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Non-Modular Specialty Regulators

Non-Modular Specialty Regulators . . .134-173

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NARJ310 Mini Regulator 136-138

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ARX High Pressure Regulator 154-156

NIR1000~3000 Precision Regulator 157-164

NVBA2100~4200 Booster Regulator 165-169

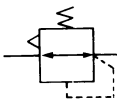
NVBA1100 Booster Regulator 170-173

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Mini Regulator
NARJ210

ANSI Symbol





NARJ210-M5



NARJ210-M5BG

Standard Specifications

Model		NARJ210-M5
Port size	IN side	1/8 (Male thread), 10-32 Nom. [M5 x 0.8 (Female thread)]
	OUT side	10-32 Nom. [M5 x 0.8 (Female thread 2 ports)]
Fluid		Air
Proof pressure psig (MPa)		175 (1.2)
Max. operating pressure psig (MPa)		115 (0.8)
Set pressure range psig (MPa)		30~100 (0.2~0.7)
Pressure gauge port size		10-32 Nom. [M5 x 0.8(Female thread)]
Ambient and fluid temperature		23°~140°F (–5 to 60°C) (No freezing)
Weight lb (kgf)		.13 (0.06)

Accessory (Option) Part Numbers

Bracket	134856
Pressure gauge[1]	K27A-P1.0-N01M

Note[1] If ordering the pressure gauge, M-5N (nipple) is required.

How to Order

NARJ 2 10 — M5 BG — 1

- NARJ: Miniature regulator
- 2: Body size
- 10: Style

Style	
1	Relief (standard)

- M5: Port size

Port size		
M5	IN	1/8 (Male thread) M5 x 0.8(Female thread)
	OUT	M5 x 0.8 (Female thread)

- BG: Accessory

Symbol	Description
—	None
B	Bracket
G	Pressure gauge

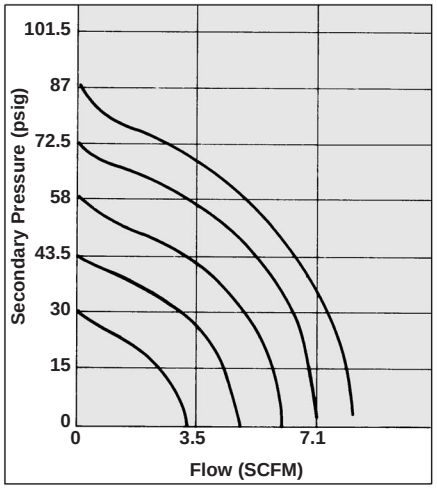
- 1: Option

Option	
1	3~30psig (0.02~0.2MPa) setting

Note) Not a maximum setting. Option 1 is more precise in the range of 3~30psig.

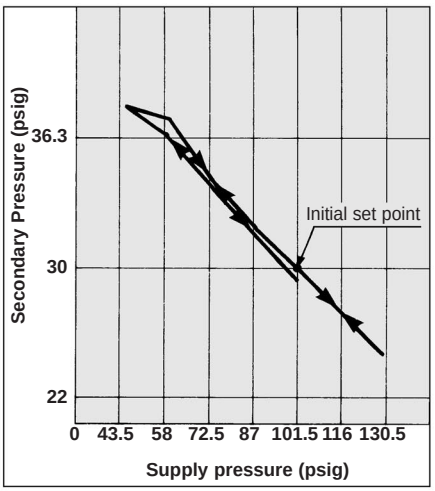
Flow Characteristics

Supply pressure 100psig (0.7MPa)

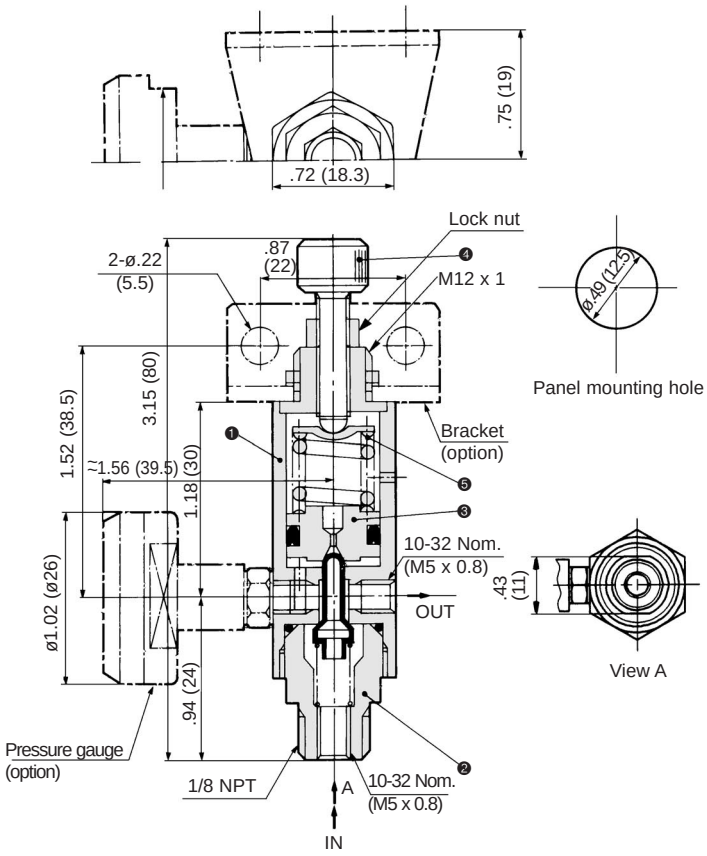


Pressure Characteristics

Initial setting: Supply pressure: 100psig (0.7MPa)
Secondary pressure: 30psig (0.2MPa)
Flow: 0.7SCFM [20l/min(ANR)]



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No.	Description	Material	Note
❶	Body	Aluminum alloy	Black alumite
❷	Valve guide	Brass	Electroless nickel plating
❸	Piston	Brass	
❹	Adjusting screw	Brass	Electroless nickel plating
❺	Adjusting spring	Steel wire	Zinc chromate

Precautions

Be sure to read before handling. Refer to page 6 for Safety Instructions, and precautions common to products mentioned in this volume and refer to pages 7 and 8 for more detailed precautions of every series.

Selection

<Warning>

❶This product cannot be used as a check regulator by installing it between the solenoid valve and the actuator. Doing so could lead to equipment damage or malfunction.

❷ When connecting a pipe to the IN port, hold the valve guide at its wrench flats (not body ❶), and when connecting to the OUT side, hold the body at its hexagon portion and tighten it to the recommended torque. {M5: 13~18 lb•in (1.5~2Nm), NPT 1/8: 62~80 lb•in (7~9Nm)}. Excessive torque or holding it other than at the specified area could lead to equipment damage.

❸When connecting piping to the product or operating the handle, make sure that no bending moment is applied to the product in order to prevent damage.

Mounting/Adjustment

<Warning>

❶Set up the regulator while verifying the pressure that is indicated on the primary and the secondary pressure gauges. Turning the handle excessively could damage the internal parts.

Caution

❶Release the lock to adjust the pressure. After the adjustment, engage the lock.
Failure to observe this procedure could damage the handle or cause the secondary pressure to fluctuate.
〈Lock operating method〉
Loosen the lock nut to unlock it, and tighten it to lock it.

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How to Order

With One-touch fitting

ARJ 3 10 □ 01 BG □

ARJ 3 10 F □ 01 BG 04 □

Port size (IN, OUT)

01	IN	1/8 (male thread), M5 x 0.8 (female thread)
	OUT	1/8 (female thread)

Body size

Model

10	Relieving type

With One-touch fitting

Thread type

Nil	R, Rc
N	NPT

Port size (IN)

01	1/8 (male thread), M5 x 0.8 (female thread)

Accessories

Nil	None
B	Bracket
G	Pressure gauge

Option specifications

Nil	0.7MPa setting (standard)
1	0.2MPa setting
S	With thread sealant

A pressure gauge for 1MPa equipped when "1" (0.2MPa setting) is chosen.

Applicable tube outside diameter (OUT)

Metric size

04	4mm	ARJ310-01
06	6mm	

Inch size

03	5/32"	ARJ310F-N01
07	1/4"	

Model



Model	Port size	
	IN Note)	OUT
ARJ310-01	R 1/8, M5 x 0.8	Rc 1/8
ARJ310-N01	NPT 1/8, M5 x 0.8	NPT 1/8
ARJ310F-01-04	R 1/8, M5 x 0.8	ø4 One-touch fitting
ARJ310F-01-06		ø6 One-touch fitting
ARJ310F-N01-03	NPT 1/8, M5 x 0.8	ø5/32 One-touch fitting
ARJ310F-N01-07		ø1/4 One-touch fitting

Note) M5 x 0.8 female thread is cut inside the pipe.

Standard Specifications

Pressure gauge port size	Rc 1/8, NPT 1/8 (female thread)
Fluid	Air
Proof pressure	1.2MPa
Maximum operating pressure	0.8MPa
Regulating pressure range	Standard: 0.2 to 0.7MPa, Low pressure use (0.2MPa setting): 0.05 to 0.2MPa
Ambient and operating temperature range	–5 to 60°C (with no freezing)
Weight	Approx. 65g

Optional Accessory Part Numbers

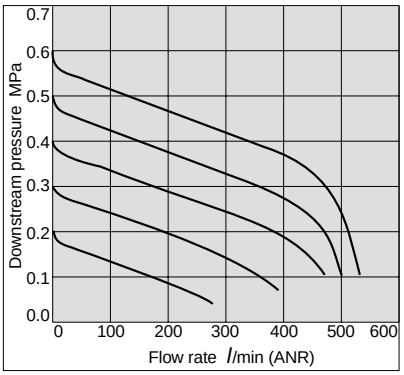
Bracket	134856
Pressure gauge Note)	G15-10-01 (Rc 1/8)/G15-P10-N01(NPT 1/8)

Note) Pressure gauges for 0.2MPa are not available.

