

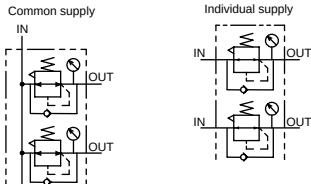
Block manifold regulator

MNRB500 Series

- Port size: Push-in fitting $\varnothing 4$, $\varnothing 6$, $\varnothing 8$



JIS symbol



Specifications

Item	MNRB500A		MNRB500B
Working fluid	Compressed air		
Max. working pressure MPa	0.8 (≈ 120 psi, 8 bar)		
Proof pressure MPa	1.2 (≈ 170 psi, 12 bar)		
Ambient / fluid temperatures $^{\circ}\text{C}$	5 (41°F) to 60 (140°F)		
Set pressure MPa	0.05 (≈ 7.3 psi, 0.5 bar) to 0.7 (≈ 100 psi, 7 bar) (*1)		
Pressure relief	With relief mechanism		
Port size	IN	Push-in fitting $\varnothing 6/\varnothing 8$	Push-in fitting $\varnothing 4/\varnothing 6$
	OUT	Push-in fitting: $\varnothing 4/\varnothing 6$	
	GAUGE	Rc1/8	
Block manifold weight calculation formula (n: station No.) g	89n+126		91n+94

*1: Low pressure specifications are 0.05 to 0.35.

Option weight

* Add to the weight of the standard accessories. n: Station No.

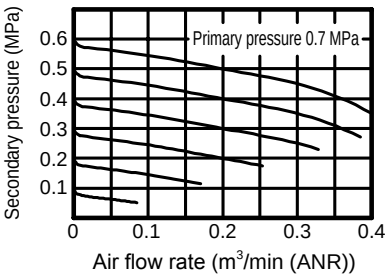
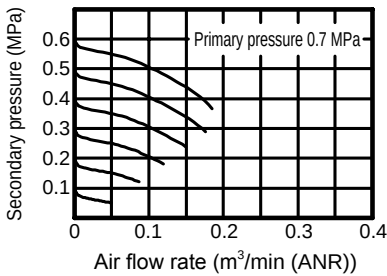
Unit: g

Code	Fitting + port size IN/OUT						Option			
							Pressure range	Pressure gauge		Mounting method
	SS**	SL**	LS**	LL**	S*	L*	L	T	G39	D
MNRB500A	-	6n	2	6n+2			19n	-12n(L:-31n)	19n	-6n-53
MNRB500B					-	12n	19n	-12n(L:-31n)	19n	-6n-49

Flow characteristics

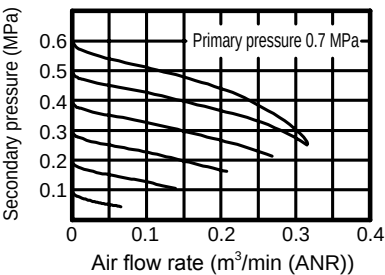
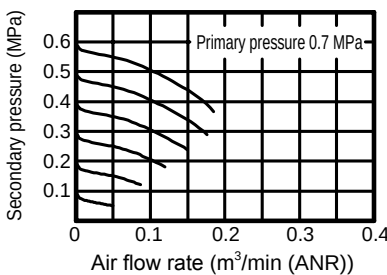
When using 1 station only and 2 stations simultaneously

- MNRB500A-SSC64
- MNRB500B-SSC4
- MNRB500A-SSC86
- MNRB500B-SSC6



When using 3 stations simultaneously

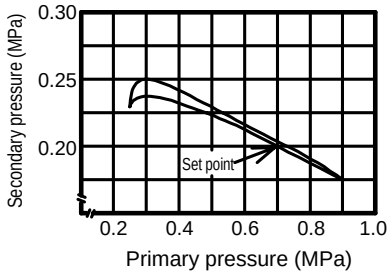
- MNRB500A-SSC64
- MNRB500A-SSC86



*1: For the common supply, the primary pressure will become insufficient when using multiple stations simultaneously. Install 1 air supply block per three stations. Use an air supply port larger than OUT bore size.

*2: The characteristics for using three stations simultaneously represent the characteristics for the remaining station when the working flow for two of the three stations is 200 t/min.

