

2019

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OUR PRODUCTS

Designed for use with hydraulic and pneumatic systems.

Chemiquip offers a range of pressure snubbers, pressure limiting valves and flow check values to solve challenging applications

CHEMIQUIP PRODUCTS CO., INC. www.chemiquipproducts.com

Chemiquip Instrumentation Protection Products





INSTRUMENTATION SOLUTIONS

Ordering Data: (Example: 25BC)

CHEMIQUIP

1.	Size - Connection
	Male x Female
12	%" NPT x %" NPT
25	¼" NPT x ¼" NPT
50	½" NPT x ½" NPT
1M2	%" NPT x ¼" NPT
5M2	½" NPT x ¼" NPT
2M5	¼" NPT x ½" NPT
40	%" NPT x %" NPT (Special)
75	¾" NPT x ¾" NPT (Special)
90	Other configurations (Please Specify)
	High Pressure 20,000psi
2025	¼" NPT Male x ¼" NPT Female
2050	½" NPT Male x ½" NPT Female
	Male x Male
MxM	Add MxM to catalog number (Example: 50MxM)
	Female x Female
F	add F to catalog number (Example: F50)
2.	Material
	Dana

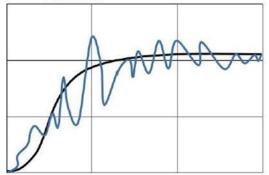
в	Brass
s	Stainless Steel (303)
S 6	316 Stainless Steel
м	Monel
z	Other (Please Specify)

3.	Porosity	Approx. micron rating
с	Highly Viscos Fluids (over 500 S.S.U.)	75
D	Oil (225 S.S.U. to 500 S.S.U.	40-45
E	Water & Light Oils (30 to 225 S.S.U.)	10
F	Vapor and Low Viscosity Fluids (under 30 S.S.U.)	7
G	Air or other Gases	2-5
нх	Pulsating Gas	1
нхх	Extreme Gas Pulsation	1/2
Р	Special porosity Special discs to repel water or smaller micron ratings	
	Other Threaded Connections	
BSPP	British Pipe thread parallel (Example: 25B-BSPP)	
BSPT	British Pipe thread taper (Example: 25B-BSPT)	
NPS	NPS (Example: 25B-NPS)	
мтс	Metric (Example: 25B-MTC)	
	Options	
	(Special) Monel porous disc (With monel housing)	
	Cleaned for oxygen service	
	Lead free	

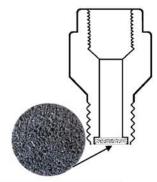
Applications

- > Increase instrument Life
- Eliminate pressure instrument failure due to hydraulic or pneumatic shock
- Smooth out pressure impulses and fluctuations
- > Remove harmful solids from actuating fluid
- > Assure steady average pressure readings
- For filtration of small quantities of fluids (for example, flue gas sampling);
- > To be used As a metering device

With Snubber Without snubber



In addition to style and size of ports specified. Chemiquip Snubbers are available in a wide variety of other sizes and connections.



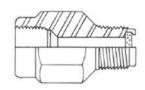
Standard Industrial pressure snubbers (NPT Threads)

%" NPT Male x %" NPT Female

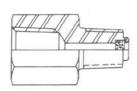
Model No.	Material	Length	Hex	Net weight	Maximum Pressure Rating
12B	Brass	1.47	%"	½ oz.	3,000 psi
128	Stainless Steel (303)	1.1"	%**	½ oz.	5,000 psi
1286	316 Stainless Steel	1.17	%a"	½ oz.	5,000 psi

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1/4" NPT Male x 1/4" NPT Female Maximum Pressure Rating Net weight Model No. Material Length Hex 1.5" 1/2" 10,000 psi 25B Brass 2 oz. 15,000 psi 255 Stainless Steel (303) 1.5" 3/4" 2 oz. 15,000 psi 2586 316 Stainless Steel 1.5" % 2 oz. 15,000 psi 25M Monel 1.5" % 2 oz.