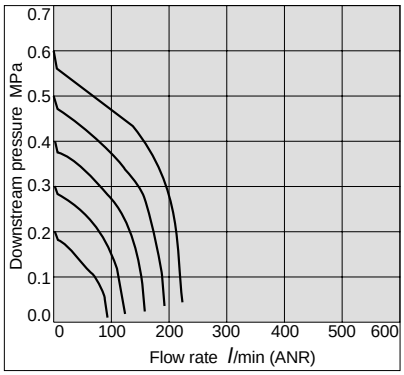
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Flow characteristics Conditions: Upstream pressure 0.7MPa

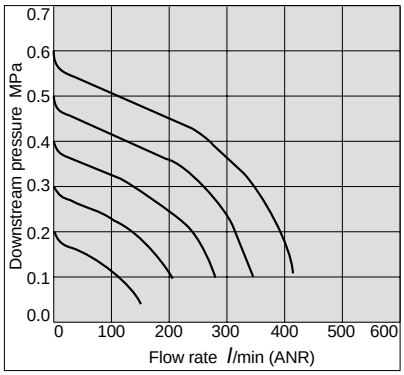
ARJ310-01



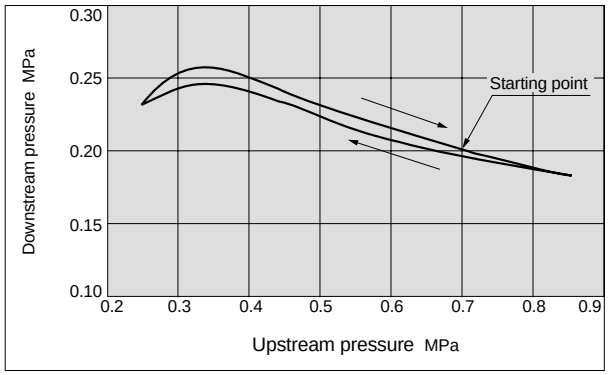
ARJ310F-01-04



ARJ310F-01-06



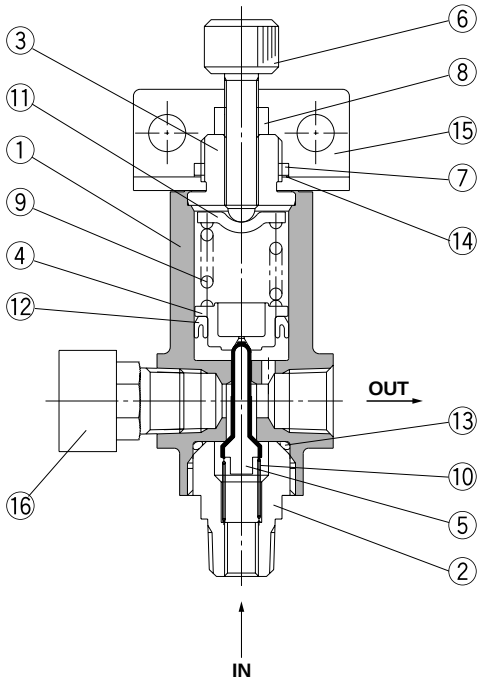
Pressure Characteristics



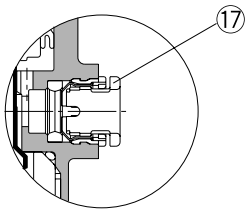
Conditions:
Upstream pressure 0.7MPa
Downstream pressure 0.2MPa
Flow rate Q = 20l/min (ANR)

Construction

ARJ310-01



ARJF310F-01



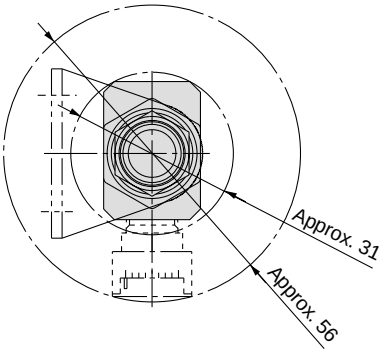
Parts list

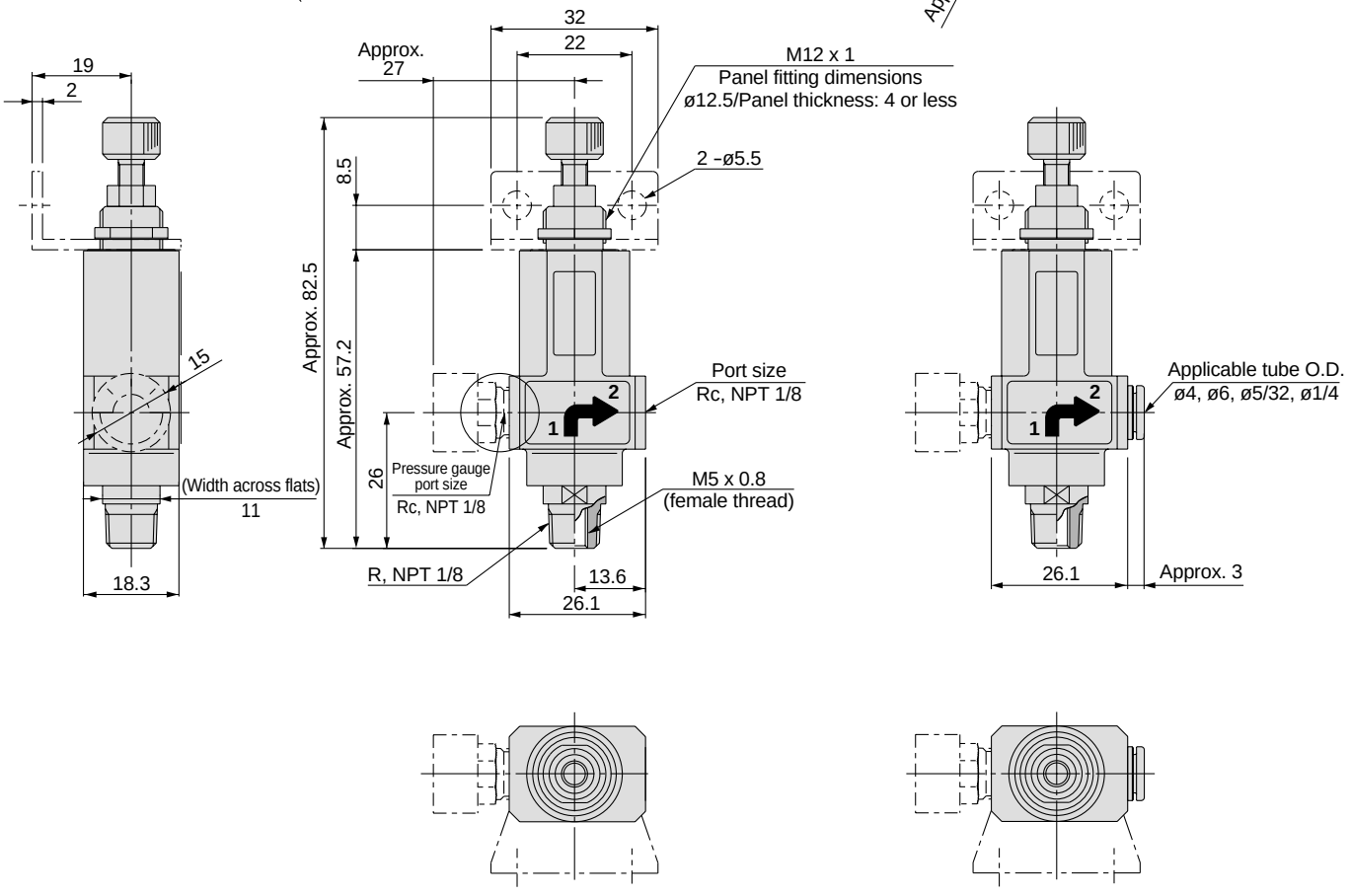
No.	Description	Material	Note	
1	**Body**	Aluminum alloy		
2	**Valve guide**	Brass	Electroless nickel plated	
3	**Bonnet**	Brass	Electroless nickel plated	
4	**Piston**	POM		
5	**Valve**	Brass	Rubber lining material: HNBR	
6	**Adjusting screw**	Brass	Electroless nickel plated	
7	**Panel nut**	Brass	Electroless nickel plated	
8	**Hexagon nut**	Brass	Electroless nickel plated	
9	**Adjusting spring**	Steel wire	Zinc chromated	
10	**Valve spring**	Stainless steel		
11	**Spring holder**	Steel band	Zinc chromated	
12	**Mini Y seal**	NBR		
13	**O-ring**	NBR		
14	**Lock washer**	SS	Electroless nickel plated	
15	**Bracket**	Steel band	Black zinc chromated	Accessory
16	**Pressure gauge**	–		Accessory
17	**Cassette**	POM, Stainless steel		

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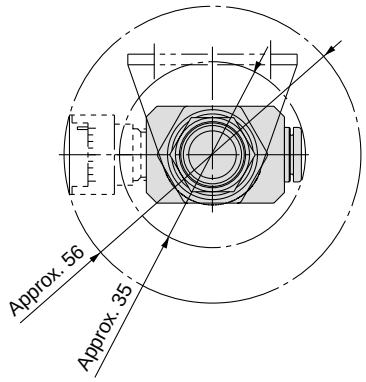
Dimensions

ARJ310-01

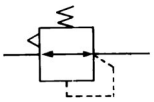




ARJ310F-01



Mini Regulator
NARJ1020F



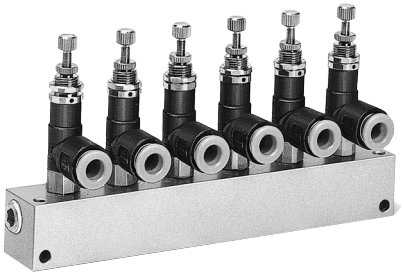


NARJ1020F-M5-04



NARJ1020F-M5-05

Model		NARJ1020F	
Piping	IN (Threaded)	10-32 Nom. (M5)	
	OUT (Tube Size)	ø4mm	ø6mm
Proof Pressure psig (MPa)		175 (1.2)	
Operating Pressure psig (MPa)		115 (0.8)	
Regulating Pressure psig (MPa)		15 ~ 100 (0.1 ~ 0.7)	
Temperature		23~140° F (-5° ~ 60° C)	
Construction		Relieving style	
Weight lbs (kgf)		0.033 (0.015)	0.035 (0.016)
Applicable Tubing		Nylon, Soft Nylon, Polyurethane	
Option			
Manifold Option		NARJM10-4, -6, -10	



NARJM10-6

How To Order

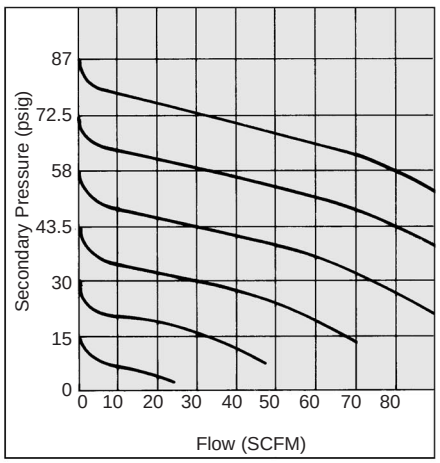
NARJ 10 20 F – M5 – 04 – 1

- **Miniature Regulator**
- **Body size**
  - 10 —— M5
- **Configuration**
  - 20 —— Elbow type
- **w/One Touch Fitting**
- **Thread Size**
  - M5 — M5X0.8
- **Tube O.D.**
  - 04 —— 4mm
  - 06 —— 6mm
- **Option**
  - 1 — 3~30spig (0.02~0.2MPa) setting

Note) Not a maximum setting. Option 1 is more precise in the range of 3~30psig.