Pressure characteristics



How to order

MNRB500A - SSC64 - 5 - NG39 - D

A Model No.
*1

B Fitting

C Port size

D Station No.
*2

E Option
*3

F Mounting method

Code		Description	
A Model No.			
MNRB500A	Common supply		
MNRB500B	Individual supply		
B Fitting			
IN direction			
S	Straight		
L	Elbow		
OUT direction			
S	Straight		
L	Elbow		
C Port size IN/OUT			
		MNRB500A	MNRB500B
C64	IN; ø6, OUT; ø4	●	
C66	IN; ø6, OUT; ø6	●	
C84	IN; ø8, OUT; ø4	●	
C86	IN; ø8, OUT; ø6	●	
C4	IN, OUT; ø4		●
C6	IN, OUT; ø6		●
D Station No.			
1	1 station		
2	2 stations		
:	:		
10	10 stations		
E Option			
		MNRB500A	MNRB500B
Pressure range	Blank	0.05 to 0.7 MPa (Press.gauge: G29D-6-P10)	
	L	0.05 to 0.35 MPa (Press.gauge: G39D-6-P04)	
Pressure relief	Blank	Relief	
	N	Non-relief	
Pressure gauge *4	Blank	With pressure gauge	
	T	No pressure gauge (gauge port Rc1/8)	
	G39	With pressure gauge (G39D-6-P10)	
Flow direction	Blank	Standard flow (left → right)	●
	X1	Reverse flow (right → left)	●
F Mounting method			
Blank	DIN rail mount		
D	Direct mount		

⚠ Precautions for model No. selection

*1 : The air supply block is one station.

When using three or more stations simultaneously with the common supply, increase one supply block station for every three stations.

Designate with mix manifold specifications sheet.

*2 : Up to five direct mounting stations can be used.

*3 : Options and pressure gauges for each regulator block are the same.

*4 : ø21 0 to 1.0 MPa pressure gauge is standard.

For low pressure, ø27 0 to 0.4 MPa low-pressure gauge is provided.

*5 : When other than basic model specifications, ask CKD to issue the mix manifold specifications sheet on page 405.

Ozone-proof specifications (Ending Page 15)

MNRB500* - - P11

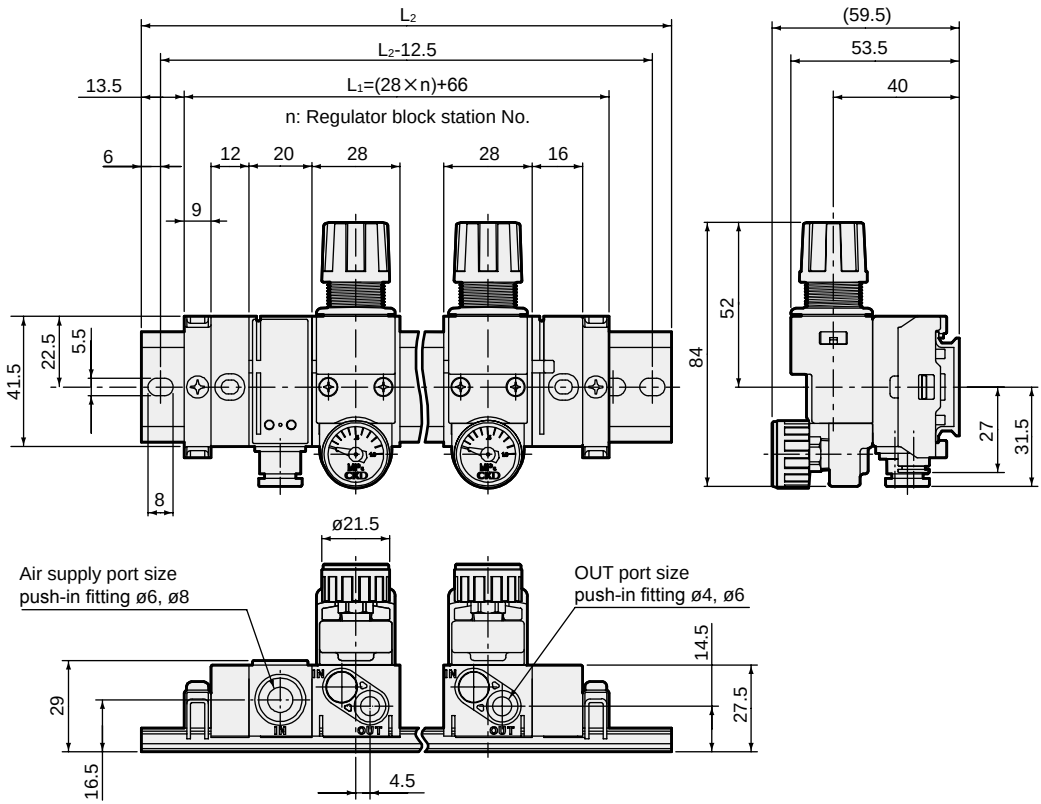
F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
Mech Press SW
Res press exh valve
SlowStart
Anti-bac/Bac-remove Filtr
Film Resist FR
Oil-ProhR
Med Press FR
No Cu/ PTFE FRL
Outdrs FRL
Adapter Joiner Press Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/ other
Fit/Tube
Nozzle
Air Unit
PrecsCompn
Electro Press SW
ContactSW
AirSens
PresSW Cool
Air Flo Sens/Ctrl
WaterRISens
TotAirSys (Total Air)
TotAirSys (Gamma)
Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending

