

AIR EQUIPMENT












FRL UNIT
AIR FILTER
LUBRICATOR
REGULATOR
SPEED CONTROLLER
SILENCER
LINE CHECK VALVE
NEEDLE VALVE
NEEDLE SILENCER
FLOW SWITCH
PRESSURE SWITCH
FOOT VALVE
FOOT SWITCH
MANUAL VALVE
DRAIN TRAP



NIHON SEIKI

INFORMATION






	F.R.L. UNIT				
					
Model	BN-25T6	BN-2501A·2501	BN-2510	BN-25T0	BN-2520
Port Size	8A ~ 15A	8A ~ 25A	8A	8A·10A	8A
Page	3	4	5	5	5



	P.L. UNIT	FILTER/REGULATOR			
					
Model	BN-25T5	BN-3RT5F	BN-3RT0F	BN-3R21F	
Port Size	8A ~ 15A	8A ~ 15A	8A·10A	8A	
Page	6	7	8	8	

	AIR FILTER				
					
Model	BN-27T5	BN-2701A	BN-2701	BN-2700	BN-2720
Port Size	8A ~ 15A	8A ~ 15A	20A·25A	40A	8A
Page	9	10	10	10	10

	REGULATOR				
				 (Max. Inlet 1.4MPa)	
Model	BN-3RT5	BN-3R01	BN-3R01	BN-3R01H1	BN-3R21
Port Size	8A ~ 15A	8A ~ 25A	40A	8A ~ 25A	8A
Page	11	12	12	12	12

INFORMATION

	LUBRICATOR				
					
Model	BN-23T5	BN-2301A	BN-2301	BN-2350	BN-2320
Port Size	8A ~ 15A	8A ~ 15A	20A · 25A	40A	8A
Page	13	14	14	14	14

	SPEED CONTROLLER	SILENCER	NEEDLE SILENCER	LINE CHECK VALVE	NEEDLE VALVE
					
Model	BN-2800	BN-2600	BN-9N12M	BN-9L21	BN-9N11
Port Size	6A ~ 40A	6A ~ 40A	M5 · 6A · 10A	8A ~ 25A	8A ~ 25A
Page	15	16	16	16	16

	FLOW SWITCH		PRESSURE SWITCH		FOOT SWITCH
					
Model	BN-1321(1321L)	BN-1311	BN-1217T	BN-1213 · 18 · 52 · 54	BN-1411
Port Size	10A · 15A	20A ~ 40A	6A	10A	-
Page	17	17	18	18	18

	FOOT VALVE	MANUAL VALVE	DRAIN TRAP		
					
Model	BN-4PA31 · 4PA41	BN-4H41C	NH-503J2	NH-5L3	NI-505
Port Size	8A	8A ~ 25A	15A	15A	20A
Page	18	19	20	20	20

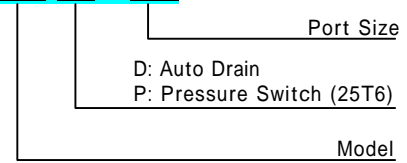
F.R.L. UNIT (FILTER. REGULATOR. LUBRICATOR)

SERIES

SERIES	FEATURE
25T6	Space-saving Modular Connection
2500	Screw Connection
2510	Integrated Body Compact Model
25T0	Low Cost Model
2520	Compact Model

ORDER EXAMPLE

BN - 25T6 DP - 10A



Technical Data

Spec		Model(Auto Drain)	BN-25T6 (BN-25T6D)			BN-2501A (BN-2501AD)			BN-2501 (BN-2501DM)		BN-2510		BN-25T0		BN-2520		
Port Size			8A	10A	15A	8A	10A	15A	20A	25A	8A	8A	10A	8A			
Pipe Size		(Rc)	1/4	3/8	1/2	1/4	3/8	1/2	3/4	1	1/4	1/4	3/8	1/4			
Medium		-	Air						Air								
Working Pressure	Manual	(MPa)	0.05			1.0			0		1.0		0		1.0		
	(Auto)	(MPa)	(0.05)			(1.0)			(0.25)		(1.0)		-				
Set Pressure		(MPa)	0.05			0.85			0.1		0.85		0.05		0.85		
Proof Pressure		(MPa)	1.5						1.5								
Ambient Temp.		()	5 - 60						5 - 60								
Lub. Oil Capacity		(cm3)	200			400			30		50		25				
Filtration		(μ)	5			40			40		5		40				
Model of each unit	Air Filter		BN-27T5			BN-2701A			BN-2701		Integrated Model	Integrated Model	BN-2720				
	Regulator		BN-3RT5			BN-3R01			BN-3R01				BN-3R21				
	Lubricator		BN-23T5			BN-2301A			BN-2301				BN-2320				
Weight		(kg)	1.9			2.0		2.1	3.8		1.4		0.55		0.3		
Standard Equipment			Pressure Gauge Bracket			-						Bracket		Pressure Gauge Bracket		Bracket	
Option			Auto Drain Pressure Switch			Pressure Gauge Auto Drain, Bracket			Pressure Gauge		-		Pressure Gauge				

*: () auto drain built-in model.

*: Pressure switch shall suit BN-25T6 series only.

*: BN25T6 and BN-25T0 are designed to discharge drain automatically when depressurized below 0.05MPa.

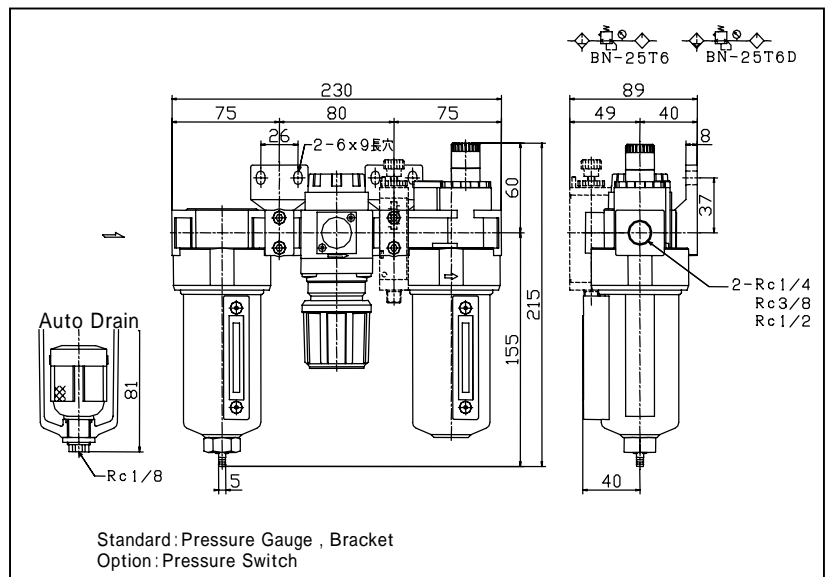
Dimensions

BN-25T6 8A · 10A · 15A



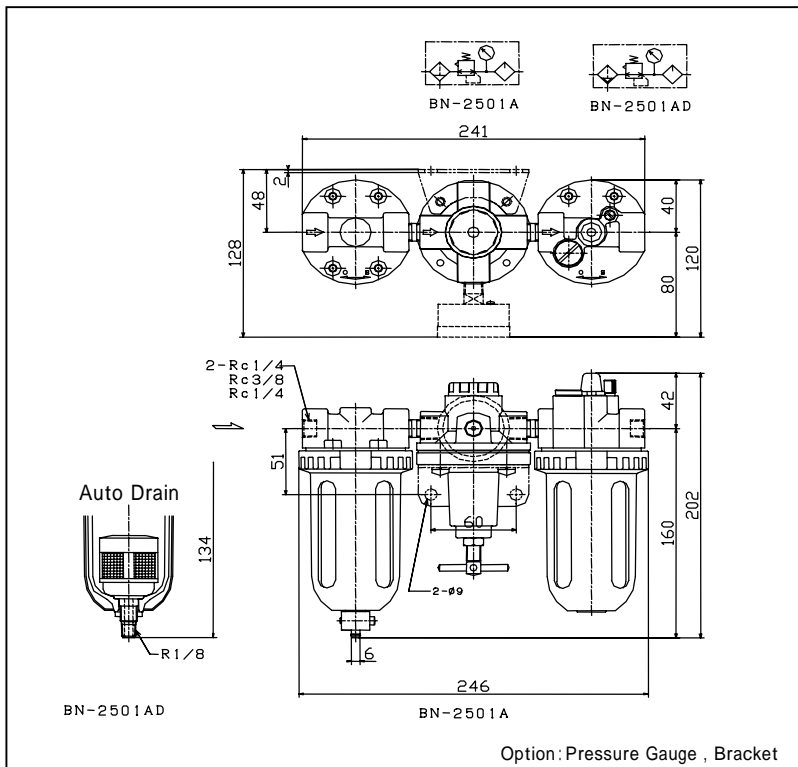
Feature

1. Modular connection by special attachment.
2. Metal bowl.
3. Liquid level indicator lens.
4. Optional pressure switch is available.