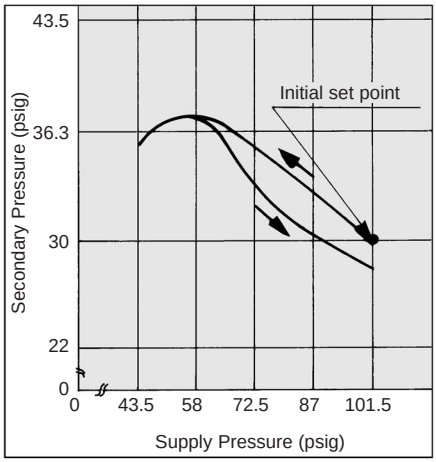
Flow Characteristics

Supply Pressure 100 psig



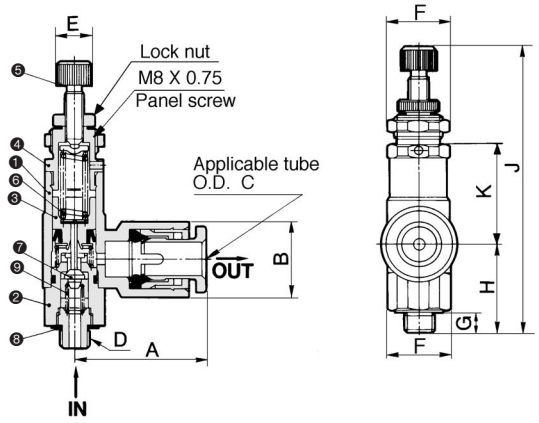
Pressure Characteristics

Supply Pressure 100 psig
Set Pressure 30 psig
Flow Rate .35 SCFM

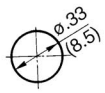


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Panel mounting hole



Tube Insertion and Removal from Self-Seal Fitting

Installing Tube

❶ Cut the tube perpendicularly, taking care not to damage its exterior. (Use tube cutter TK-1. Do not cut the tube with cutting pliers, nippers, scissors, etc.

❷ Grasp the tube, then slowly push it into the One-touch fitting until it comes to a dead-end.

❸ Then pull it back gently to make sure that it does not pull out.

Removing Tube

❶ Push the release collar into the fitting. The collar should be pushed evenly.

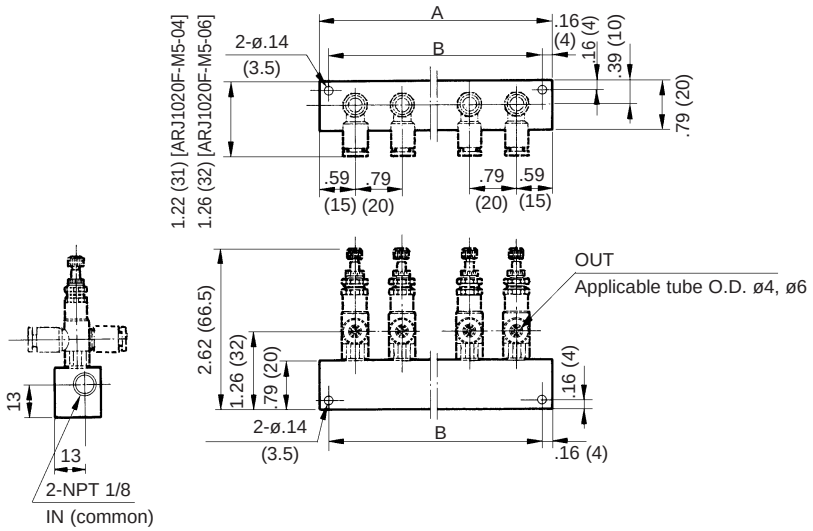
❷ Pull out the tube while pushing the release collar. (Insufficient depression of the release collar results in difficulty pulling-out the tube and may result in damage of the tube.

❸ To re-use the removed tube, cut off any damaged portion of the tube.

Replacement Parts

No.	Part	Material	Part Number
❼	Piston	Brass/NBR	13434
❽	Washer	Stainless/NBR	P233014-04
❾	Spring	Stainless	134313

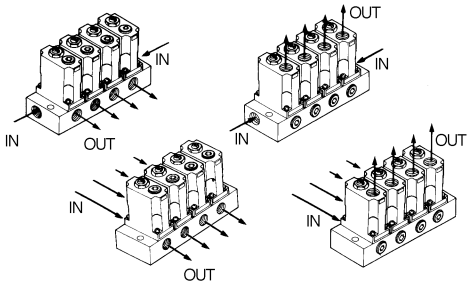
Model	A	B	C	D	E	F	G	H	J	K
NARJ1020F-M5-04	.83 (21)	.41 (10.4)	.16 (4)	M5 x 0.8	.24 (6)	.42 (10.6)	.14 (3.5)	.61 (15.5)	1.97 (50)	.68 (17.2)
NARJ1020F-M5-06	.87 (22)	.50 (12.8)	.24 (6)							



Part No.	No. Stations	A	B
NARJM10-4	4	3.54 (90)	3.23 (82)
NARJM10-6	6	5.12 (130)	4.80 (122)
NARJM10-10	10	8.27 (210)	7.95 (202)

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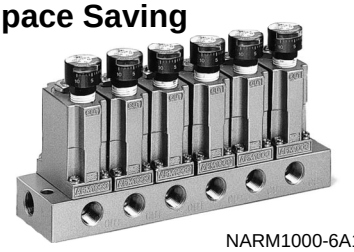
4 Ways of Connection



Small Size Pressure Gauge ø15mm

Reverse flow function available on the standard model

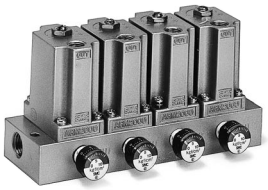
Space Saving



NARM1000-6A1-N01G



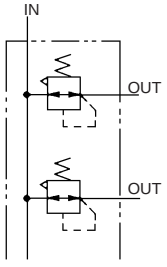
NARM2000-4B2



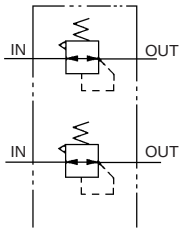
NARM2000-4A2-N01G

Symbol

Common IN



Individual IN



Standard Specifications

Fluid	Air
Proof pressure psig (MPa)	175 (1.2)
Max. operating pressure psig (MPa)	120 (0.8)
Set pressure range psig (MPa)	7~100 (0.05 to 0.7)
Ambient and fluid temperature	23°~140°F (–5 to 60°C) (No freezing)
Fluid	Air
Cracking pressure (Valve) psig (MPa)	3 (0.02)
Construction	Relief style

Port size/Weight

Model	Porting	Port size		Weight lb (g)	
		IN	OUT	Total weight (n: stations)	Regulator (Except manifold)
NARM1000	Common IN	1/8	1/8	(80 X n) + 23	.13 (57)
	Individual IN	1/8	1/8	(79 X n) + 25	
NARM2000	Common IN	1/4	1/8	(188 X n) + 43	.3 (136)
	Individual IN	1/8	1/8	(187 X n) + 45	

How to Order

NARM **1000** – **5** **A1** – **01** **G** – **1**

Regulator for manifold

Body size

1000	
2000	

Number of stations

1	1 station
⋮	⋮
10	10 station

Porting

Symbol	IN	OUT
A1	Common	Manifold side
A2		Body side
B1	Individual	Manifold side
B2		Body side

Note1) In case of A1 and B1, a pressure gauge or a plug is mounted at the body side, while in case of A2 and B2, at the manifold side.
Note2) Pressure gauges mounted in body are oriented so that the 6 o'clock position of the gauge is at the pressure adjusting screw.

Thread

—	Rc(PT)
N	NPT

Port size (OUT side)

01	1/8

Accessory

—	None (with plug)
G	Pressure gauge

Option

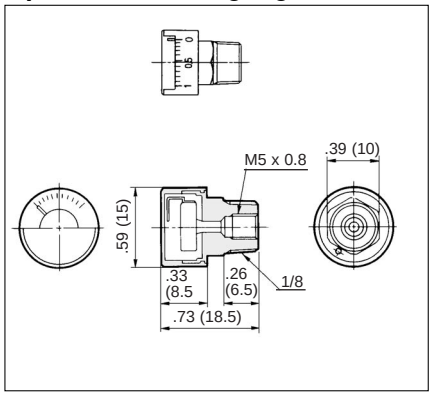
1	Set at 0.2MPa

Note1) Pressure gauge for 1MPa is used.
Note2) Only the adjusting spring is different from the standard model.

Part Name	Model	
	NARM1000	NARM2000
Regulator w/o mfld	NARM1000A	NARM2000A
Pressure gauge	G15-P10-N01	G15-P10-N01
Blanking plate kit (plate, screws, and o-ring)	136114A	136214A
Manifold base, Common IN (A1, A2)	13612-*-N	13622-*-N
Manifold base, Individual IN (B1, B2)	13613-*-N	13623-*-N

* Denotes number of stations: 2~10 available.

