Olympian
Puraire High Efficiency Coalescing Filter
1/2″, 3/4″, 1″ Port Sizes

- **Olympian plug-in design**
- **Coalescing element removes sub-micron particles and converts oil and water mist to liquid form to drain away**
- **Automatic drain is operated by liquid level and also opens on depressurisation**
- **Oil and dirt contamination in outlet air within ISO 8573.1 Quality Class 1.7.2**

Technical Data

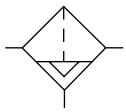
Fluid: Compressed air
Maximum pressure:
Metal bowl: 17 bar (250 psig)
Operating temperature*:
Metal bowl: -20° to +65°C (0° to +150°F)
* Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).
Partical removal: 0,01 µm
Maximum remaining oil content: 0,01 ppm at +21°C (+70°F) with an inlet concentration of 17 ppm.
Maximum flow at 6,3 bar (90 psig) inlet pressure†:
G1/2, CDS15 element: 35 dm^3/s (74 scfm)
G3/4, CDS25 element: 35 dm^3/s (74 scfm)
G1, CDS25 element: 60 dm^3/s (127 scfm)
† To maintain stated oil removal performance
Automatic drain connection: 1/8″
Automatic drain operating conditions:
Minimum pressure: 0,7 bar (10 psig).
Drain opens when bowl pressure drops below 0,2 bar (3 psig).
Minimum air flow: 1 dm^3/s (2 scfm) required to close drain.
Nominal bowl sizes:
1 litre (1 quart US)
0,5 litre (1 pint US)
Materials:
Body: Aluminium
Yoke:Aluminium
Metal bowl: Aluminium
Element and activated carbon pack: Composite materials
Elastomers: Synthetic rubber

Ordering Information

See *Ordering Information* on the following pages.

It is recommended that an appropriate pre-filter be fitted upstream of these units to remove coarse contaminants.

ISO Symbol



Automatic Drain

Typical Performance Characteristics

Inlet Pressure		Maximum Flow*					
		G1/2 CDS15		G3/4 CDS25		G1 CDS25	
bar	(psig)	dm^3/s	(scfm)	dm^3/s	(scfm)	dm^3/s	(scfm)
1	(15)	14	(30)	14	(30)	24	(51)
3	(45)	24	(51)	24	(51)	41	(87)
5	(70)	31	(66)	31	(66)	53	(112)
6,3	(90)	35	(74)	35	(74)	60	(127)
7	(100)	36,7	(78)	36,7	(78)	63	(133)
9	(130)	42	(89)	42	(89)	72	(153)

* Maximum flow to maintain stated oil removal performance.

Ordering Information. Models listed include ISO G threads, automatic drain.

Port Size	Model	Weight kg (lb)
G1/2	F53-415-A0GD	2,38 (5.29)
G3/4	F53-625-A0MD	2,72 (6.04)
G1	F53-825-A0MD	2,66 (5.91)

For replacement Filter (without yoke) substitute **'0'** at 4th and **'O'** at 10th digits eg: F53-**0**25-A0G**O**.

Alternative Models

F 5 3 - ★ ★ ★ - ★ ★ ★ ★

Port Size	Substitute
1/2"	4*
3/4"	6
1"	8

Option	Substitute
CDS15, short bowl	1 5*
CDS25, long bowl	2 5

Drain	Substitute
Automatic	A
Manual	M

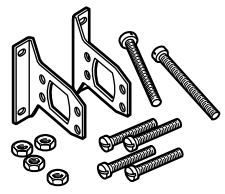
Thread	Substitute
PTF	A
ISO Rc taper	B
ISO G parallel	D

Option	Substitute
Short bowl, without sight glass	G*
Long bowl, without sight glass	M

Element	Substitute
Oil removal	0

* 1/2 only available with CS15 element and short bowl.

