



Precision regulator

# RP1000 Series

● Port size: Rc1/4

JIS symbol



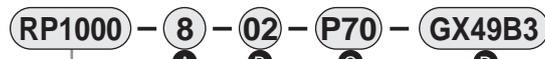
## Specifications

Descriptions	RP1000-8-02-P70	RP1000-8-04-P70	RP1000-8-07-P70
Working fluid	Compressed clean air (refer to recommended air circuit on Intro 3)		
Max. working pressure	MPa	1.0	
Min. working pressure	MPa	Set pressure +0.1 (*1)	
Proof pressure	MPa	1.5	
Ambient temperature/fluid temperature	°C	-5 to 50 (no freezing)	
Set pressure range	MPa	0.003 to 0.2	0.005 to 0.7
Sensitivity	Within 0.1% of full scale		
Repeatability	Within ±0.5% of full scale		
Air consumption *2	l/min (ANR)	1.3 or less	
Port size	Rc1/4		
Pressure gauge port size	Rc1/8		
Weight	g	250	

\*1: Flow rate of the secondary side is to be zero. For RP1000-8-04, if the set pressure is 0.3 MPa and over, increase +0.2 MPa in the set pressure.

\*2: The primary pressure is to be 0.7 MPa. Air is released to atmosphere normally.

## How to order



Model  
RP1000:  
Precision regulator

A Port size		B Set pressure range		C Clean room specifications		D Other attachments	
8	Rc1/4	02	MAX. 0.2 MPa	P70	Structure	Blank	Without attachment
		04	MAX. 0.4 MPa		Exhaust treatment	GX49 *1	Pressure gauge
		07	MAX. 0.7 MPa			GY49	Pressure gauge
						B3	L bracket
						E1	Fitting (for vent holes)

\*1: "GX49" contains brass.

\*2: A pressure gauge and a bracket are attached.

\*3: A pressure gauge as same pressure range as the regulator is attached.

\*4: One R1/8 plug is attached to the product.

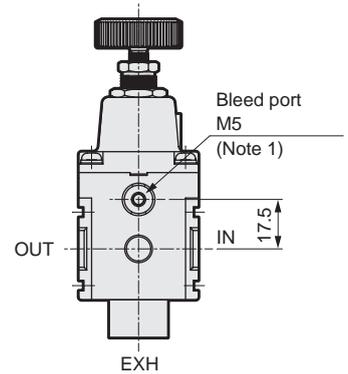
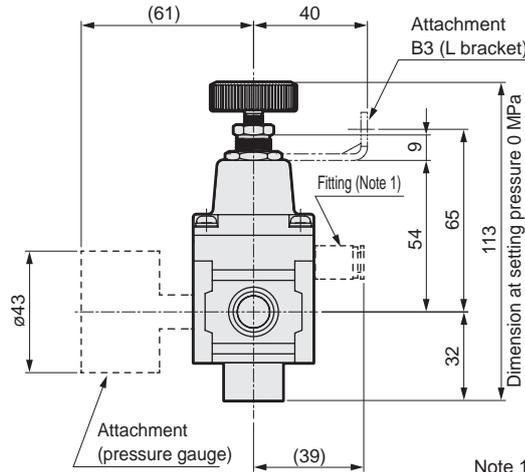
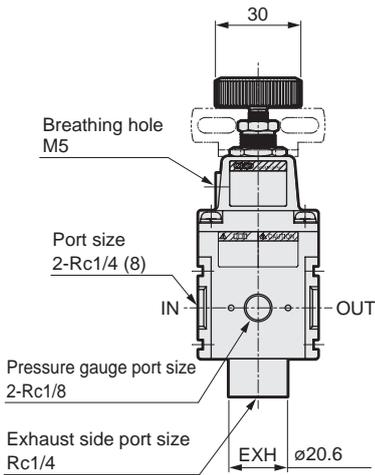
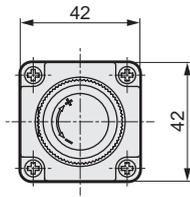
\*5: One GWS6-M5-S is attached to the product.