MNRB500 Series



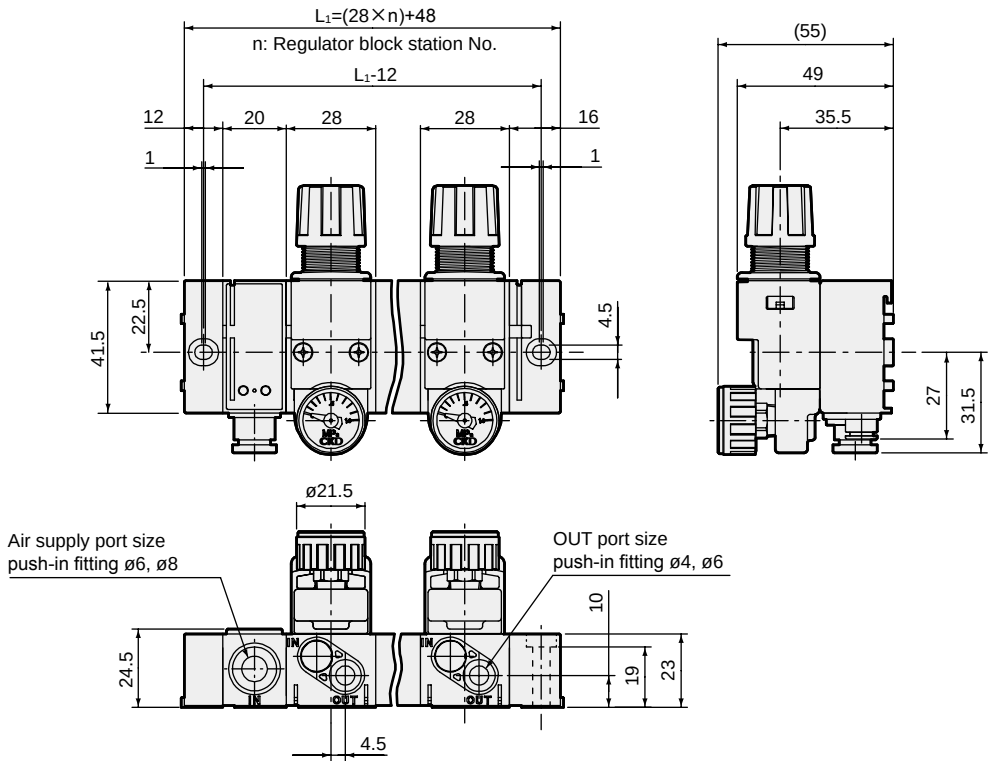
Dimensions

- Common supply DIN rail mount
MNRB500A-**-C**-*



Station No.	L_2 dimension
1	125
2	150
3	175
4	212.5
5	237.5
6	262.5
7	287.5
8	325
9	350
10	375

