

MFRD series Micro Mist Separator Regulator

Product features/ Characteristics graph

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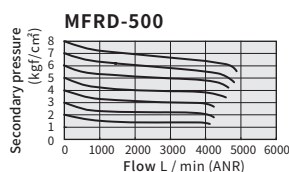
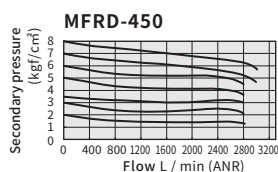
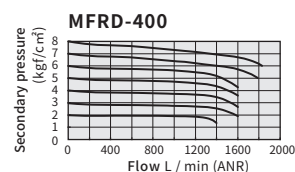
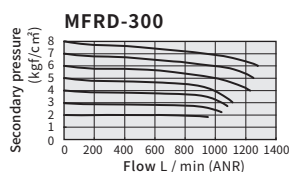
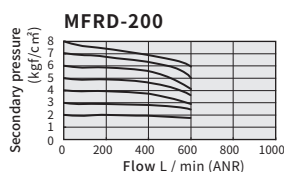
Symbol:



Specification

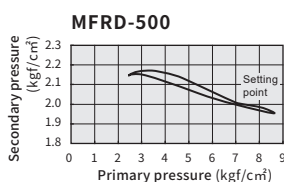
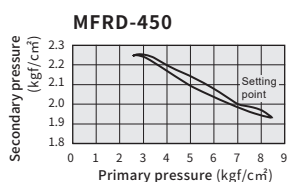
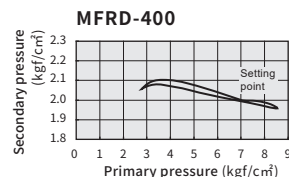
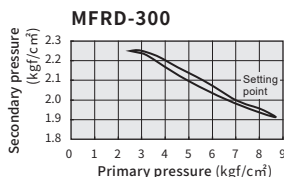
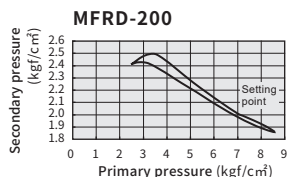
Item	Model	MFRD-200	MFRD-300	MFRD-400	MFRD-450	MFRD-500
Fluid		Air				
Port size	Rc	1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	1/2, 3/4	3/4, 1
Filter grade		0.01 μ m				
Pressure range	kgf/cm ² (kPa)	0.5 ~ 8.5 (50 ~ 850)				
Max. service pressure	kgf/cm ² (kPa)	9.5 (950)				
Temperature	°C	5 ~ 60				
Bowl capacity	cc	15	30	60	100	100
Weight	kg	0.21	0.34	0.45	0.95	1.15
Material	Main body	Aluminum die cast				
	Bowl	Relieving type				

Flow rate characteristic graph



Note : The flow rate dropping might be caused by working environment with dirt and objects; filter element is suggested to replace from time to time.

Pressure characteristics graph



MFRD series Micro Mist Separator Regulator

Code of order

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Code of order

MFRD-300 - 03 - G - BG-A - F1 - PG 10 - Bracket

Model (1) Port size (2) Thread type (3) Bowl type (4) Fitting (5) Pressure gauge (6) Bracket

Model	Port size						Thread type			Bowl type		Fitting		Pressure gauge		Bracket		
	Mark	01	02	03	04	06	10	None	G	N	None	Other bowl type	None	-F1	PG-22N	PG-10A	None	With bracket
		Port size	1/8	1/4	3/8	1/2	3/4	1	RC	G	NPT	PC (Short bowl)	Bowl guard (Short bowl)	Bowl guard (Standard)	Bowl guard (Standard)	Manual drain cock	None (standard) (Square pressure gauge) (Thin mounting type)	None (standard) (With bracket)
MFRD-200		●	●					●	●	●								
MFRD-300			●	●				●	●	●								
MFRD-400				●	●			●	●	●								
MFRD-450					●	●		●	●	●								
MFRD-500						●	●	●	●	●								

※ Please see the below table in detail.

