

STOP VALVE & CHECK VALVE



STOP VALVE

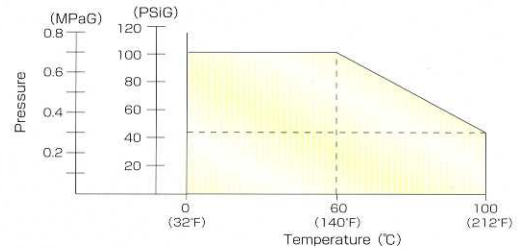
Feature

- All wetted parts are made of NEW PFA and PTFE suitable for use in high purity and high corrosive chemical handling applications.
- It is available in a wide range of temperatures from 0°C to 100°C {32°F~212°F}
- The valve body and super 300 fitting are injection-molded into a one piece PFA body with a very smooth surface.

Specifications

Type : PSV
 Operation method : **Manual**
 Connecting method : **Tube fitting (Super 300 type fitting)**
 Max operation pressure : **0.7MPaG {99.54PSIG}**
 Max operation temperature : **100°C {212°F}**
 Ambient temperature : **60°C {140°F}**
 Fluid : **Chemical & DI water liquids**

Operation pressure and Temperature range



PSV- P06B~P12B
PSV- PW2B~PW4B

PSV-P19B, P25B
PSV-PW6B, PW8B

Main parts list

Parts	No.	Parts	Material	Parts	No.	Parts	Material
Wetted parts	1	Valve body	PFA	Non-wetted parts	5	Union nut	PFA
	2	Stem	PFA		6	Outer ring	P,P
	3	V-ring set	PTFE		7	Knob	P,P
	4	Sleeve	PFA				

Demension

mm Tube											mm (inch)	
Type No.	TUBE SIZE O.D.XI.D	H (MAX)	A	B	C	D	t1	P1	P2	φK	φS	
PSV-P06B	6× 4	79 (3.11)	64 (2.52)	17 (0.67)	43 (1.69)	16 (0.63)	5 (0.20)	31 (1.22)	—	30 (1.18)	4 (0.16)	
PSV-P08B	8× 6	84.5 (3.33)	72 (2.83)	19 (0.75)	44 (1.73)	17.5 (0.69)	5 (0.20)	32 (1.26)	—	30 (1.18)	5 (0.20)	
PSV-P10B	10× 8	94 (3.70)	84 (3.31)	24 (0.94)	51 (2.01)	21 (0.83)	7 (0.28)	38 (1.50)	—	35 (1.38)	7 (0.28)	
PSV-P12B	12×10	104 (4.09)	95 (3.74)	27 (1.06)	55 (2.17)	23 (0.91)	7 (0.28)	42 (1.65)	—	42 (1.65)	9 (0.35)	
PSV-P19B	19×15.8	121 (4.76)	119 (4.69)	36 (1.42)	60 (2.36)	28 (1.10)	7 (0.28)	46 (1.81)	22 (0.87)	50 (1.97)	14 (0.55)	
PSV-P25B	25×22	151 (5.94)	148 (5.83)	50 (1.97)	79 (3.11)	33 (1.30)	7 (0.28)	62 (2.44)	33 (1.30)	70 (2.76)	20 (0.79)	
inch Tube											mm (inch)	
Type No.	TUBE SIZE O.D.XI.D	H (MAX)	A	B	C	D	t1	P1	P2	φK	φS	
PSV-PW2B	6.35× 3.95	79 (3.11)	64 (2.52)	17 (0.67)	43 (1.69)	16 (0.63)	5 (0.20)	31 (1.22)	—	30 (1.18)	4 (0.16)	
PSV-PW3B	9.53× 6.33	94 (3.70)	84 (3.31)	24 (0.94)	51 (2.01)	21 (0.83)	7 (0.28)	38 (1.50)	—	35 (1.38)	7 (0.28)	
PSV-PW4B	12.7 × 9.5	104 (4.09)	95 (3.74)	27 (1.06)	55 (2.17)	23 (0.91)	7 (0.28)	42 (1.65)	—	42 (1.65)	9 (0.35)	
PSV-PW6B	19 ×15.8	121 (4.76)	119 (4.69)	36 (1.42)	60 (2.36)	28 (1.10)	7 (0.28)	46 (1.81)	22 (0.87)	50 (1.97)	14 (0.55)	
PSV-PW8B	25.4 ×22.2	151 (5.94)	148 (5.83)	50 (1.97)	79 (3.11)	33 (1.30)	7 (0.28)	62 (2.44)	33 (1.30)	70 (2.76)	20 (0.79)	

Remarks : Super Fitting is also available.

CHECK VALVE



Feature

- All wetted parts are made of NEW PFA suitable for use in high purity and high corrosive chemical handling applications.
- It is available in a wide range of temperatures from 0°C to 150°C [32°F~302°F]
- The valve body and super 300 fitting are injection-molded into a one piece PFA body with a very smooth surface.
- Low cracking pressure (0.01MPa) ensures smooth liquid flow.

