
PRESSURE RATING: 75 PSI
MAX TEMP: 140 F
SERVICE FLUID: MILD CORROSIVE

The Fluidtrol GX Series is a non-metallic housing inline basket strainer engineered for general water through moderately corrosive industrial water systems.



Wetted surfaces are comprised of FRP (Fiberglass Reinforced Plastic with High Quality Vinyl Ester Resin), PVC and EPDM. This composite construction offers the highest corrosion resistance along with the structural integrity to last a project lifespan of 20-30 years.

FRP construction can reduce costs in shipping, installation, and servicing with lighter weight components. This is possible without sacrificing strength because FRP has strength to weight ratio approximately 4 times that of steel. FRP has excellent electrical insulation properties.

The standard basket is SS316- 1/8" Perforations, but many options exist for clients requiring a different filtration level or material of construction. Contact Fluidtrol if custom configurations or dimensions are required.

ITEM	PART	MATERIAL
1	FLANGE	PVC
2	GASKET	O-RING
3	T-HANDLE	SS316
4	COVER	FRP
5	VENT	1/2" FPT IN COVER
6	BODY	FRP
7	BASKET	1/8" PERF ss316
8	DRAIN	PVC NPT INLET SIDE



PN	Strainer Size	Face to Face (inch) A	Center Line (inch) B	Height (inch) C	Weight (lbs)	Basket Area / Inlet Area
GX186102031	2	11 3/4	10 5/8	18 1/8	33	18.8
GX186103031	3	11 3/4	10 5/8	18 1/8	34	15.6
GX186104031	4	14	11 3/4	20 1/8	39	17.1
GX186105031	5	17 1/2	16 1/4	25 1/4	55	18.0
GX186106031	6	17 1/2	16 1/4	25 1/4	57	12.6
GX186108031	8	20	21 3/4	33 1/4	82	11.3
GX186110031	10	22	23 1/4	37 1/4	108	10.2
GX186112031	12	27 1/2	31 7/8	45 3/4	185	10.1
GX186114031	14	37	33	47 1/2	220	13.0
GX186116031	16	41	37 1/4	55	260	11.1
GX186118031	18	45	39 1/2	58	300	9.9
GX186120031	20	45	42 1/4	60 3/4	330	9.9



Rugged Design for Easiest Maintenance

Customer Committed

30+ years in Strainer Manufacturing

20 year housing Lifespan

98+% Customer Satisfaction

Immediate US Customer Support

Support parts ship next day



Ergonomic

Remove the basket without bending over. All nuts, bolts, and gaskets stay attached, and the lid stores on its shelf.



Durable Quick Release

Solid 316 SS T-Handle allows toolless maintenance without gauling or breaking



Strong

316 SS or PVC Baskets will handle worst case loading.



Dependable

Corrosive barrier bonded to non-rusting FRP housing does not require painting





FLUIDTROL

PROCESS TECHNOLOGIES, INC.

SPC-FRP-003: SPECIFICATION FOR MOLDED FIBERGLASS REINFORCED PLASTIC (FRP) BASKET STRAINERS MADE FOR INDUSTRIAL WATER SYSTEMS- GX SERIES

1. SCOPE

The molded fiberglass reinforced plastic basket strainer shall be designed for the suction or discharge side of water and chemical systems. These strainers are designed for easy operation, assuming maintenance personnel have limited training and minimal tools to clean the basket. Baskets are designed to remove all foreign objects larger than basket perforation size.

