SUSPV22。

Regulators



Model Selection Table

Regulators

Product name	Product summary	Operation method	Tube size	Connection type	Flow range	Inlet pressure	Outlet pressure	Fluid temperature	Model
			1/4"		10~1000mL/min		30∼100kPa	10~70℃	
	live		3/8"		1~5L/min	100~400kPa			FCRM
ator	ntrol va	Manual	1/2"	Tube fitting	4~15L/min	100 400Kl a	30 100Ki a	10 700	1 Of livi
Regul	ure cor	ivianuai	3/4"		10~30L/min				
Chemical Regulator	pressu	3/4" 4~30L/min 100~500kPa 50~200kPa	10 50%	FCRM-HP					
Cher	Constant pressure control valve		1"	Pillar fitting	15~60L/min	100° 300KFa	50° 3200KFa	0kPa 10~50°C	FCR-25AP300P-HP
	Ö	Pneumatic	3/4"	Tube fitting	4~30L/min	100~500kPa	50~400kPa	10~50℃	GCRM-HP2
		rneumanc	Dillor	15~60L/min	100 COOKI U	00 1001ti d		GCR-25AP300P-HP2	
			1/4"		10~2000mL/min	100~600kPa	50~300kPa	10~90℃	
	d)	Manual	3/8"	Pillar fitting	1~10L/min				PMR
ator	ng valv		1/2"		1~15L/min				
Mini Chemical Regulator	educir		1/4"		10~2000mL/min				
nical I	ssure		3/8"	Pillar fitting	1~10L/min	100~500kPa	50~300kPa	10~90℃	GSCR
i Cher	act pre	Pneumatic	1/2"		1~15L/min				
Ξ	Compact pressure reducing valve	THEUMAIIC	1/4"	Pillar	10~2000mL/min	100~500kPa	50~300kPa	15∼90℃	GACR
			3/8"	fitting	0.1~5L/min	100 000Ν α	JU~SUUKPA	10. 490 0	anor i
			1/4"	Pillar fitting	10~2000mL/min	100~350kPa	50~300kPa	15~180℃	GACR-SHT

^{**}Pillar fitting means Pillar Super 300 Type P series.

Special instructions ------



OIn case selling products with inner diameters of more than 10mm to a specific country or region, it is required an export license from the Ministry of Economy, Trade and Industry.

Manual Type Regulators

Model FCRM Regulator



SUZPV22.



Features

- OConstant-pressure control valve for DI water and chemicals.
- Controls the outlet pressure to be constant, suppressing the pressure fluctuation of the inlet pressure.
- Manually operated type with the knob to adjust the outlet pressure setting.

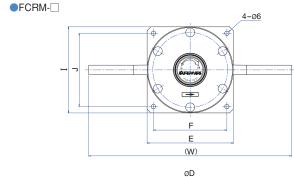
Specifications

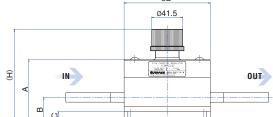
Wetted parts	PTFE, PCTFE, PFA (PCTFE used only for 1/4" and 3/8")
Fluids	DI water, Chemicals
Fluid temperature	10~70℃
Ambient temperature	10~40℃
Inlet pressure range	100~400kPa
Outlet pressure range	30~100kPa *depending on certain condition
Withstanding pressure	500kPa

Models

Type	Tube size	Connection type	Flow range
FCRM-1/4	1/4" (Ø6.35ר3.95)	Tube fitting	10~1000mL/min
FCRM-3/8	3/8" (Ø9.53ר6.35)	Tube fitting	1~5L/min
FCRM-1/2	1/2" (Ø12.7ר9.53)	Tube fitting	4~15L/min
FCRM-3/4	3/4" (Ø19.05ר15.9)	Tube fitting	10~30L/min

Dimensions





Type	Α	В	С	ØD	Е	F	(H)	I	J	(W)
FCRM-1/4	65.6	25	8	Ø87	87	72	101~106	87	72	233
FCRM-3/8	65.6	25					101~106			
FCRM-1/2	79.5	29	10	Ø115	115	98	115~120	115	98	271
FCRM-3/4	79.5	29	10	Ø115	115	98	115~120	115	98	271

Special instructions



- OLeak rate of valve seat is less than 1mL/min. (water pressure)
- The regulator does not have shut-off function. (It is not design to be completely closed.)
- OIn case selling products with inner diameters of more than 10mm to a specific country or region, it is required an export license from the Ministry of Economy, Trade and Industry.