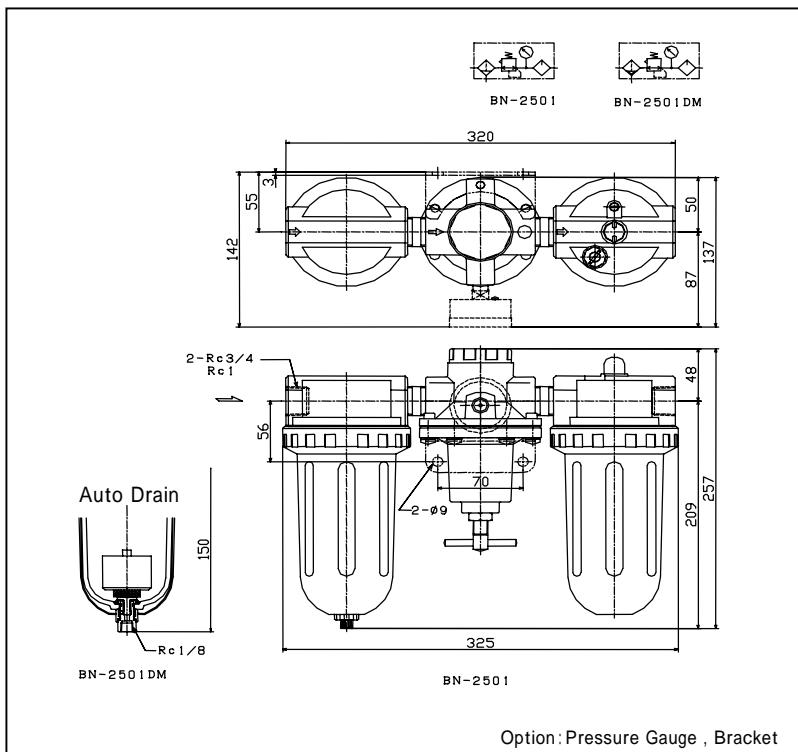


F.R.L. UNIT (FILTER. REGULATOR. LUBRICATOR)

BN-2501A 8A·10A·15A

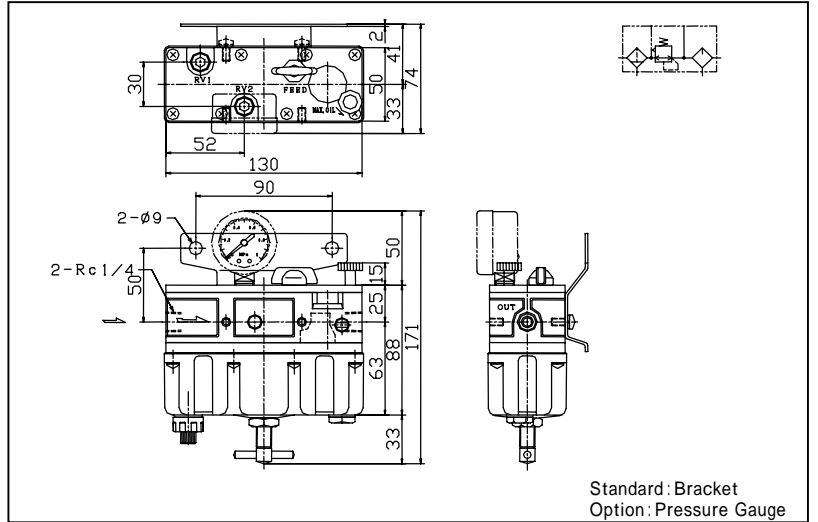


BN-2501 20A·25A

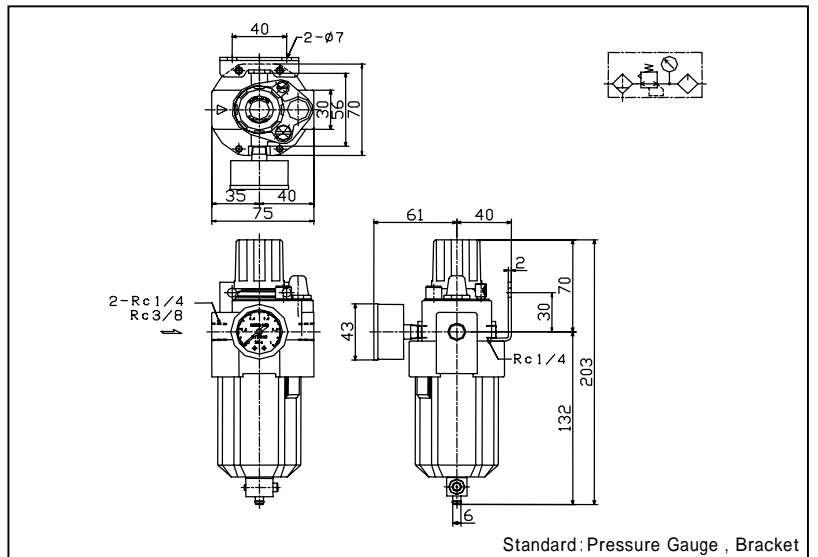


F.R.L. UNIT (FILTER. REGULATOR. LUBRICATOR)

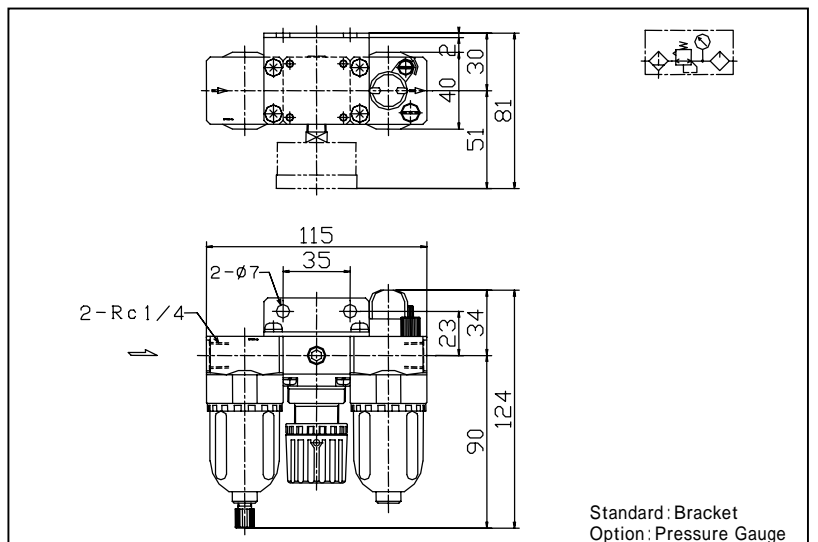
BN-2510 8A



BN-25T0 8A·10A



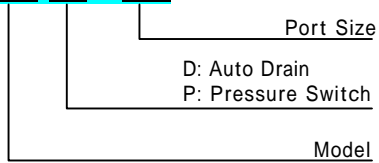
BN-2520 8A



P.L. UNIT (FILTER/REGULATOR. LUBRICATOR)

ORDER EXAMPLE

BN - 25T5 DP - 10A



Technical Data

Model(Auto Drain)		BN-25T5 (BN-25T5D)		
Spec		8A	10A	15A
Port Size		8A	10A	15A
Pipe Size	(Rc)	1/4	3/8	1/2
Medium	-	Air		
Working Pressure	Manual	(MPa)	0.05	1.0
	(Auto)	(MPa)	(0.05)	(1.0)
Set Pressure	(MPa)	0.05	0.85	
Proof Pressure	(MPa)	1.5		
Ambient Temp.	()	5 - 60		
Lub. Oil Capacity	(cm3)	200		
Filtration	(μ)	5		
Model of each unit	Filter/Regulator	BN-3RT5F		
	Lubricator	BN-23T5		
Weight	(kg)	1.5		
Standard Equipment		Pressure Gauge Bracket		
Option		Auto Drain Pressure Switch		

Feature

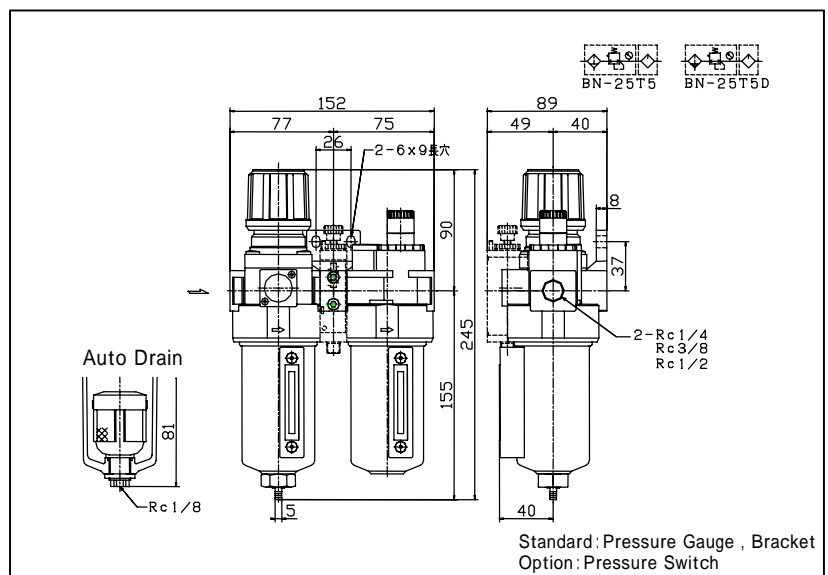
- 1.Modular connection by special attachment.
- 2.Metal bowl.
- 3.Liquid level indicator lens.
- 4.Optional pressure switch is available

*: () auto drain built-in model.

