ZFC Series In-line Air Filter



Product Feature

- One unit offers both positive and negative pressure
- Metric and inch sizes
- One-touch fittings

Ordering Code ZFC Series In-line Air Filter

ZFC 5 4 - B

Body size

Symbol	Body size	Filtration area
1	5 L/min	140 mm²
3	10 L/min	470 mm²
5	20 L/min	750 mm²
7	100 L/min	1260 mm²

Applicable tubing O.D.

Metric size

Symbol	Applicable tubing O.D.	ZFC1	ZFC3	ZFC5	ZFC7
1	Φ2	●	—	—	—
2	Φ3.2	●	●	—	—
3	Φ4	—	●	●	—
4	Φ6	—	—	●	●
5	Φ8	—	—	—	●
6	Φ10	—	—	—	●
7	Φ12	—	—	—	●

Inch size

A	Φ1/8"	●	●	—	—
B	Φ5/32"	—	●	●	—
D	Φ1/4"	—	—	●	●
E	Φ5/16"	—	—	—	●
F	Φ3/8"	—	—	—	●

Option

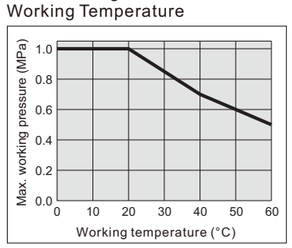
Nil: None
B: With bracket

Specifications

Model		ZFC1□		ZFC3□		ZFC5□		ZFC7□			
Port size (Applicable tubing O.D.)	Metric size	Φ2	Φ3.2	Φ3.2	Φ4	Φ4	Φ6	Φ6	Φ8	Φ10	Φ12
	Inch size	—	Φ1/8"	Φ1/8"	Φ5/32"	Φ5/32"	Φ1/4"	Φ1/4"	Φ5/16"	Φ3/8"	—
Working medium		Air, Nitrogen									
Working pressure		-100 kPa to 1.0 MPa (at 20°C)									
Flow rate (Positive pressure) [L/min]*		15	45	50	80	100	200	250	450	550	650
Flow rate (Vacuum pressure) [L/min]		2	5	7	10	10	20	30	70	80	100
Proof pressure [MPa]		1.5 (at 20°C)									
Working temperature [°C]		0 to 60									
Filtration [μm]		5 (Filtration efficiency 95%)									
Element replacement differential pressure [MPa]		0.1 (Vacuum pressure 20 kPa)									
Filtration area [mm²]		140		470		750		1260			
Applicable tubing material		Nylon, Soft nylon, Polyurethane									
Internal capacity [cm³]		0.5		1.7		4.5		6.0		7.0	
Case material		Polycarbonate									

* Flow rate (positive pressure) conditions: Supply pressure of 0.7 MPa, Pressure drop of 30 kPa

Max. Working Pressure and Working Temperature

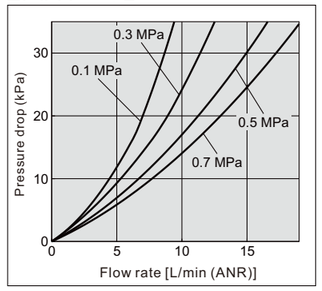


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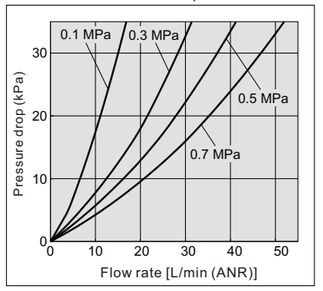
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Flow Rate Characteristics

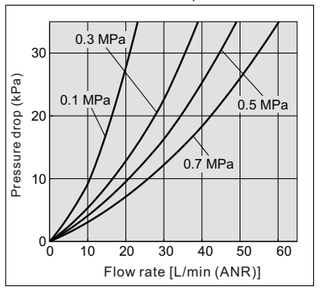
ZFC11 Φ2



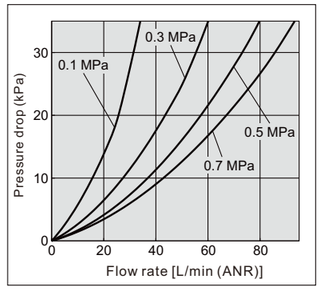
ZFC12/1A Φ3.2, Φ1/8"



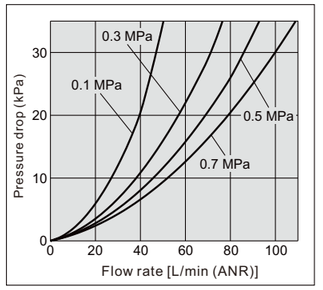
ZFC32/3A Φ3.2, Φ1/8"



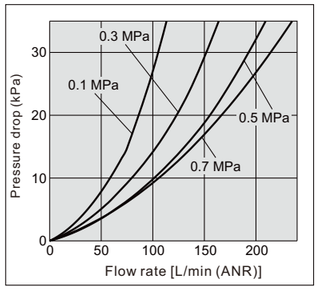
ZFC33/3B Φ4, Φ5/32"



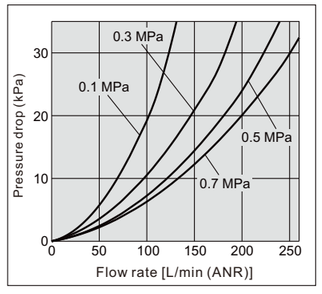
ZFC53/5B Φ4, Φ5/32"