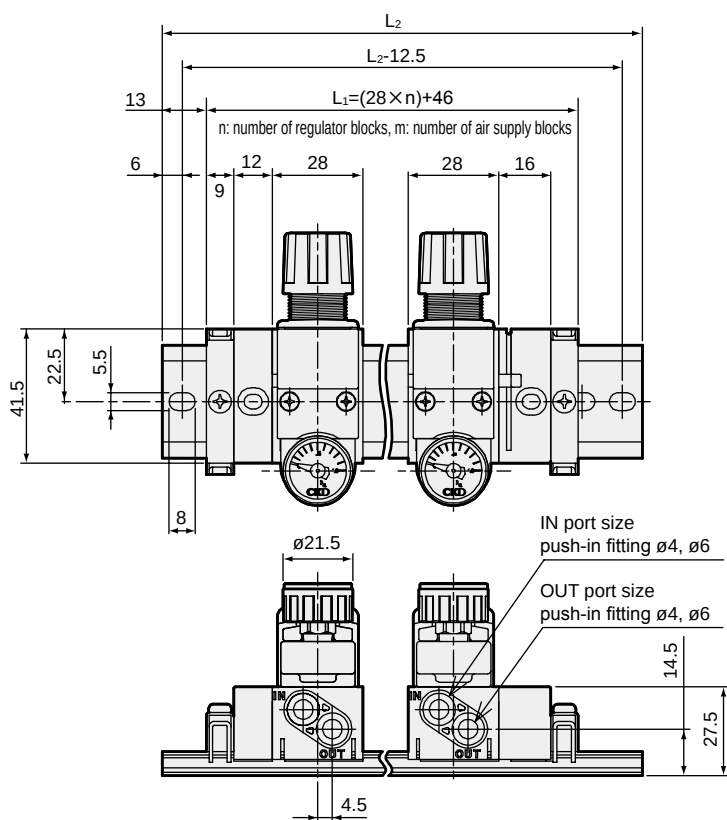
- Common supply direct mount
MNRB500A-**-C**-*-D



Dimensions

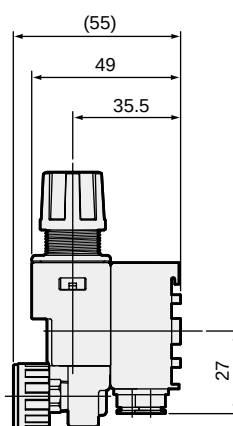
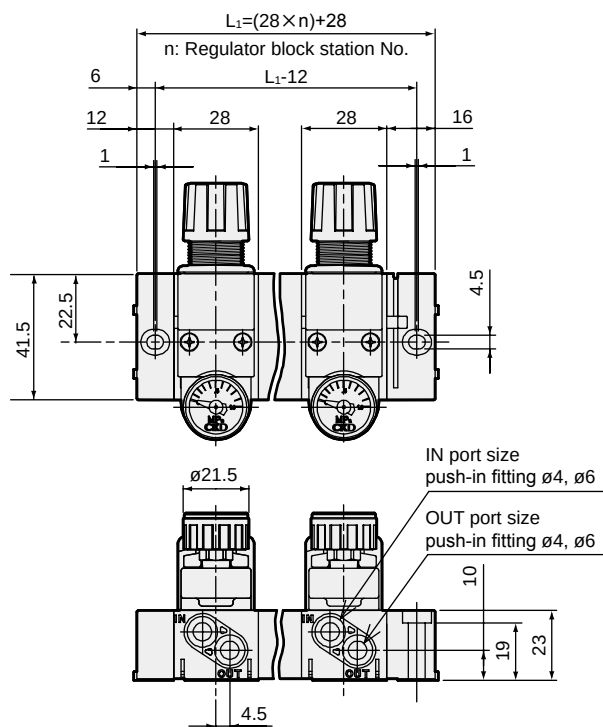


- Individual supply DIN rail mount
MNRB500B-** C *-*



Station No.	L ₂ dimension
1	100
2	137.5
3	162.5
4	187.5
5	212.5
6	250
7	275
8	300
9	325
10	362.5