1/2" NPT Male x	2" NPT Male x 1/2" NPT Female				
Model No.	Material	Length	Hex	Net weight	Maximum Pressure Rating
50B	Brass	2.2"	1%*	8 oz.	10,000 psi
50S	Stainless Steel (303)	2.2"	1%"	8 oz.	15,000 psi
50\$6	316 Stainless Steel	2.2"	1%*	8 oz.	15,000 psi
50M	Monel	2.2"	1%"	8 oz.	15,000 psi



High Pressure 20,000 psi - Stainless Steel (Special) Model No. Material Length Hex 1

1	Model No.	Material	Length	Hex	Net weight	Maximum Pressure Rating
1	2025	1/4" NPT Male x 1/4" NPT Female	2"	1%*	????	20,000 psi
-	2050	%" NPT Male x %" NPT Female	2.5*	2"	12 oz.	20,000 psi

Add suffix to model no. to Indicate desired porosity (e.g. 12BE)

	Porosity	Approx. micron rating
с	Highly Viscos Fluids (over 500 S.S.U.)	75
D	Oil (225 S.S.U. to 500 S.S.U.	40-45
E	Water & Light Oils (30 to 225 S.S.U.)	10
F	Vapor and Low Viscosity Fluids (under 30 S.S.U.)	7
G	Air or other Gases	2-5
HX	Pulsating Gas	1
нхх	Extreme Gas Pulsation	%
Р	Special porosity Special discs to repel water or smaller micron ratings	

	Other Threaded Connections
BSPP	British Pipe thread parallel (Example: 258-BSPP)
BSPT	British Pipe thread taper (Example: 258-BSPT)
NPS	NPS (Example: 25B-NPS)
	Metric

	Options (Special)
	(Special) Monet porous disc (With monel housing)
	Cleaned for oxygen service
LF	Lead free

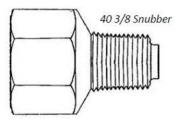


Special NPT pressure Snubbers

Chemiquip Snubbers Are available in any configuration use these numbers by ordering

- **1. Select configuration**
- 2. Select material
- 3. Select porosity

Model No.	Configuration
40	3%" NPT Male x 3%" NPT Female
75	½" NPT Male x ½" NPT Female
1M2	%" NPT Male x %" NPT Female
5M2	1/2" NPT Male x 1/2" NPT Female
2M5	1/4" NPT Male x //2" NPT Female
90	Other configurations Male x Female



High Pressure 20,000psi

2025	1/2" NPT Male x 1/2" NPT Female	
2050	1/2" NPT Male x 1/2" NPT Female	

Male x Mal	le
25MXM	1/2" NPT Male x 1/2" NPT Male
50MXM	%" NPT Male x %" NPT Male
90MXM	Other configurations Male x Male

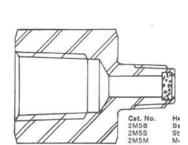
Female x	Female x Female			
F25	1/2" NPT Female x 1/2" NPT Female			
F50	55* NPT Female x 55* NPT Female			
F90	Other configurations Female x Female			

2.	Material
в	Brass
s	Stainless Steel (303)
S6	316 Stainless Steel
м	Monel
Z	Other (Please Specify)

Add suffix to model no. to Indicate desired porosity (e.g. 12BE)

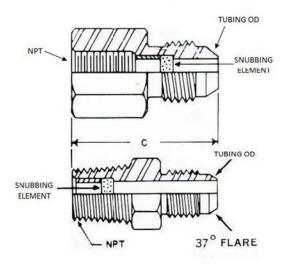
3.	Porosity	Approx. micron rating
с	Highly Viscos Fluids (over 500 S.S.U.)	75
D	Oil (225 S.S.U. to 500 S.S.U.	40-45
E	Water & Light Oils (30 to 225 S.S.U.)	10
F	Vapor and Low Viscosity Fluids (under 30 S.S.U.)	7
G	Air or other Gases	2-5
ΗΧ	Pulsating Gas	1
нхх	Extreme Gas Pulsation	16
ρ	Special porosity Special discs to repel water or smaller micron ratings	

	Other Threaded Connections
BSPP	British Pipe thread parallel (Example: 408-BSPP)
BSPT	British Pipe thread taper (Example: 408-BSPT)
NPS	NPS (Example: 40B-NPS)
	Metric



