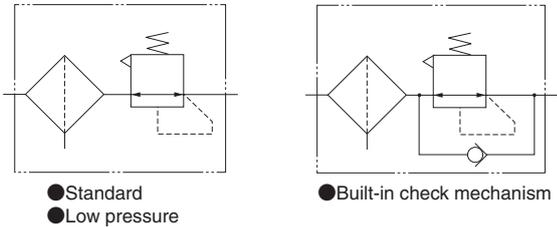


Filter regulator

FRZ30-F11·FRZ31-F11·FRZ32-F11
FRZ40-F11·FRZ41-F11
FRZ50-F11·FRZ51-F11



Symbol



Specifications

Item	Model		FRZ30-F11	FRZ40-F11	FRZ50-F11
	Standard		FRZ30-F11	FRZ40-F11	FRZ50-F11
	For low pressure		FRZ31-F11	FRZ41-F11	FRZ51-F11
	Built-in check mechanism		FRZ32-F11	—	—
Medium	Air				
Port size			M5×0.8mm, NPT1/8, NPT1/4	NPT1/8, NPT1/4, NPT3/8	NPT1/4, NPT3/8, NPT1/2
Maximum operating pressure	psi		145		
Proof pressure	psi		218		
Operating temperature range (atmosphere and media)	°F		41 to 140 (non-condensation)		
Filtration	μm		5		
Regulation method			Direct operation type and relief type	Internal pilot type and relief type	
Pressure setting range	psi	Standard/built-in check mechanism	7 to 123		
		For low pressure	7 to 58		
Relief start pressure	psi		Set pressure +7 or less		
Air consumption ^{Note 1}	ft ³ /min (SCFM)		—	0.18 or less	
Materials of major parts	Body		Die cast aluminum alloy		
	Bonnet and adapter		Polyacetal		
	Diaphragm		Base fabric + synthetic rubber		
	Bowl		Polycarbonate		
	Filter element		Non-woven fabric		
	Bracket		Steel plate (electroless nickel plated)		
Mass (for standard specifications and largest port size)	lb		0.35	0.44	0.64
Standard equipment	Mounting ring				
Option ^{Note 2}	<input type="checkbox"/> 1.181 in. integrated pressure gauge (assembled), other pressure gauges (included parts), brackets (included parts)				

Note 1: Maximum value of specified range. Air consumption varies depending on the relationship of the primary pressure and the secondary pressure.
 2: Refer to the order codes and the specifications for each product starting on page 17 for details on the various types of options.

Order codes

FRZ [] - F11 - [] - [] - []

NPT thread specifications

Body Model	Port size	NPT			
30	M5	1/8	01	02	} Standard
40		01	02	03	
50			02	03	} Low pressure
31	M5	01	02	03	
41		01	02	03	} Built-in check mechanism
51		02	03	04	
32	M5	01	02		

Bracket
 Blank — No bracket
 B — With bracket

Pressure gauge specifications

- Blank — No pressure gauge (pressure gauge connection port NPT1/4)
- GP1 — No pressure gauge (pressure gauge connection port NPT1/8)
- GN — No pressure gauge (No pressure gauge connection port)
- G1C — 145 psi specification 1.181 in. integrated pressure gauge
- G4C — 58 psi specification 1.181 in. integrated pressure gauge
- G1 — 145 psi specification ϕ 1.575 in. pressure gauge
- G3 — 44 psi specification ϕ 1.575 in. pressure gauge
- G1S — 145 psi specification ϕ 1.575 in. stainless Bourdon tube pressure gauge
- G3S — 44 psi specification ϕ 1.575 in. stainless Bourdon tube pressure gauge
- GS6 — 145 psi specification digital pressure switch
- GS1A — 145 psi specification 1.969 in. pressure gauge with built-in switch Lead wire For 24 VDC
- GS1B — 145 psi specification 1.969 in. pressure gauge with built-in switch Lead wire For 100 VAC, 200 VAC
- GS1C — 145 psi specification 1.969 in. pressure gauge with built-in switch With DIN connector For 24 VDC
- GS1D — 145 psi specification 1.969 in. pressure gauge with built-in switch With DIN connector For 100 VAC, 200 VAC

Note: Refer to order codes and dimensions on page 39 to 45 for information about the specifications for pressure gauges, pressure gauges with electronic switches, pressure gauges with built-in pressure switches, and purchasing individual parts.