*: BN25T5 are designed to discharge drain automatically when depressurized below 0.05MPa

Dimensions

BN-25T5 8A · 10A · 15A



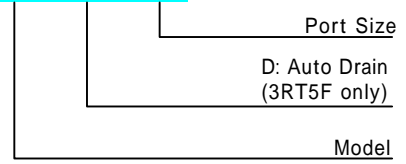
FILTER/REGULATOR

SERIES

SERIES	FEATURE
3RT5F	Space-saving Modular Connection
3RT0F	Light-weight Compact Model
3R21F	Compact Model

ORDER EXAMPLE

BN 3RT5F D 10A



Technical Data

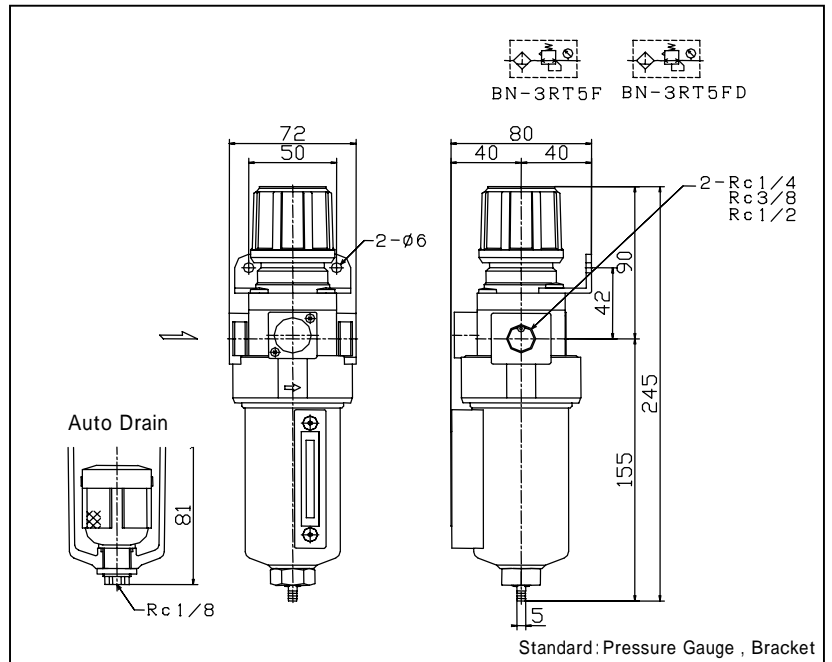
Spec		Model	BN-3RT5F (BN-3RT5FD)			BN-3RT0F		BN-3R21F
Port Size			8A	10A	15A	8A	10A	8A
Pipe Size		(Rc)	1/4	3/8	1/2	1/4	3/8	1/4
Medium		-	Air					
Working Pressure	Manual	(MPa)	0.05	1.0		0.05	1.0	0 1.0
	(Auto)	(MPa)	(0.05 1.0)			-		-
Set Pressure		(MPa)	0.05 0.85					
Proof Pressure		(MPa)	1.5					
Ambient Temp.		()	5 60					
Filtration		(μ)	5			5		40
Weight		(kg)	0.8			0.35		0.35
Standard Equipment			Pressure Gauge Bracket			Pressure Gauge Bracket		-
Option			Auto Drain			-		Pressure Gauge Bracket

*: () auto drain built-in model.

*: BN-3RT5F and BN-3RT0F are designed to discharge drain automatically when depressurized below 0.05MPa.

Dimensions

BN-3RT5F 8A · 10A · 15A

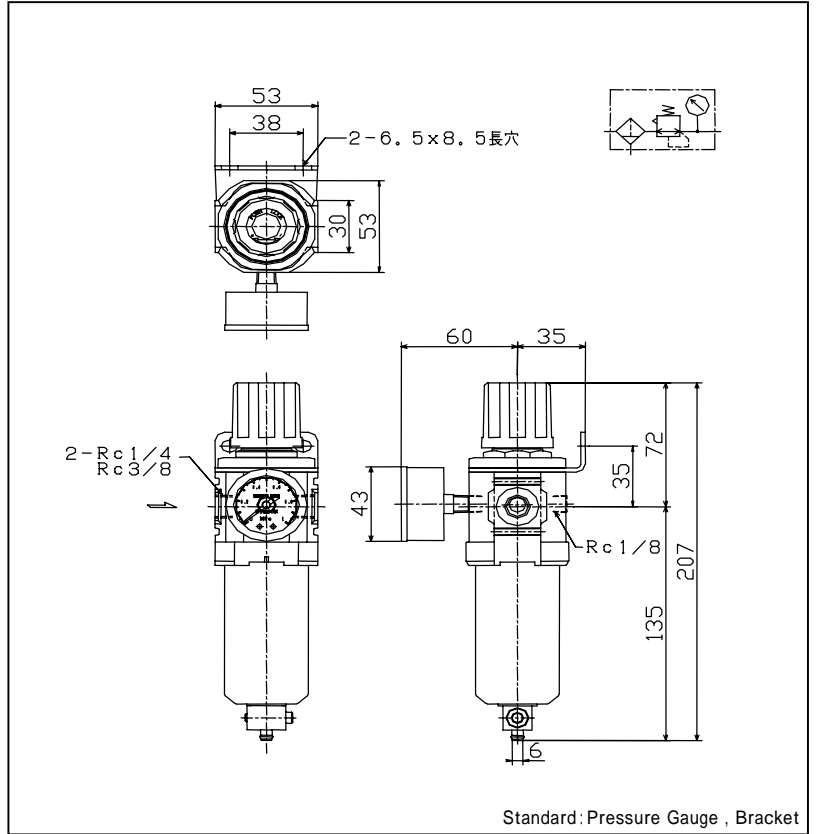


Feature

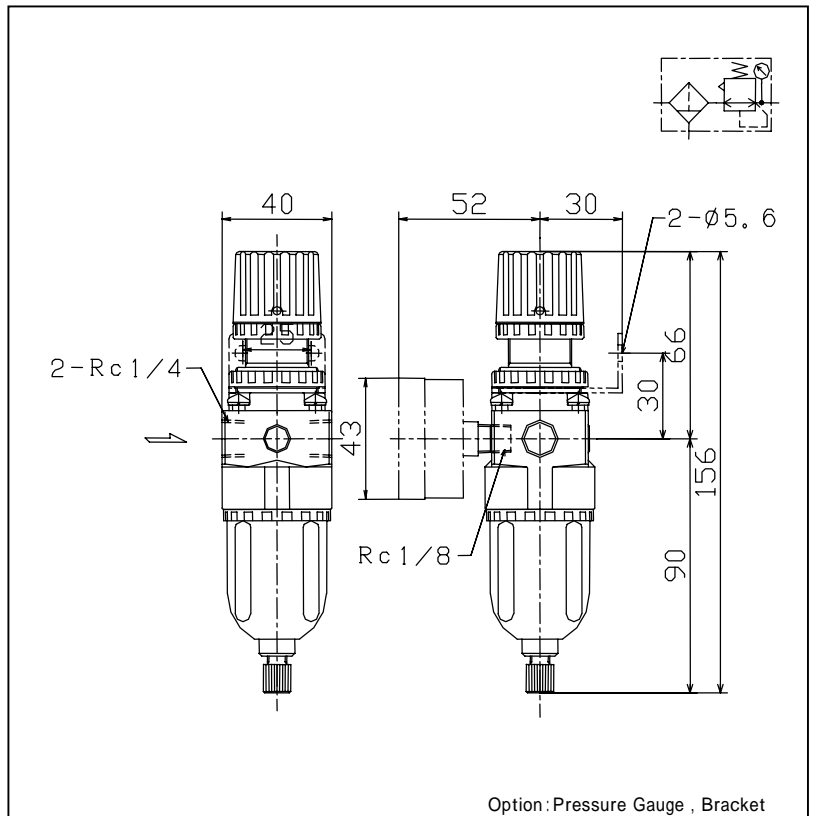
1. Metal bowl
2. Liquid level indicator lens

FILTER/REGULATOR

BN-3RT0F 8A·10A



BN-3R21F 8A



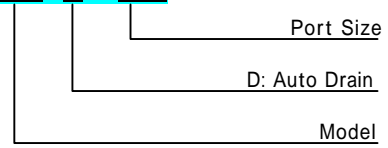
AIR FILTER

SERIES

SERIES	FEATURE
27T5	Space-saving Modular Connection
2700	Screw Connection
2720	Compact Model

ORDER EXAMPEL

BN 27T5 D 10A



Technical Data

Model(Auto Drain)		BN-27T5 (BN-27T5D)			BN-2701A (BN-2701AD)			BN-2701 (BN-2701DM)		BN-2700 (BN-2700DS)	BN-2720		
Spec													
Port Size		8A	10A	15A	8A	10A	15A	20A	25A	40A	8A		
Pipe Size		(Rc)		1/4	3/8	1/2	1/4	3/8	1/2	3/4	1	1 1/2	1/4
Medium		Air											
Working Pressure	Manual	0.05 1.0			0.05 1.0			0 1.0					
	(Auto)	(0.05 1.0)			(0.25 1.0)			(0.25 1.0)		(0.25 1.0)		-	
Proof Pressure		1.5 (MPa)											
Ambient Temp.		5 - 60 ()											
Filtration		5 (μ)			40								
Air Flow		(m3/min)	1.3	2.0	2.5	1.5	2.0	2.2	5.7	6.3	13.5	0.39	
Weight		(kg)	0.5 (0.5)			0.7 (0.8)			1.2 (1.3)		3.0 (4.0)		0.4
Option		Auto Drain, Bracket										-	