2. DESIGN REQUIREMENTS

2.1. Configuration

- 2.1.1. Strainer type shall be flanged basket
- 2.1.2. Effluent shall be in-line with the influent
- 2.1.3. Height, drain port, basket size, and face-face dimensions shall be interchangeable with Fluidtrol GX series design

2.2. Flanges

- 2.2.1. Flanges shall allow easy installation into piping system by limiting rotational nozzle stress and flange bolt hole misalignments
 - 2.2.1.1. Flanges 12" and smaller shall be ANSI 150# Van Stone type- PVC SCH80.
 - 2.2.1.2. Flanges 14" and larger shall be fabricated- dual laminate.
- 2.2.2. Flange material shall be PVC Cell Class 23447-B ASTM D-1784

2.3. Basket

- 2.3.1. Basket material shall be 316 Stainless Steel- or as specified.
- 2.3.2. Basket perforation shall be 1/8" on 3/16" centers- or as specified.
- 2.3.3. Basket shall have handle welded to body, capable of holding 50lbs of debris
- 2.3.4. Basket shall be able to withstand 15 psi pressure drop across the perforated wall
- 2.3.5. Basket open area shall be a minimum of 4 times greater than influent cross-section area

2.4. Basket Maintenance

- 2.4.1. No tools shall be required to remove the lid
- 2.4.2. The lid shall be molded FRP with a minimum thickness of 1" and flexural strength greater than 15,000 psi
- 2.4.3. Lid attachment shall be with 316 Stainless Steel Tee Handles / Swing Bolts
- 2.4.4. Gasket grooves shall be in the strainer body to prevent accidental misplacement
- 2.4.5. Basket shall self-center and remove in one simple motion
- 2.4.6. Basket shall be suspended to ensure positive seal at the basket flange
- 2.4.7. Vent plugs shall allow for gas removal without lid removal
- 2.4.8. Drain plugs shall be minimum 1 inch off floor to prevent plugging from debris

2.5. Operating Conditions

- 2.5.1. Normal operating temperature is 75 deg F with no effect on longevity
- 2.5.2. Maximum fluid temperature shall be 140 deg F with reduced pressure rating
- 2.5.3. Normal operating pressure is 2 psi suction
- 2.5.4. Maximum operating pressure is 75 psi with no surge
- 2.5.5. Maximum suction pressure is 14 psig vacuum

2.6. Test Pressure

- 2.6.1. Hydrostatic testing of the assembled strainer at 85 psig shall be conducted on every unit.

2.7. Materials of Construction

- 2.7.1. Gaskets shall be EPDM or Silicone
- 2.7.2. Shell shall be FRP with high grade, corrosive resistant vinyl ester resin matrix
- 2.7.3. Strainer shall be constructed from components certified to NSF/ANSI 61
- 2.7.4. Exterior shall have UV protective inhibitors to maximize service life
- 2.7.5. Flanges shall be PVC Cell class 23447-B, ASTM D-1784

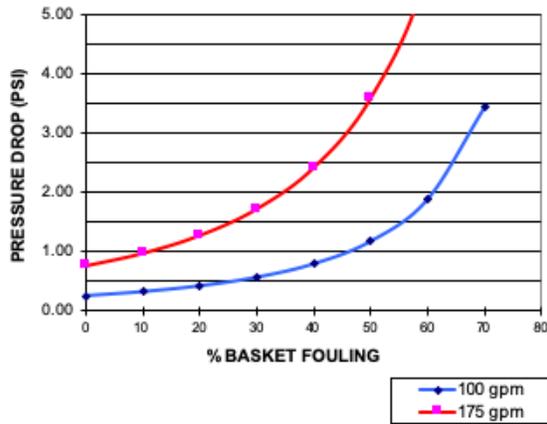
3. CONSTRUCTION

- 3.1. Manufacturer shall have minimum five year service history in industry
- 3.2. Manufacturer shall maintain as-built dimensions of each strainer
- 3.3. Manufacturer shall be ISO 9001:2008 Certified
- 3.4. Manufacturer shall supply minimum one year warranty on lids, baskets, and gaskets to cover defect in material or workmanship
- 3.5. Manufacturer shall supply minimum five year warranty on FRP shell to cover defect in material or workmanship
- 3.6. Approved manufacturer
 - 3.6.1. Fluidtrol Process Technologies, Inc. www.fluidtrol.com

