

Regulators with Filter + Filter / Regulators with Filter + Lubricator

Regulators with Pressure Gauge + Filter

MSFRAF

Regulators with Filter (5µm) + Air Filter (0.3µm)

Accessories: Pressure Gauge 1 pc. Bracket 1 pc.

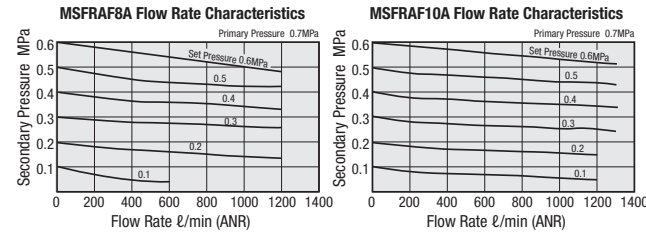
Structure Diagram

JIS Symbol

RoHS 10

Part Number Type	No.	Rc (PT)	Nomi. Filtration Rating (µm)	Operating Pressure (MPa)	Pressure Setting Range (MPa)	Pressure Resistant MPa	Ambient Temp. Range (°C)	Applicable Fluid	Mass (g)
MSFRAF	8A	1/4	5+0.3	0.05-1.0	0.05-0.85	1.5	5-60	Air	780
	10A	3/8							

Characteristic Data
This graph shows that when the primary pressure is constant at 0.7 MPa, the secondary set pressure drops according to the flow rate used.



Components List

No.	Name	Material
(1)	Regulators with Filter	MSFR
(2)	Air Filters	MSAF 0.3 µm
(3)	Bracket	Aluminum Casting Alloy 383.0
(4)	Attachment	Aluminum Casting Alloy 383.0
(5)	Hex Socket Head Cap Screw	4137 Alloy Steel
(6)	#1 Gasket	NBR Nitrile Rubber
(7)	#2 Gasket	NBR Nitrile Rubber

The drain valve automatically drains when the pressure becomes 0.5 MPa or less.

Regulators with Filter + Lubricator

MSFRRR

Regulators with Filter (5µm) + Lubricator

Accessories: Pressure Gauge 1 pc. Bracket 1 pc.

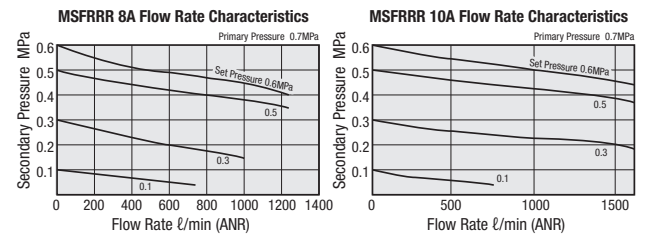
Structure Diagram

JIS Symbol

RoHS 10

Part Number Type	No.	Rc (PT)	Nomi. Filtration Rating (µm)	Operating Pressure (MPa)	Pressure Setting Range (MPa)	Pressure Resistance (MPa)	Oil Storage Capacity (cm³)	Min. Dripping Flow Rate (L/min)	Recommended Oil	Ambient Temp. Range (°C)	Applicable Fluid	Mass (g)
MSFRRR	8A	1/4	5	0.05-1.0	0.05-0.85	1.5	55	50	Turbine Oil 1 Type (ISO VG32)	5-60	Air	780
	10A	3/8						60				

Characteristic Data
This graph shows that when the primary pressure is constant at 0.7 MPa, the secondary set pressure drops according to the flow rate used.



Components List

No.	Name	Material
(1)	Regulators with Filter	MSFR
(2)	Lubricator	MSRR
(3)	Bracket	Aluminum Casting Alloy 383.0
(4)	Attachment	Aluminum Casting Alloy 383.0
(5)	Hex Socket Head Cap Screw	4137 Alloy Steel
(6)	Gasket	NBR Nitrile Rubber

The drain valve automatically drains when the pressure becomes 0.5 MPa or less.

Part Number Example	Part Number MSFRAF8A
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Air Regulators with Filter / Lubricator

Air Regulators with Filter

MSFR Regulators with Filter MSPGN1 Pressure Gauge

Accessories: (MSFR only) Pressure Gauge 1 pc., Bracket 1 pc.