## Discrete attachment model No.

Model No.	Discrete attachment model No.
RP1000-8-02-P70-GX49	G49D-6-P02-P70
RP1000-8-04-P70-GX49	G49D-6-P04-P70
RP1000-8-07-P70-GX49	G49D-6-P10-P70
RP1000-8-02-P70-GY49	G49D-6-P02-P94
RP1000-8-04-P70-GY49	G49D-6-P04-P94
RP1000-8-07-P70-GY49	G49D-6-P10-P94
RP1000-8-02-04-07-P70-B3	B131-P70
RP1000-8-02-04-07-P70-E1	R4000-E1-P70

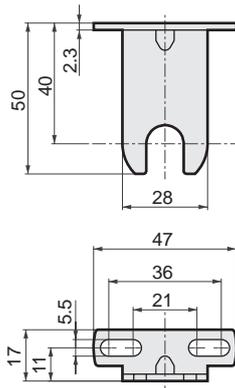
### Dimensions

● RP1000-P70

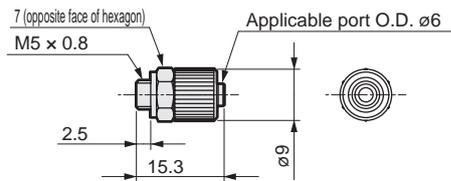


Note 1: Available fittings are limited to GWS6-M5-S (attached).  
When using, pay attention not to prevent fitting, pressure gauge, and bracket from interference.

- L bracket  
 • B131-P70  
 Weight: 29 g  
 • Material: steel, nickel plate processing



- Fitting  
 • R4000-E1-P70  
 • Material: brass, nickel plate processing



SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder

Switch

MN3E

MN4E

4GA/B

M4GA/B

MN4GA/B

F.R.(module

unit)

Clean

F.R

Precision

R

Press gauge

Dif. press gauge

Electro-

pneumatic R

Speed

controller

Auxiliary

valve

Fitting/

tube

Clean

air unit

Pressure

sensor

Flow rate

sensor

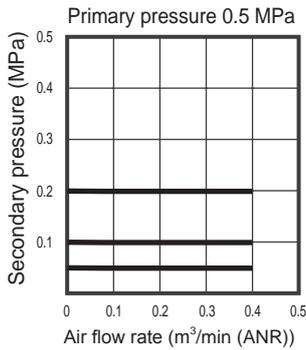
Valve for

air blow

Ending

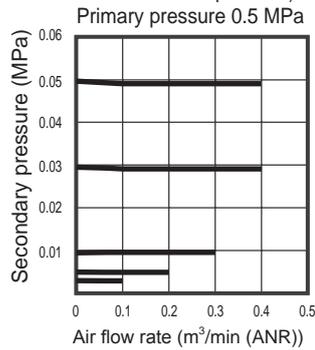
## Flow characteristics

● RP1000-8-02

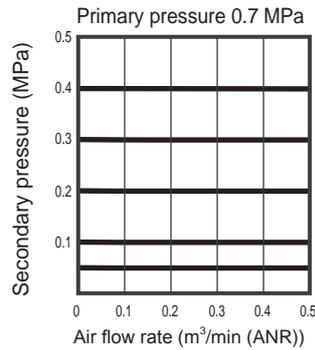


● RP1000-8-02

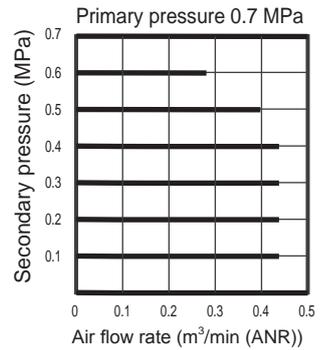
(Flow characteristics at low pressure)