Option: Pressure gauge G15-10-01



•Precautions:

How to Order

G15 – P10 – **01**

Units

Nil	MPa
P	PSI

Max. pressure indication

10	150PSI (1.0MPa)

*Pressure gauge for 30psig (0.2MPa) is not available. Please use gauge for 150psi (1.0MPa).

Kind of connecting thread

01	1/8 male thread, M5 female thread

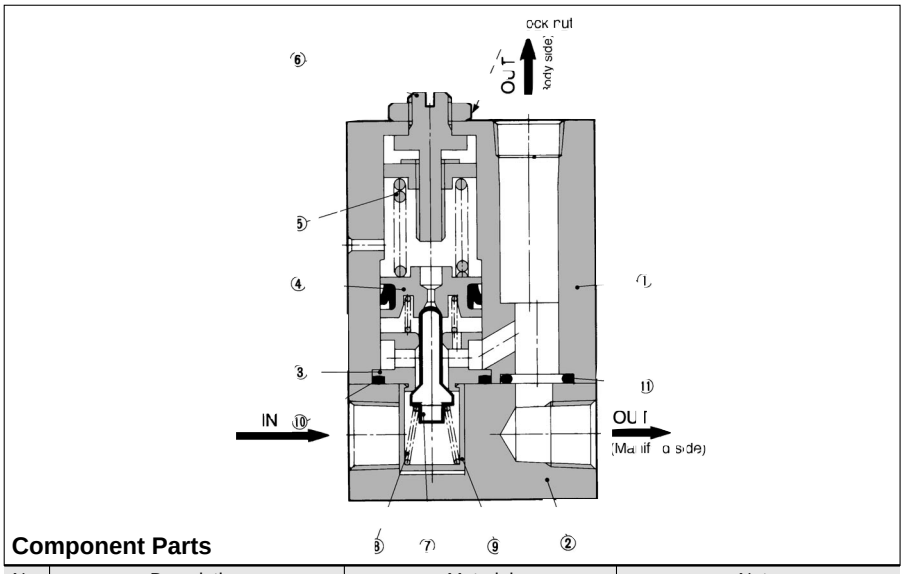
Thread

—	Rc(PT)
N	NPT

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Regulator for Manifold
NARM1000, 2000

Construction (Individual IN)



Component Parts

No.	Description	Material	Note
①	Body	ADC	Chromate
②	Manifold	Aluminum alloy	Chromate
③	Valve guide	Brass	
④	Piston	Brass	
⑤	Adjusting spring	Steel wire	Zinc chromate
⑥	Adjusting screw	Steel	Electroless nickel plating

Replacement Parts

No.	Description	Material	Part no.	
			NARM1000	NARM2000
⑦	Valve	Brass/NBR	134819	13626
⑧	Valve spring	Stainless steel	13615	13625
⑨	Valve retainer	POM	13614	13624
⑩	O-ring	NBR	16.5 x 13.5 x 1.5	23 x 20 x 1.5
⑪	O-ring	NBR	P7	P8

Setting

①Make sure to check the primary pressure before setting the secondary pressure. Turning the pressure adjustment handle clockwise increases the secondary pressure and turning it counterclockwise decreases the pressure. (To set the pressure, do so in the direction of pressure increase.)
②The secondary pressure must be set to 85% or less of the primary pressure.

⚠ Precautions

Be sure to read before handling.
Refer to page 6 for Safety Instructions and precautions common to the products mentioned in this volume and refer to pages 7 and 8 for more detailed precautions of every series.

Mounting/Adjustment

⚠ Warning

①In the case of the common IN type, supply pressure from the two IN ports from both ends. Failure to observe this procedure could lead to an excessive pressure drop.
②Set up the regulator while verifying the pressure that is indicated on the primary and the secondary pressure gauges. Turning the handle excessively could damage the internal parts.

⚠ Caution

①Release the lock to adjust the pressure. After the adjustment, engage the lock. Failure to observe this procedure could damage the handle or cause the secondary pressure to fluctuate.

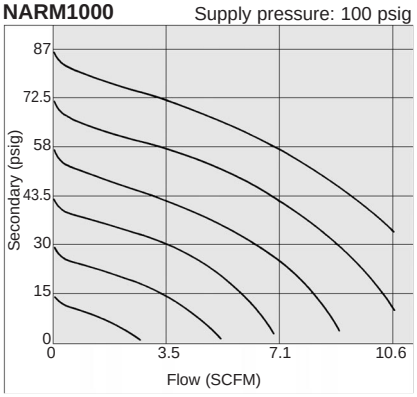
Maintenance

⚠ Warning

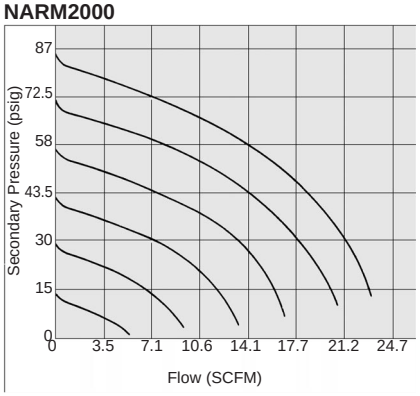
①Make sure to perform a periodic inspection of the pressure gauge when it is used by installing it between a solenoid valve and an actuator, etc.
Because of the possibility of creating sudden pressure fluctuations, the durability of the product could be shortened.
Under certain circumstances, the use of an electronic type pressure gauge is recommended.

Flow Characteristics

NARM1000 Supply pressure: 100 psig



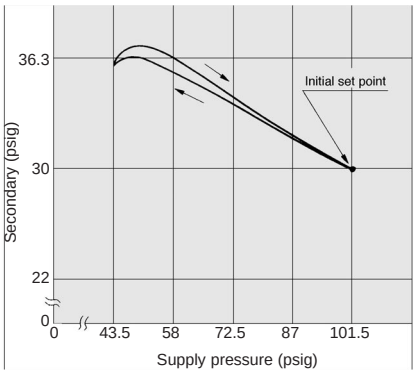
NARM2000



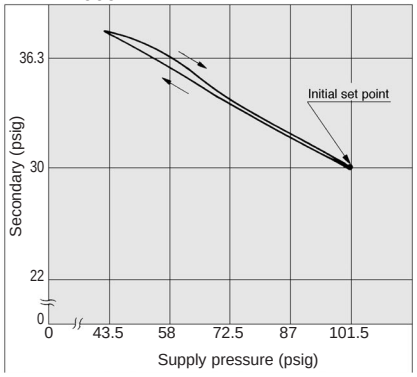
Pressure Characteristics

Initial setting Supply pressure: 0.7MPa{7.1kgf/cm²}
Secondary pressure: 0.2MPa{2.0kgf/c
Flow: .4 SCFM

NARM1000

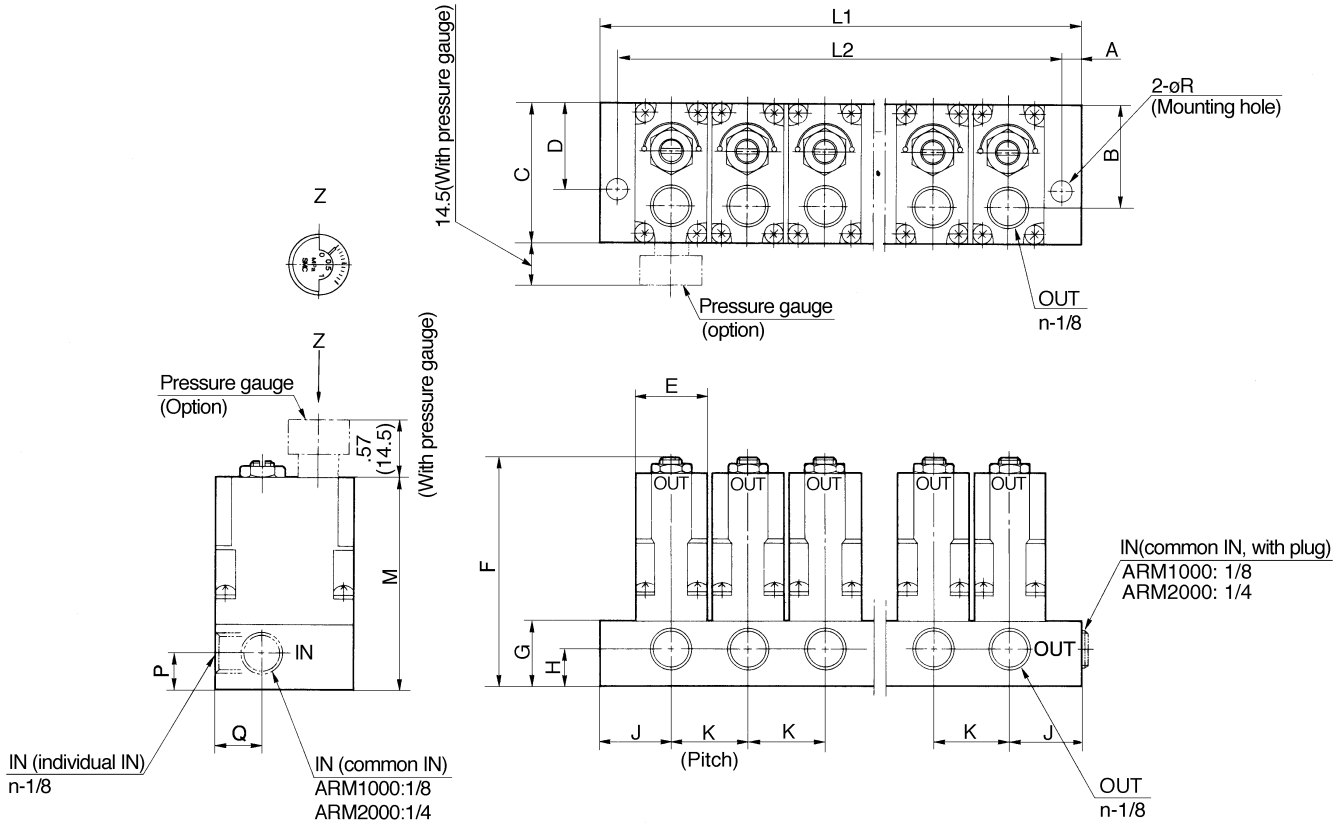


NARM2000



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Dimensions



Dimensions

Model \ Symbol	A	B	C	D	E	F	G	H	J	K	M	P	Q	R
NARM1000	.18 (4.5)	.98 (25)	1.34 (34)	.83 (21)	.71 (18)	2.20 (56)	.63 (16)	.35 (9)	.71 (18)	.75 (19)	2.05 (52)	.35 (9)	.45 (11.5)	.19 (4.8)
NARM2000	.18 (4.5)	1.36 (34.5)	1.69 (43)	1.10 (28)	1.06 (27)	2.76 (70)	.79 (20)	.45 (11.5)	.94 (24)	1.10 (28)	2.60 (66)	.45 (11.5)	.65 (16.5)	.19 (4.8)