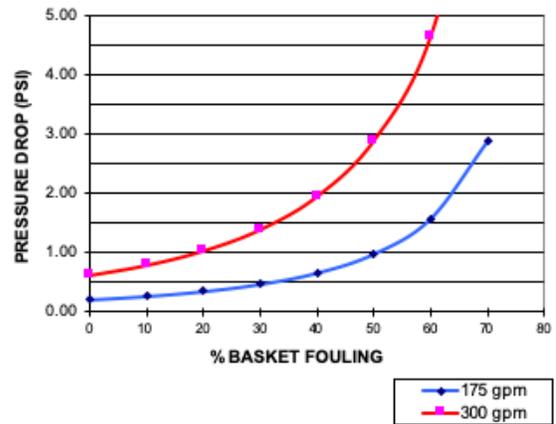


PRESSURE DROP PROFILES

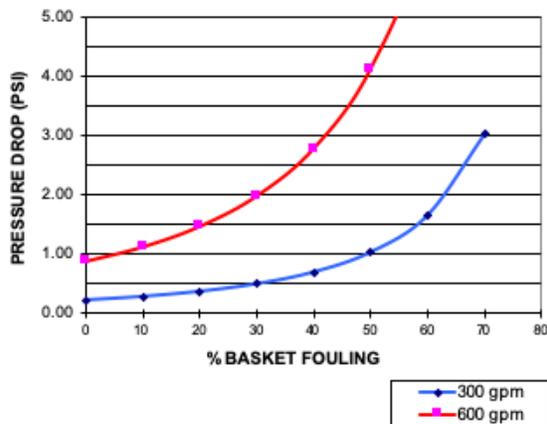
3 " Strainer



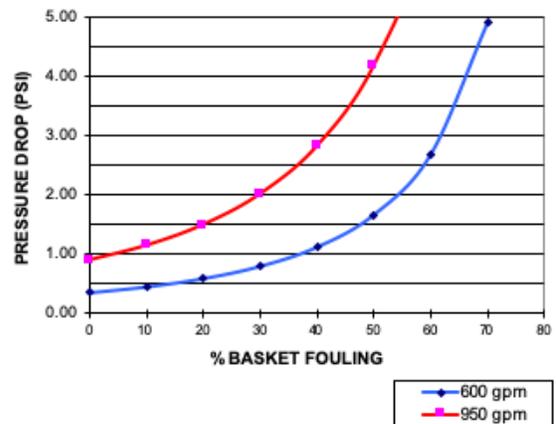
4 " Strainer



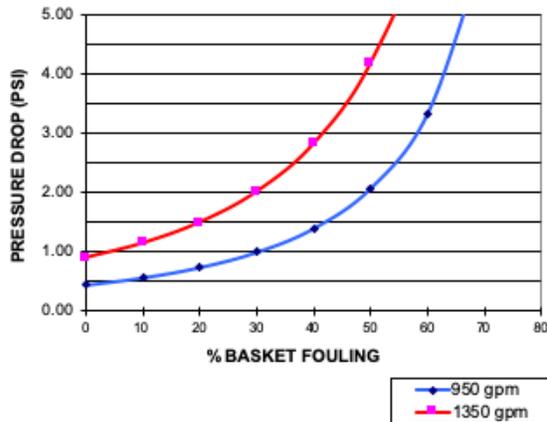
6 " Strainer



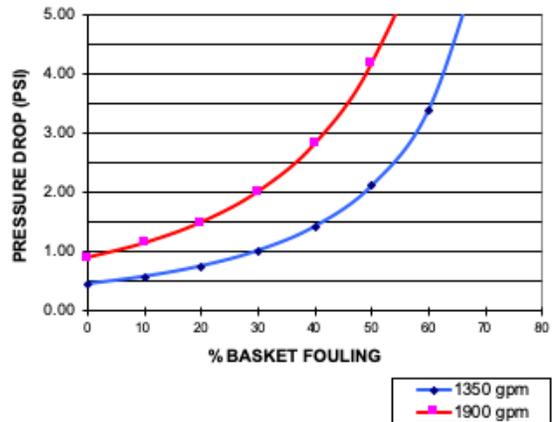
8 " Strainer



10 " Strainer

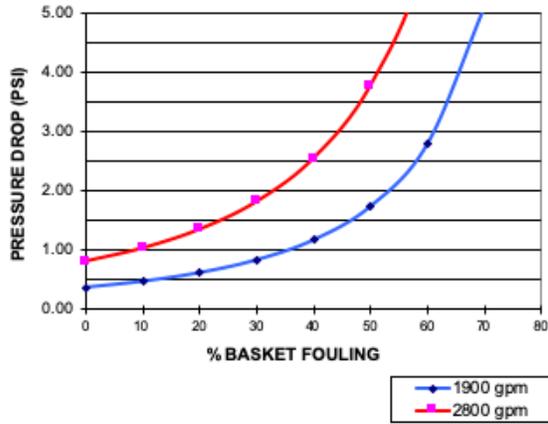