Specifications

Type : **PGB**

Connecting method : **Tube fitting (Super 300 type fitting)**

Max open pressure : **0.7MPaG [99.54PSIG]**

Cracking pressure : **0.01MPaG [1.42PSIG]**

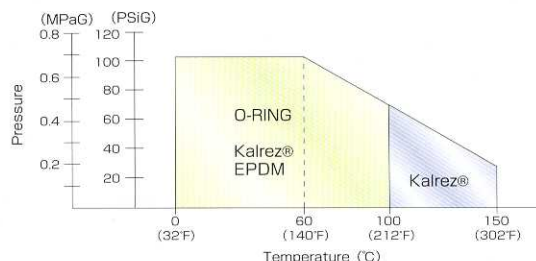
Sealing pressure closing : **0.05MPaG [7.11PSIG]**

Max operation temperature : **O-Ring : Kalrez® : 150°C [302°F]**
EPDM : 100°C [212°F]

Temperature in Atmosphere : **60°C [140°F]**

Fluid : **Chemical & DI water liquids**

Operation pressure and Temperature range



Main parts list		
No.	Parts	Material
1	Body 1	PFA
2	Body 2	PFA
3	Union nut	PFA
4	Sleeve	PFA
5	Check valve	PFA
6	O-RING	Kalrez® or EPDM

Demension

mm Tube		mm (inch)							
Type No.	Tube diameter	(A)	(B)	C	(D)	φE	F	W	φS
PGB P4-4B-※	4 × 3	77 (3.03)	14.7 (0.58)	7 (0.28)	20 (0.79)	26 (1.02)	12 (0.47)	12 (0.47)	3.1 (0.12)
PGB P6-6B-※	6 × 4	85.5 (3.37)	19 (0.75)	7 (0.28)	20 (0.79)	26 (1.02)	16 (0.63)	15 (0.59)	4 (0.16)
PGB P8-8B-※	8 × 6	91.5 (3.60)	22 (0.87)	7 (0.28)	20 (0.79)	26 (1.02)	19 (0.75)	18 (0.71)	6 (0.24)
inch Tube		mm (inch)							
Type No.	Tube diameter	(A)	(B)	C	(D)	φE	F	W	φS
PGB PW2-W2B-※	6.35 × 3.95	85.5 (3.37)	19 (0.75)	7 (0.28)	20 (0.79)	26 (1.02)	16 (0.63)	15 (0.59)	4 (0.16)

Remarks : Concerning PGB P4-4B-※. Structure is different from above mentioned drawing.
 Special items are available Please contact us.

The end of type ※ means O-Ring Material.

Code	Material	Marking
K	Kalrez®	X
E	EPDM	○

Remarks :
 1. Trademark of E.I. duPont de Nemours and Co. (Inc.)
 2. O-RING less is available.
 3. Super Fitting is also available.

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*Specifications and dimensions are subject to change without prior notice.

*The data on this catalogue are solely for your reference and are not to be construed as constituting a warranty.

CAUTION

• Follow the instructions, before installation and operation, for your safety.

FLOW CONTROL VALVE & AIR VENT VALVE



FLOW CONTROL VALVE

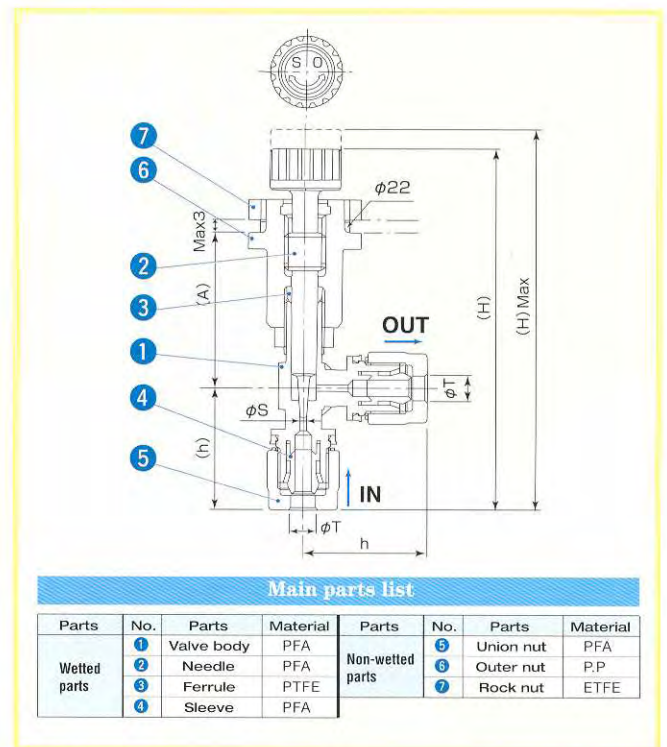
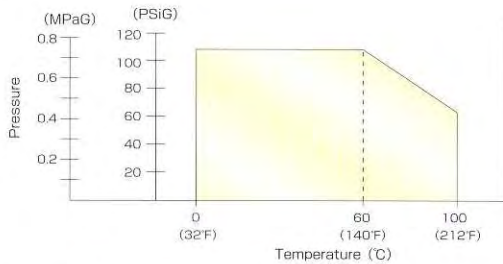
Feature

- All wetted parts are made of NEW PFA and PTFE suitable for use in high purity and high corrosive chemical handling applications.
- Compact, light and high reliable design.

