

Colonial Y-Strainers are suitable for flow rates of up to 150 gpm, 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 8 fps.

SELECTION AND MAINTENANCE

The strainer 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 suitable 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 strainer 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.

MESH SIZES

The mesh sizes for Colonial screens are as follows:

- 40 mesh SS wire is 0.008" and the square opening is 0.016" by 0.016"
- 20 mesh SS wire is 0.012" and the square opening is 0.032" by 0.032"
- PP screens are advertised as 20 mesh openings which should be 0.032" but they are slightly smaller, actual square opening is around 0.028".



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FLUID FLOW COEFFICIENT

*Gallons per minute @ 1 psi pressure drop


Nominal Size	C _v *
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 & UNIONS (ABOVE 73° F)

Temp (°F)	PVC	CPVC
73	1.00	1.00
80	.88	.96
90	.75	.92
100	.62	.85
110	.50	.77
120	.40	.70
130	.30	.62
140	.22	.55
150	NR	.47
160	NR	.40
170	NR	.32
180	NR	.25
200	NR	.18
210	NR	.15
240	NR	NR
280	NR	NR


NR: Not Recommended

Caution: Colonial recommends a minimum installation distance of 10 X the pipe diameter from a pump or other sources of turbulence.

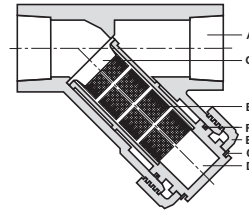


COMPRESSED AIR WARNING

The products in this document are only intended for use in transferring or storing chemically compatible pressurized liquids. **Do not test or use products in this document with compressed air or other gases.** Doing so is dangerous and could cause injury or great bodily harm should a system fail under compressed air. Only use products that are specifically designed for compressed air/gas service. Call Colonial technical service for more information.



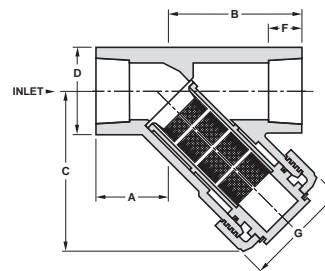
AIR/GAS



COMPONENTS AND MATERIALS

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

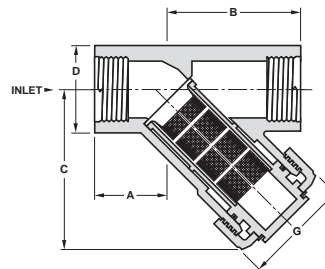
Viton® is a registered trademark of Dupont Dow Elastomers.



DIMENSIONS

Slip X Slip

Size	A	B	C	D	F	G
1/2"	1-7/32"	2-1/8"	2-5/8"	1-3/16"	7/8"	1-29/32"
3/4"	1-13/32"	2-13/32"	3-3/32"	1-7/16"	1-1/32"	2"
1"	1-5/8"	2-3/4"	3-21/32"	1-3/4"	1-5/32"	2-15/32"
1-1/4"	2-5/16"	3-3/4"	4-27/32"	2-13/32"	1-13/32"	3-5/16"
1-1/2"	2-5/16"	3-3/4"	4-27/32"	2-13/32"	1-13/32"	3-5/16"
2"	2-3/16"	4-31/32"	5-1/2"	3-1/32"	1-17/32"	3-25/32"



DIMENSIONS

FPT X FPT

Size	A	B	C	D	G
1/2"	1-7/32"	2-1/8"	2-5/8"	1-3/16"	1-29/32"
3/4"	1-13/32"	2-13/32"	3-3/32"	1-7/16"	2"
1"	1-5/8"	2-3/4"	3-21/32"	1-3/4"	2-15/32"
1-1/4"	2-5/16"	3-3/4"	4-27/32"	2-13/32"	3-5/16"
1-1/2"	2-5/16"	3-3/4"	4-27/32"	2-13/32"	3-5/16"
2"	2-3/16"	4-31/32"	5-1/32"	3-1/32"	3-25/32"

