2.5 (75)	5	84 (2380)	7-145 (0.5-10)	-40 (-40)	194 (90)	342A8405	342A8425
1/2 High Flow	2.5 (75)	5	138 (3920)	7-145 (0.5-10)	-40 (-40)	194 (90)	342A8407	342A8427
3/4 High Flow	5.4 (160)	5	160 (4550)	7-145 (0.5-10)	-40 (-40)	194 (90)	342A840M	342A842M
1 High Flow	5.4 (160)	5	176 (5000)	7-145 (0.5-10)	-40 (-40)	194 (90)	342A840P	342A842P
25 Micron - Non-Relieving								
1/4 Compact	0.8 (25)	25	49 (1400)	7-145 (0.5-10)	-40 (-40)	194 (90)	342A8009	-
1/4 High Flow	2.5 (75)	25	90 (2540)	7-145 (0.5-10)	-40 (-40)	194 (90)	342A8001	342A8021
1/2 High Flow	2.5 (75)	25	156 (4430)	7-145 (0.5-10)	-40 (-40)	194 (90)	342A8003	342A8023
3/4 High Flow	5.4 (160)	25	264 (7500)	7-145 (0.5-10)	-40 (-40)	194 (90)	342A800D	342A802D
1 High Flow	5.4 (160)	25	273 (7750)	7-145 (0.5-10)	-40 (-40)	194 (90)	342A800F	342A802F
5 Micron - Non-Relieving								
1/4 Compact	0.8 (25)	5	45 (1280)	7-145 (0.5-10)	-40 (-40)	194 (90)	342A800B	-
1/4 High Flow	2.5 (75)	5	84 (2380)	7-145 (0.5-10)	-40 (-40)	194 (90)	342A8005	342A8025
1/2 High Flow	2.5 (75)	5	138 (3920)	7-145 (0.5-10)	-40 (-40)	194 (90)	342A8007	342A8027
3/4 High Flow	5.4 (160)	5	160 (4550)	7-145 (0.5-10)	-40 (-40)	194 (90)	342A800M	342A802M
1 High Flow	5.4 (160)	5	176 (5000)	7-145 (0.5-10)	-40 (-40)	194 (90)	342A800P	342A802P
40 Micron - Self-relieving								
3/4 High Flow	5.4 (160)	40	300 (8500)	7-145 (0.5-10)	-40 (-40)	194 (90)	342A840H	342A842H
1 High Flow	5.4 (160)	40	335 (9500)	7-145 (0.5-10)	-40 (-40)	194 (90)	342A840K	342A842K
40 Micron - Non-relieving								
3/4 High Flow	5.4 (160)	40	300 (8500)	7-145 (0.5-10)	-40 (-40)	194 (90)	342A800H	342A802H
1 High Flow	5.4 (160)	40	335 (9500)	7-145 (0.5-10)	-40 (-40)	194 (90)	342A800K	342A802K

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342

Flow Charts



