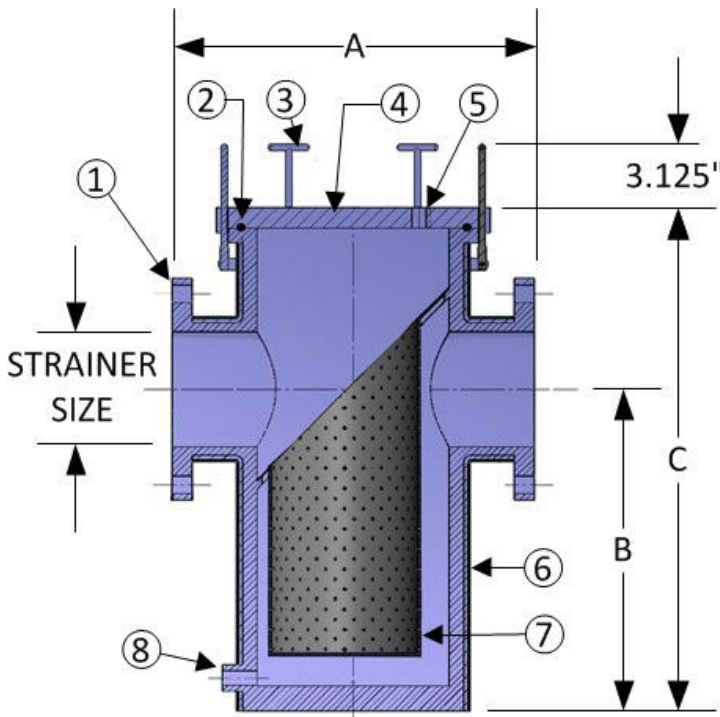


Low Profile Series Strainers

SPC-FRP-0055:09292026

Fiberglass Reinforced Plastic (FRP) Molded Hair & Lint Strainers



PRESSURE RATING = 50 PSI
MAX TEMPERATURE = 140°F

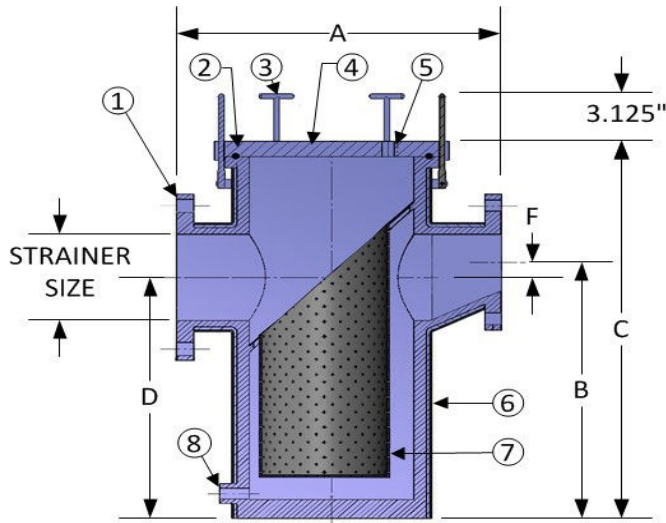
ITEM	PART	MATERIAL
1	FLANGE	PVC- Van Stone
2	GASKET	O-RING
3	T-HANDLE	SS316
4	COVER	CAST ACRYLIC
5	VENT	½" PVC FPT
6	BODY	Molded FRP
7	BASKET	5/32" PERF SS316
8	DRAIN	PVC NPT

LOW PROFILE INLINE FRP STRAINERS

Pump	Qty	PN	Strainer Size	Face to Face A	Center Line B	Height C	Drain NPT Size	Weight LBS	Notes
		LP116302031	2	11.75	8	15.5	½	23	
		LP116303031	3	11.75	8	15.5	½	24	
		LP116304031	4	14.5	9	17.25	½	28	
		LP116306031	6	18.5	12.5	21.5	¾	39	
		LP116308031	8	22	13.5	25	¾	57	
		LP116310031	10	26	20.25	34.25	1	78	
		LP116312031	12	29	21.25	35	1	122	
		LP116314031	14	34.75	22	36.5	1	145	
		LP116316031	16	36	25	39	1	161	

Strainers for Commercial Aquatic Applications

The Fluidtrol LP and RLP Series are non-metallic housing basket strainers engineered for commercial recreational water applications such as swimming pools, water parks as well as zoos, and aquariums. 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 project a 20–30 year lifespan. FRP has excellent electrical insulation properties. The standard basket is SS316 – 5/32" 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- Van Stone
2	GASKET	EPDM O-RING
3	T-HANDLE	SS316
4	COVER	CAST ACRYLIC
5	VENT	½" PVC FPT
6	BODY	Molded FRP
7	BASKET	5/32" PERF SS316
8	DRAIN	PVC NPT