- Individual supply direct mount
MNRB500B-** C *-*-D

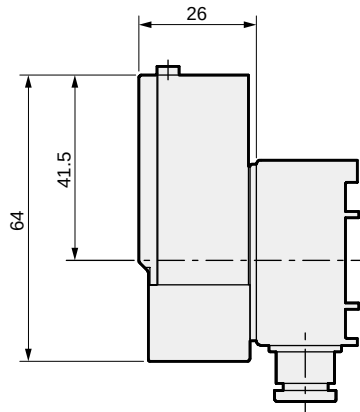


F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
Mech Press SW
Res press exh valve
SlowStart
Anti-bac/Bac- remove Filt
Film Resist FR
Oil-ProhR
Med Press FR
No Cu/ PTFE FRL
Outdrs FRL
Adapter Joiner
Press Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/ other
Fit/Tube
Nozzle
Air Unit
PrecsCompn
Electro Press SW
ContactSW
AirSens
PresSW Cool
Air Flo Sens/Ctrl
WaterRtSens
TotAirSys (Total Air)
TotAirSys (Gamma)
Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending

Pressure switch/push-in fitting elbow dimensions

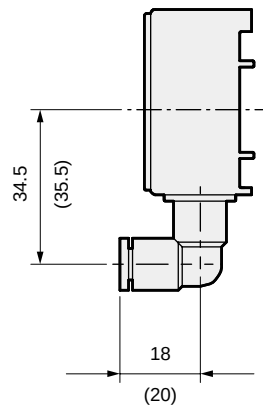
- Air supply block with pressure gauge
NRB500-APS-*C*

Pressure switch APS is integrated into the air supply block. Primary pressure can be controlled.



- Air supply block
Push-in fitting elbow
NRB500-NP-LC*

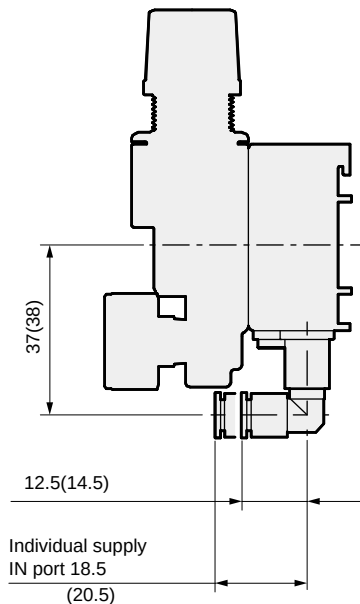
Front or rear piping is possible with air supply port and elbow fitting.



Dimension in () is for C8

- Regulator block
Push-in fitting elbow
NRB500*-*C*

Front or rear piping is possible with IN and OUT ports and elbow fitting.



Dimension in () is for C6

F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
Mech Press SW
Res press exh valve
SlowStart
Anti-bac/Bac- remove Filtr
Film Resist FR
Oil-ProhR
Med Press FR
No Cu/ PTFE FRL
Outdrs FRL
Adapter Joiner
Press Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/ other
Fit/Tube
Nozzle
Air Unit
PrecsCompn
Electro Press SW
ContactSW
AirSens
PresSW Cool
Air Flo Sens/Ctrl
WaterRtSens
TotAirSys (Total Air)
TotAirSys (Gamma)
Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending

MNRB500 Series

F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain
Separ
Mech
Press SW
Res press
exh valve
SlowStart
Anti-bac/Bac-
remove Filt
Film
Resist FR
Oil-ProhR
Med
Press FR
No Cu/
PTFE FRL
Outdrs FRL
Adapter
Joiner
Press
Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/
other
Fit/Tube
Nozzle
Air Unit
PrecsCompn
Electro
Press SW
ContactSW
AirSens
PresSW
Cool
Air Flo
Sens/Ctrl
WaterRtSens
TotAirSys
(Total Air)
TotAirSys
(Gamma)
Gas
generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg
etc
Ending

Regulator block

How to order

NRB500B - SSC4U - NG39

A Model No.

B Connection

C Option

Code		Description	
A Model No.			
NRB500A		Common supply	
NRB500B		Individual supply	
B Connection			
Direction	*1	S	Straight
	IN	L	Elbow
	OUT	S	Straight
		L	Elbow
Bore size	IN-	C4	ø4
	OUT	C6	ø6
OUT side piping		Blank	IN/OUT bottom piping
		U *2	OUT side top piping
C Option			
Pressure range	Blank	0.05 to 0.7 MPa (Pressure gauge: G29D-6-P10)	
	L	0.05 to 0.35 MPa (Pressure gauge: G39D-6-P04)	
Pressure relief	Blank	Relief	
	N	Non-relief	
Pressure gauge *3	Blank	With pressure gauge	
	T	No pressure gauge (gauge port Rc1/8)	
	G39	With pressure gauge (G39D-6-P10)	

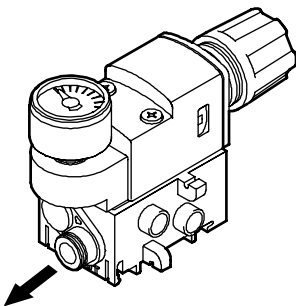
⚠ Precautions for model No. selection

*1: For common supply, IN port connection is not required.