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※ MFRD200 ~ MFRD500 series (option)

■ Bowl and Drain cock type ← ④

◆ With Fitting - F1 ← ⑤

■ MFRD-200 type - Bowl and Drain cock type - ④

Bowl type	PC (Short bowl)		Bowl guard (Short bowl)		PC (Long bowl)	Bowl guard (Long bowl)	Metal (Long bowl)
Drain cock type	Manual drain cock	Differential pressure	Manual drain cock	Differential pressure	Auto drain	Auto drain	Auto drain
Model	-H	-A	-BG-H	-BG-A	-LG-A	-LBG-A	-LMG-H
MFRD-200	● (standard)	● (option)	● (option)	● (option)	● (option)	● (option)	● (option)

◆ MFRD-200 type - With Fitting - F1 - ⑤

MFRD-200	—	● (standard)	● (option)	● (standard)	● (option)	● (option)	—
Description		Note.1 (Fitting outside)	Note.1 (Fitting outside)	Note.1 (Fitting outside)	(PF1/8 Male thread)	(PF1/8 Male thread)	

■ MFRD-300~500 type - Bowl and Drain cock type - ④

Bowl type	Bowl guard (Standard)			Bowl guard (Long bowl)		Metal (Long bowl)	
Drain cock type	Manual drain cock	Differential pressure	Auto drain	Manual drain cock	Auto drain	Manual drain cock	Auto drain
Model	-H	-S	-A	-LG-H	-LG-A	-MG-H	-MG-A
MFRD-300	● (standard short)	● (option)	—	● (option)	● (option)	● (option)	● (option)
MFRD-400	● (standard)	● (option)	● (option)	—	—	● (option)	● (option)
MFRD-450	● (standard)	● (option)	● (option)	—	—	● (option)	● (option)
MFRD-500	● (standard)	● (option)	● (option)	—	—	● (option)	● (option)

◆ MFRD-300~500 type - With Fitting - F1 - ⑤

MFRD-300~500 Note	● (option)	● (option)	● (standard)	● (option)	● (standard)	● (option)	● (standard)
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- 🔍 Note : 1. MFRD200 series are outside fitting, others are inside fitting; please refer to P.1-1.06 auto drain construction.
2. MFRD300 series are standard manual type. (-H Short bowl type)
3. (standard): Standard accessory; (option): Optional accessory.

◆ Pressure gauge - ⑥

Pressure gauge		MFRD-200	MFRD-300	MFRD-400	MFRD-450	MFRD-500
Model	Order code					
PG-10	P10	● (option)	● (option)	● (option)	● (option)	● (option)
PG-22N	P22	● (standard)	● (standard)	● (standard)	● (standard)	● (standard)

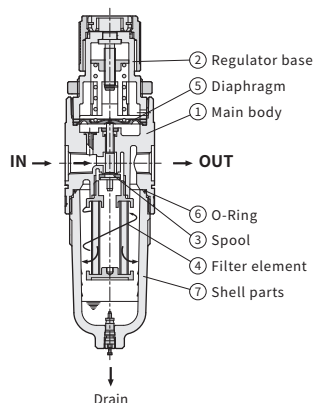
MFRD series Micro Mist Separator Regulator

Product features

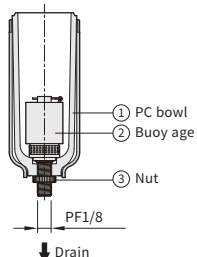
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Internal structure

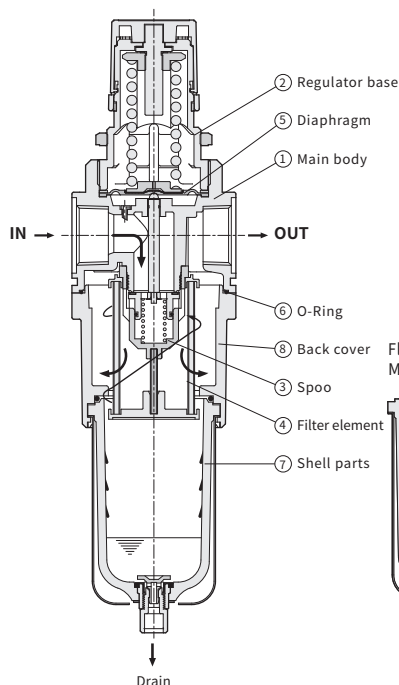
MFRD200



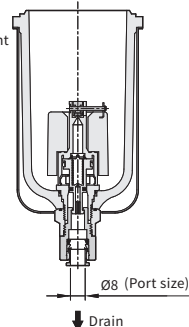
(Long bowl)
Float auto drainer (N.C)
Model: AD-25



