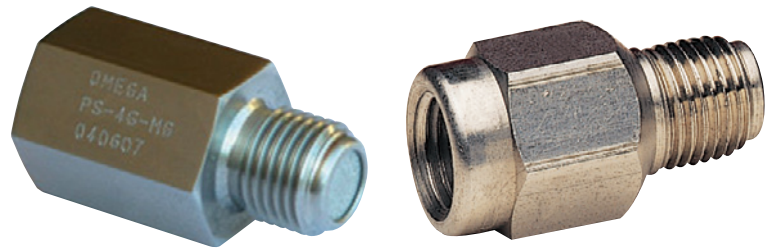


**omega.com**<sup>®</sup>

Ω OMEGA<sup>®</sup>

## PS Series Pressure Snubbers



INSTRUCTION  
SHEET

M1180/0107

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This envelope contains a  
POROUS METALLIC PRESSURE SNUBBER

### Materials of Construction

Housings: 303 Stainless Steel  
Porous Discs: 316 Stainless Steel

#### NOTE

OMEGA<sup>®</sup> Snubbers are available in other shapes, sizes, threads and materials on special order. Prices quoted on application.

### Maximum Pressure Ratings:

Material: Stainless Steel		
Catalog No.	Thread Size	Pressure Rating
PS-8*	1/8" x 1/8" NPT	5,000 PSI
PS-8*-M	1/8" x 1/8" BSPT	
PS-8*-MG	1/8" x 1/8" G	
PS-4*	1/4" x 1/4" NPT	10,000 PSI
PS-4*-M	1/4" x 1/4" BSPT	
PS-4*-MG	1/4" x 1/4" G	
PS-2*	1/2" x 1/2" NPT	10,000 PSI
PS-2*-M	1/2" x 1/2" BSPT	
PS-2*-MG	1/2" x 1/2" G	

\* Porosity Grade D, E or G.

Recommended Porosity				
Porosity Designation	Porosity Opening mm (in)		Cap CFH@ 1-PSI -Diff. Pressure	Type of Usage
	Mean	Max.		
D	0.0635 (0.0025)	0.1270 (0.0050)	6.5	Oil (Heavy 225 to 500 S. S. U.)
E	0.0330 (0.0013)	0.0635 (0.0025)	3.0	Water and Light Oils 30 to 25 S. S. U)
G	0.0102 (0.0004)	0.0025 (0.0001)	1.1	Air or Other Gases

### Porous Element Snubbers Used As A Flow Restrictor

Because OMEGA<sup>®</sup> Porous Metal Snubbers are capable of precise flow control, it is possible to use them as flow restrictors or bleed controls.

If the snubber is to be used as a flow controller, it is recommended that the snubber be protected by a suitable filter to prevent change in flow characteristics as a result of the collection of random entrained solids on the porous element.

### Instructions For Use Of Porous Element Pressure Snubbers

The accompanying porosity recommendations will accommodate approximately 85% of all pressure sensitive device applications. For violently surging or pulsing systems, the next finer porosity snubber may be indicated. If the instrument seems to be sluggish or to lack responsiveness to transient pressure changes within the system, the next more porous snubber should be substituted. Consistency of performance from one snubber to another of the same porosity is guaranteed.

All industrial type snubbers are equipped with dry-seal type pipe threads. If possible, the snubber should be assembled to the system without the use of pipe joint compound or other similar material. If pipe joint compound is used, extreme care should be taken to prevent coating the porous element with the compound. If pipe joint compound is necessary, it is strongly advised that one of the solid resinous types of compound be used. Teflon<sup>®</sup> plastic tape is suggested as being the most efficient of these materials.

Teflon<sup>®</sup> is a registered trademark of DuPont.

