

# Spring Loaded Type Safety Valve, S Valve

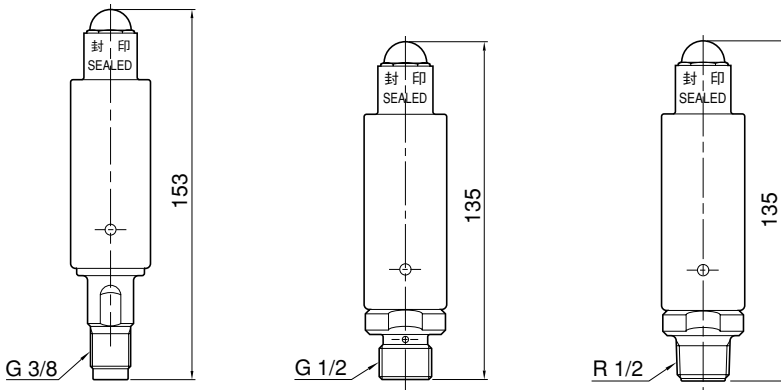
## Spring Loaded Type Safety Valve

### An Example of Standard Item Number

6 H - S V 2 1 M P - 0 3 - F 0 3

① ② ③ ④ ⑤ ⑥

① Classification	6 : Spare Parts
② Inspection/ Standard	H : High Pressure Gas Safety Law, Japan (Authorized Product by Ministry of Economy, Trade and Industry of Japan) N : NACOL Company Inspection
③ Classification of Valve	S V : Spring Loaded Type Safety Valve
④ Blowout Pressure	1 5 M P : 1 5 MP a 1 7 . 5 : 1 7 . 5 MP a 2 1 M P : 2 1 MP a 2 3 M P : 2 3 MP a 2 5 M P : 2 5 MP a 2 8 M P : 2 8 MP a 3 5 M P : 3 5 MP a
⑤ Blowout Port Diameter	0 3 : $\phi$ 3 . 4
⑥ Connection Diameter	F 0 3 : G 3 / 8 F 0 4 : G 1 / 2 R 0 4 : R 1 / 2



Spring Loaded Type Safety Valve

## S Valve

S valve is the authorized product by Ministry of Economy, Trade and Industry of Japan which followed "High Pressure Gas Safety Law, Japan".

S valve is produced based on the technology cultivated with the accumulator.

S valve is the optimal stop valve made of stainless steel for maintenance job of a safety valve etc.

### An Example of Standard Item Number

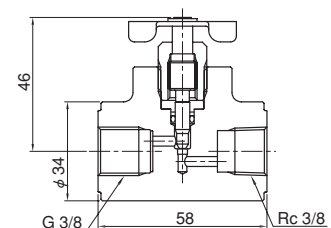
6 H N - G V 2 1 M P - F 0 3 - R 0 3

① ② ③ ④ ⑤ ⑥ ⑦

① Classification	6 : Spare Parts
② Inspection/ Standard	H : High Pressure Gas Safety Law, Japan (Authorized Product by Ministry of Economy, Trade and Industry of Japan) N : NACOL Company Inspection
③ Sealing Material	N : N B R (Standard Material)
④ Classification of Valve	G V : S Valve
⑤ Max. Working Pressure	2 1 M P : 2 1 M P a
⑥ Connection Diameter	F 0 3 : G 3 / 8
⑦ Connection Diameter	R 0 3 : R c 3 / 8



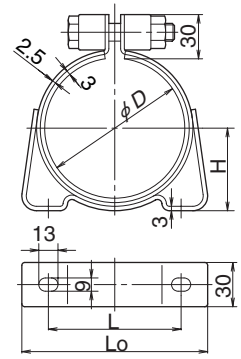
S Valve



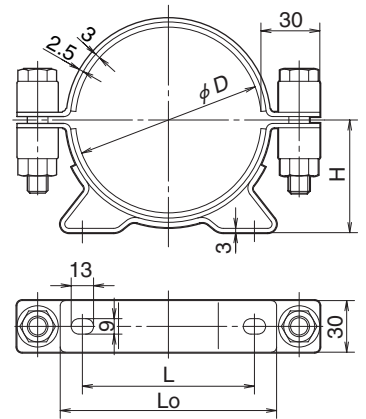
# Accumulator Clamp



This clamp is with rubber made anti-vibration sleeve. So, the clamp is most suitable for fixing accumulator where vibrations are expected. The clamp can be fixed to accumulator stand with bolts or welding easily.