Dimensions by number of stations

Model	Symbol	A	C	E	F	G	H	J	K	M	P
NARM1000	L1	1.42 (36)	2.17 (55)	2.91 (74)	3.66 (93)	4.41 (112)	5.16 (131)	5.91 (150)	6.65 (169)	7.40 (188)	8.15 (207)
	L2	1.06 (27)	1.81 (46)	2.56 (65)	3.31 (84)	4.06 (103)	4.80 (122)	5.55 (141)	6.30 (160)	7.05 (179)	7.80 (198)
NARM2000	L1	1.89 (48)	2.99 (76)	4.09 (104)	5.20 (132)	6.30 (160)	7.40 (188)	8.50 (216)	9.61 (244)	10.71 (272)	11.81 (300)
	L2	1.54 (39)	2.64 (67)	3.74 (95)	4.84 (123)	5.94 (151)	7.05 (179)	8.15 (207)	9.25 (235)	10.35 (263)	11.46 (291)

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A modular type that can easily be mounted in a manifold station.

Optimal for central pressure control.

Pressure easily set using the new handle. One-touch lock system.

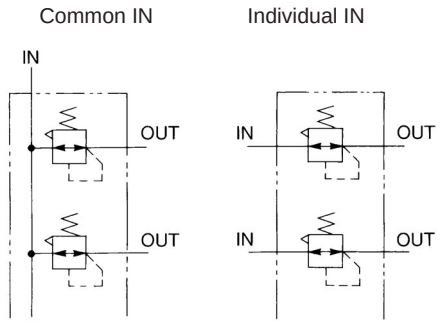


NARM3000



NARM2500

Symbol



How to Order

NARM **2500** — **05** **A** — **02** **G1**

Regulator for manifold

Body size

2500
3000

Number of stations

02	2 stations
⋮	⋮
10	10 stations

Piping

Symbol	Type	IN
A	Common IN	From end plate
B	Individual IN	Below: OUT port or G port

Port size (OUT side)

Symbol	Port size	Applicable model
02	NPT 1/4	NARM2500
03	NPT 3/8	NARM3000

Accessory

—	None (with plug)
G1	K40A-MP1.0-N01M
G2	K40A-MP1.0-N01M

Standard Specifications

Proof pressure psig (MPa)	220 (1.5)
Max. operating pressure psig (MPa)	150 (1.0)
Set pressure range psig (MPa)	7~120 (0.05 to 0.85)
Ambient and fluid temperature	23~140 (–5 to 60°C) (No freezing)
Fluid	Air
Construction	Relief type

Port size/Weight

Model	Piping	Port size NPT			Pressure gauge port size NPT	Weight lb (kg)	
		IN		OUT		Regulator	End plate
		Body	End plate				
NARM2500	Common IN	—	3/8	1/4	1/8	.57 (0.26)	.13 (0.06)
	Individual IN	1/4	—	1/4	1/8		
NARM3000	Common IN	—	1/2	3/8	1/8	1.04 (0.47)	.24 (0.11)
	Individual IN	3/8	—	3/8	1/8		

Weight by number of stations

lb (kg)

Model \ Stations	2	3	4	5	6	7	8	9	10
NARM2500	1.50 (0.68)	2.12 (0.96)	2.71 (1.23)	3.33 (1.51)	3.92 (1.78)	4.54 (2.06)	5.14 (2.33)	5.75 (2.61)	6.37 (2.89)
NARM3000	2.67 (1.25)	3.86 (1.75)	4.96 (2.25)	6.06 (2.75)	7.19 (3.26)	8.29 (3.76)	9.39 (4.26)	10.49 (4.76)	11.6 (5.26)

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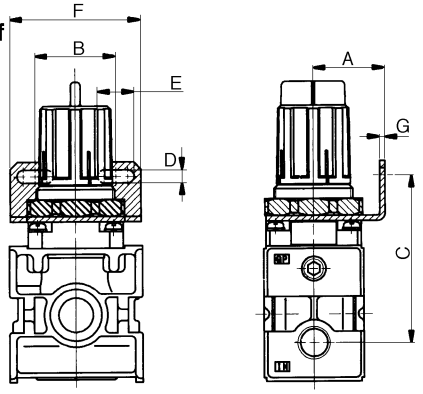
Option: Mounting bolt ass'y

Model	Part no.	Dimensions	Qty.	Note
NARM2500	136313	Hexagon socket head cap screw (M5 x 70)	4	With flat washer
NARM3000	136413	Hexagon socket head cap screw (M6 x 85)	4	With flat washer

Option: Bracket assembly

Individual IN type can be used as a single regulator.

Example of mounting



Model	Part no.	A	B	C	D	E	F	G
NARM2500	136314	1.18 (30)	1.34 (34)	2.76 (70)	.21 (5.4)	.61 (15.4)	2.17 (55)	.09 (2.3)
NARM3000	136414	1.61 (41)	1.57 (40)	2.97 (75.5)	.26 (6.5)	.31 (8)	2.09 (53)	.09 (2.3)

⚠Precautions

Be sure to read before handling.
Refer to page 6 for Safety Instructions and precuations common to the products mentioned in this volume and refer to pages 7 and 8 for more detailed precautions of every series.

Mounting/Adjustment

⚠ Warning

① The adjustment handle must be operated manually. Using a tool to turn the handle could lead to damage.

② Set up the regulator while verifying the pressure that is indicated on the primary and the secondary pressure gauges. Turning the handle excessively could damage the internal parts.

⚠ Caution

① Release the lock to adjust the pressure. After the adjustment, engage the lock. Failure to observe this procedure could damage the handle or cause the secondary pressure to fluctuate.

1) On the NARM2500, pull the adjustment handle to release the lock and push the adjustment handle to engage the lock. If it does not lock easily, turn the handle slightly clockwise or counterclockwise before pushing it.

2) On the NARM3000, pull the adjustment handle to release the lock. (An orange colored line is provided at the bottom of the adjustment handle for visual checking.) Push the adjustment handle to engage the lock. If it does not lock easily, turn the handle slightly clockwise or counterclockwise; then, push it until the orange colored line is no longer visible.

② Turning the pressure adjustment handle clockwise increases the secondary pressure and turning it counterclockwise decreases the pressure.

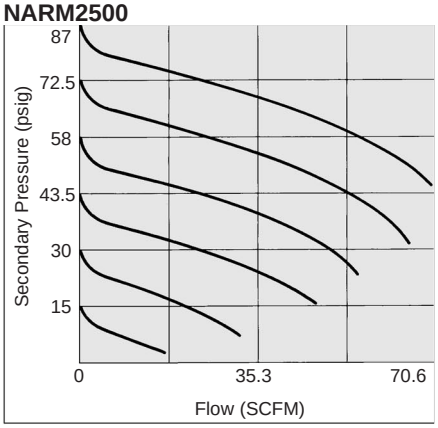
③ Make sure to check the primary pressure before setting the pressure. The secondary pressure must be set to 85% or less of the primary pressure. Failure to observe this procedure could cause the secondary pressure to fluctuate.

④ In the case of the common IN type, supply pressure from the two IN ports from both ends. Failure to observe this procedure could lead to an excessive pressure drop.