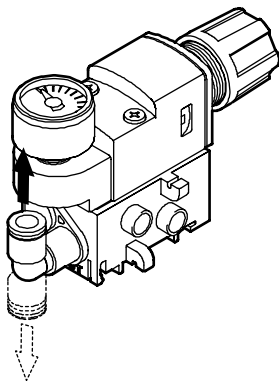
*2: Applicable only for straight.

*3: ø21 0 to 1.0 MPa pressure gauge is standard. For low pressure, ø27 0 to 0.4 MPa low pressure gauge is provided.

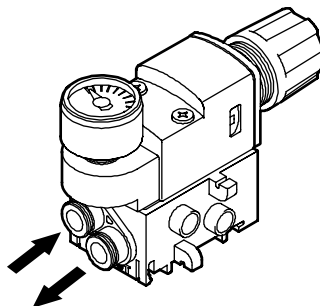
- Common supply straight
Downward piping is possible by using an OUT port and straight fitting.



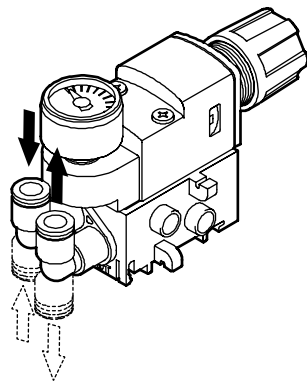
- Common supply elbow
Front or rear piping is possible by OUT port and elbow fitting.



- Individual supply straight
Front or rear piping is possible by using IN and OUT ports and straight fitting.



- Individual supply elbow
Front or rear piping is possible with IN and OUT ports and elbow fitting.



Sub-base

How to order

NRB500A - NS - SSC4 MP

A Model No.

B Connection

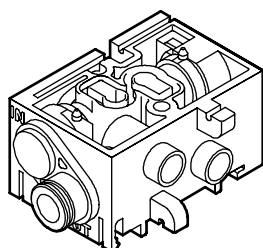
C Option

⚠ Precautions for model No. selection

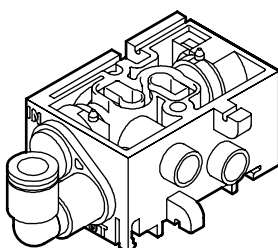
*1: For common supply, IN port connection is not required.

*2: Only for straight.

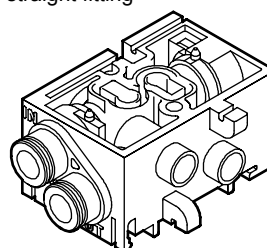
- Straight for common supply OUT port with straight fitting



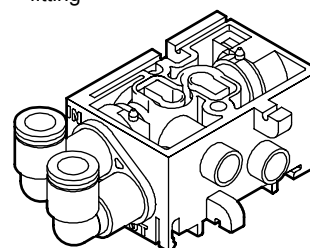
- Elbow for common supply OUT port with elbow fitting



- Straight for individual supply IN and OUT ports with straight fitting



- Elbow for individual supply IN and OUT ports with elbow fitting



Code		Description
A Model No.		
NRB500A		Common supply
NRB500B		Individual supply
B Connection		
Direction	*1 IN	S Straight
		L Elbow
	OUT	S Straight
		L Elbow
Bore size	IN-	C4 ø4
	OUT	C6 ø6
OUT side piping	Blank	IN/OUT side bottom piping
	U *2	OUT side top piping
C Option		
T		No pressure gauge
Blank		No masking plate
MP		With masking plate

Regulator body

How to order

RB500 - 00 S - NG39

A Connection

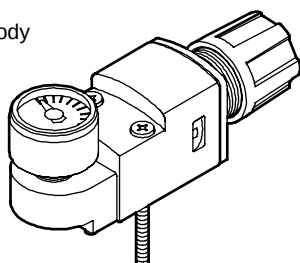
B Option

⚠ Precautions for model No. selection

*1: Indicate option code "P" for panel mounting.