6081C089 & C095



6081C114~C406

## ⚠ Caution when you install the Clamp.

- When mounting the clamp, do not add any unnecessary force to the connection part of the hydraulic circuit (oil port valve, fittings, and pipe).
- Do not mount the clamp where it will maintain the whole load of the accumulator. Sometimes the clamp cannot maintain the accumulator if fixation is insufficient or vibration is severe.

\* The dimension which tolerance is not indicated is the reference value. Please confirm the latest dimension with a design drawing.

Item Number	Applicable Accumulator			$\phi$ D mm	H $\pm$ <sub>1</sub> mm	L $\pm$ <sub>2</sub> mm	Lo $\pm$ <sub>2</sub> mm
	Series	MAWP:MPa	Gas Volume: L				
6081C089	J	10	0.5	89	53	82	112
6081C095	J	25	0.5	95	56	90	126
6081C114	N	11, 21, 23	1	114	66	100	138
	J	5	1 ~ 3				
6081C120	J	10, 17.5	1 ~ 3	120	69	136	172
6081C128	E	0.95	4	128	73		
	J	25	1 ~ 3				
	N	35, 45	1				
	P	22.5	1.6 ~ 7.2				
6081C133	J	10	4 & 5	133	75		
6081C140	N	11, 21	2.5 & 4	140	79		
	J	10, 17.5	4 & 5				
6081C146	J	25	4 & 5	146	82		
6081C152	N	35, 45	2.5 & 4	152	85	148	184
	P	22	5 ~ 20				
6081C191	A	11, 17.5, 21, 23	5 ~ 16	191	104		
	P	22	5 ~ 20				
6081C215	A	35	5 ~ 16	215	116	216	254
	P	25	5 ~ 40				
6081C232	U	25	20 ~ 50	232	124		
6081C246	R	8, 13	20 ~ 63	246	132		
6081C267	N	17.5, 21	20 ~ 60	267	142	248	300
	P	17.5	10 ~ 60				
	R	28	20 ~ 63				
6081C298	N	21 (SUS), 35	20 ~ 60	298	158	280	336
6081C350	Y	7, 15, 21, 25	60	350	184	345	410
	N		80 & 120				
	P		52 ~ 100				
6081C406	N	7, 15, 21	160	406	212	384	460

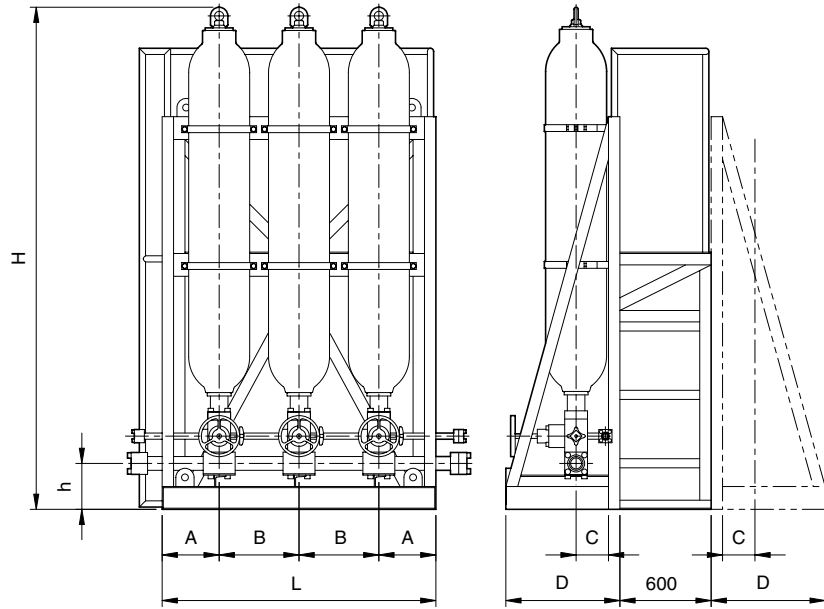
# Accumulator Stand

NACOL produces the accumulator stands which are designed for easy installation and maintenance considering the most convenient height during transportation.

The accumulator stop valve and T-block contribute to ease of installation. It is possible to connect accumulators directly to the stop valve when installing the accumulators.

**Note:**

Fix accumulators firmly with accumulator clamps (see page 87) or bands in a manner that does not inflict unnatural force upon the accumulators.