ECCENTRIC REDUCING LOW PROFILE FRP STRAINERS

Pump	Qty	Model Number	Strainer Size Inlet x Outlet	Face to Face A	Effluent Center Line B	Height C	Influent Center Line D	Weight LBS	Notes
		RLP116303231	3 x 2	14	8.5	15.5	8	24	
		RLP1163032531	3 x 2.5	14	8.25	15.5	8	24	
		RLP116304231	4 x 2	16	9	17.25	9	29	
		RLP1163042531	4 x 2.5	16	9	17.25	9	29	
		RLP116304331	4 x 3	16.5	9.5	17.25	9	29	
		RLP116306331	6 x 3	22.5	14	21.5	12.5	41	
		RLP116306431	6 x 4	22.5	13.5	21.5	12.5	41	
		RLP116306531	6 x 5	24	13	21.5	12.5	42	
		RLP116308331	8 x 3	27	16	25	13.5	59	
		RLP116308431	8 x 4	27.5	13.75	25	13.5	59	
		RLP116308531	8 x 5	29.5	13.75	25	13.5	60	
		RLP116308631	8 x 6	29.5	14.5	25	13.5	60	
		RLP116310431	10 x 4	31.5	23.5	34.25	20.25	82	
		RLP116310531	10 x 5	31.5	21.5	34.25	20.25	82	
		RLP116310631	10 x 6	31.5	21.5	34.25	20.25	83	
		RLP116310831	10 x 8	31.5	21.5	34.25	20.25	83	
		RLP116312631	12 x 6	34	21.5	35	21.25	126	
		RLP116312831	12 x 8	34	21.5	35	21.25	127	
		RLP1163121031	12 x 10	34	22.25	35	21.25	128	
		RLP116314631	14 x 6	42.5	22.5	36.5	22	150	
		RLP116314831	14 x 8	42.5	22.5	36.5	22	151	
		RLP1163141031	14 x 10	42.5	22.5	36.5	22	151	
		RLP1163141231	14 x 12	42.5	23	36.5	22	152	
		RLP116316831	16 x 8	43.5	29	39	25	189	
		RLP1163161031	16 x 10	43.5	28	39	25	191	
		RLP1163161231	16 x 12	43.5	27	39	25	193	



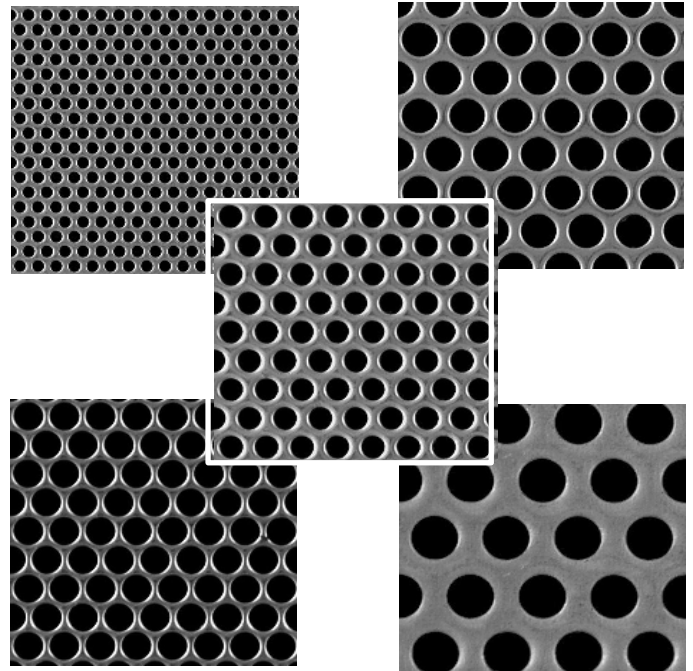
Our Baskets Are Built to Last

The strainer basket is a significant cost in the production of a basket strainer. The basket also represents the costliest replacement component for the end user. To maximize the value to the customer, Fluidtrol offers durable baskets that are built to last. We have one basket design – extra heavy duty. Our basket flange is laser cut from 12 gauge stainless, making this potentially weak point super strong. The perforated metal gauge is also a very easy differentiator for Fluidtrol.

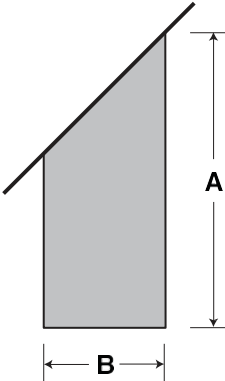
2" - 12" Strainers	14" and Above
18 Gauge	16 Gauge

Standard & Customized Baskets

Fluidtrol's Low Profile basket is constructed from 5/32" Perf @ 3/16" staggered centers. However, we have the capability to fabricate baskets with a variety of hole size and open area to meet the particular design requirement. All options are SS316.