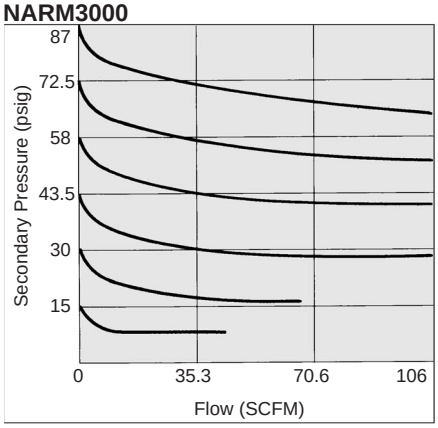
Flow Characteristics

Supply pressure: 100 psig

NARM2500



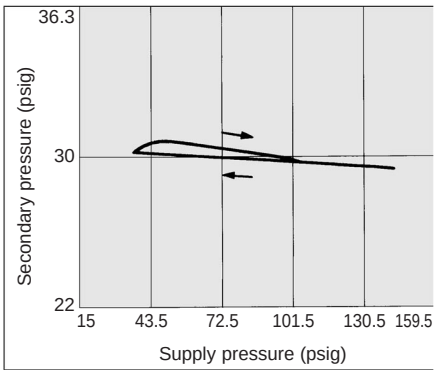
NARM3000



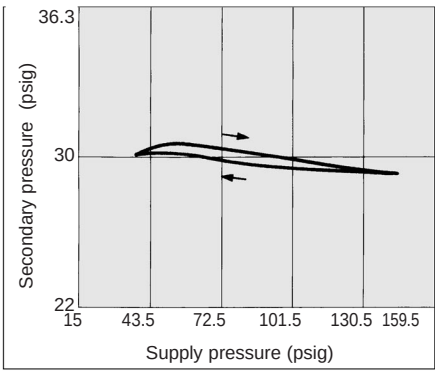
Pressure Characteristics

Supply pressure 100 psig
Secondary pressure 30 psig
Flow rate .7 SCFM

NARM2500

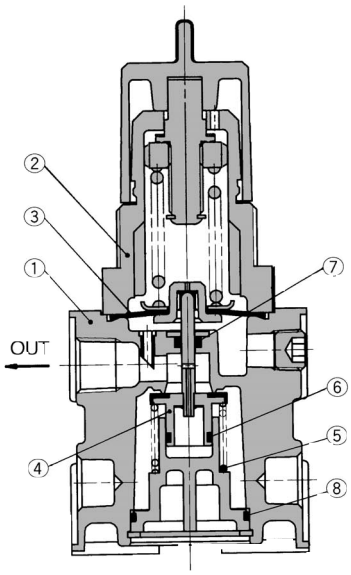


NARM3000

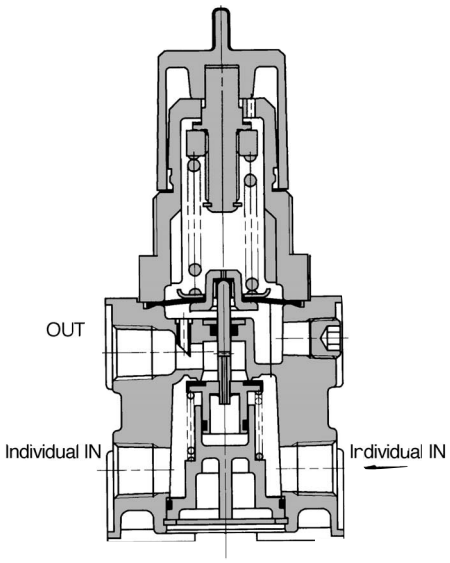


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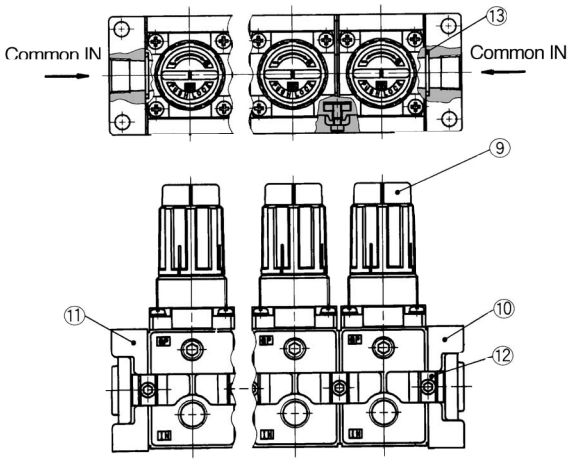
Construction



Common IN



Individual IN



Main Parts

No.	Description	Material	Note
①	Body	Aluminum die casting	Chromate/Platinum silver painting
②	Bonnet	Polyacetal	

Component Parts

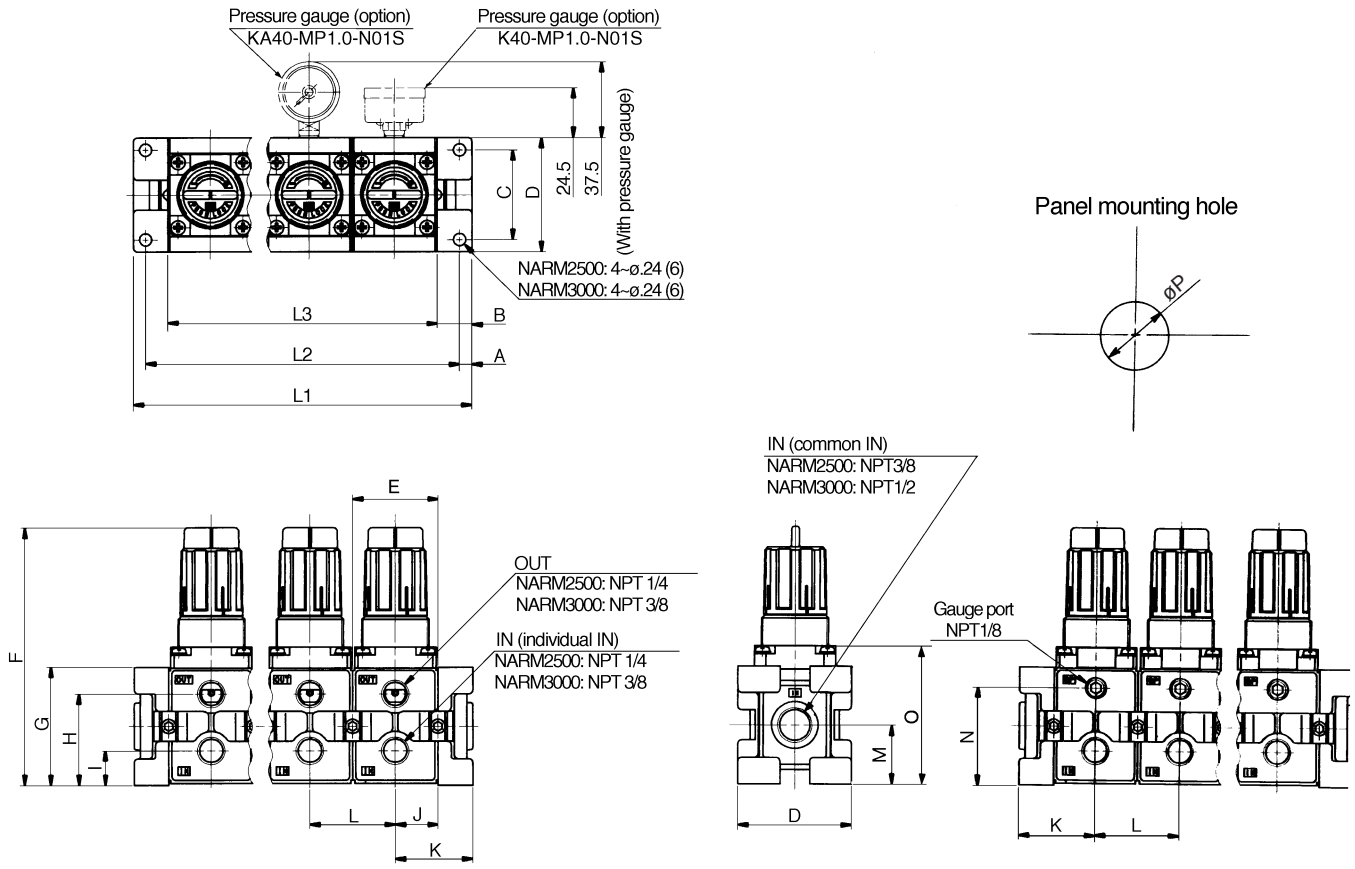
No.	Description	Material	Part no.	
			NARM2500	NARM3000
③	Diaphragm ass'y	NBR	1349161A	131515A
④	Valve ass'y	Brass/NBR	13639A	13649A
⑤	Valve spring	Stainless steel	136310	136410
⑥	Valve O-ring	NBR	11.5 X 8.5 X 1.5	14.5 X 10.5 X 2
⑦	O-ring	NBR	P3	P5
⑧	O-ring	NBR	28 X 25 X 1.5	35 X 31 X 2

Component Parts

Description	No.	Assembly			Part no.			
		Component		Qty.	NARM2500		NARM3000	
					Common IN	Individual IN	Common IN	Individual IN
Regulator	⑨	Regulator		1	NARM2500-A-N02	NARM2500-B-N02	NARM3000-A-N03	NARM3000-B-N03
End plate ass'y	⑩	End plate R		1	13636A	13636B (Except for O-ring)	13646A	13646B (Except for O-ring)
	⑪	End plate L		1				
	⑫	O-ring		1				
	⑬	Bracket	Bracket A	1 set 2				
			Bracket B	2				
			Hexagon socket head cap screw	2				
Bracket ass'y	⑭	O-ring		1	136312		136412	
	⑮	Bracket	Bracket A	1 set 2				
			Bracket B	2				
			Hexagon socket head cap screw	2				

How to Order
(1) When adding n stations to ARM $\frac{2500}{3000}$-＊＊ $\frac{A}{B}$
·Regulator n pcs.
·Bracket ass'y n pcs.
(2) When ordering regulators, end plate assembly and bracket assembly are assembled to make the manifold of n stations.
·Regulator n pcs.
·Bracket ass'y n pcs.
·End plate ass'y 1 pc.

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Dimensions

Model \ Symbol	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
NARM2500	.24 (6)	.67 (17)	1.73 (44)	2.20 (56)	1.65 (42)	4.98 (126.5)	2.28 (58)	1.77 (45)	.67 (17)	.83 (21)	1.50 (38)	1.65 (42)	1.14 (29)	1.89 (48)	2.68 (68)	1.32 (33.5)
NARM3000	.28 (7)	.83 (21)	2.13 (54)	2.68 (968)	2.17 (55)	6.04 (153.5)	2.76 (70)	2.09 (53)	.93 (23.5)	1.08 (27.5)	1.91 (48.5)	2.17 (55)	1.38 (35)	2.32 (59)	3.37 (85.5)	1.67 (42.5)

Dimensions by number of stations

Model	Symbol	2	3	4	5	6	7	8	9	10
NARM2500	L1	4.66 (118)	6.30 (160)	7.95 (202)	9.61 (244)	11.26 (286)	12.91 (328)	14.57 (370)	16.22 (412)	17.87 (454)
	L2	4.17 (106)	5.83 (148)	7.48 (190)	9.13 (232)	10.79 (274)	12.44 (316)	14.09 (358)	15.75 (400)	17.40 (442)
	L3	3.31 (84)	4.96 (126)	6.61 (168)	8.27 (210)	9.92 (252)	11.57 (294)	13.23 (336)	14.88 (378)	16.54 (420)
NARM3000	L1	5.98 (152)	8.15 (207)	10.31 (262)	12.48 (317)	14.65 (372)	16.81 (427)	18.98 (482)	21.14 (537)	23.31 (592)
	L2	5.43 (138)	7.60 (193)	9.76 (248)	11.93 (303)	14.10 (358)	16.26 (413)	18.43 (468)	20.59 (523)	22.76 (578)
	L3	4.33 (110)	6.50 (165)	8.66 (220)	10.83 (275)	12.99 (330)	15.16 (385)	17.32 (440)	19.49 (495)	21.65 (550)