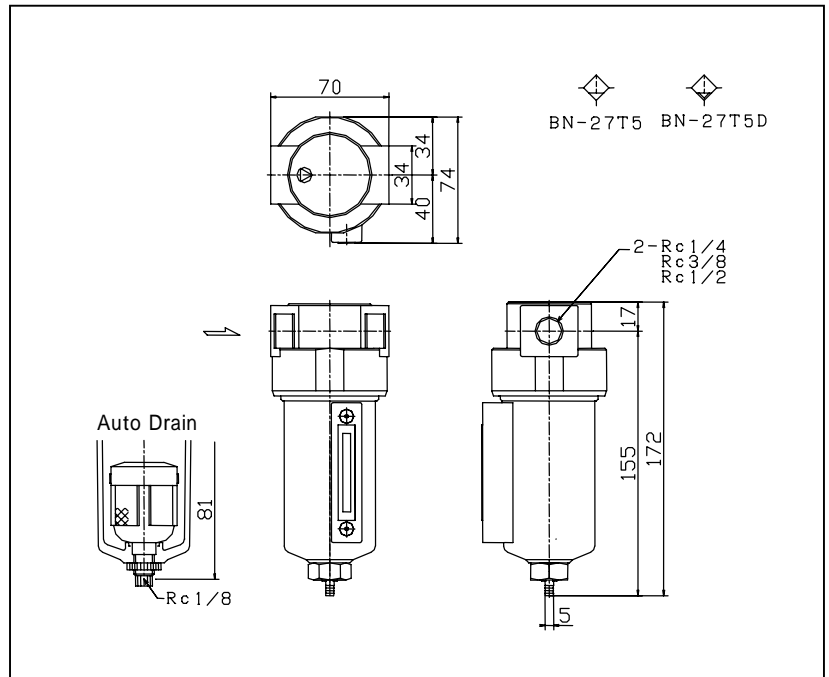
* : Air flow at inlet pressure 0.7MPa and pressure drop 0.03MPa.

* : () auto drain built-in model.

* : BN-27T5 and BN-2701A are designed to discharge drain automatically when depressurized below 0.05MPa.

Dimensions

BN-27T5 8A · 10A · 15A



Feature

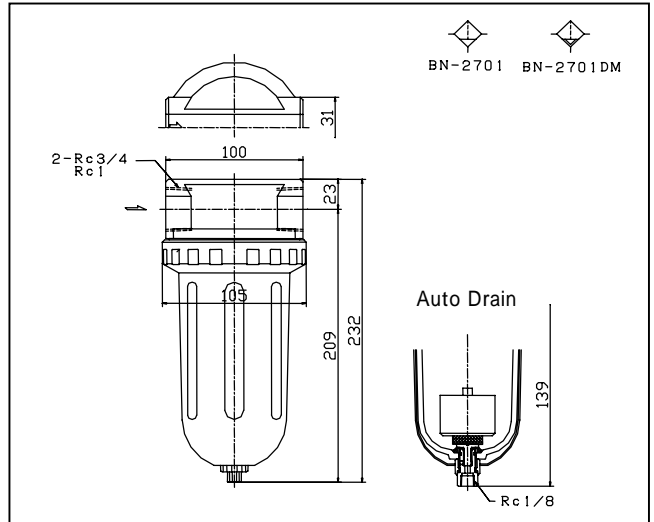
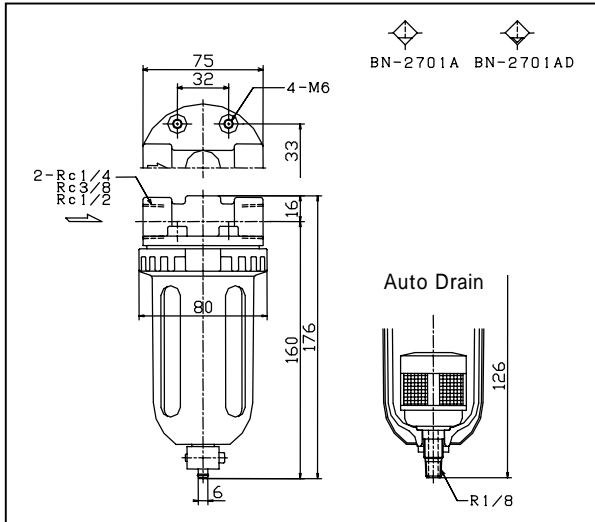
1. Metal bowl
2. Liquid level indicator lens

AIR FILTER

BN-2701A
8A · 10A · 15A



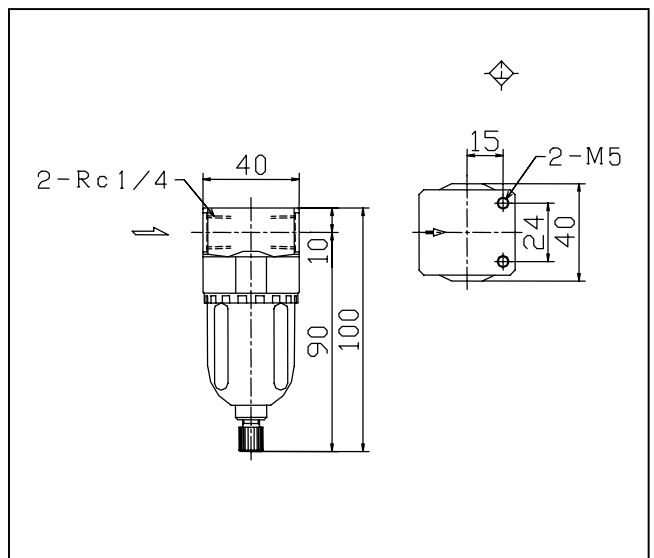
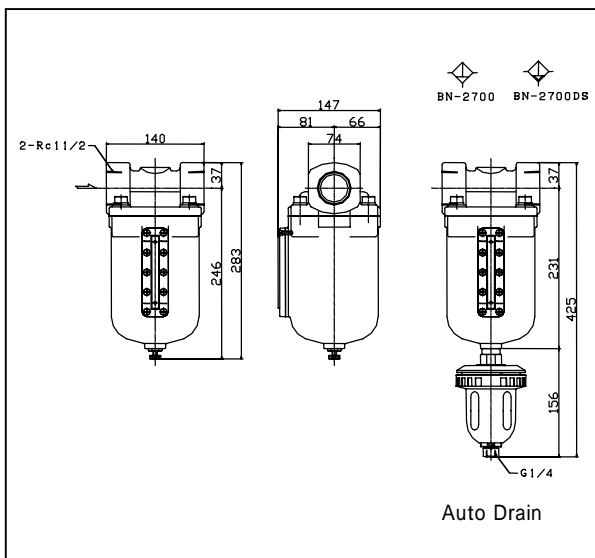
BN-2701
20A · 25A



BN-27000
40A



BN-2720
8A



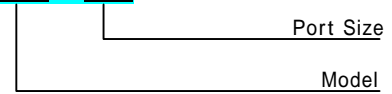
REGULATOR

SERIES

SERIES	FEATURE
3RT5	Space-saving Modular Connection
3R01	Screw Connection
3R21	Compact Model

ORDER EXAMPLE

BN 3RT5 10A

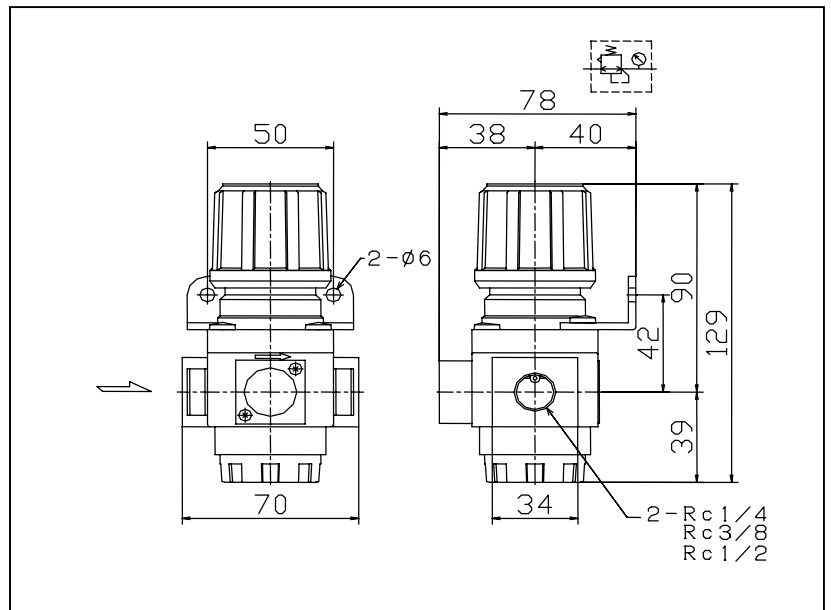


Technical Data

Spec	Model	BN-3RT5			BN-3R01 (PANEL TYPE BN-3R01P)						BN-3R01H1					BN-3R21
		8A	10A	15A	8A	10A	15A	20A	25A	40A	8A	10A	15A	20A	25A	8A
Port Size		8A	10A	15A	8A	10A	15A	20A	25A	40A	8A	10A	15A	20A	25A	8A
Pipe Size	(Rc)	1/4	3/8	1/2	1/4	3/8	1/2	3/4	1	1 1/2	1/4	3/8	1/2	3/4	1	1/4
Medium	-	Air														
Working Pressure	(MPa)	Below 1.0									Below 1.4					Below 1.0
Set Pressure	(MPa)	0.05 0.85									0.1 1.0					0.05 0.85
Proof Pressure	(MPa)	1.5									2.0					1.5
Ambient Temp.	()	5 60														
Weight	(kg)	0.45			0.6	0.7	1.2	9.0	0.6	0.7	1.2	0.3				
Standard Equipment		Pressure Gauge Bracket			-											
Option		-			Pressure Gauge, Bracket											