Regulators Manual Type

Model FCRM / FCR-25AP300P-HP Regulator ROHS2



Features

- High pressure specified manual type consant pressure control valve, the size of 3/4" and 1".
- This model is suitable to control high rate flow.

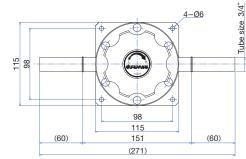
Specifications

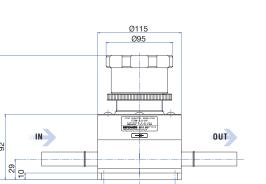
Type	FCRM-3/4-HP	FCR-25AP300P-HP		
Fluids	DI water, Chemicals	DI water		
Flow range	4~30L/min	15~60L/min		
Inlet pressure range	100~500kPa			
Outlet pressure range	50~200kPa *Depending on certain condition			
Withstanding pressure	600kPa			
Fluid temperature	10~50℃			
Ambient temperature	10~40℃			
Wetted parts	PFA、PTFE PTFE			
Tube size	3/4" (Ø19.05ר15.9)	1" (Ø25.4ר22.2)		
Connection type	Tube fitting	Pillar fitting		

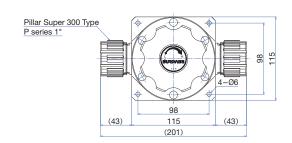
Dimensions

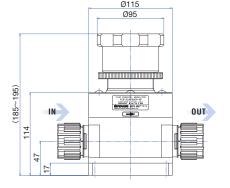
●FCRM-3/4-HP

●FCR-25AP300P-HP









Special instructions

- \wedge
- OLeak rate of valve seat is less than 1mL/min. (water pressure)
- The regulator does not have shut-off function. (It is not design to be completely closed.)
- OIn case selling products with inner diameters of more than 10mm to a specific country or region, it is required an export license from the Ministry of Economy, Trade and Industry.

SUZPV22. Regulators Pneumatic type

Model GCRM/GCR-25AP300P-HP2 Regulator ROHS2





Features

- O High pressure specified manual type consant pressure control valve, the size of 3/4" and 1".
- This model is suitable to control high rate flow.

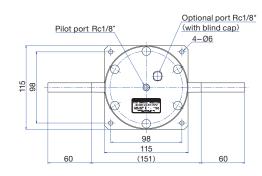
Specifications

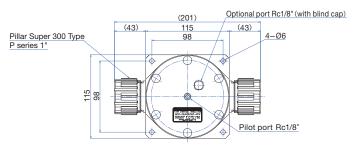
Туре	GCRM-3/4-HP2	GCR-25AP300P-HP2		
Fluids	DI water, Chemicals	DI water		
Flow range	4~30L/min	15~60L/min		
Inlet pressure range	100~5	500kPa		
Outlet pressure range	50~400kPa *Depending on certain conditions			
Withstanding pressure	600kPa			
Pilot pressure range	Max.400kPa			
Fluid temperature	10~50℃			
Ambient temperature	10~40℃			
Wetted parts	PFA、PTFE	PTFE		
Tube size	3/4" (Ø19.05ר15.9)	1" (Ø25.4ר22.2)		
Connection type	Tube fitting Pillar fitting			
Pilot port	Rc1/8			

Dimensions

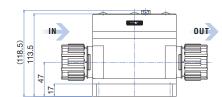
●GCRM-3/4-HP2

●GCR-25AP300P-HP2











- OLeak rate of valve seat is less than 1mL/min. (water pressure)
- The regulator does not have shut-off function. (It is not design to be completely closed.)
- OIn case selling products with inner diameters of more than 10mm to a specific country or region, it is required an export license from the Ministry of Economy, Trade and Industry.

Regulators Manual Type

Model PMR Regulator

RoHS2



Features

- The compact pressure reducing valve has been corresponded to reasonable by the molding.
- Manually operated type with the knob to adjust the outlet pressure setting.
- This particular model is excellent in constant-pressure control and stability.
- The pressure loss has been reduced due to the lower retention part adopted for the flow structure.
- The inlet pressure range is compatible with high pressure.