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Specifications

Proof Pressure psig (MPa)	220 (1.5)
Max. Operating Pressure psig (MPa)	150 (1.0)
Relieving Range psig (MPa)	7~120 (0.05 ~0.7)
Temperature Range	23~140° F (-5° ~ 60° C)
Port Size	1/8 NPT - 0.56 Cv 1/4 NPT - 0.78 Cv
Weight lb (kg)	.38 (.17)
Body	ADC

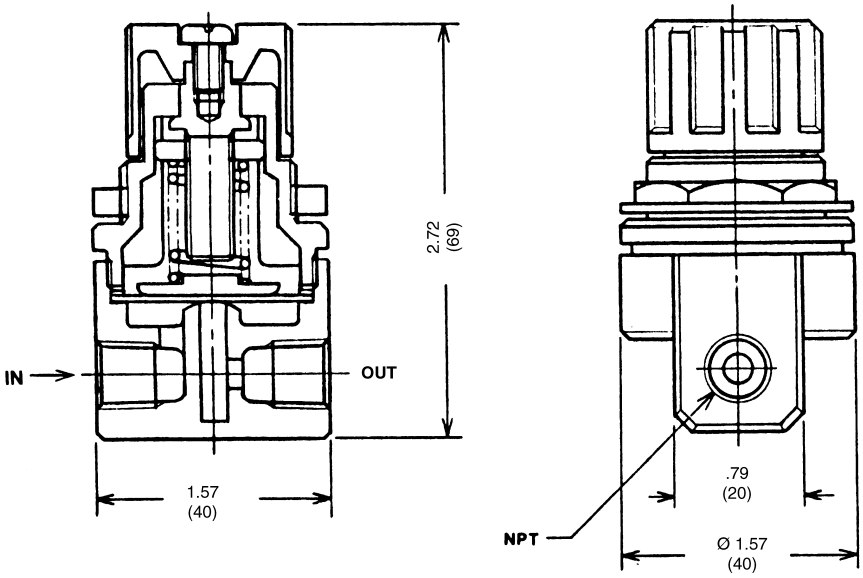
How To Order

NAP **100** – N **01** **B**

Port size
01 —— 1/8
02 —— 1/4

Options
Nil —— None
B —— Bracket (B21-1P)

Dimensions



Light Weight Regulator
NAR111



Specifications

Max. Supply Pressure psig (MPa)	220 (1.5)
Max. Operating Pressure psig (MPa)	150 (1.0)
Regulating Pressure Range psig (MPa)	7~100 (0.05 ~ 0.7)
Temperature Range	23~140°F (-5~60°C)
Port Size: X243	1/8 & 1/4
Port Size: X247	1/8, 1/4 & 1/4 Gauge Port
Weight lbs (kg)	.32 (.10)
Body	ADC

How To Order

NAR111 – N 01 B – 1 – X247

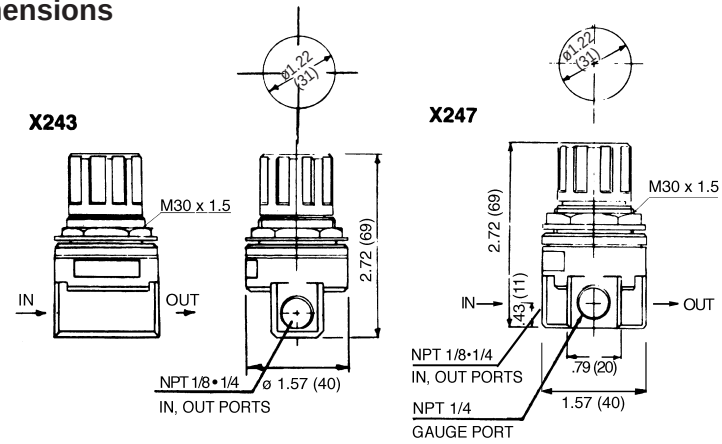
Port size
01 —— 1/8
02 —— 1/4

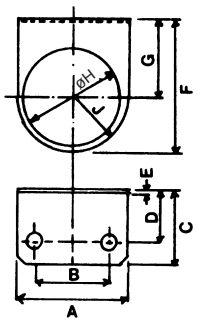
Accessory
Nil —— None
B —— Bracket (B21-1P)
G —— Pressure Gauge

Options
Nil —— None
1* —— 3~30 psig (0.02~0.2MPa) setting
4* —— 3~60 psig (0.02~0.4MPa) setting
*not a maximum setting. Option 1 is more precise in the range of 3~30 psig. Option 4 is more precise in the range of 3~60 psig.

Port Configuration
X243 —— 2 port
X247 —— 3 port

Dimensions





Gauges

Part No.	PSI Range
K50A-MP1.0-N02M	0-160
K50A-MP0.2-N02M	0-30
K50A-MP0.4-N02M	0-60
K50A-MP0.7-N02M	0-100

All above gauges are psig and MPa units

A	B	C	D	E	F	G	H	J
1.69	1.10	1.10	0.79	0.06	2.0	1.18	1.22	0.83
(43)	(28)	(28)	(20)	(1.6)	(51)	(30)	(31)	(21)

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Pressure Regulator
NAR425, 435, 625, 635, 825, 835, 925, 935





Specifications

Model		NAR425	NAR435	NAR625	NAR635	NAR825	NAR835	NAR925	NAR935
Port Size		1/4 • 3/8 • 1/2		3/4 • 1		1 1/4 • 1 1/2		2	
Proof pressure psig (MPa)		220 (1.5)							
Max. operating pressure psig (MPa)		150 (1.0)							
Temperature		23~140° F (-5° ~ 60° C)							
Pressure regulating range psig (MPa)		7-120 (0.05~0.83)	3-30 (0.02~0.2)	7-120 (0.05~0.83)	3-30 (0.02~0.2)	7-120 (0.05~0.83)	3-30 (0.02~0.2)	7-120 (0.05~0.83)	3-30 (0.02~0.2)
Body		ADC, AC2A-F	ADC, AC2A-F	ADC, AC2A-F	ADC, AC2A-F	AC2A-F	AC2A-F	AC2A-F	AC2A-F
Bonnet		ADC							
Chamber		ADC, AC2A-F	ADC, AC2A-F	ADC, AC2A-F	ADC, AC2A-F	AC2A-F	AC2A-F	AC2A-F	AC2A-F
Valve guide		ZDC, AC2A-F	ZDC, AC2A-F	ZDC, AC2A-F	ZDC, AC2A-F	AC2A-F	AC2A-F	AC2A-F	AC2A-F
Weight lbs (kgf)		1.54 (0.7)		2.43 (1.1)		5.51 (2.5)		9.92 (4.5)	
Option	Bracket	B24P		B25P		—		—	
	Gauge	K50A-MP1.0-N02M (0~160 psig) Std. NAR O 25							
		K50A-MP2.0-N02M (0~30 psig) Std. NAR O 35							

How To Order

NAR **4** **25** — **N** **02** **B** — **R**

Body size
- **4** —— 1/2
- **6** —— 1
- **8** —— 11/2
- **9** —— 2

Pressure regulating range
- **25** —— 7~120 psig
- **35** —— 3~30 psig

Pipe size (NPT)
- **02** —— 1/4
- **04** —— 1/2
- **06** —— 3/4
- **10** —— 1
- **12** —— 1 1/4
- **14** —— 1 1/2
- **20** —— 2

Accessory
- **Nil** —— None
- **B** —— Bracket
- **G** —— Gauge

Option
- **Nil** —— None
- **R** —— IN-OUT Reversal (Right➔Left)

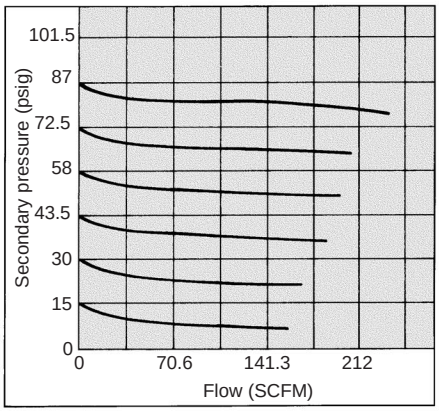
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Flow and Pressure Characteristics
NAR425, 435, 625, 635, 825, 835, 925, 935