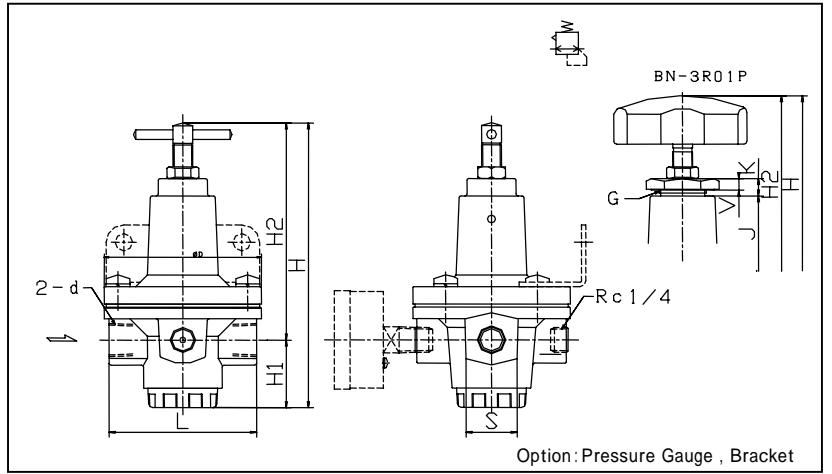
Dimensions

BN-3RT5 8A · 10A · 15A



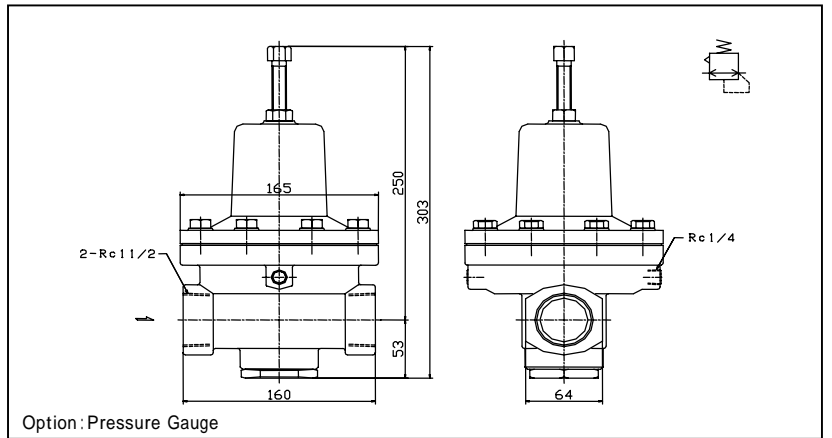
REGULATOR

BN-3R01 (3R01H1)
8A · 10A · 15A · 20A · 25A

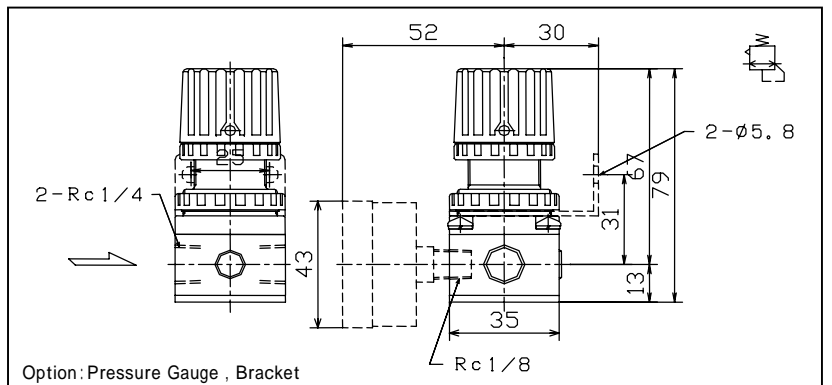


Symbol Port	BN-3R01 (3R01H1)							BN-3R01P (PANETL TYPE)					
	d	S	L	D	H1	H2	H	H2	H	G	J	K	V
8A	Rc1/4	26	75	80	35	113	148	127	162	M24 x 1.5	73	9	6
10A	Rc3/8												
15A	Rc1/2	36	80	86	39	122	161	136	175		82	9	6
20A	Rc3/4	46	90	100	48	138	186	150	198		M30 x 1.5	92	10
25A	Rc1												

BN-3R01 40A



BN-3R21 8A



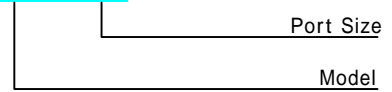
LUBRCATOR

SERIES

SERIES	FEATURE
23T5	Space-saving Modular Connection
2300	Screw Connection
2320	Compact Model

ORDER EXAMPLE

BN 23T5 10A



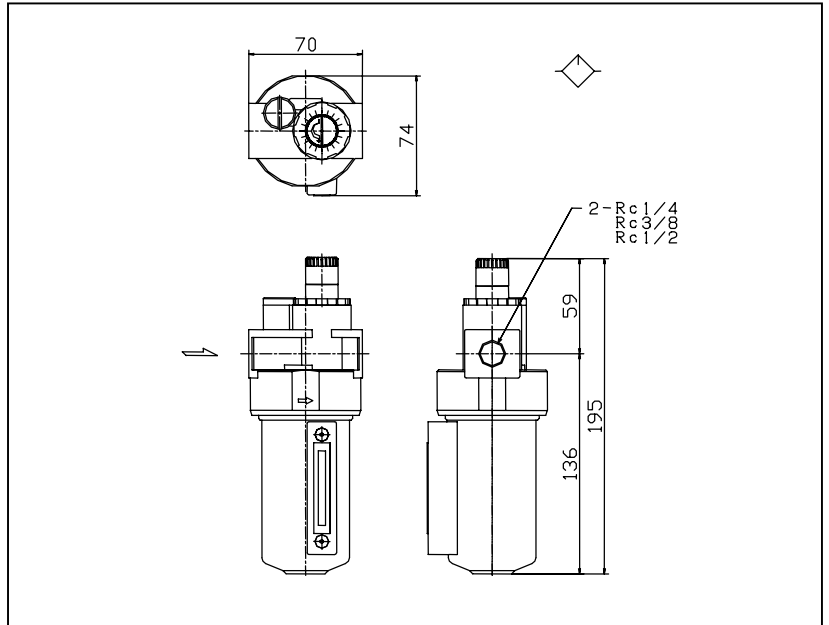
Technical Data

Model		BN-23T5			BN-2301A			BN-2301		BN-2350	BN-2320
Spec		8A	10A	15A	8A	10A	15A	20A	25A	40A	8A
Port Size		8A	10A	15A	8A	10A	15A	20A	25A	40A	8A
Pipe Size	(Rc)	1/4	3/8	1/2	1/4	3/8	1/2	3/4	1	1 1/2	1/4
Medium	-	Air									
Working Pressure	(MPa)	Below 1.0									
Proof Pressure	(MPa)	1.5									
Ambient Temp.	()	5 60									
Lub. Oil	-	Turbine Oil ISO-VG32									
Lub. Oil Capacity	(cm3)	200						400		1400	25
Air Flow	(m3/min)	1.2	2.0	2.1	0.4	1.3	2.5	7.5		18.5	0.41
Min. flow for oil drip (0.5MPa)	(l/min)	160	180	200	50	200	400	400		3500	50
Weight	(kg)	0.55			0.9			1.3		3.5	0.4

* : Air flow at inlet pressure 0.7MPa and pressure drop 0.03MPa.

Dimensions

BN-23T5 8A · 10A · 15A

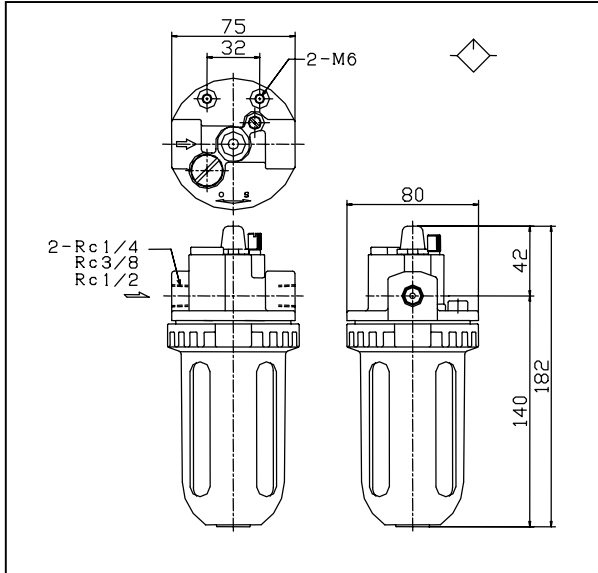


Feature

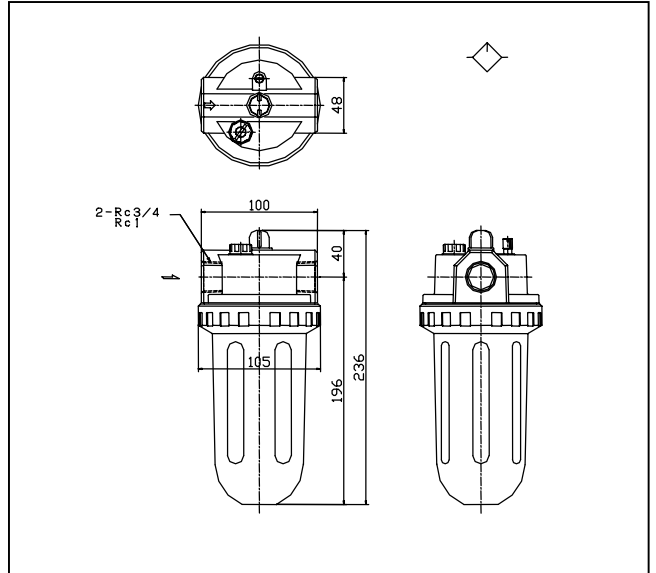
1. Metal bowl
2. Liquid level indicator lens