● RP1000-8-04

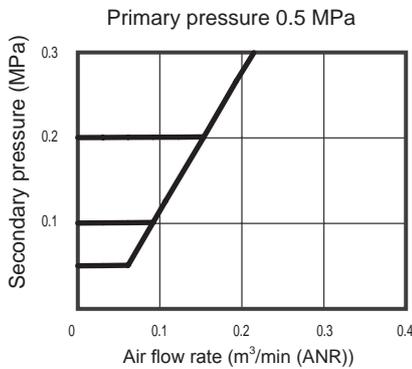


● RP1000-8-07

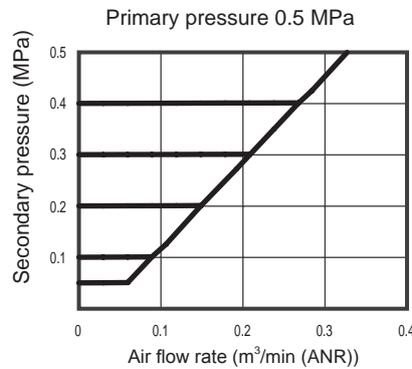


## Relief flow characteristics

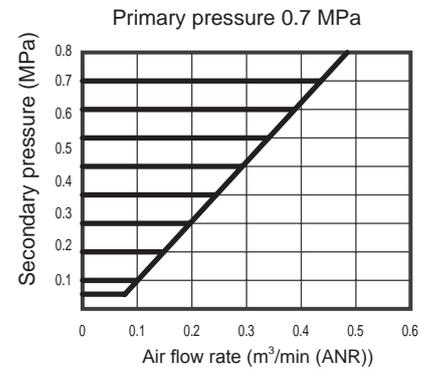
● RP1000-8-02



● RP1000-8-04

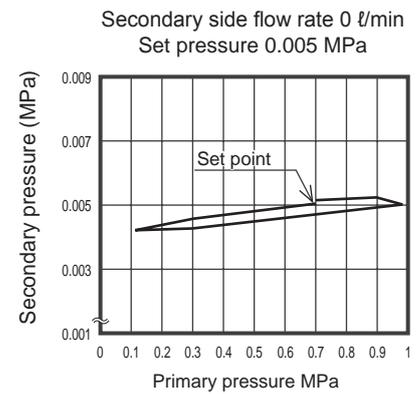
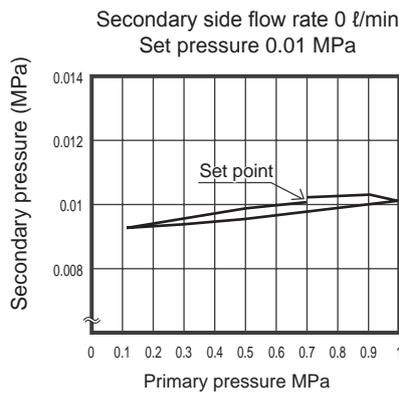
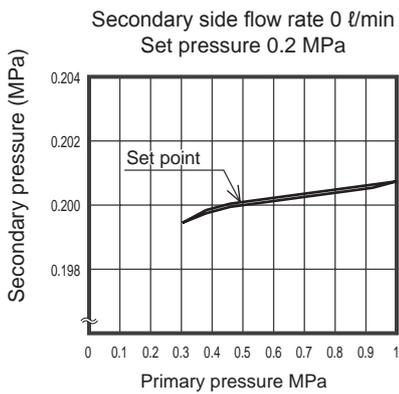


