

2019

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

1/2

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	1/2" NPT x 1/4" NPT	
5M2	½" NPT x ¼" NPT	
2M5	1/2" NPT x 1/2" NPT	
40	%" NPT x %" NPT (Special)	
75	¾" NPT x ¾" NPT (Special)	
90	Other configurations (Please Specify)	
	High Pressure 20,000psi	
2025	1/4" NPT Male x 1/4" 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	
в	Brass	
s	Stainless Steel (303)	
S6	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

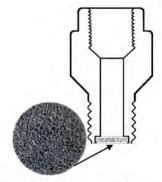
Increase instrument Life

Applications

- 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.



Special porosity Special discs to repel water or smaller micron ratings

HXX

BSPP

BSPT

NPS

MTC

P

Extreme Gas Pulsation

Other Threaded Connections

NPS (Example: 25B-NPS)

Metric (Example: 25B-MTC)

Cleaned for oxygen service

Options

Lead free

British Pipe thread parallel (Example: 25B-BSPP)

British Pipe thread taper (Example: 25B-BSPT)

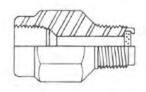
(Special) Monel porous disc (With monel housing)

Standard Industrial pressure snubbers (NPT Threads)

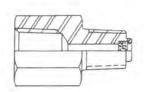
1/8" NPT Male x	1/8" NPT Female				
Model No.	Material	Length	Hex	Net weight	Maximum Pressure Rating
12B	Brass	1.1"	%*	½ oz.	3,000 psi
128	Stainless Steel (303)	1.1"	3/2"	½ oz.	5,000 psi
1286	316 Stainless Steel	1.1"	56	½ oz.	5,000 psi

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



1/2" NPT Male x 1/2" NPT Female					
Model No.	Material	Length	Hex	Net weight	Maximum Pressure Rating
50B	Brass	2.2"	11%*	8 oz.	10,000 psi
50S	Stainless Steel (303)	2.2"	11/4"	8 oz.	15,000 psi
5086	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	Net weight	Maximum Pressure Rating
2025	1/4" NPT Male x 1/4" NPT Female	2"	1%	7777	20,000 psi
2050	1/2" NPT Male x 1/2" NPT Female	2.5"	2"	12 oz.	20,000 psi

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

Highly Viscos Fluids (over 500 S.S.U.) 75 Oil (225 S.S.U. to 500 S.S.U. 40- Water & Light Oils (30 to 225 S.S.U.) 10 Vapor and Low Viscosity Fluids (under 30 S.S.U.) 7	5
Water & Light Olis (30 to 225 S.S.U.) 10 Vapor and Low Viscosity Fluids (under 30 S.S.U.) 7	5
Vapor and Low Viscosity Fluids (under 30 S.S.U.) 7	
Air or other Gases 2-5	
Pulsating Gas 1	
Extreme Gas Pulsation %	
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)
	Metric

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

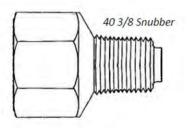


Special NPT pressure Snubbers

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	%" NPT Male x %" NPT Female	
75	%" NPT Male x %" NPT Female	
1M2	%" NPT Male x %" NPT Female	
5M2	5/2 NPT Male x 5/2 NPT Female	
2M5	1/2" NPT Male x 1/2" NPT Female	
90	Other configurations Male x Female	



High Pressure 20,000psi

2025	14" NPT Male x 14" NPT Female
2050	1/2" NPT Male x 1/2" NPT Female

Male x Mal	e	
25MXM	1/4" NPT Male x 1/4" NPT Male	
50MXM	1/2" NPT Male x 1/2" NPT Male	
90MXM	Other configurations Male x Male	

Female x Female

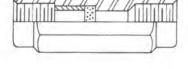
Female A	remaie
F25	1/2* NPT Female x 1/2* NPT Female
F50	%* NPT Female x %* NPT Female
F90	Other configurations Female x Female

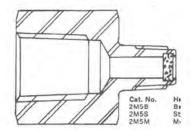
2.	Material
в	Brass
s	Stainless Steel (303)
S6	316 Stainless Steel
м	Monel
z	Other (Please Specify)

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
нх	Pulsating Gas	1
HXX	Extreme Gas Pulsation	1/2
P	Special porosity Special discs to repel water or smaller micron ratings	