LUBRICATOR

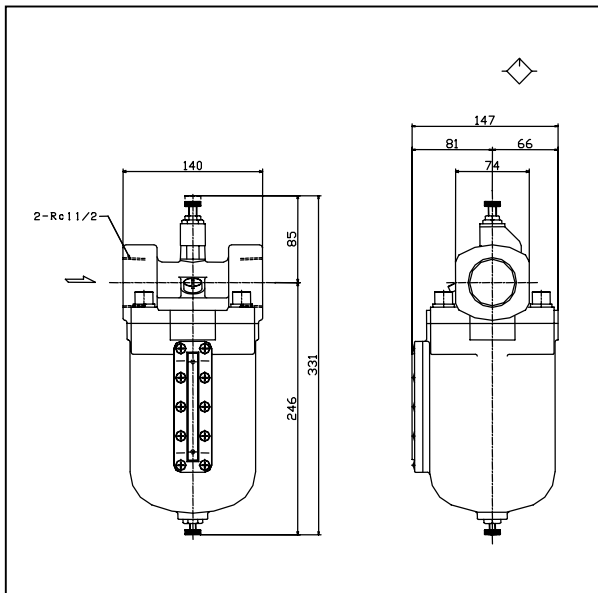
BN-2301A
8A · 10A · 15A



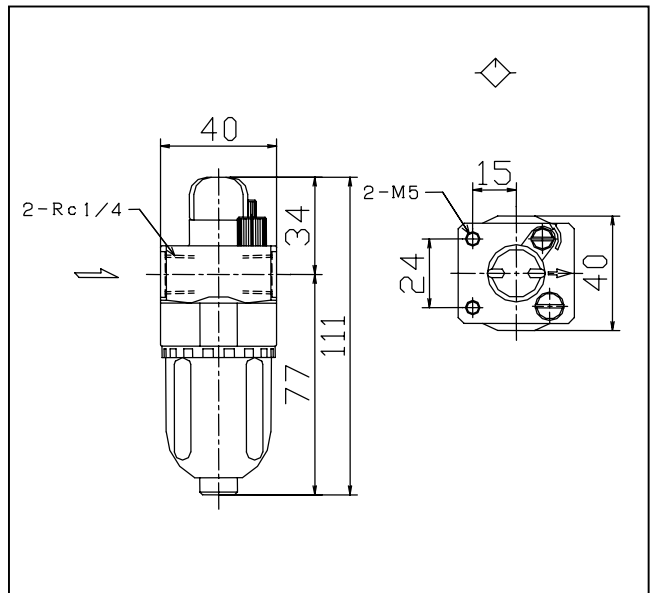
BN-2301
20A · 25A



BN-2350
40A



BN-2320
8A



SPEED CONTROLLER BN-2800

ORDER EXAMPLE

BN 2800 10A

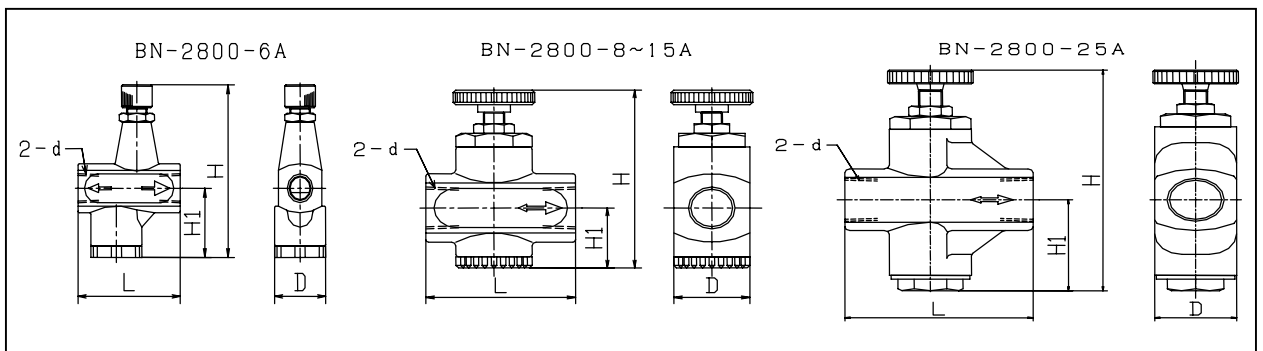


Technical Data

Model			BN-2800							
Port Size			6A	8A	10A	15A	20A	25A	40A	
Pipe Size		(Rc)	1/8	1/4	3/8	1/2	3/4	1	1 1/2	
Medium		-	Air							
Working Pressure		(MPa)	Below 1.0							
Proof Pressure		(MPa)	1.5							
Ambient Temp.		()	5 - 60							
Effective Area	Needle	(mm ²)	2.2	14	20	24	75	130	300	
	Check	(mm ²)	6.5	16	22	26	70	115	480	
Weight		(kg)	0.1	0.2	0.3	0.4	0.8	1.2	1.8	

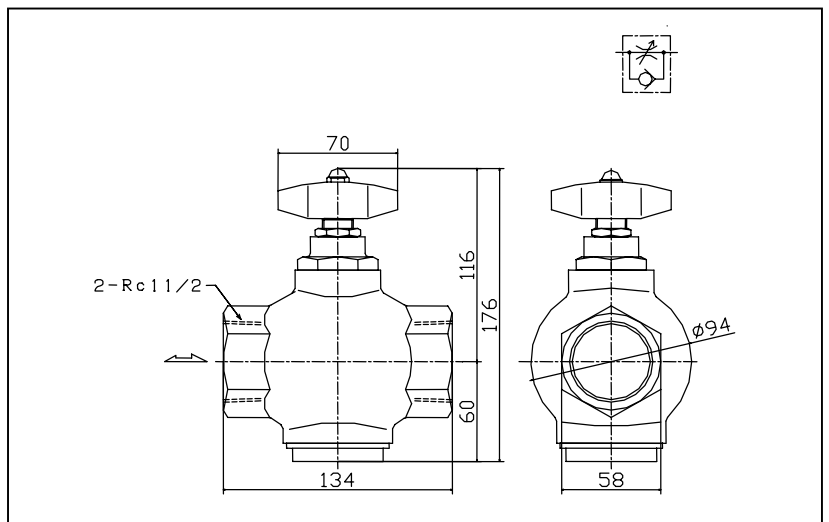
Dimensions

BN-2800 6A·8A·10A·15A·20A·25A



Port	Symbol	d	L	H1	H	D
6A	Rc1/8	40	24	60	20	
8A	Rc1/4	46	21.5	66	22	
10A	Rc3/8	55	24.5	73	28	
15A	Rc1/2	65	24.5	78	30	
20A	Rc3/4	90	59	147	40	
25A	Rc1	110	71	172	48	

BN-2800 40A



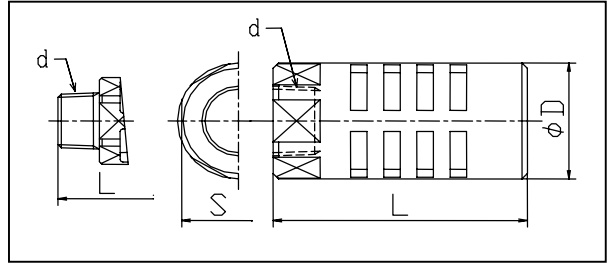
SILENCER

BN-2600



ORDER EXAMPLE
BN 2600 10A

Port Size
Model



Model		BN-2600						
Port Size		6A	8A	10A	15A	20A	25A	40A
Pipe Size	-	R1/8	R1/4	R3/8	R1/2	Rc3/4	Rc1	Rc1 1/2
Medium	-	Air						
Working Pressure (MPa)		Below 1.0						
Proof Pressure (MPa)		1.5						
Ambient Temp. ()		-10 - 60						
Effective Area (mm ²)		15	40	60	80	200	300	580
Weight (g)		10	20	50	50	200	200	500

Port	Symbol	d	S	L	D
6A	R1/8	-	-	42.5	16
8A	R1/4		19	46	21
10A	R3/8		30	63	33
15A	R1/2		30	65	33
20A	Rc3/4		41	92	44
25A	Rc1				
40A	Rc1 1/2		60	121	64

