



# Pilot System Strainers & Restriction Assemblies



**X46A Straight**



**X46B Angle**

- X46A/X46B Flow Clean Strainer
- Self Scrubbing Cleaning Action
- Straight Type or Angle Type
- Many Sizes Available

The Cla-Val Model X46 Flow Clean Strainer is composed of a heavy mesh monel inner screen covered with a fine mesh monel outer screen. These two elements are securely soldered to a sturdy brass bar stock housing. The outer screen is a 40 x 40 mesh screen with .008" wire. This strainer is designed to prevent passage of foreign particles larger than .015". It is especially effective against such contaminants as algae, mud, scale, wood pulp, moss, and root fibers. Available in several different sizes as shown. There is a model for every Cla-Val Valve.

The Flow Clean strainer operates on a velocity principle utilizing the circular "air foil" section to make it self cleaning. Impingement of particles is on the "leading edge" only. The low pressure area on the downstream side of the screen prevents foreign particles from clogging the screen. There is also a scouring action, due to eddy currents, which keeps most of the screen area clean.

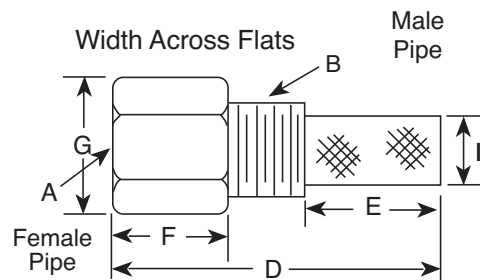
The strainer can be installed in any piping system where there is a moving stream to keep it clean. On Cla-Val Valves the installation is made in the body tapping so the screen is projecting into the flow stream.

## Dimensions (In Inches)

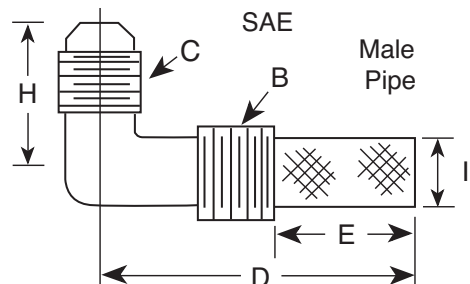
Straight Type A (In Inches)								
A	B	C	D	E	F	G	H	I
1/8	1/8	-	1 1/4	3/4	1/2	1/2	-	1/4
1/4	1/4	-	2 1/4	1	3/4	3/4	-	3/8
3/8	3/8	-	2 1/2	1	7/8	7/8	-	1/2
1/2	1/2	-	2 1/2	1 1/4	1/2	7/8	-	3/4
3/4	3/4	-	3	1 1/4	1	1 1/8	-	3/4
1	1	-	3 3/8	2	1 1/2	1	-	7/8
1 1/4	1 1/4	-	4	2	1	1 1/2	-	7/8
1 1/2	1 1/2	-	4 1/4	2 1/4	1 1/2	1 1/4	-	7/8
1 3/4	1 3/4	-	4 1/2	2 1/2	1 1/4	1 3/4	-	7/8
2	2	-	4 3/4	2 3/4	1 1/2	1 3/4	-	7/8
Angle Type B (In Inches)								
-	1/8	1/4	1 3/8	5/8	-	-	7/8	1/4
-	1/4	1/4	1 1/4	3/4	-	-	1	3/8
-	3/8	1/4	2	7/8	-	-	1	1/2
-	1/2	3/8	1 1/8	7/8	-	-	1	1/2
-	3/4	3/8	2 1/8	1	-	-	1 1/4	5/8

## Specifications

Body — Brass (also available in stainless steel on special order)  
 Strainer Screen — fabricated from Monel wire.



**Straight Type A**



**Angle Type B**

## When Ordering, Please Specify:

- Catalog No. X46
- Straight Type or Angle Type



### X42N-2

#### Strainer and Needle Valve Assembly



Size	Body Material.	Screen Material.
3/8"	Standard: Bronze	Monel
3/8"	Option: Bronze	Stainless Steel
3/8"	Option: Stainless Steel	Stainless Steel

### X42N-3

#### Strainer and Needle Valve Assembly



Size	Body Material.	Screen Material.
3/8"	Standard: Bronze	Monel
3/8"	Option: Bronze	Stainless Steel
3/8"	Option: Stainless Steel	Stainless Steel

### X43

#### "Y" Pattern Strainer



Size	Body Material	Screen Material
3/8"	Standard: Bronze	Stainless Steel

### X44A

#### Strainer and Orifice Assembly



Size	Body Material	Screen Material
3/8"	Standard: Bronze	Monel
3/8"	Option: Bronze	Stainless Steel
3/8"	Option: Stainless Steel	Stainless Steel

### X58B

#### Restriction Assembly



Size	Body Material	Restriction Fitting Material
1/4 - 3/8"	Standard: Bronze	Delrin
	Option: Bronze	Delrin
	Option: Stainless Steel	Stainless Steel

### X58C

#### Restriction Assembly



Size	Body Material	Restriction Fitting Material
1/4 - 3/8"	Standard: Bronze	Bronze
	Option: Bronze	Delrin
	Option: Stainless Steel	Stainless Steel



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