● RP1000-8-07

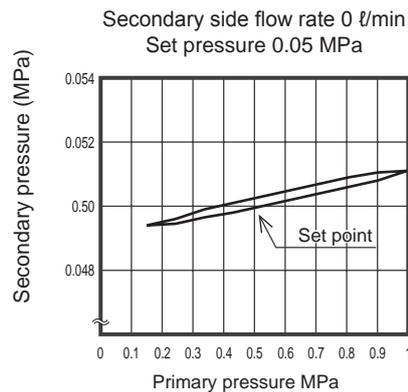
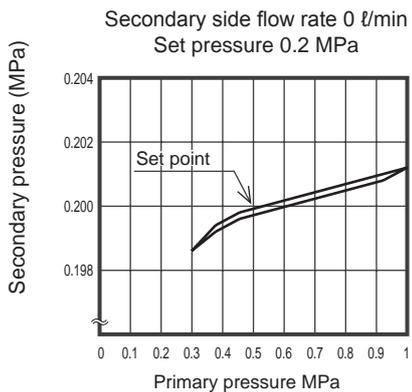


## Pressure characteristics

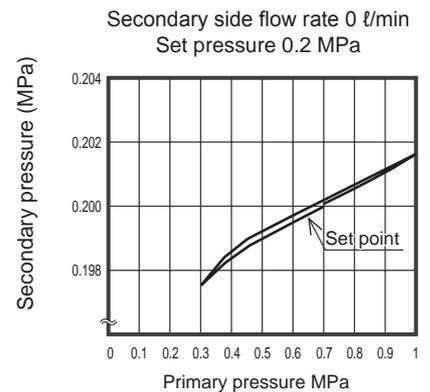
● RP1000-8-02



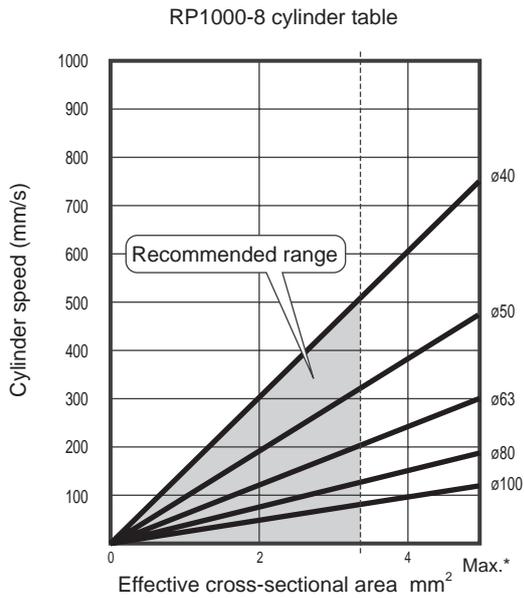
● RP1000-8-04



● RP1000-8-07



## Cylinder speed range of RP1000



This cylinder table shows available range according to air supply/exhaust flow rate of precision regulator and required consumption flow rate at cylinder PUSH/PULL.

----- Recommended cylinder line  
(70% of max. flow rate is recommended)  
\* Max. cylinder line  
(Cylinder directly installed)

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder Switch

MN3E  
MN4E

4GA/B

M4GA/B

MN4GA/B

F.R.(module unit)

Clean F.R

Precision R

Press gauge  
Diff. press gauge

Electro-pneumatic R

Speed controller

Auxiliary valve

Fitting/tube

Clean air unit

Pressure sensor

Flow rate sensor

Valve for air blow

Ending



Precision regulator

# RP2000 Series

● Port size: Rc1/4 Rc3/8

JIS symbol



## Specifications

Descriptions	RP2000-8-08-P70	RP2000-10-08-P70
Working fluid	Compressed clean air (refer to recommended air circuit)	
Max. working pressure	MPa	1.0
Min. working pressure	MPa	Set pressure +0.1 (*1)
Proof pressure	MPa	1.5
Ambient temperature/fluid temperature	°C	-5 to 50 (no freezing)
Set pressure range	MPa	0.03 to 0.85
Sensitivity	Within 0.2% of full scale	
Repeatability	Within ±0.5% of full scale	
Air consumption	l/min (ANR)	5 or less *2
Port size	Rc1/4	Rc3/8
Exhaust side port size	Rc3/8	
Pressure gauge port size	Rc1/8	
Weight	g	470

\*1: Flow rate of the secondary side is to be zero.