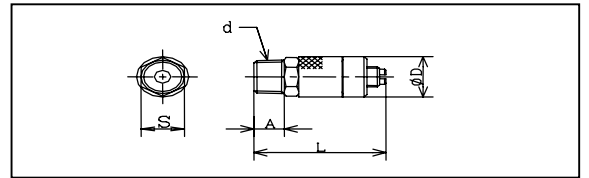
NEEDLE SILENCER

BN-9N12M



ORDER EXAMPLE
BN - 9N12M 10A

Port Size
Model



Symbol Port	d	A	L	D	S	Effective Area (mm ²)	Weight (g)
M5	M5 X 0.8	4	23.5	9	8	2	6.5
6A	R1/8	7	29	12	10	8	15.7
10A	R3/8	10	47	22	19	32	85

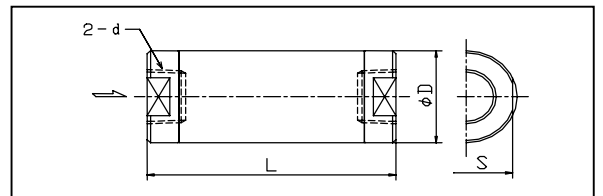
LINE CHECK VALVE

BN-9L21



ORDER EXAMPLE
BN 9L21 10A

Port Size
Model



Symbol Port	d	S	L	D	Effective Area (mm ²)	Weight (g)
8A	Rc1/4	19	50	24	30	200
10A	Rc3/8	27	80	32	60	250
15A	Rc1/2				80	250
20A	Rc3/4	41	110	45	160	700
25A	Rc1				195	700

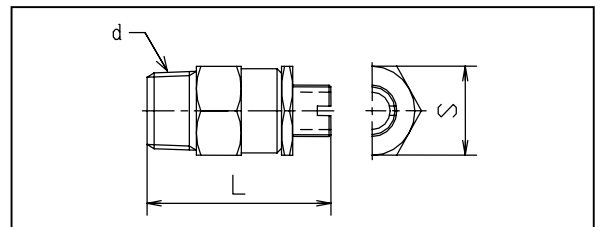
NEEDLE VALVE

BN-9N11



ORDER EXAMPLE
BN 9N11 10A

Port Size
Model

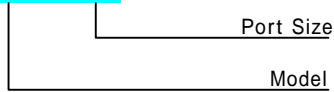


Port	Symbol	d	S	Stroke	L	Effective Area (mm ²)	Weight (g)
8A	R1/4	14	7.5	31	15	20	
10A	R3/8	19	9	41	30	50	
15A	R1/2	22	11	48	45	80	
20A	R3/4	27	14	62	80	140	
25A	R1	36	15	69	120	300	

FLOW SWITCH (BN-13 SERIES)

ORDER EXAMPLE

BN - 1321 10A



BN-1321/1321L



BN-1311

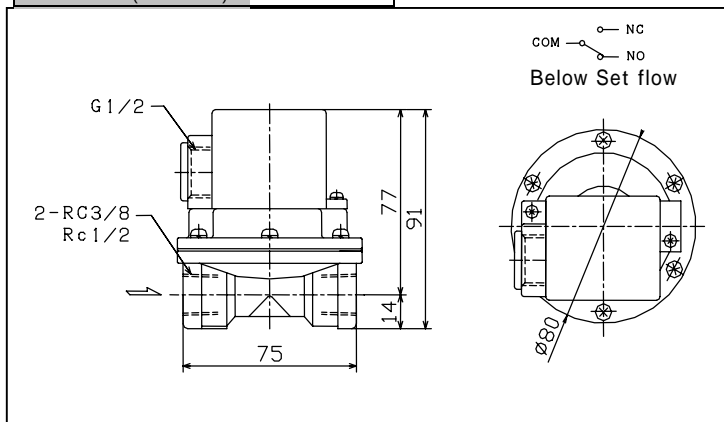
Technical Data

Model		BN-1321		BN-1321L		BN-1311		
Port Size		10A	15A	10A	15A	20A	25A	40A
Pipe Size	Rc	3/8	1/2	3/8	1/2	3/4	1	1 1/2
Medium	-	Water						
Working Pressure	(MPa)	0.05 0.5						
Proof Pressure	(MPa)	1.0						
Fluid Temp.	()	5 60						
Ambient Temp.	()	5 - 60						
Available capacity	(l/min)	5 20	0.8 5					
Weight	(kg)	0.9	0.9		1.3	1.5	2.0	
Contact Capacity		1a1b Contact AC125-250V 15A, DC125V 0.5A, DC250V 0.25A						

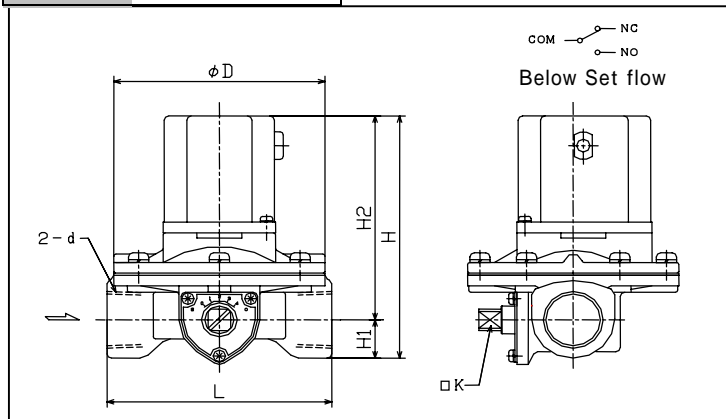
BN-1321L: Low flow model

Dimensions

BN-1321 (1321L) 10A·15A



BN-1311 20A·25A·40A



Symbol / Port	d	L	D	H1
20A	Rc3/4	100	94	18
25A	Rc1	100	94	22
40A	Rc1 1/2	110	94	30
Symbol / Port	H2	H	K	S
20A	96	114	10	37
25A	99	121	10	44
40A	107	137	13	60

PRESSURE SWITCH

ORDER EXAMPLE

BN - 1213 - 10A

Port Size

Model



BN-1217T

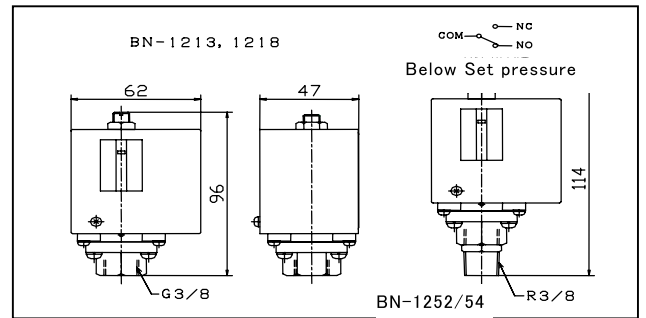
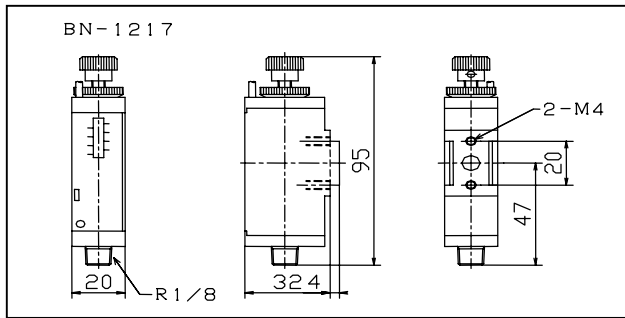


BN-1213/1218

Technical Data

Model		BN-1217T	BN-1213	BN-1218	BN-1252	BN-1254
Pipe Size (Port Size)		R1/8 (6A)	G3/8 (10A)		R3/8 (10A)	
Medium		Air	Air		Air - Oil	
Set Pressure	(MPa)	0.1 - 0.7	0.03 - 0.3	0.1 - 0.8	0.5 - 2.0	2.0 - 4.0
Working Pressure	(MPa)	0 - 0.8	0 - .08		0 - 2.0	2.0 - 4.0
Proof Pressure	(MPa)	1.0	1.0		3.0	6.0
Ambient Temp.	(°C)	5 - 60	5 - 60			
Weight	(kg)	0.2	0.5			
Switch		Reed Switch LED on - ON Lead wire 1m	Micro Switch			
Contact Capacity		AC85 - 115V DC5 - 30V MAX. 25mA	1a1b Contact AC125 · 250V 15A, DC125V 0.5A, DC250V 0.25A			

Dimensions



FOOT VALVE (BN-4PA SERIES) · FOOT SWITCH (BN-1411)