Filter regulator

● Order codes for brackets only

8Z-BK

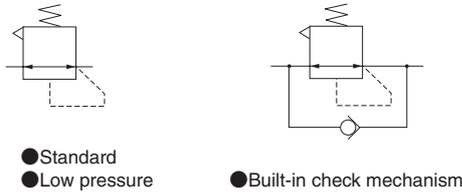


Regulator

RZ30-F11·RZ31-F11·RZ32-F11
RZ40-F11·RZ41-F11
RZ50-F11·RZ51-F11



Symbol



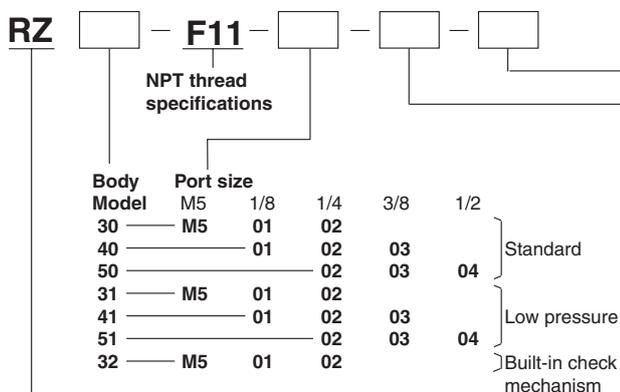
Specifications

Item	Model	Standard	RZ30-F11	RZ40-F11	RZ50-F11
		For low pressure	RZ31-F11	RZ41-F11	RZ51-F11
		Built-in check mechanism	RZ32-F11	—	—
Medium			Air		
Port size			M5×0.8mm, NPT1/8, NPT1/4	NPT1/8, NPT1/4, NPT3/8	NPT1/4, NPT3/8, NPT1/2
Maximum operating pressure	psi		145		
Proof pressure	psi		218		
Operating temperature range (atmosphere and media)	°F		41 to 140 (non-condensation)		
Regulation method			Direct operation type and relief type	Internal pilot type and relief type	
Pressure setting range	psi	Standard/built-in check mechanism	7 to 123		
		For low pressure	7 to 58		
Relief start pressure	psi		Set pressure +7 or less		
Air consumption ^{Note 1}		ft ³ /min (SCFM)	—	0.18 or less	
Materials of major parts	Body		Die cast aluminum alloy		
	Bonnet and adapter		Polyacetal		
	Diaphragm		Base fabric + synthetic rubber		
	Bracket		Steel plate (electroless nickel plated)		
Mass (for standard specifications and largest port size)	lb		0.29	0.37	0.53
Standard equipment			Mounting ring		
Option ^{Note 2}			<input type="checkbox"/> 1.181 in. integrated pressure gauge (assembled), other pressure gauges (included parts), brackets (included parts)		

Note 1: Maximum value of specified range. Air consumption varies depending on the relationship of the primary pressure and the secondary pressure.

Note 2: Refer to the order codes and the specifications for each product starting on page 47 for details on the various types of options.

Order codes



Bracket
Blank — No bracket
B — With bracket

Pressure gauge specifications

- Blank — No pressure gauge (pressure gauge connection port NPT1/4)
- GP1 — No pressure gauge (pressure gauge connection port NPT1/8)
- GN — No pressure gauge (No pressure gauge connection port)
- G1C — 145 psi specification 1.181 in. integrated pressure gauge
- G4C — 58 psi specification 1.181 in. integrated pressure gauge
- G1 — 145 psi specification ϕ 1.575 in. pressure gauge
- G3 — 44 psi specification ϕ 1.575 in. pressure gauge
- G1S — 145 psi specification ϕ 1.575 in. stainless Bourdon tube pressure gauge
- G3S — 44 psi specification ϕ 1.575 in. stainless Bourdon tube pressure gauge
- GS6 — 145 psi specification digital pressure switch
- GS1A — 145 psi specification 1.969 in. pressure gauge with built-in switch Lead wire For 24 VDC
- GS1B — 145 psi specification 1.969 in. pressure gauge with built-in switch Lead wire For 100 VAC, 200 VAC
- GS1C — 145 psi specification 1.969 in. pressure gauge with built-in switch With DIN connector For 24 VDC
- GS1D — 145 psi specification 1.969 in. pressure gauge with built-in switch With DIN connector For 100 VAC, 200 VAC

Note: Refer to order codes and dimensions on page 43 to 45 for information about the specifications for pressure gauges, pressure gauges with electronic switches, pressure gauges with built-in pressure switches, and purchasing individual parts.

Regulator

● Order codes for brackets only

8Z-BK



Bracket



Bracket shape and applicable devices

Applicable model	Bracket model	Remarks	
Filter regulator	FRZ3□, FRZ4□, FRZ5□	8Z-BK	Option to support the product body.
Regulator	RZ3□, RZ4□, RZ5□	8Z-BK	Option to support the product body.
Residual pressure exhaust valve	50VZ	8Z-BV	Option to support the product body.

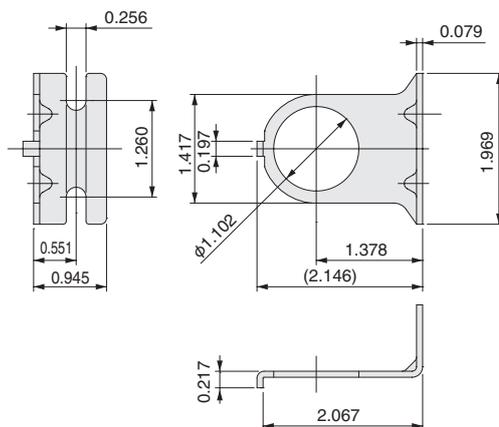
[Materials of major parts] Steel plate (electroless nickel plated)

Bracket dimensions in.

■ For filter regulators and regulators

● 8Z-BK

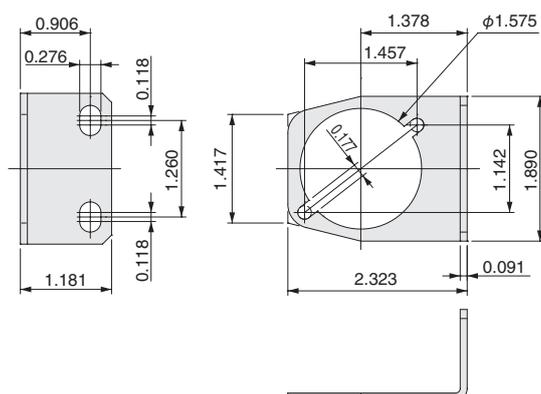
Bracket



■ For residual pressure exhaust valve

● 8Z-BV

Bracket



2 cross-head pan screws included