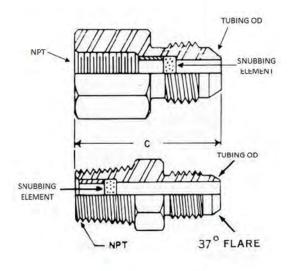
	Other Threaded Connections	
BSPP	British Pipe thread parallel (Example: 40B-BSPP)	
BSPT	British Pipe thread taper (Example: 408-BSPT)	
NPS	NPS (Example: 40B-NPS)	
	Metric	





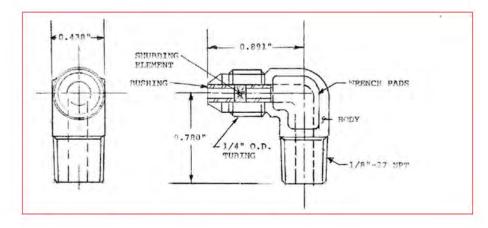
	Coupling Flared x NPT	(Stainless Steel)				
Model No.	Tubing (O.D)	NPT Pipe	Length	Hex?	Net Weight	Maximum Pressure Rating ?
12-FR-4	1/2"	1/2" Female	1 3/16"		1 oz.	
12-FR-5	5/16"	1%" Female	1 3/16*		1 oz.	
25-FR-4	1/2"	1/2" Female	1%		1 oz.	
25-FR-5	5/16"	1/4" Female	1 7/16"		1 oz.	
25-FR-6	%"	1/4" Female	1 7/16"		1 oz.	
12-MR-4	1/4	1/4" Male	1%*	1/2"?	???	
12-MR-5	5/16"	%" Male	1 3/16"		2 oz.	
25-MR-4	1/4"	1/4" Male	1 %"		355	
25-MR-5	5/16"	1/4" Male	1 5/16"		2 oz.	
25-MR-6	%"	¼" Male	1 7/16*		???	
50-MR-4	1/2*	1/2" 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



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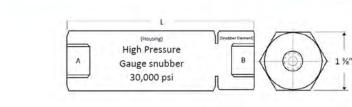


Special Purposes High Pressure Gauge Snubber

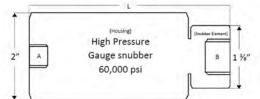
The Chemiquip Super High-Pressure snubber is Designed for the protection of pressure gauges or other pressure devices when they are called upon to work under the extremes of pressure instrument encountered in many chemical processing, refining and synthesizing industry processes. The porous snubbing 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.

- > 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.	la de la de		
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		37		

Housing 30,000psi

CHEMIQUIP

Catalog #	Tubing Connection (AMINCO) "A"	Pipe Connection "B"	Housing	Net Weight	Length "L'	
30-31 HF-4B-GS	4.70	1/4" NPT				
30-31 HF-4-GS	- 1/2"	1/4" TUBE AMINCO (9/16" - 18NF2)			-	
30-31 HF-6B-GS	2/8	1/4" NPT	Type 316		- 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		_	1.040	
30-31 HF-6D-GS	3/8"	½" NPT			- 4-9/16"	
Housing 60,000psi						
60-31 HF-4B	+2#	1/4" NPT				
60-31 HF-4-GS	- 1/4"	1/4" TUBE AMINCO (9/16"-18NF2)				
60-31 HF-6B-GS	3/7	1⁄4" NPT	Type 316		51/2"	
60-31 HF-6-GS		1/4" TUBE AMINCO (3/4"-16NF2)	Stainless Steel		-	
60-31 HF-4-D-GS	1/4"	½" NPT			0"	
60-31 HF-6D-GS	3/8"	½" NPT			- 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:

PLV-	5460	L	v	С			
1.	Connection						
5460	1/2" NPT Female						
5500	1/2" NPT Female						
2.	Material						
<u>2-1)</u>	Stainless Steel 300 Series	1000					
z	(Special) Other Material						
3.	Style						
L	100-800 Psi						
M	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

4.1



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:

DIV	Example:	2	V	0			
PLV-	2558	3	V	C			
1.	Body		-				
255S	1/4" NPT Female Stainless Steel 300 Series						
255SK	1/2" NPT Female 316 Stainless steel Meets N.A.C.E MR0175						
255B	1/4" 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