\*2: Conditions where the primary pressure is 0.7 MPa and set pressure is 0.3 MPa. Consumed air is normally released to the atmosphere from the bleed port and EXH port. So, air consumption is the total of consumption volume released from the bleed port and EXH port. Air is released at 1 l/min (ANR) or less from EXH port.

## How to order

Model: RP2000: Precision regulator

RP2000 - 8 - 08 - P70 - GX49B

A: Port size, B: Set pressure range, C: Clean room specifications, D: Other attachments

A Port size		B Set pressure range		C Clean room specifications		D Other attachments	
8	Rc1/4	08	MAX. 0.85 MPa		Structure	Blank	Without attachment
10	Rc3/8			P70	Exhaust treatment	GX49 *1	Pressure gauge
						GY49	Pressure gauge
						B	C bracket
						E1	Fitting (for vent holes)

\*1: "GX49" contains brass.

\*2: If the port size Rc1/2 is required, use a piping adaptor set (model No.: A400-15-P70).

\*3: Attachment is attached.

\*4: The piping adaptor set and C bracket cannot be used together.

\*5: One R1/8 plug is attached to the product.

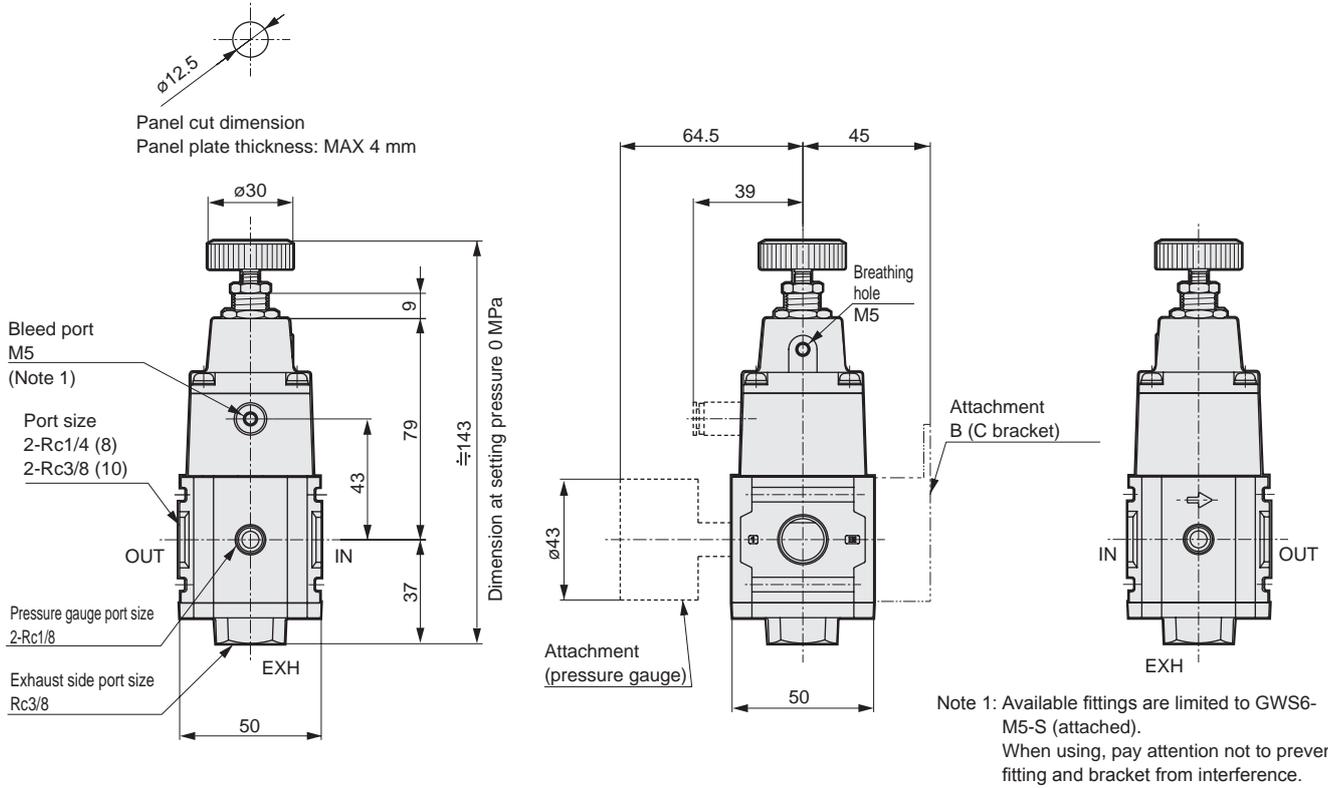
\*6: One GWS6-M5-S is attached to the product.