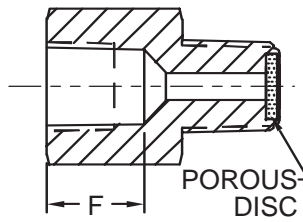
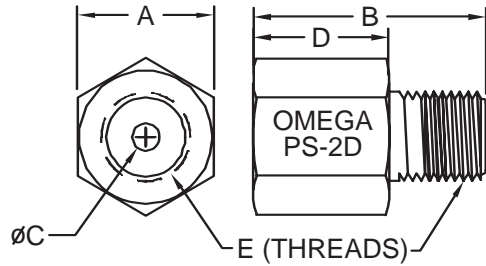
### Cleaning Instructions

All snubbers may be washed in solvents such as carbon tetrachloride, benzene, naphtha, etc. Where chemical cleaning is required, boiling in any of the following solutions will be found effective, depending on which solution the contaminant is most soluble in:

**Stainless Steel:** 15% caustic soda (1 part soda; 6 parts water) or 15% nitric acid (1 part acid; 6 parts water).  
Boil 15 to 45 minutes.

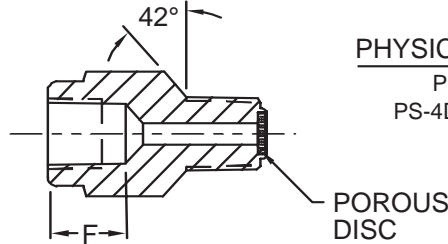
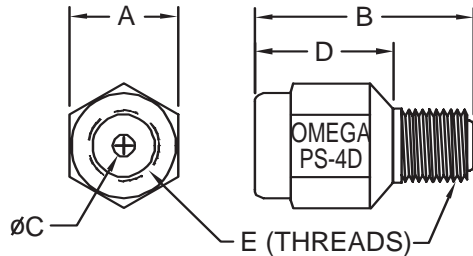
After boiling, wash snubber in running tap water for approximately 45 minutes. DO NOT FORCE TAP WATER THROUGH THE SNUBBER AS THIS WILL PLUG IT.

# PRESSURE SNUBBERS REFERENCE DIMENSIONS



## PHYSICAL PROFILE FOR

PS-8D, -8E, -8G  
 PS-2D, -2E, -2G  
 PS-8D-M, -8E-M, -8G-M  
 PS-2D-M, -2E-M, -2G-M  
 PS-8D-MG, -8E-MG, -8G-MG  
 PS-4D-MG, -4E-MG, -4G-MG  
 PS-2D-MG, -2E-MG, -2G-MG



## PHYSICAL PROFILE FOR

PS-4D, -4E, -4G  
 PS-4D-M, -4E-M, -4G-M

PART NUMBER	DIM. A HEX SIZE	DIM. B LENGTH	DIM. C DIA. THRU	DIM. D BODY LENGTH	DIM. E EXTERNAL/ INTERNAL THREADS	DIM. F INTERNAL MIN DIA. DEPTH
PS-8D, -8E, -8G	5/8"	1 3/16"	3/16"	21/32"	1/8 NPT	29/64"
PS-4D, -4E, -4G	3/4"	1 15/32"	1/4"	31/32"	1/4 NPT	11/16"
PS-2D, -2E, -2G	1 1/4"	2 5/32"	1/4"	1 1/4"	1/2 NPT	1"
PS-8D-M, -8E-M, -8G-M	17 mm	1 3/16"	3/16"	21/32"	1/8-28 BSPT	29/64"
PS-4D-M, -4E-M, -4G-M	19 mm	1 15/32"	1/4"	31/32"	1/4-19 BSPT	11/16"
PS-2D-M, -2E-M, -2G-M	32 mm	2 5/32"	1/4"	1 1/4"	1/2-14 BSPT	1"
PS-8D-MG, -8E-MG, -8G-MG	17 mm	1 3/16"	3/16"	21/32"	1/8-28 G	29/64"
PS-4D-MG, -4E-MG, -4G-MG	19 mm	1 15/32"	1/4"	31/32"	1/4-19 G	11/16"
PS-2D-MG, -2E-MG, -2G-MG	32 mm	2 5/32"	1/4"	1 1/4"	1/2-14 G	1"



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If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear is not warranted, include but are not limited to contact points, fuses, and triacs.

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## RETURN REQUESTS/INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence.

The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR **WARRANTY** RETURNS, please have the following information available BEFORE contacting OMEGA:

1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

FOR **NON-WARRANTY** REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

1. Purchase Order number to cover the COST of the repair,
2. Model and serial number of the product, and
3. Repair instructions and/or specific problems relative to the product.

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