Accessories

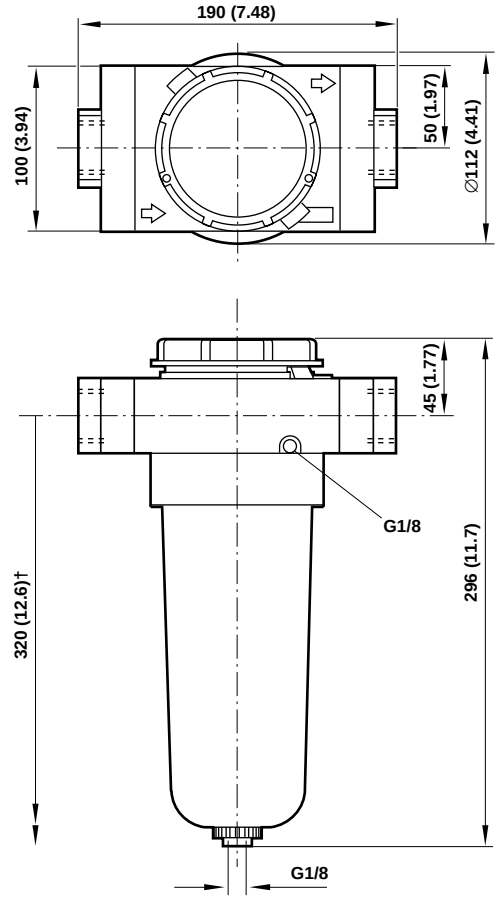


Wall Mounting Bracket

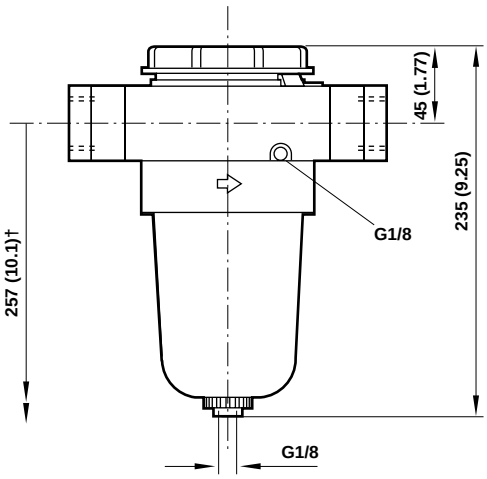
G3/4	18-001-979
G1	18-001-979
G1 1/4	18-001-978
G1 1/2	N/A

Dimensions mm (inches)

CDS25 (long bowl)



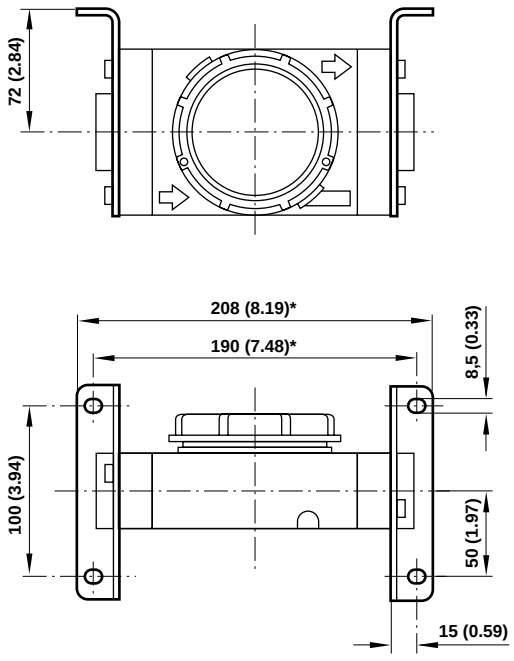
CDS15 (short bowl)



† Minimum clearance required to remove bowl.

Bracket Mounting

Use 4 mm (5/32″) screws to mount bracket to wall.



Bracket Kit Reference

Item	Type	Part Number
Wall Bracket	1/2″ model	18-001-979
	3/4″ model	18-001-979
	1″ model	18-001-979

Service Kits

Item	Type	Part Number
Service kit	CDS15 standard bowl	F53-100
	CDS25 long bowl	F53-120
Gasket kit		F53-GK
Replacement drain	Automatic	3000-04

Service kit includes; element kit and necessary seals and ‘o’ rings.

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under **‘Technical Data’**.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

Water vapor will pass through these units and will condense into liquid if air temperature drops in the downstream system. Install an air dryer if water condensation could have a detrimental effect on the application.