MATERIAL CHOICES

Size	Style	PVC/EPDM O-Rings	CPVC/Viton® O-Rings
1/2"	Socket	V07281B	V07284B
1/2"	Thread	V07291B	V07294B
3/4"	Socket	V08281B	V08284B
3/4"	Thread	V08291B	V08294B
1"	Socket	V10281B	V10284B
1"	Thread	V10291B	V10294B
1-1/4"	Socket	V14281B	V14284B
1-1/4"	Thread	V14291B	V14294B
1-1/2"	Socket	V17281B	V17284B
1-1/2"	Thread	V17291B	V17294B
2"	Socket	V20281B	V20284B
2"	Thread	V20291B	V20294B

MATERIAL CHOICES

Size	Material	Style	PVC Replacement Cartridges	CPVC Replacement Cartridges
1/2"	SS	20 Mesh	V07281BM	V07284BM
1/2"	SS	40 Mesh	V07281BO	V07284BO
1/2"	PP	20 Mesh	V07281PM	V07284PM
3/4"	SS	20 Mesh	V08281BM	V08284BM
3/4"	SS	40 Mesh	V08281BO	V08284BO
3/4"	PP	20 Mesh	V08281PM	V08284PM
1"	SS	20 Mesh	V10281BM	V10284BM
1"	SS	40 Mesh	V10281BO	V10284BO
1"	PP	20 Mesh	V10281PM	V10284PM
1-1/4"	SS	20 Mesh	V14281BM	V14284BM
1-1/4"	SS	40 Mesh	V14281BO	V14284BO
1-1/4"	PP	20 Mesh	V14281PM	V14284PM
1-1/2"	SS	20 Mesh	V17281BM	V17284BM
1-1/2"	SS	40 Mesh	V17281BO	V17284BO
1-1/2"	PP	20 Mesh	V17281PM	V17284PM
2"	SS	20 Mesh	V20281BM	V20284BM
2"	SS	40 Mesh	V20281BO	V20284BO
2"	PP	20 Mesh	V20281PM	V20284PM

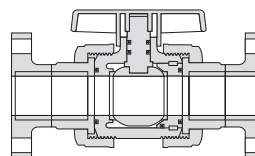
Note: Y-Strainers pre-assembled with union or flanged end connections are available with 1-2 day lead time. Please contact customer service for details.

SAMPLE ENGINEERING SPECIFICATIONS

All thermoplastic Y-Strainers shall be produced of PVC Type 1, cell classification 12454 or CPVC, cell classification 23447. Strainer assembly shall have a union nut for ease of removal during cleaning. Strainer screens shall be of stainless steel or polypro material. Screens shall be of 20 or 40 mesh in stainless steel and 20 mesh in polypro material. End connectors shall be of socket, thread, True Union or flanged type.

METAL TO PLASTIC TRANSITION WARNING

Colonial does not recommend the joining of metal pipe threads with plastic female pipe threads. To join a metal system with a plastic system, we recommend the use of a transition union or flanged end connections (shown below).



Colonial Valve proudly serves wholesalers in the industrial PVF, process piping, water treatment, pool/spa, commercial plumbing, and irrigation markets.

APPLICATIONS FOR COLONIAL VALVES

- Reverse Osmosis Systems
- Waste Water Treatment
- Pesticide Manufacturing
- Mining
- Chemical Processing
- Swimming Pools/Spas
- Aquariums
- Irrigation
- Metal Finishing and Plating
- Fluid Circulation Systems
- Fertilization
- De-Ionized Water
- Aqua Culture
- Pharmaceutical
- Pulp and Paper Processing
- Photographic Processing Systems
- Food Processing
- Original Equipment Manufactured Products (OEM)
- Wherever reliable corrosion-resistant flow-control is needed



FULL BLOCK™ TRUE UNION BALL VALVES



SINGLE UNION BALL VALVES



SUPER C BALL VALVES



COMPACT BALL VALVES (2-1/2, 3, AND 4")



BUTTERFLY VALVES (3, 4, 6, AND 8")



BUTTERFLY VALVES (8, 10, AND 12")



MULTI-PORT VALVES



LABORATORY BALL VALVES



MIP VALVES



TRUE UNION BALL CHECK VALVES



SINGLE UNION BALL CHECK VALVES



FOOT VALVES



SPRING CHECK VALVES



SCH 80 UNIONS



Y-LINE STRAINERS



ACTUATED VALVES

