

Colonial Y-Strainers are suitable for flow rates of up to 150gpm, and can be installed either vertically or horizontally. Strainers are usually sized so that their start up pressure drop is no greater than 2 psi, with a line velocity not to exceed 5 fps.

#### SELECTION AND MAINTENANCE

The strainer and branch of the Y-Strainer must be pointing downward so that gravity enables the trapping of debris. The system must be de-pressurized and drained prior to performing maintenance on plastic Y-Strainers. When removing the union nut to pull the strainer cartridge for cleaning or replacement, fluid trapped in the strainer will drain out. Care should be taken during this maintenance process so that the drainage is contained.

Plastic Y-Strainers are for applications which require infrequent cleaning and in which the process media is environmentally safe.

When purchasing a Y-Strainer, it is recommended that a spare cartridge is purchased. This will expedite maintenance because the operator may remove the dirty cartridge and immediately replace it with a clean one. The dirty cartridge can then be cleaned and stored for the next maintenance cycle.

#### Materials

PVC Soc X Soc with EPDM or Viton O-Rings



Revised 1/7/21

### FLUID FLOW COEFFICIENT

\*Gallons per minute @ 1 psi pressure drop

Nominal Size	C <sub>v</sub> *
1/2"	2.25
3/4"	7.80
1"	15.00
1-1/4"	38.00
1-1/2"	50.00
2"	73.00

### TEMPERATURE DE-RATING FOR STRAINERS, VALVES & UNION (ABOVE 73°F)

TEMP (°F)	PVC
73	1.00
80	0.88
90	0.75
100	0.62
110	0.50
120	0.40
130	0.30
140	0.22
150	NR
160	NR
170	NR
180	NR
200	NR
210	NR
240	NR
280	NR

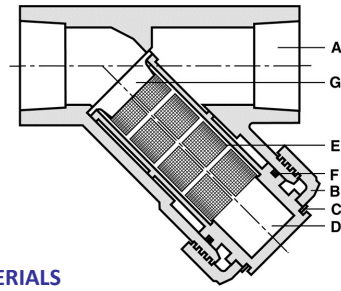
### PART NUMBERS Socket X Socket

Size	PVC/EPDM PVC/VITON		Ctn Qty
	Part No.	Part No.	
1/2	V07281B	V07282B	24
3/4	V08281B	V08282B	24
1	V10281B	V10282B	24
1 1/2	V17281B	V17282B	12
2	V20281B	V20282B	9

### MESH SIZES

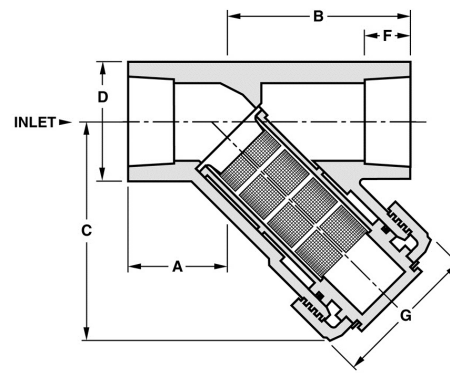
The mesh sizes for the Colonial screens as follows:

- 20 mesh Stainless Steel screens have a square opening 0.032"
- 20 mesh Polypropylene screens have a square opening 0.028"
- 40 mesh Stainless Steel screens have a square opening 0.016"



### COMPONENTS AND MATERIALS

Part Letter	Component	Quantity	Material
A	Body	1	PVC
B	Union Nut	1	PVC
C	Retainer	1	PVC
D	Strainer Body	1	PVC
E	Strainer Screen	1	SS, PP
F	Strainer O-Ring	1	EPDM, VITON
G	Strainer Adapter	1	PVC



### DIMENSIONS

Slip X Slip

Size	A	B	C	D	F	G
1/2	1.219	2.125	2.625	1.188	0.875	1.906
3/4	1.406	2.406	3.094	1.438	1.031	2.000
1	1.625	2.750	3.656	1.750	1.156	2.469
1-1/4*	2.563	4.000	4.844	2.406	1.406	3.313
1 1/2	2.313	3.750	4.844	2.406	1.406	3.313
2	2.188	4.969	5.500	3.031	1.531	3.781

### MATERIALS

#### Replacement Cartridges

Size	Material	Style	PVC/EPDM	PVC/VITON	CPVC/VITON
1/2	SS	20 Mesh	V07281BM	-	-
1/2	SS	40 mesh	-	-	-
1/2	PP	20 Mesh	V07821PM	V07282PM	-
3/4	PP	20 Mesh	V08281PM	V08282PM	-
1	SS	20 Mesh	V10281BM	V10282BM	-
1	SS	40 Mesh	V10281BO	V10282BO	V10284BO
1	PP	20 Mesh	V10281PM	V10282PM	-
1 1/2	SS	40 Mesh	-	-	V17284BO
1 1/2	PP	20 Mesh	V17281PM	V17282PM	-
2	SS	20 Mesh	-	-	-
2	SS	40 Mesh	-	-	V20284BO
2	PP	20 Mesh	V20281PM	V20282PM	-