*2: ø21.0 to 1.0 MPa pressure gauge is standard. For low pressure, ø27.0 to 0.4 MPa low pressure gauge is provided.

- Regulator body



Code		Description
A Connection		
S		Discrete (RB500)
M		Manifold (for MNRB500A,B)
B Option		
Panel mounting	Blank	Without nut
	P	With nut
Pressure range	Blank	0.05 to 0.7 MPa (Pressure gauge: G29D-6-P10)
	L	0.05 to 0.35 MPa (Pressure gauge: G39D-6-P04)
Pressure relief	Blank	Relief
	N	Non-relief
Pressure gauge	Blank	With pressure gauge
	T	No pressure gauge (gauge port Rc1/8)
	G39	With pressure gauge (G39D-6-P10)

MNRB500 Series

F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain
Separ
Mech
Press SW
Res press
exh valve
SlowStart
Anti-bac/Bac-
remove Filtr
Film
Resist FR
Oil-ProhR
Med
Press FR
No Cu/
PTFE FRL
Outdrs FRL
Adapter
Joiner
Press
Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneR
AirBoost
Speed Ctrl
Silncr
CheckV/
other
Fit/Tube
Nozzle
Air Unit
PrecsCompn
Electro
Press SW
ContactSW
AirSens
PresSW
Cool
Air Flo
Sens/Ctrl
WaterRtSens
TotAirSys
(Total Air)
TotAirSys
(Gamma)
Gas
generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg
etc
Ending

Common supply block

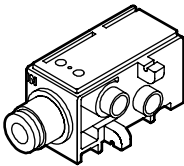
How to order

NRB500-NP - SC6

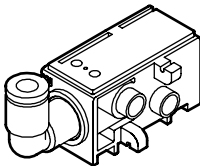
A Connection

Code		Description
A Connection		
Direction	S	Straight
	L	Elbow
Bore size	C6	ø6
	C8	ø8

● Straight
Air supply port with straight fitting



● Elbow
Air supply port with elbow fitting



Common supply block with pressure switch

How to order

NRB500-APS - SC6 - 3

A Connection

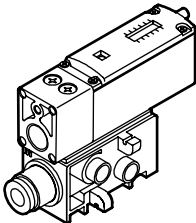
B Lead wire length

Code		Description
A Connection		
Direction	S	Straight
	L	Elbow
Bore size	C6	ø6
	C8	ø8
B Lead wire length		
Blank		1 m
3		3 m
5		5 m

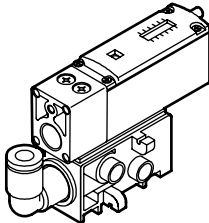
⚠ Precautions for model No. selection

*1: Submit the mix manifold specifications sheet on page 405 when using the common supply block with pressure switch.

● Straight
Air supply port with straight fitting



● Elbow
Air supply port with elbow fitting



End block

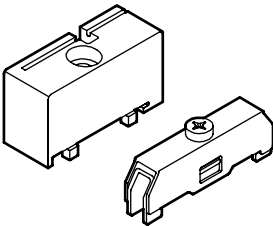
How to order

NRB500-NE **D**

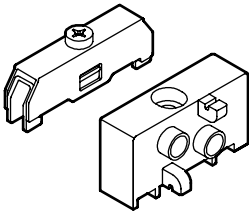
A Connection

Code	Description
A Connection	
Blank	End block R for DIN rail (right)
L	End block L for DIN rail (left)
D	Direct end block R
DL	Direct end block L

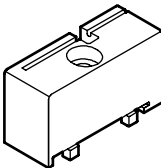
● End block R for DIN rail



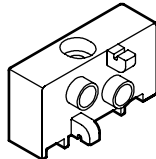
● End block L for DIN rail



● Direct end block R



● Direct end block L



End blocks R and L are required for manifold configuration.
For DIN rail, use end blocks R and L with DIN rail bracket.