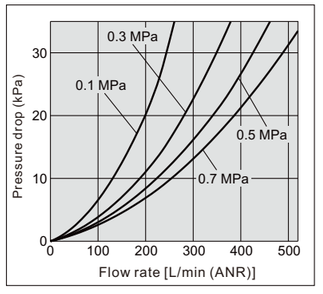
ZFC54/5D Φ6, Φ1/4"



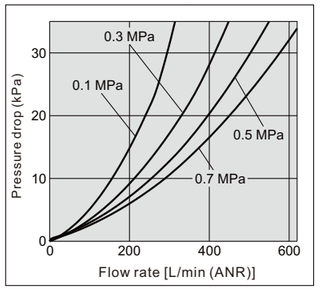
ZFC74/7D Φ6, Φ1/4"



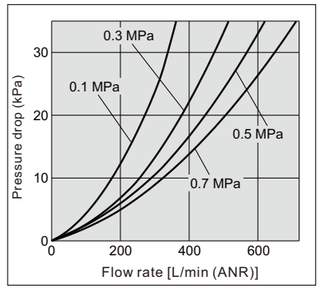
ZFC75/7E Φ8, Φ5/16"



ZFC76/7F Φ10, Φ3/8"



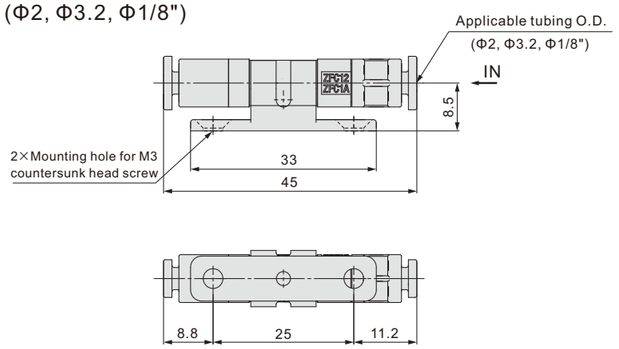
ZFC77 Φ12

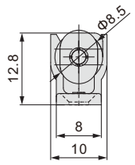


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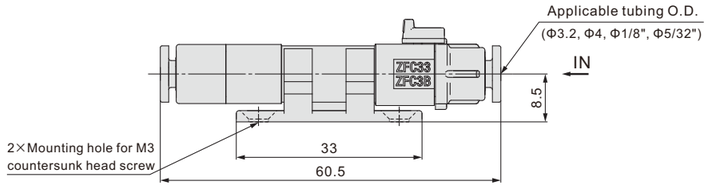
Main Dimensions

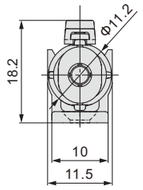
ZFC1
(Φ2, Φ3.2, Φ1/8")

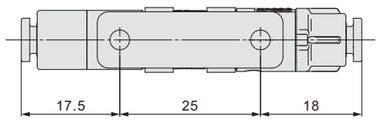




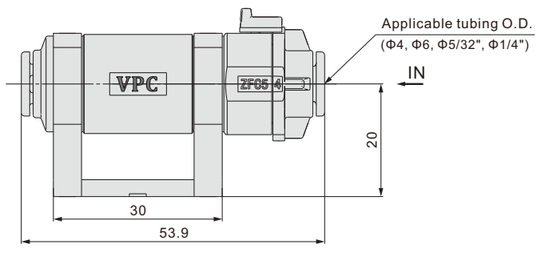
ZFC3
(Φ3.2, Φ4, Φ1/8", Φ5/32")

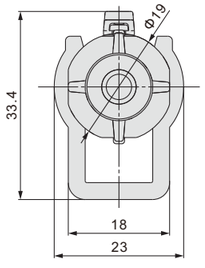


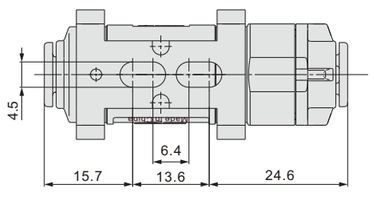




ZFC5
(Φ4, Φ6, Φ5/32", Φ1/4")



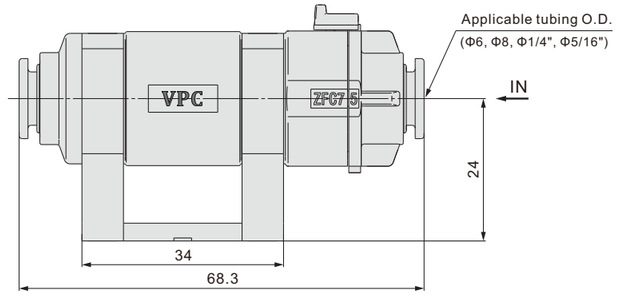


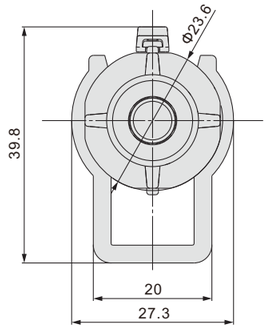


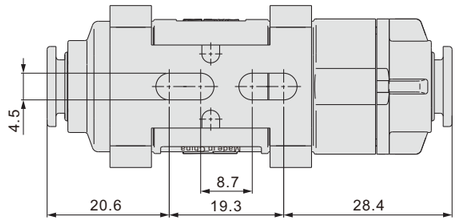
ZFC Series In-line Air Filter

Main Dimensions

ZFC7
(Φ6, Φ8, Φ1/4", Φ5/16")







ZFC7
(Φ10, Φ12, Φ3/8")