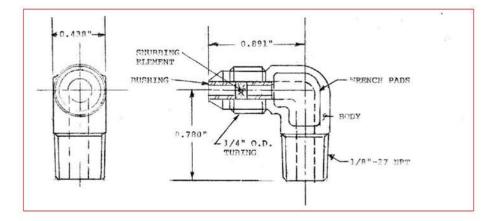
	Coupling Flared x NPT	(Stainless Steel)				
Model No.	Tubing (O.D)	NPT Pipe	Length	Hex ?	Net Weight	Maximum Pressure Rating ?
12-FR-4	¥*	1/2" Female	1 3/16"		1 oz.	
12-FR-5	5/16"	1/4" Female	1 3/16"		1 oz.	
25-FR-4	×*	1/4" Female	1 %"		1 oz.	
25-FR-5	5/16"	1/4" Female	1 7/16*		1 oz.	
25-FR-6	⅔*	1/4" Female	1 7/16"		1 oz.	
12-MR-4	V."	%" Male	11/1**	1/2"?	???	
12-MR-5	5/16"	%" Male	1 3/16"		2 oz.	
25-MR-4	14*	¼" Male	1 %*		???	
25-MR-5	5/16"	1/4" Male	1 5/16"		2 oz.	
25-MR-6	3/8"	1/4" Male	1 7/16"		777	
50-MR-4	1/4"	½" Male	???		3 oz.	
50-MR-5	5/16"	½" Male	???		3 oz.	
50-MR-6	3%"	1/2" Male	???		3 oz.	

NPT x Flared Tubing Connections Pressure snubbers



Housing:

- > 303 Stainless Steel
- > 316 Stainless Steel
- > Aluminum
- > Monel



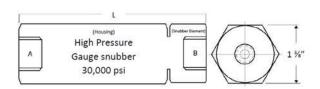


Special Purposes High Pressure Gauge Snubber

The Chemiquip Super High-Pressure snubber is Designed for the protection of pressure gauges or other pressure devices when they are called upon to work under the extremes of pressure instrument encountered in many chemical processing, refining and synthesizing industry processes. The porous snubbing element is available in standard porosities for use with a wide variety of liquid viscosities and gases. When the snubber assembly is placed in the line just ahead of the pressure instrument, the instrument reacts to line pressure changes at a rate which is proportional to the pressure differential across the porous membrane. This results in a modularly rapid, but smooth, action of the instrument which is free of fluctuation or pulsations. The snubber element is calibrated to permit equilibrium readings upscale or downscale in approximately three seconds. When it is used with a pulsing system, a mean average pressure reading can be expected with an error to the order of magnitude of 1%. Unlike other types of pressure snubbers, chemiquip porous stainless-steel snubbers resist plugging in service. This freedom from plugging results from the large porous surface which is exposed to the actuating media. The porous material will not erode in service.

- Available in 4 set ranges, the shut-off pressure is adjustable from 10 to 3,000 psi
- > Housing is easily disassembled for cleaning or service
- No moving parts
- Fabricated from Stainless Steel Type 316 for maximum operating Pressures of 30,000 psi or 60,000 psi.
- > Unique design, utilizing an O-Ring seal makes it possible to contain pressures to 60,000 psi without applying extreme force to threaded connections.
- > Special designs or threaded connections are available to order.





Special Purposes High Pressure Gauge Snubber



Snubber Element (When ordering, please specify both housing and snubbing element catalog numbers.)

Catalog #	Type of Service:	Viscosity range	Housing Material	Net Weight	
HP-50C	High Viscosity Fluids	over 500 S.S.U.			
HP-50D	Heavy Oil	225 S.S.U. to 500 S.S.U.			
HP-50E	Water & Light Oils	30 to 225 S.S.U.	_		
HP-50F	Vapor and Low Viscosity Fluids	under 30 S.S.U.	Series 300 Stainless Steel	3 oz.	
HP-50G	Air or other Gases				
HP-50HX	Pulsating Gas		_		-
HP-50HXX	Extreme Gas Pulsation				1