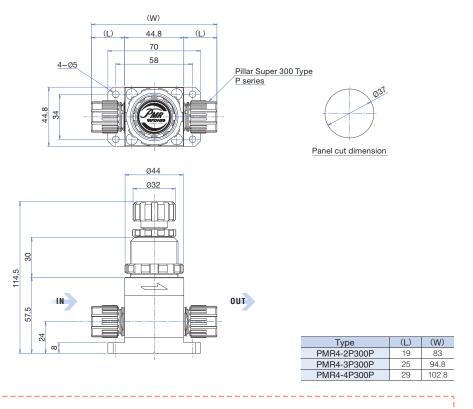
Specifications

Wetted parts	PTFE、PFA	Ambient temperature	10~60℃
Fluids	DI water, Chemicals	Inlet pressure range	100~600kPa
Fluid temperature	10~90℃	Withstanding pressure	800kPa

Models

Type	Tube size	Connection type	Flow range	Outlet pressure range *depending on certain conditions
PMR4-2P300P	1/4" (Ø6.35ר3.95)	Pillar fitting	10~2000mL/min	50~300kPa
PMR4-3P300P	3/8" (Ø9.53ר6.35)	Pillar fitting	1~10L/min	50~300kPa
PMR4-4P300P	1/2" (Ø12.7ר9.53)	Pillar fitting	1~15L/min	50~300kPa

Dimensions







OLeak rate of valve seat is less than 1mL/min. (water pressure)

The regulator does not have shut-off function. (It is not design to be completely closed.)

Regulators Pneumatic type

Model GSCR Regulator



SUZPASS®



Features

- The compact pressure reducing valve has been corresponded to reasonable by the molding.
- It is a pneumatic type.
- This particular model is excellent in constant-pressure control and stability.
- The pressure loss has been reduced due to the lower retention part adopted for the flow structure.

Specifications

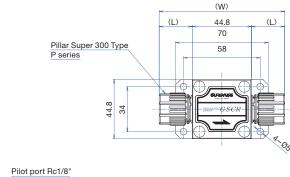
Wetted parts	PTFE, PFA		
Fluids	DI water, Chemicals		
Fluid temperature	10~90℃		
Ambient temperature	10~60℃		

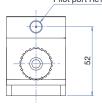
Inlet pressure range	100~500kPa
Withstanding pressure	600kPa
Pilot pressure range	Max.400kPa
Pilot port	Rc1/8

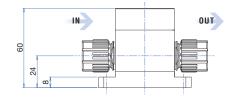
Models

Type	Tube size	Connection type	Flow range	Outlet pressure range *depending on certain conditions
GSCR4-2P300P	1/4" (Ø6.35ר3.95)	Pillar fitting	10~2000mL/min	50~300kPa
GSCR4-3P300P	3/8" (Ø9.53ר6.35)	Pillar fitting	1~10L/min	50~300kPa
GSCR4-4P300P	1/2" (Ø12.7ר9.53)	Pillar fitting	1~15L/min	50~300kPa

Dimensions







Type	(L)	(W)
GSCR4-2P300P	19	83
GSCR4-3P300P	25	95
GSCR4-4P300P	29	103

Special instructions ·-----



OLeak rate of valve seat is less than 1mL/min. (water pressure)

The regulator does not have shut-off function. (It is not design to be completely closed.)

Regulators Pneumatic type

Model GACR Regulator

RoHS2



Features

- The industry's smallest class pressure reduction control valve that is minimized footprint and reasonable price by the molding.
- Olt is a compact pneumatic operated type with improved stability.

Specifications

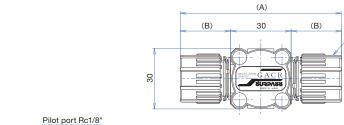
Wetted parts	PTFE, PFA	Ī
Fluid	DI water, Chemicals	١
Fluid temperature	15~90℃	Ī
Ambient temperature	10~60℃	I

	Inlet pressure range	100~500kPa
	Withstanding pressure	700kPa
_	Pilot pressure range	Max.500kPa
-	Pilot port	Rc1/8

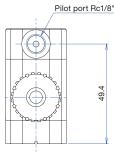
Models

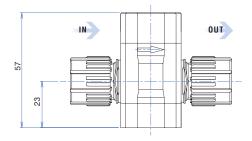
Ī	Type	Tube size	Connection type	Flow range	Outlet pressure range *depending on certain conditions
	GACR2-2P300P	1/4" (Ø6.35ר3.95)	Pillar fitting	10~2000mL/min	50~300kPa
	GACR2-3P300P	3/8" (Ø9.53ר6.35)	Pillar fitting	0.1~5L/min	50~300kPa