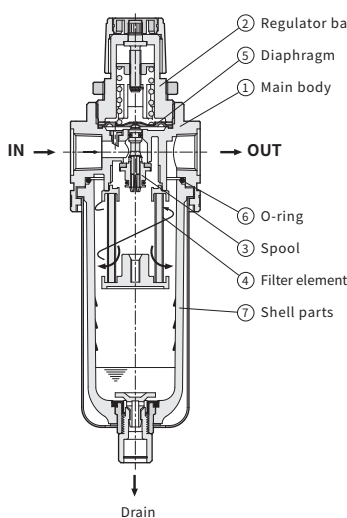
MFRD500



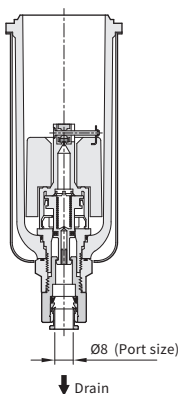
Float auto drainer (N.C)
Model: AD-55



MFRD300, MFRD400, MFRD450



(Long bowl)
Float auto drainer (N.C)
Model: AD-55
AD-35(MFRD300)



Component

Number	Accessory	Material		Note
		MFRD200, MFRD300, MFRD400, MFRD450	MFRD500	
1	Main unit	Aluminum alloy		
5	Back cover	—	Aluminum alloy	

Replacement parts

Number	Accessory	Material					Note
		MFRD200	MFRD300	MFRD400	MFRD450	MFRD500	
2	Filter element	Sponge + EA30					
3	O-ring	NBR					
4	Shell parts	PC	PC+SS41				



Note : MFRD200 are included bowl guard. (Material : Aluminum alloy)

The shell parts in MFRD300-MFRD500 is included Bowl guard (Material : SS41)

NC

NFC

PSN-10
30,41

NFR

MFR

MFRD

NF

MF

MFD

NR

ARX

NPR

NL

N

DM

ERX

ERP

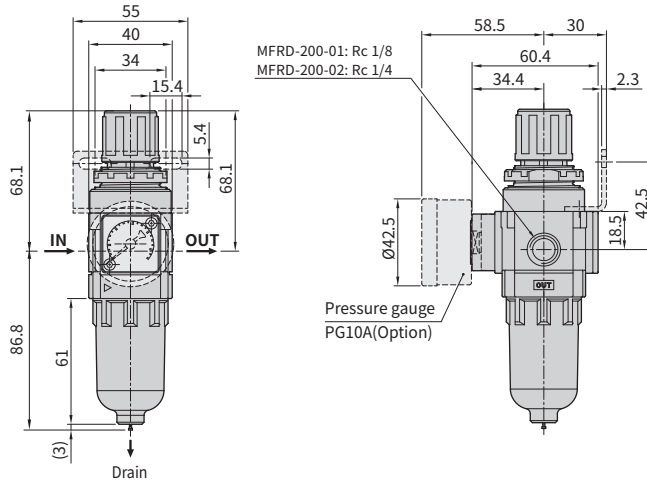
PG/AFB
NDV/AD

MFRD series Micro Mist Separator Regulator

Dimensions

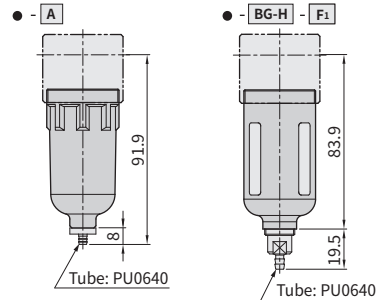
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● MFRD - 200 - [] - H



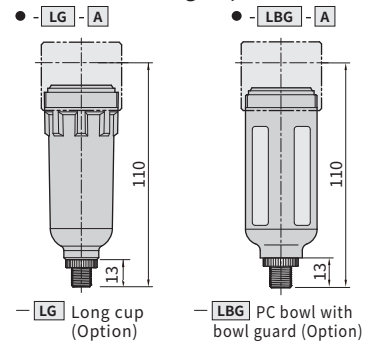
- H	- BG-H - F1	- A	- LG - A	- LBG - A
Manual drain cock (standard)	Manual drain cock (With bowl guard, Fitting)	Auto drain (Differential pressure should be above 1kg)	Auto drain (AD-25)	Auto drain (AD-25)
Button Push	Bowl guard F1 Fitting Push			