Specifications

Type : **PCAP**
 Operation method : **Manual**
 Connecting method : **Tube fitting (Super 300 type fitting)**
 Max operation pressure : **0.7MPaG {99.54PSIG}**
 Max operation temperature : **100°C {212°F}**
 Ambient temperature : **60°C {140°F}**
 CV Flow Factor : **0.026**
 Fluid : **Chemical & DI water liquids.**

Operation pressure and Temperature range

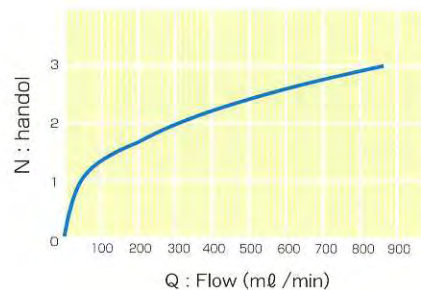


Demension

mm Tube				mm (inch)			
Type No.	Tube diameter φT (O.D×I.D)	(H) (max)	(H)	φS	(h)	(A)	Panel
PCAP-P3B	3×2	87.5 (3.44)	82.5 (3.25)	1.6 (0.06)	24 (0.94)	37 (1.46)	22 (0.87)
PCAP-P3B	6×4	92.2 (3.63)	87.5 (3.44)	1.6 (0.06)	29.5 (1.16)	37 (1.46)	22 (0.87)
inch Tube				mm (inch)			
Type No.	Tube diameter φT (O.D×I.D)	(H) (max)	(H)	φS	(h)	(A)	Panel
PCAP-PW1B	3.18×2.18	87.5 (3.44)	82.5 (3.25)	1.6 (0.06)	24 (0.94)	37 (1.46)	22 (0.87)
PCAP-PW2B	6.35×3.95	92.2 (3.63)	87.5 (3.44)	1.6 (0.06)	29.5 (1.16)	37 (1.46)	22 (0.87)

Remarks : Concerning **PCAP P3B** and **PCAP-PW1B**, structure is different from above mentioned drawing. Super Fitting is also available.

Performance curve



Condition
 Fluid : DI water
 Temp : 25°C
 Primaly press : 0.15MPa
 Orifice : φ1.6mm

Q : Flow (ml /min)
 This is for reference.



AIR VENT VALVE

Feature

- All wetted parts are made of NEW PFA and PTFE suitable for use in high purity and high corrosive chemical handling applications.
- Compact, light and high reliable design.

Specifications

Type : PAV

Operation method : **Manual**

Connecting method : **Tube fitting (Super 300 type fitting)**

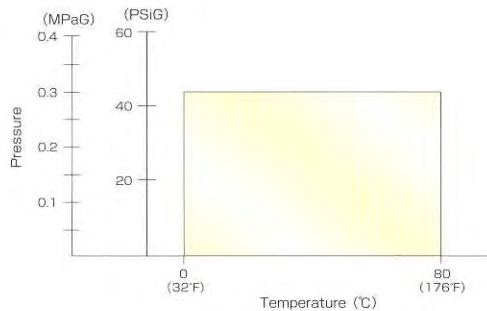
Max operation pressure : **0.3MPaG {42.66PSIG}**

Max operation temperature : **80°C {176°F}**

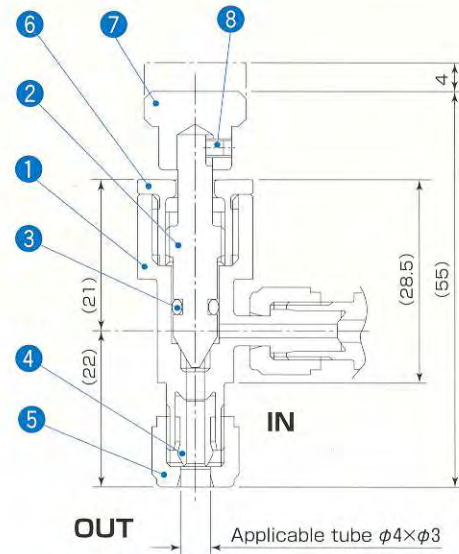
Ambient temperature : **60°C {140°F}**

Fluid : **Chemical & DI water liquids.**

Operation pressure and Temperature range



Remarks : Trademark of E.I. duPont de Nemours and Co. (Inc.)
Super Fitting is also available.



Main parts list

No.	Parts	Material
1	Body	PFA
2	Needle	PFA
3	O-RING	Kalrez®
4	Sleeve	PFA
5	Union nut	PFA
6	Clamp nut	P.P
7	Knob	PVdF
8	Bolt	SUS316

Type No. & O-RING Material

Type No.	O-RING	Knob
PAV P4-4-K	Kalrez®	Natural (PVdF)
PAV P4-4-E	EPDM	Black (PVdF)

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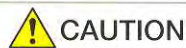
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