ORDER EXAMPLE

BN - 4PA31 - RC

Model

Option

4PA31: 3-PORT VALVE R: LOCK MECHANISM

4PA41: 4-PORT VALVE C: COVER

1411: SWITCH



Technical Data

FOOT VALVE

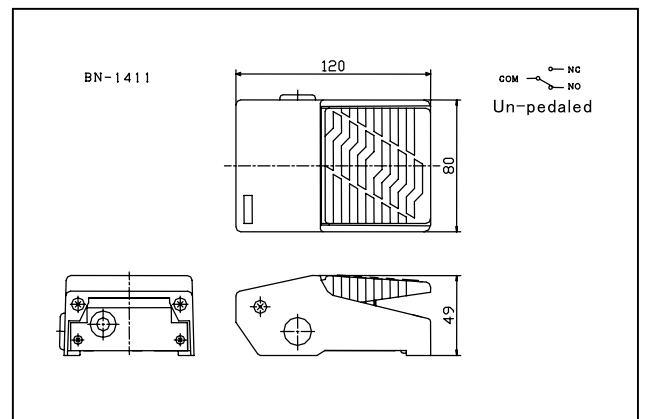
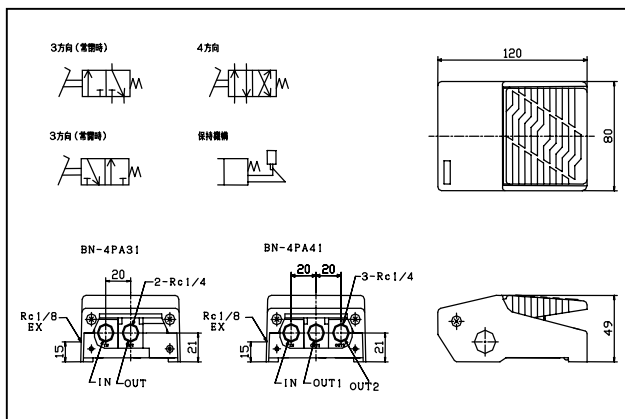
Model		BN-4PA31	BN-4PA41
Port		3-Port	4-Port
Port Size		8A	
Pipe Size	IN·OUT	(Rc)	1/4
	EX	(Rc)	1/8
Medium		-	Air
Working Pressure	(MPa)	0 - 0.7	
Proof Pressure	(MPa)	1.5	
Operating Weight	(N)	MAX29	
Ambient Temp.	(°C)	5 - 60	
Effective Area	(mm ²)	8	
Weight	(kg)	0.5	

FOOT SWITCH

Model		BN-1411
Operating Weight	(N)	19
Ambient Temp.	(°C)	5 - 60
Weight	(kg)	0.4
Contact Capacity		1a1b Contact AC125 · 250V 15A DC125V 0.5A DC250V 0.25A

* Foot valve (switch) with lock mechanism is locked by pedaling the valve. Pedal the valve gain for releasing the valve.

Dimensions



*: Dimensions of the cover is available by request.

MANUAL VALVE (BN-4H41C SERIES)



BN-4H41C-XA-10A



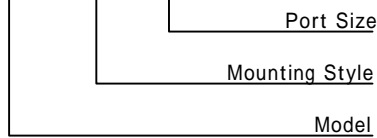
BN-4H41C-XB-10A



BN-4H41C-PB-10A

ORDER EXAMPLE

BN 4H41C XA 10A

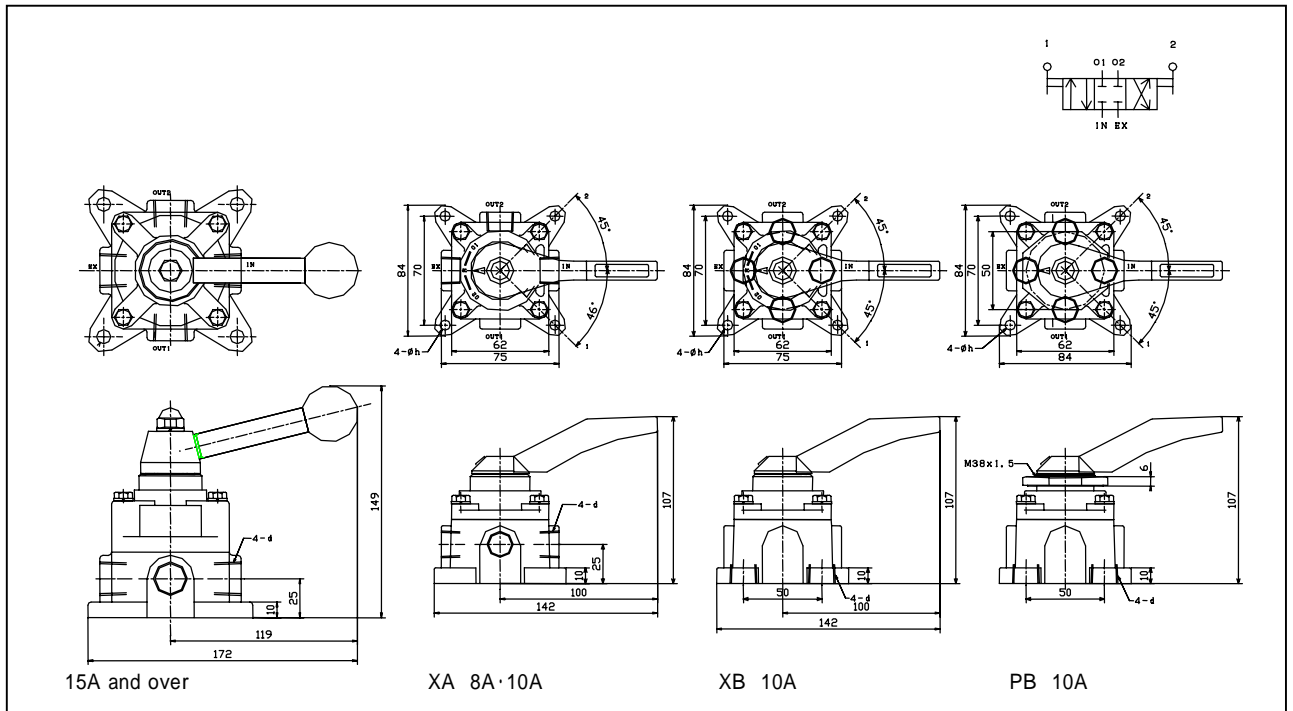


Technical Data

Model		4H41C						
Mounting Style		XA					XB	PB
Port Size		8A	10A	15A	20A	25A	10A	10A
Pipe Size	(Rc)	1/4	3/8	1/2	3/4	1	3/8	3/8
Medium	-	Air						
Working Pressure	(MPa)	0 0.7						
Proof Pressure	(MPa)	1.5						
Ambient Temp.	()	5 - 70						
Effective Area	(mm ²)	20	27	40	140	150	27	27
Weight	(kg)	0.8		5.0		10.0		0.8

Dimensions

Symbol Port	d	F	L1	L	B1	B2	G	T	H1	H	h	R	P
8A	Rc1/4	70	100	142	75	84	62	10	25	107	6.6	45	-
10A	Rc3/8	70	100	142	75	84	62	10	25	107	6.6	45	50
15A	Rc1/2	85	120	172	90	105	75	10	25	149	9.0	45	60
20A	Rc3/8	115	242	311	130	137	97	15	35	211	11.0	60	-
25A	Rc1	115	242	311	130	137	97	15	35	211	11.0	60	-



DRAN TRAP



NH-503J2



NH-5L3

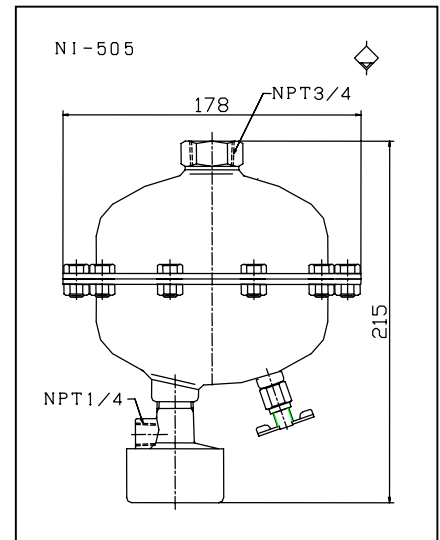
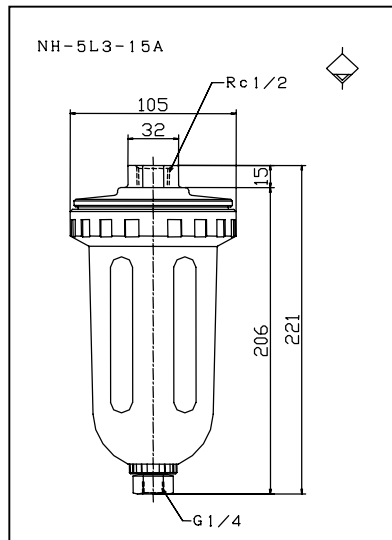
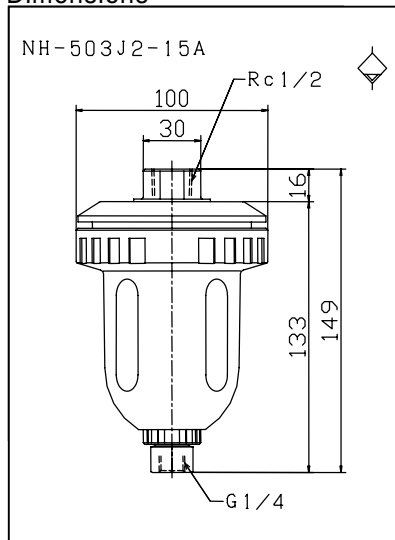


NI-505

Technical Data

Description		Snap Trap	Heavy Drain	Trip-L-Trap
Model		NH-503J2	NH-5L3	NI-505
Port Size		15A		20A
Inlet Pipe Size		Rc1/2		NPT3/4
Outlet Pipe Size		G1/4		NPT1/4
Medium		Air·Drain·Water		
Working Pressure	(MPa)	0.15	1.0	0.07 2.1
Proof Pressure	(MPa)	1.5		3.0
Ambient Temp.	()	5 60		
Discharge per operation	(cm ³)	10	24	250
Weight	(kg)	1.1	1.1	2.8

Dimensions



 **CAUTION FOR SAFETY**

Please read the instruction manual before use for correct handling.
Do not exceed the working pressure and use within the rated voltage.
Make sure that the equipment is completely depressurized before
performing service and maintenance.

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