12 " Strainer

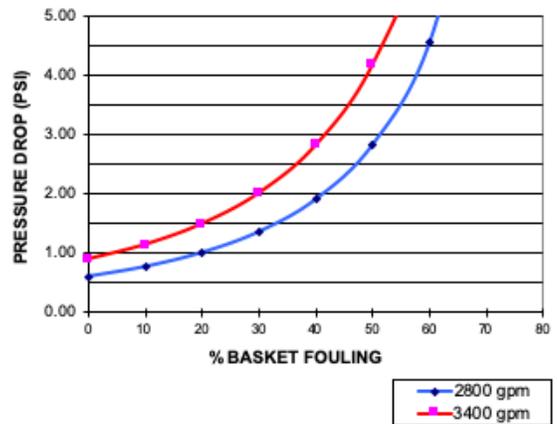


40 % OPEN AREA PERFORATION PATTERN- STANDARD 1/8" OR 1/4"

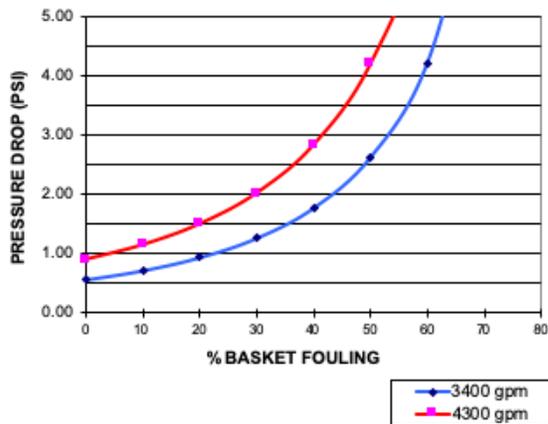
14 " Strainer



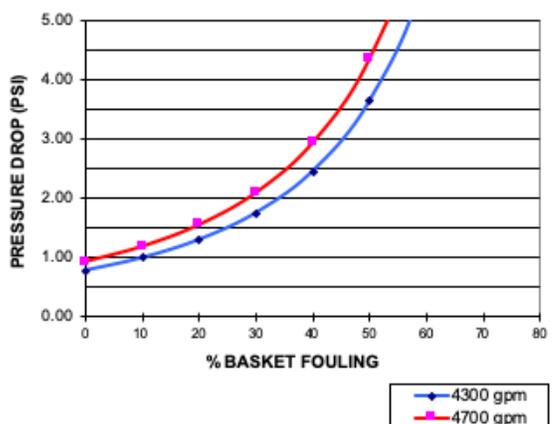
16 " Strainer



18 " Strainer



20 " Strainer



40 % OPEN AREA PERFORATION PATTERN- STANDARD 1/8" OR 1/4"