## Discrete attachment model No.

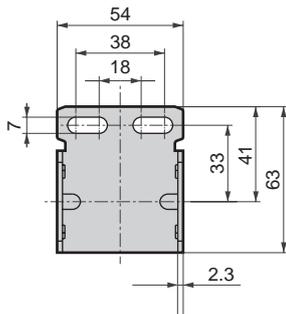
Attachment code	Discrete attachment model No.
GX49	G49D-6-P10-P70
GY49	G49D-6-P10-P94
B	B220-P70
E1	R4000-E1-P70

### Dimensions

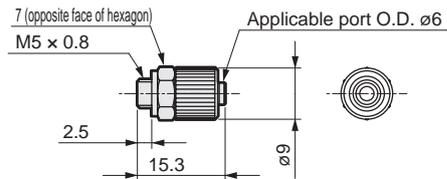
● RP2000-P70



C bracket  
 • B220-P70  
 Weight: 150 g  
 • Material: steel, zinc plate processing



Fitting  
 • R4000-E1-P70  
 • Material: brass, nickel plate processing

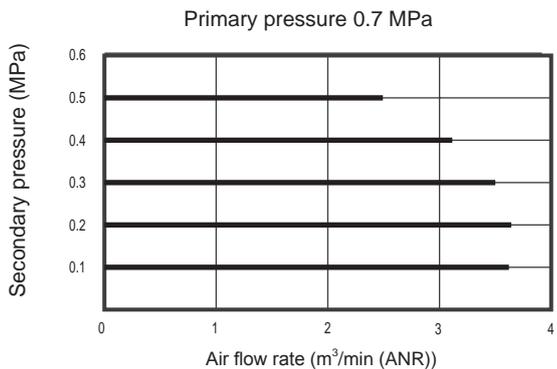


SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E MN4E
4GA/B
M4GA/B
MN4GA/B
F.R.(module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

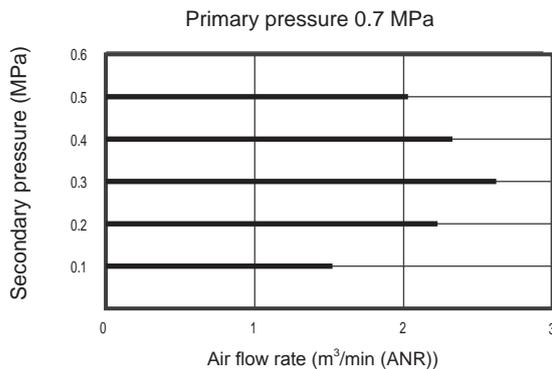
SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder switch
MN3E MN4E
4GA/B
M4GA/B
MN4GA/B
F.R (module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/ tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