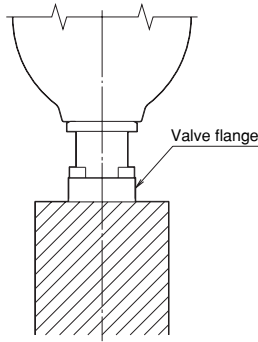


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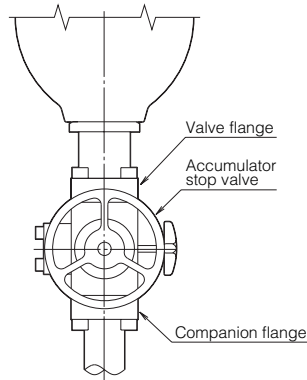
Accumulator Volume (L)	A (mm)	B (mm)	L (mm)					C (mm)	D (mm)	Remarks
			1 piece	2 pcs(W4 pcs)	3 pcs(W6 pcs)	4 pcs(W8 pcs)	5 pcs(W10 pcs)			
20~60	250	350	500	850	1,200	1,550	1,900	142	500	Use NACOL Clamp C267
120	300	450	600	1,050	1,500	1,950	2,400	184	525	Use NACOL Clamp C350
160	300	500	600	1,100	1,600	2,100	2,600	212	560	Use NACOL Clamp C406

Main Pipe Size	Accumulator Stop Valve		h (mm)	H (mm)						
	HF-ACC-32×10N*	HF-ACC-50×10N*		Acc : 20L	Acc : 30L	Acc : 40L	Acc : 50L	Acc : 60L	Acc : 120L	Acc : 160L
1 (25A)	○	—	142	1,219	1,464	1,679	2,001	2,139	2,334	2,447
1 1/4 (32A)	○	—	142	1,226	1,471	1,686	2,008	2,146	2,341	2,454
1 1/2 (40A)	○	—	161	1,245	1,490	1,705	2,027	2,165	2,360	2,473
2 (50A)	○	○	161	1,255	1,500	1,715	2,037	2,175	2,370	2,483
2 1/2 (65A)	—	○	176	1,290	1,535	1,750	2,072	2,210	2,405	2,518 *
3 (80A)	—	○	176	1,299	1,544	1,759	2,081	2,219	2,414	2,527 *

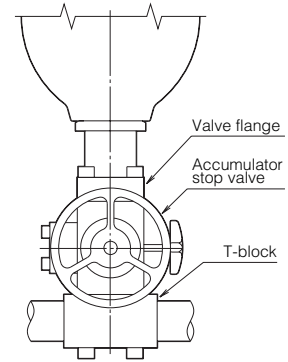
# Variation of Fittings for Accumulator Pipings



Manifold connection



Connection using Acc. stop valve and companion flange



Connection using Acc. stop valve and T-block

## List of fittings for pipings (for 21MPa usages)

Applicable Acc. (lit)	Valve flange	Acc. stop valve	Counter Flange	T-block
1~4	6FAM42 32D N21M	6080 HFACC 3210**	SSA32	6WT 032 0** 0** N21M
5~16	6FCM42 32D N21M	6080 HFACC 3210**	SSA32	6WT 032 0** 0** N21M
20~60	6FCM60 32D N21M	6080 HFACC 3210**	SSA32	6WT 032 0** 0** N21M
		6080 HFACC 3210NS	SSA50	6WT 050 0** 0** N21M
	6FCM60 50K N21M	6080 HFACC 3210NN		SSA80
		6080 HFACC 5010NS		
	6FCM60 80D X027	6080 HFACC 5010NN	SSA80	6WT 080 050 050 N21M
		6080 HFACC 5010NSL		
Y60 80~120	6FCM75 32D N21M	6080 HFACC 3210**	SSA32	6WT 032 0** 0** N21M
		6080 HFACC 3210NS	SSA50	6WT 050 0** 0** N21M
	6FCM75 50D N21M	6080 HFACC 3210NN		SSA80
		6080 HFACC 5010NS		
	6FCM75 80D X017	6080 HFACC 5010NN	SSA80	6WT 080 050 050 N21M
		6080 HFACC 5010NSL		
160	6FCM90 32D N21M	6080 HFACC 3210**	SSA32	6WT 032 0** 0** N21M
		6080 HFACC 3210NS	SSA50	6WT 050 0** 0** N21M
	6FCM90 50D N21M	6080 HFACC 3210NN		SSA80
		6080 HFACC 5010NS		
	6FCM90 80D X007	6080 HFACC 5010NN	SSA80	6WT 080 050 050 N21M
		6080 HFACC 5010NSL		
		6080 HFACC 5010NNL		