DIN rail

How to order

NRB500-BAA **150**

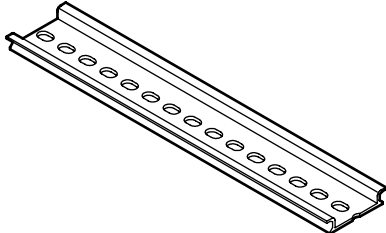
A DIN rail dimensions
*1

⚠ Precautions for model No. selection

*1: For the DIN rail dimensions, refer to the mix manifold specifications preparation methods, the DIN rail length and manifold dimensions and indicate with mm units.

Code	Description
A DIN rail dimensions	
125	125 mm
150	150 mm
⋮	⋮

● DIN rail



Push-in cartridge fitting (regulator block)

How to order

NRB500 - JOINT - **CL4**

A Type

Code	Description	
A Type		
C4	Straight ø4	
C6	Straight ø6	
CL4	Elbow ø4 (discrete)	
CL6	Elbow ø6 (discrete)	
CLL4	Long elbow ø4 (for manifold)	
CLL6	Long elbow ø6 (for manifold)	

F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain
Separ
Mech
Press SW
Res press
exh valve
SlowStart
Anti-bac/Bac-
remove Filt
Film
Resist FR
Oil-ProhR
Med
Press FR
No Cu/
PTFE FRL
Outdrrs FRL
Adapter
Joiner
Press
Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/
other
Fit/Tube
Nozzle
Air Unit
PrecsCompn
Electro
Press SW
ContactSW
AirSens
PresSW
Cool
Air Flo
Sens/Ctrl
WaterRISens
TotAirSys
(Total Air)
TotAirSys
(Gamma)
Gas
generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg
etc
Ending

MNRB500 Series

F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain
Separ
Mech
Press SW
Res press
exh valve
SlowStart
Anti-bac/Bac-
remove Filtr
Film
Resist FR
Oil-ProhR
Med
Press FR
No Cu/
PTFE FRL
Outdrs FRL
Adapter
Joiner
Press
Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/
other
Fit/Tube
Nozzle
Air Unit
PrecsCompn
Electro
Press SW
ContactSW
AirSens
PresSW
Cool
Air Flo
Sens/Ctrl
WaterRtSens
TotAirSys
(Total Air)
TotAirSys
(Gamma)
Gas
generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg
etc
Ending

Cartridge fitting (common supply block)

How to order

NRB500 - Q - JOINT - L6

A Type

Code	Description	
A Type		
6	Straight ø6	
8	Straight ø8	
L6	Elbow ø6	
L8	Elbow ø8	

Pressure gauge

How to order

G29D - 6 - P10

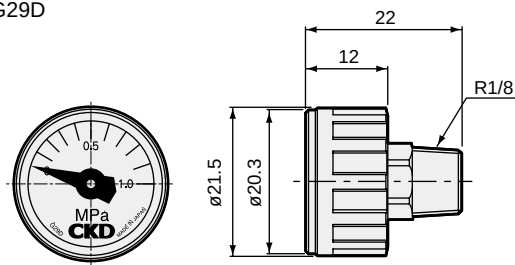
A Model No.

B Pressure display

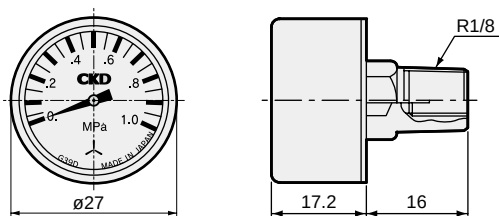
Code	Description
A Model No.	
G29D	
G39D	
B Pressure display	
P10	0 to 1.0 MPa
P04	0 to 0.4 MPa (G39D only)

Dimensions

● G29D



● G39D



Blanking plug

How to order

GWP 4 - B

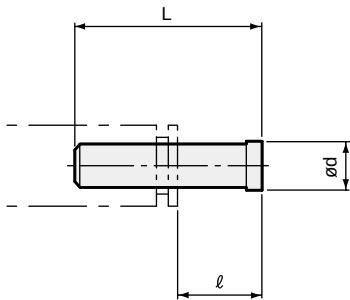
A Connection

Code	Description
A Connection	
4	ø4
6	ø6
8	ø8

⚠ Precautions for model No. selection

*1: Sales unit is 10 pieces per unit.

Dimensions



Model No.	Fitting port size ø	L	ℓ	d
GWP 4-B	4	27	11	6
GWP 6-B	6	29	11.5	8
GWP 8-B	8	33	14	10