## Flow characteristics

● RP2000-10-08-P70

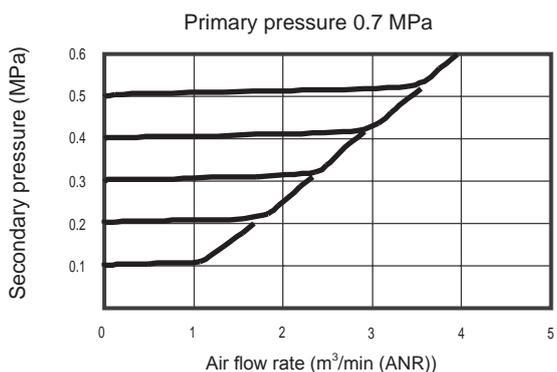


● RP2000-8-08-P70

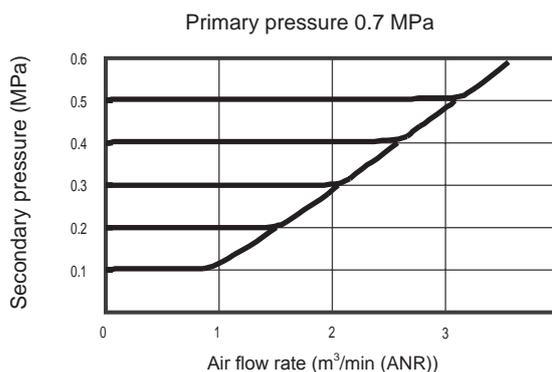


## Relief flow characteristics

● RP2000-10-08-P70

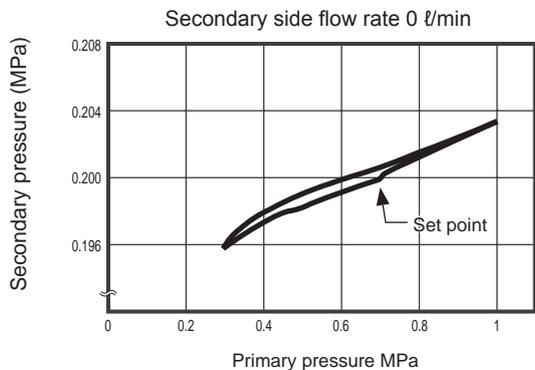


● RP2000-8-08-P70

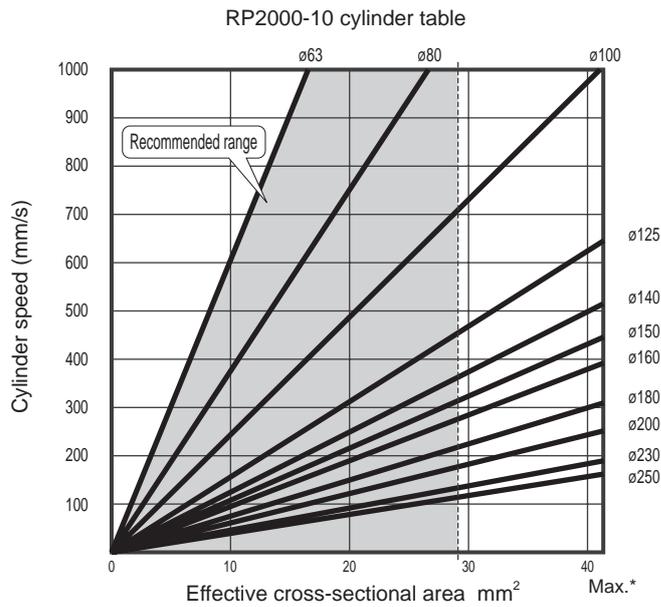


## Pressure characteristics

● RP2000\*-08-P70



### Cylinder speed range of RP2000



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----- Recommended cylinder line  
(70% of max. flow rate is recommended)  
\* Max. cylinder line  
(Cylinder directly installed)

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder Switch

MN3E  
MN4E

4GA/B

M4GA/B

MN4GA/B

F.R.(module unit)

Clean F.R

Precision R

Press gauge  
Diff. press gauge

Electro-pneumatic R

Speed controller

Auxiliary valve

Fitting/tube

Clean air unit

Pressure sensor

Flow rate sensor

Valve for air blow

Ending