Housing 30,000psi

CHEMIOUIP

Catalog #	Tubing Connection (AMINCO) "A"	Pipe Connection "B"	Housing	Net Weight	Length "L'	
30-31 HF-4B-GS	628	1⁄4" NPT				
30-31 HF-4-GS		1/4" TUBE AMINCO (9/16" - 18NF2)	Туре 316		1 0// 07	
30-31 HF-6B-GS	978	1⁄4" NPT			- 4 - 3/16"	
30-31 HF-6-GS	3/8"	1/4" TUBE AMINCO (3/4"-16NF2)	Stainless Steel			
30-31 HF-4-D-GS	1/4"	½" NPT			1.0/10"	
30-31 HF-6D-GS	3⁄8"	½" NPT	-		4-9/16"	
lousing 60,000psi						
60-31 HF-4B	478	14" NPT				
60-31 HF-4-GS	1/4"	1/4" TUBE AMINCO (9/16"-18NF2)			-	
60-31 HF-6B-GS	3/1	¼" NPT	Type 316		- 51⁄2"	
60-31 HF-6-GS	3%"	1/4" TUBE AMINCO (3/4"-16NF2)	Stainless Steel		e:	
60-31 HF-4-D-GS	1/4"	½" NPT			- 6"	
60-31 HF-6D-GS	3/6"	1/2" NPT		3.	- 6	

Special designs or threads are available to order



CHEMIQUIP == High Pressure Limiting Valve

The Automatic action Pressure Limiting Valve-Snubbers Model 5460 & 5500 is for use with liquid & gases to protect systems from over range at operating pressure up to 22,500 psi

Achieves pressure gauge protection Automatic positive protection Accurate repeatable performance

- > Available in 3 set ranges, the shut-off pressure is adjustable from 100 to 10,000 psi
- > Chemiquip snubber assures positive, repeatable performance of valve and gauge by protecting against surges, pulsations and entrained solids inclusions
- > Swift, Simple external adjustment
- > Outfitted with ¼" NPT (5460) or ½" NPT (5500) female inlet and outlet ports
- > Compact & installs in line
- > Each valve is tested before shipping

The valve automatically shuts off pressure to the gauge if the pressure rises above the adjustable pre-set pressure, and automatically restores the instrument on-line when pressure falls below the pre-set value. Allows instruments of different ranges to be connected to a common manifold.

The valve may be assembled with a snubber at inlet for complete pressure and surge or pulsation control.

The snubber will also serve to smooth the reaction of the valve to pressure changes, thus avoiding erratic performance by insuring application of pressure at a constant rate.

The valve may be assembled at any point or in any position in an instrument system, Adjacency to the instrument is not important to the proper operation of the valve.



Specifications

Pressure set ranges:

Style-L 100-800 psi Style-M 800-2500 psi Style-N 2500-10,000 psi

Inlet operating pressure:

12,000 psi (5460) 22,500 psi (5500)

Temperature range:

0°F to 400°F (Viton) -20°F to 250°F (Buna) -70°F to 250°F (EPDM)

High Pressure Limiting Valve PLV-5460 & 5500 Data Sheet

Ordering Code:

	Example:							
PLV-	5460		L :	V	C			
1.	Connection							
5460	¼" NPT Female							
5500	1/2" NPT Female							
2.	Material		~					
	Stainless Steel 300 Series							
z	(Special) Other Material							
3.	Style							
L	100-800 Psi							
м	800-2500 Psi							
N	2500-10,000 Psi							
4.	Seal / Temperature Range (°F)*							
v	Viton 0°F to +400°F*							
В	Buna -20°F to +250°F							
P	EPDM -70°F to +250°F							
z	(Special) Other Seals (Please Specify)							
5.	Snubber (Type of Service)							
С	Highly Viscosity Fluids (over 500 S.S.U.)							
D	Oil (225 S.S.U. to 500 S.S.U.							
E	Water & Light Oils (30 to 225 S.S.U.)							
F	Vapor and Low Viscosity Fluids (under 30 S.S.U.)							
G	Air or other Gases							
нх	Pulsating Gas							
нхх	Extreme Gas Pulsation							
NS	No Snubber							
6.	Options							
	Optional Factory Preset (Please Specify)							
	Material Traceability Report							
	Hydrostatic Testing							
	Cleaned for Oxygen Service							
	Service Stainless Steel tags							
	Repair kit							
	Male adapter with or without snubber							
	Special end connections							