Manual drain cock-Standard

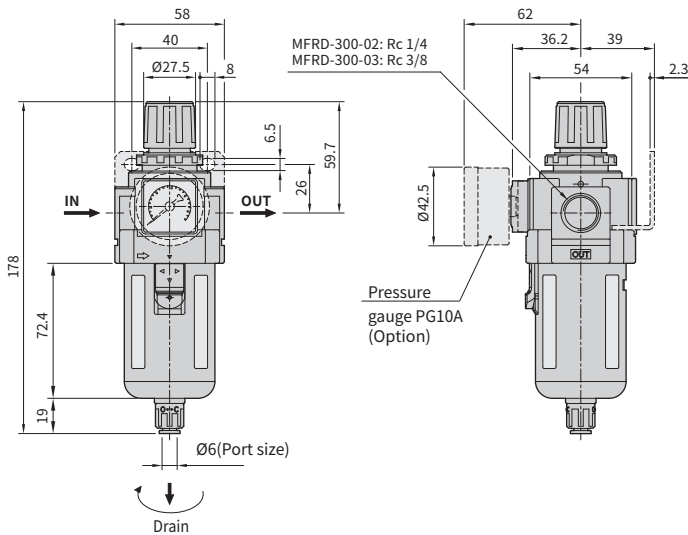


- BG | PC bowl with bowl guard (Option)

Auto drain-Long cup

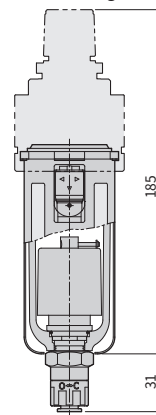


● MFRD - 300 - [] - H Standard

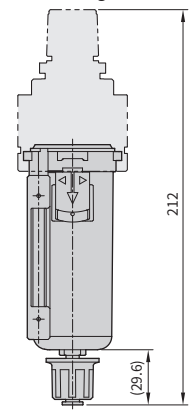


- H	- H-F1	- S	- S-F2	- A
Manual drain (Standard)	Manual drain cock with fitting(Optional)	Semi-Auto drain (Option)	Semi-Auto drain with fitting(Optional)	Auto drain (Option AD-35)
Rotate Turn left to drain	Rotate Turn left to drain	Rotate Turn left to drain	Rotate Turn left to drain	Float type

● - BG - A
Auto drain with fitting



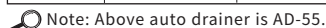
● - MG - H - F1
Manual drain cock with fitting



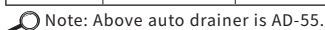
Note: Above auto drainer is AD-35.

Dimensions

▶ MFRD - 400 - H Standard



► MFRD - 450 - H Standard

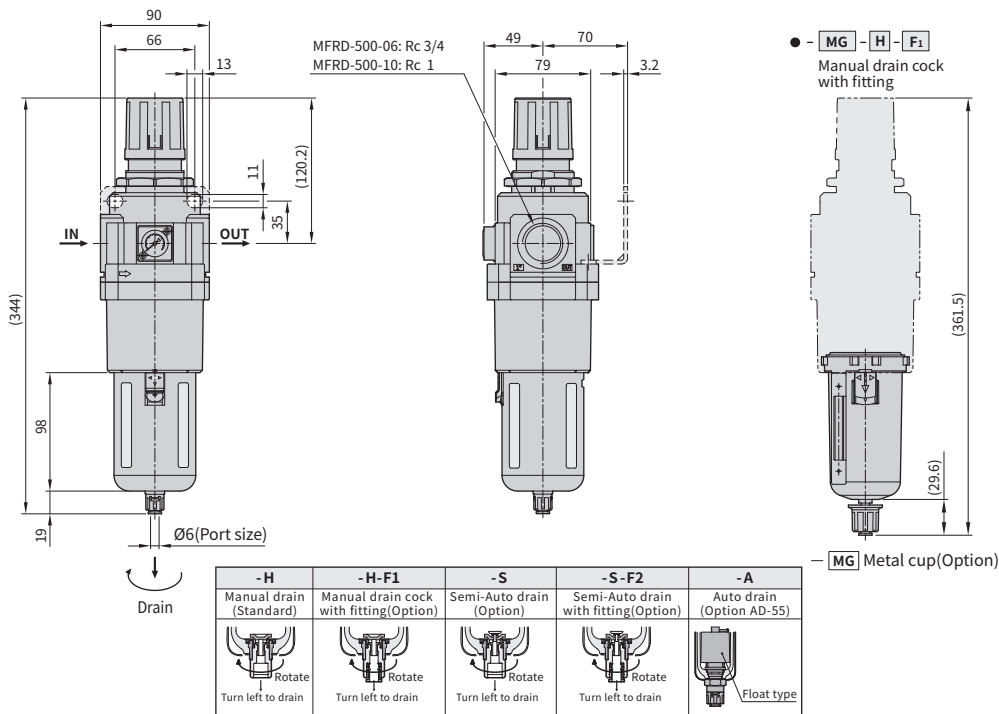
PG/AFB
NDV/AD

MFRD series Micro Mist Separator Regulator

Dimensions

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● MFRD - 500 - H Standard



Note: Above auto drainer is AD-55.