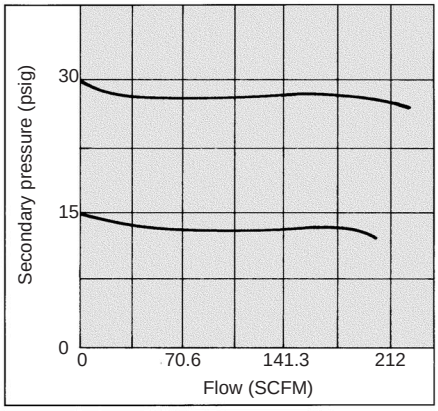
Flow characteristics

Condition: Supply pressure 100 psig

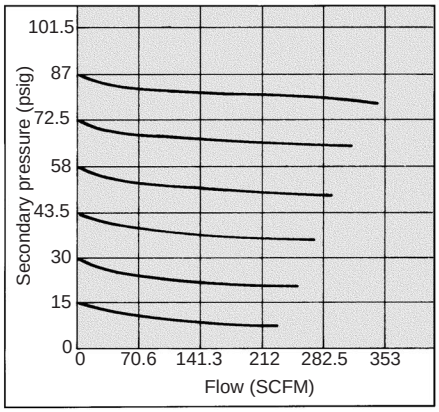
NAR425 NPT 1/2



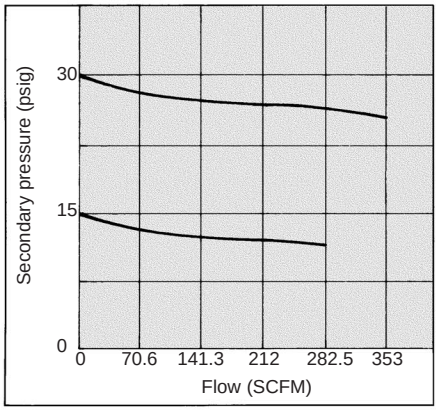
NAR435 NPT 1/2



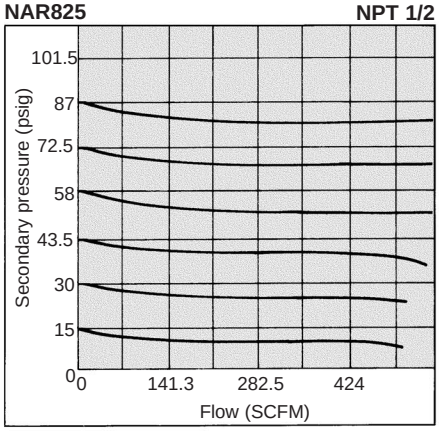
NAR625 NPT 1



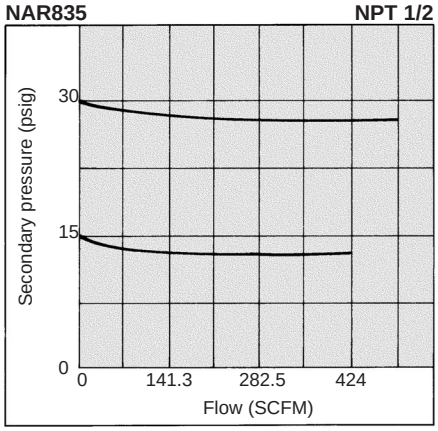
NAR635 NPT 1



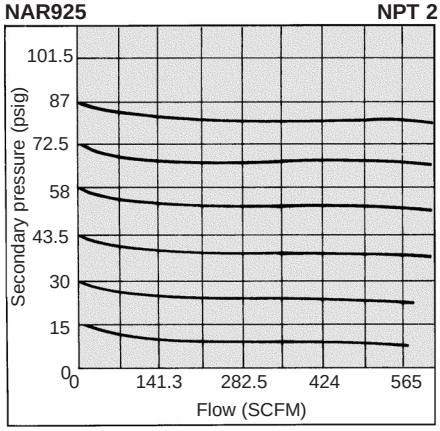
NAR825 NPT 1/2



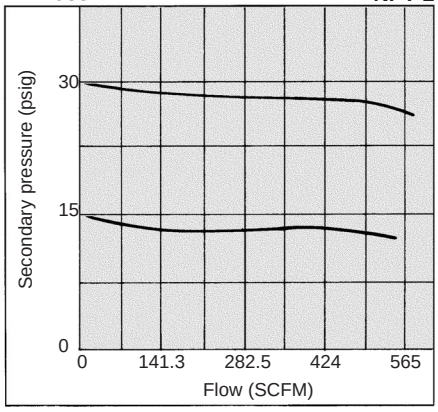
NAR835 NPT 1/2



NAR925 NPT 2



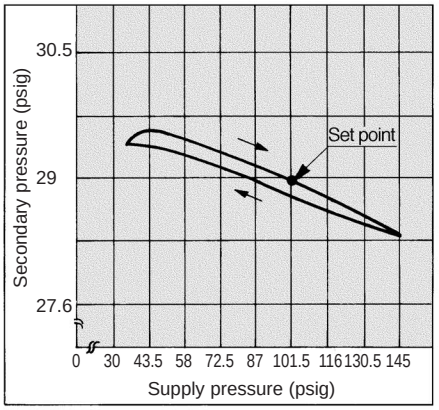
NAR935 NPT 2



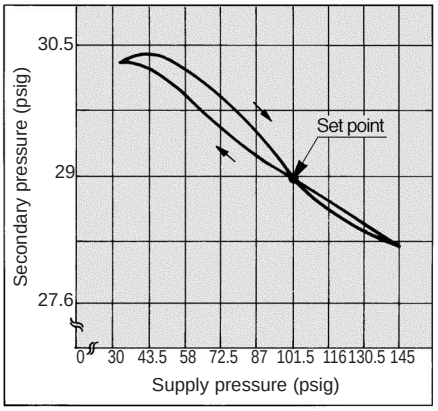
Pressure characteristics

Supply Pressure - 100 psi (0.7 MPa)
Secondary Pressure - 30 psi (0.2 MPa)
Flow - 0.7SCFM (20l/min)

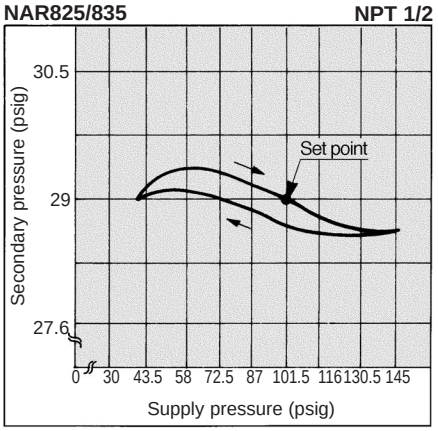
NAR425/435 NPT 1/2



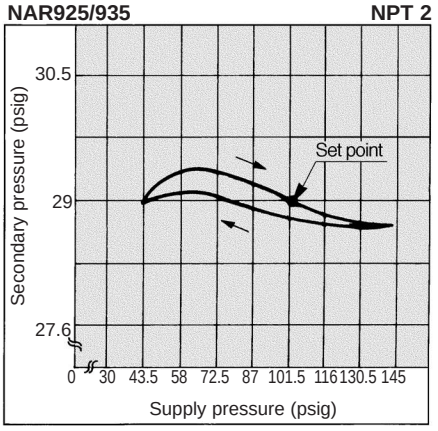
NAR625/635 NPT 1



NAR825/835 NPT 1/2

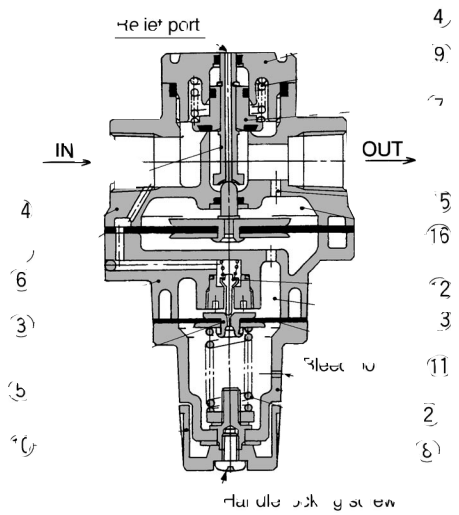


NAR925/935 NPT 2



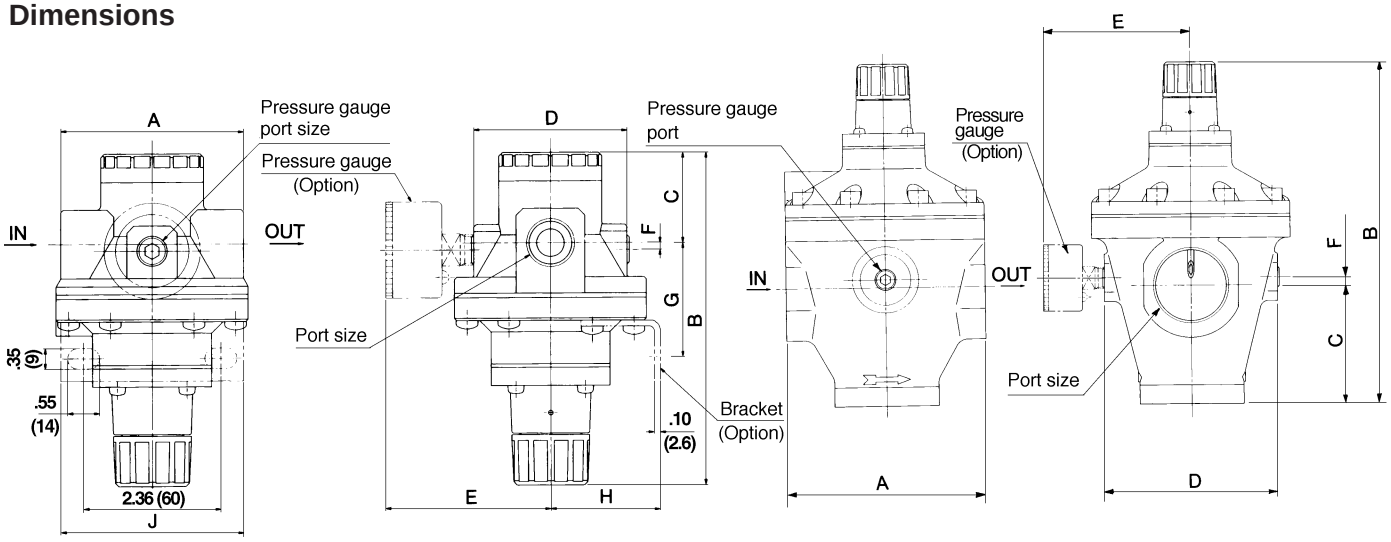
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Construction



No.	Name	Material	Model			
			NAR425•435	NAR625•635	NAR825•835	NAR925•935
⑤	Exhaust valve assembly	—	132586A	132586A	132586A	132586A
⑥	Main valve diaphragm assembly	—	132581A	132659A	13275A	13285A
⑦	Valve assembly	—	132572A	132653A	132752A	132829A
⑧	Regulating spring	SWPB	135053(NAR425) 135025(NAR435)	135053(NAR625) 135025(NAR635)	135053(NAR825) 135025(NAR835)	135053(NAR925) 135025(NAR935)
⑨	Valve spring	SUS304	135211	132656	132713	13289
⑪	Pilot Diaphragm	—	135019-1A	135019-1A	135019-1A	135019-1A
	Repair Kit	—	KT-AR4☐5	KT-AR6☐5	KT-AR8☐5	KT-AR9☐5

Dimensions



Model	A	B	C	D	E	F	Bracket Dimensions		
							G	H	J
NAR425•435	3.15 (80)	5.55 (141)	1.46 (37)	2.64 (67)	3.01 (76.5)	0.12 (3)	1.83 (46.5)	1.89 (48)	3.15 (80)
NAR625•635	3.86 (98)	5.98 (151.9)	1.57 (40)	3.07 (78)	3.23 (82)	0.28 (7)	3.35 (85)	2.05 (52)	3.54 (90)
NAR825•835	4.96 (126)	8.54 (216.9)	2.95 (75)	4.33 (110)	3.86 (98)	0.20 (5)	—	—	—
NAR925•935	6.30 (160)	9.53 (242)	3.50 (89)	5.51 (140)	4.45 (113)	0.39 (10)	—	—	—

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