Structure Diagram

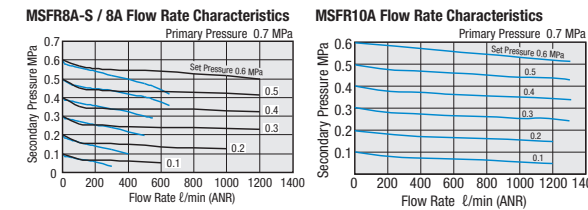
JIS Symbol

RoHS 10

Part Number Type	No.	Rc (PT)	Nomi. Filtration Rating (µm)	Operating Pressure (MPa)	Pressure Setting Range (MPa)	Pressure Resistance (MPa)	Ambient Temperature Range (°C)	Applicable Fluid	Mass (g)	Part Number
MSFR	8A-S	1/4	40	0-1.0	0.05-0.85	1.5	5-60	Air	210	MSPGN1 Pressure Gauge
	8A	1/4	5	0.05-1.0					460	
	10A	3/8								

The drain valve on Structure Diagram (9) automatically drains when the pressure becomes 0.5 MPa or less.

This graph shows that when the primary pressure is constant at 0.7 MPa, the secondary set pressure drops according to the flow rate used.



Components List

No.	Name	Material	No.	Name	Material
(1)	Main Body	Aluminum Casting Alloy 380.0	(7)	Adjusting Screw	1018 Carbon Steel
(2)	Bonnet	PBT Polybutylene Terephthalate	(8)	Element	PE
(3)	Case Guard	Aluminum Casting Alloy 383.0	(9)	Drain Valve	C36000 Brass
(4)	Case	PC	(10)	Lock Nut	6063 Aluminum Alloy
(5)	Valve	Nitrile Rubber	(11)	Bracket	Low Carbon Steel
(6)	Handle	POM Polyoxymethylene	(12)	Pressure Gauge	—

Lubricator

MSRR Lubricator

Structure Diagram

JIS Symbol

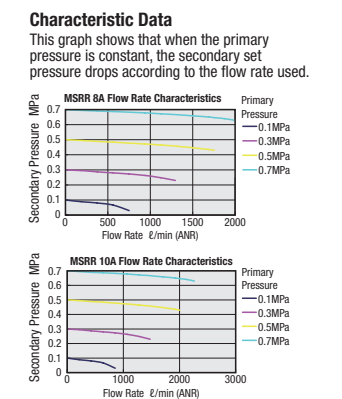
RoHS 10

Part Number Type	No.	Rc (PT)	Operating Pressure (MPa)	Pressure Resistance (MPa)	Operating Temp. Range (°C)	Oil Capacity (cm³)	Min. Dripping Flow Rate (L/min)	Recommended Oil	Applicable Fluid	Mass (g)
MSRR	8A	1/4	0-1.0	1.5	5-60	55	50	Turbine Oil (ISO VG32)	Air	270
	10A	3/8				60				

Minimum Dripping Flow Rate shows the flow rate when the primary pressure is at 0.5 MPa. (ANR)

Components List

No.	Name	Material	No.	Name	Material
(1)	Main Body	Aluminum Casting Alloy 380.0	(9)	Check Valve Body	C36000 Brass
(2)	Flow Guide Holder	POM Polyoxymethylene	(10)	Syphon Tube	PU
(3)	Flow Guide	NBR Nitrile Rubber	(11)	Feed Plug	1018 Carbon Steel or Equivalent
(4)	Check Valve #1	303 Stainless Steel	(12)	Feed Plug Gasket	NBR Nitrile Rubber
(5)	Holder Gasket	NBR Nitrile Rubber	(13)	Needle Valve Gasket	NBR Nitrile Rubber
(6)	Check Valve #2	303 Stainless Steel	(14)	Needle Valve	C36000 Brass
(7)	Check Valve Spring	303 Stainless Steel	(15)	Inner Dome	PC
(8)	Air Nozzle	C36000 Brass	(16)	Inner Dome Gasket	NBR Nitrile Rubber
(17)	Outer Dome	PC	(18)	Outer Dome Gasket	NBR Nitrile Rubber
(19)	Handle	PC	(20)	Case Gasket	NBR Nitrile Rubber
(21)	Case	PC	(22)	Case Guard	PC



Part Number Example

Part Number Example	Part Number MSFR8A-S MSRR8A
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