* It is the customer's responsibility to make sure that the medium is compatible with the O-rings



Pressure Limiting Valve Gauge Saver

The Automatic action Pressure Limiting Valve-Snubbers Model 255, 2550 and 71620 is for use with liquid & gases to protect systems from over range at operating pressure up to 15,000 psi

Achieves pressure gauge protection Automatic positive protection Accurate repeatable performance

- > Available in 4 set ranges, the shut-off pressure is adjustable from 10 to 3,000 psi
- Chemiquip snubber assures positive, repeatable performance of valve and gauge by protecting against surges, pulsations and entrained solids inclusions
- > Swift, Simple external adjustment
- > Entire unit length 3" (255) or 4" (2550)
- Outfitted with ¼" NPT (255), ½" NPT (2550) or 716-20 UNF Male or female inlet and female outlet ports
- > Compact & installs in line easily
- > Each valve is tested before shipping

The valve automatically shuts off pressure to the gauge if the pressure rises above the adjustable pre-set pressure, and automatically restores the instrument on-line when pressure falls below the pre-set value. Allows instruments of different ranges to be connected to a common manifold.

The valve may be assembled with a snubber at inlet for complete pressure and surge or pulsation control.

The snubber will also serve to smooth the reaction of the valve to pressure changes, thus avoiding erratic performance by insuring application of pressure at a constant rate.

The valve may be assembled at any point or in any position in an instrument system, Adjacency to the instrument is not important to the proper operation of the valve.



PLV-255B

Specifications

Pressure set ranges:

Style-3 10-150 psi Style-4 150-500 psi Style-5 500-1000 psi Style-6 1000-3000 psi

Inlet operating pressure:

3000 psi (255-Brass) 8000 psi (255-Stainless Steel) 10,000 psi (2550-Stainless Steel) 15,000 psi (71620-Stainless Steel)

Minimum burst pressure:

15,000 psi (255-Brass) 20,000 psi (255 & 2550-Stainless Steel)

Temperature range:

0°F to 400°F (Viton) -20°F to 250°F (Buna) -70°F to 250°F (EPDM)



Pressure Limiting Valve

Gauge Saver

Ordering Code:

	Example:						
PLV-	2558	3	V	С			
1.	Body						
255S	1/4" NPT Female Stainless Steel 300 Series						
255SK	1/4" NPT Female 316 Stainless steel Meets N.A.C.E MR0175						
255 B	¼" NPT Female Brass						
255M	1/4" NPT Female Monel (Special)						
2550	1/2" NPT Female 316 Stainless steel Meets N.A.C.E MR0175						
2550M	1/2" NPT Female Monel (Special)						
71620	7/16-20 UNF Female						
MxF	add MxF for male x female valve (255S-MxF)						
2.	Style						
3	10-150 Psi						
4	150-500 Psi						
5	500-1000 Psi						
6	1000-3000 Psi						
3.	Seal / Temperature Range (°F)*						
v	Viton 0°F to +400°F*						
в	Buna -20°F to +250°F						
P	EPDM -70°F to +250°F						
Z	(Special) Other Seals (Please Specify)						
4.	Snubber (Type of Service)**						
С	Highly Viscosity Fluids (over 500 S.S.U.)						
D	Oil (225 S.S.U. to 500 S.S.U.						
E	Water & Light Oils (30 to 225 S.S.U.)						
F	Vapor and Low Viscosity Fluids (under 30 S.S.U.)						
G	Air or other Gases						
нх	Pulsating Gas						
нхх	Extreme Gas Pulsation						
NS	No Snubber						
5.	Options						
	Optional Factory Preset (Please Specify)						
	Material Traceability Report						
	Hydrostatic Testing						
	Cleaned for Oxygen Service						
	Stainless Steel tags						
	Repair kit						
	Special end connections						

* It is the customer's responsibility to make sure that the medium is compatible with the O-rings

**Snubber for model no 71620 has to be ordered separately