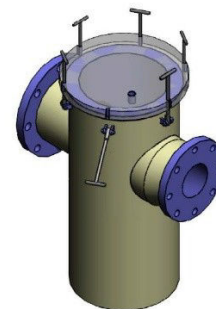
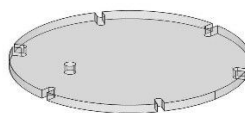
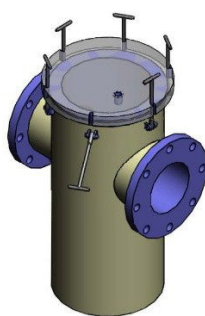
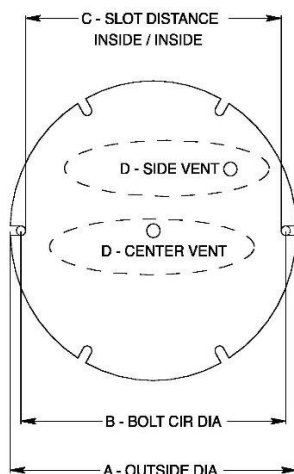


5/32" Perforations

	Size	Part No.	Height A	Diameter B	Open Area In2	Open Area: Pipe Area Ratio (63% Open Perf.)
	3	6-030-5106-3-LP	7-1/2	4	82	7.3 : 1
	4	6-040-5106-3-LP	9-1/4	5-1/5	136	6.8 : 1
	6	6-060-5106-3-LP	13-3/4	7-1/2	280	6.2 : 1
	8	6-080-5106-3-LP	15-1/2	9	374	4.7 : 1
	10	6-100-5106-3-LP	23	10	644	5.2 : 1
	12	6-120-5106-3-LP	24-1/4	11	743	4.1 : 1
	14	6-140-5106-3-LP	27	15	1095	4.5 : 1
	16	6-160-5106-3-LP	30	16	1280	4.1:1

LOW PROFILE PARTS LIST

STRAINER INLET FLANGE	ACRYLIC COVER OD	ACRYLIC COVER THICKNESS	QTY OF FASTENER SLOTS	FASTENER BOLT CIRCLE DIAMETER	1/2" NPT VENT POSITION	GASKET DIMENSIONS ID / OD (DASH NO)	ACRYLIC COVER PART NUMBER	LID ORING PART NUMBER	SPART BASKET PART NUMBER 5/32" PERF. SS316
Image Below	A			B	D				
3"	10.392"	1"	6	8.892	Side	-441 (7/7.5")	1-030-5105AN	1-030-5105ON	6-030-5106-3-LP
4"	12.392"	1"	6	10.892	Side	-447 (9/9.5")	1-040-5105AN	1-040-5105ON	6-040-5106-3-LP
6"	14.517"	1"	6	13.017	Side	-451 (11/11.5")	1-060-5105AN	1-060-5105ON	6-060-5106-3-LP
8"	16.517"	1"	6	15.017	Side	-455 (13/13.5")	1-080-5105AN	1-080-5105ON	6-080-5106-3-LP
10"	18.017	1"	6	16.517	Side	-458 (14.5/15")	1-100-5105AN	1-100-5105ON	6-100-5106-3-LP
12"	20.017"	1.25"	8	18.517	Side	-462 (16.5/17")	1-100-5105AN	1-100-5105ON	6-120-5106-3-LP
14"	22.267"	1.25"	12	20.767	Side	-466 (18.5-19")	1-140-5105AN	1-140-5105ON	6-140-5106-3-LP



**** CONTACT FLUIDTROL IF YOU NEED HELP IDENTIFYING WHICH LID OR GASKET YOU NEED ****

SPC-FRP-0055:03012026 SPECIFICATION FOR MOLDED FIBERGLASS REINFORCED PLASTIC (FRP) BASKET STRAINERS IN RECREATION WATER RECIRCULATION SYSTEM-LP AND RLP SERIES

1. SCOPE

The molded fiberglass reinforced plastic basket strainer shall be designed for the suction side of pool recirculation systems in continuous operation. 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 primarily hair and lint, in addition to other foreign objects typically found in water parks, pools, and other recreational plumbing systems. Typical installations include the suction side of the recirculation pump operating at high flow rates and minimal pressure drops.

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 with nominal pipe staggers for eccentric reducers.

2.1.3. Reducing models will have eccentric reducer on strainer outlet.

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 14" and smaller shall be ANSI 150# Van Stone type

2.2.1.2. Flanges 16" and larger shall require dimensional and load verification

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

2.3.2. Basket perforation shall be 5/32" on 3/16" centers resulting in 63% Open Area

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 clear acrylic lid 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 50 psi with no surge
- 2.5.5. Maximum suction pressure is 14 psig vacuum

2.6. Pressure Rating

- 2.6.1. The shell thickness shall be at least 2 times greater than the minimum thickness specified using ASME BPVC SEC X design equations for FRP vessels
- 2.6.2. Hydrostatic testing of strainer at 50 psig shall be conducted every unit.

2.7. Materials of Construction

- 2.7.1. Gaskets shall be EPDM O-ring.
- 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 9001:2015 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