Dimensions

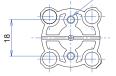


Pillar Super 300 Type





2-M4 P0.7 Depth10



Type	(A)	(B)	Pillar size
GACR2-2P300P	68	19	1/4"
GACR2-3P300P	80	25	3/8"

Special instructions ·-----



OLeak rate of valve seat is less than 1mL/min. (water pressure)

The regulator does not have shut-off function. (It is not design to be completely closed.)

Regulators Pneumatic type

Model GACR-SHT Regulator



SUZPASS®





Features

- The industry's smallest class pressure reducing control valve with a minimal footprint (□30).
- Olt is a compact pneumatic operated type with improved stability.
- ○It can be used up to Max.180°C.

Specifications

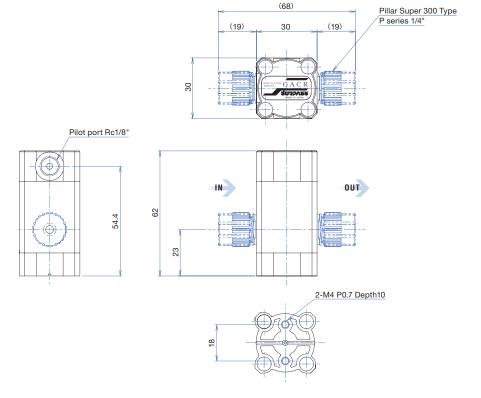
Wetted parts	PTFE	Inlet pressure range	100~350kPa
Fluid	DI water, Chemicals	Withstanding pressure	400kPa
Fluid temperature	15~180℃	Pilot pressure range	Max.500kPa
Ambient temperature	15~60℃	Pilot port	Rc1/8

^{*}The above specifications exclude fittings, and the heat and pressure resistance of fittings are depending on the manufacturer.

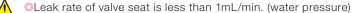
Models

Туре	Tube size	Connection type	Flow range	Outlet pressure range *depending on certain conditions
GACR2-2P300P-SHT	1/4" (Ø6.35ר3.95)	Pillar fitting	10~2000mL/min	50~300kPa

Dimensions



Special instructions



The regulator does not have shut-off function. (It is not design to be completely closed.)

OBe sure to use within the ambient temperature range.

Regulators

Safety Instructions



- © Before using the product, read the instruction manual carefully and use it correctly. We are not liable for accidents that occurred during use other than those described in the instruction manual.
- Ouse this product within the specified range.
- Confirm the compatibility of the product material with the type of fluid and ambient atmosphere before use.
- ODo not use fluids that contain refuse or foreign matter, as this may interfere with normal function.
- Abrasive or coagulate fluids may interfere with normal function, and take measures to prevent stacking residue on the wetted parts.
- Do not use the product in a harsh environment where fluid temperature changed rapidly or a heat cycle occurs, as this may cause damage to the product.
- ODo not use the product in an environment where excessive pressure or water hammer is generated.
- ODo not place heavy objects on the product top.
- ○When tubing, allow the fluid to flow in the direction mark (→) imprinted on the main unit.
- Oconnect this product not to apply any bending, tensile or compression, and other forces on the valve.
- ODo not use the product with excessive vibration or shock.
- Olt is not recommended any fluids splash to the main body.
- Periodic inspection should be performed for safety when using chemical solution with high permeability for long time.
- \bigcirc Use air or inert gas that has passed through a filter with 5μ m or more filtration for operation air.
- When mounting a male thread to join parts, use a paring female thread made of PTFE, PFA, PCTFE, PE or PP instead of the rigid materials such as metallic. Tighten the male thread with correct value of torque. Excessive tightening may break the product.
- The regulator does not have shut-off function. Leak of valve seat is less than 1mL/min. (water pressure)
- ODo not disassemble the product.
- Olf static electricity is generated, the equipment may seriously damage. Please use after applying antistatic measures.
- OBe sure to use this product within the ambient temperature range.
- ODo not warm up the product directly from the outside. It may cause external or internal leakage failure.
- Pillar Super 300 Type P series is a trademark of Nippon Piller Co., Ltd.