

Y-STRAINER

MODEL #54 & #55



A
3
42-01

APPLICATIONS

Flowtech's newly engineered #54 and #55 Y-Strainers™ and the #54L and #55L L-Strainers are designed to be used in the beverage, food, pharmaceutical / bio-tech, chemical and related industries.

DESIGN

Each strainer casing is precision machined from the highest quality stock material. The resultant fit between the strainer casing and screen insert basket results in a tight tolerance mating to prevent fluid bypass. Flow is from inside the strainer and out, or reverse due to the wedge-wire strainer design.

The **Y-type design**, with its standard clamping system and in-line installation, allows the operator to clean the strainer without removing it from the piping. Entrapped material is kept neatly in the basket and away from the process piping, thus downtime is kept to a minimum. Several strainer mesh options are available. The **Y-Strainers™** can be mounted horizontally or vertically and rotated 360° around the piping.

The **L-type design** allows for 90° flow between inlet and outlet. As with the **Y-Strainer™**, replacement or cleaning of the strainer insert is performed without removing the unit from the piping installation. Several sizes of strainer mesh are available.

Both strainer types feature removable wedge-wire strainer baskets machined from one piece of stainless steel for durability. **Wedge-wire screens are designed for dual-flow directions.**

Maximum system pressure for 3/4" to 3" is 150 PSIG.

Maximum system pressure for 4" to 6" is 100 PSIG.

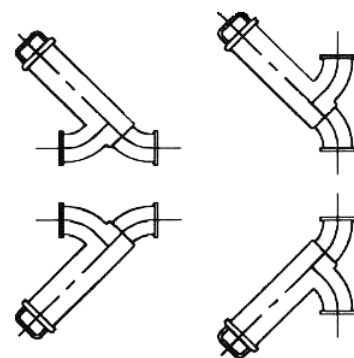
OPTIONAL

- Filter systems
- Wetted metal in **Hastelloy C** or **AL6XN**
- Elastomer material in **FDA** or **USP Class VI**
- Drainage port with valve mounted on strainer insert end cap
- Mechanical polishing up to 15 Ra(0.4 micron, μm) and / or **electropolishing** for both body housing and strainer insert
- Variety of port sizes available from 0.75" up to 6.0"
- Variety of port connections: sanitary Tri-Clamp, DIN, ANSI flanged
- Dual sightglass (model #55 and #55L) on strainer body to bulls-eye insert
- Material test reports available

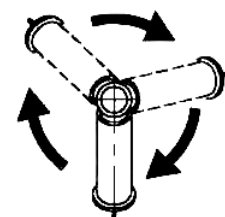
MATERIALS

All wetted metal parts for both version strainers available in **304** or **316L** stainless steel.

Seal seats and elastomers available in EPDM, Silicone, Viton, and PTFE.

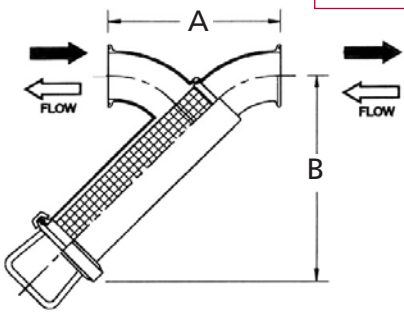


Mounting positions

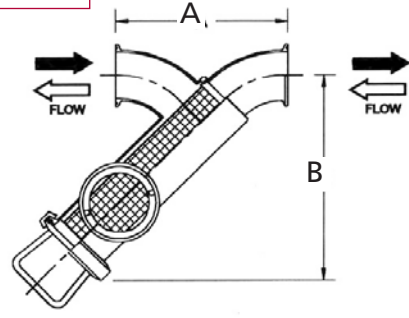


360° swivel

DIMENSIONS



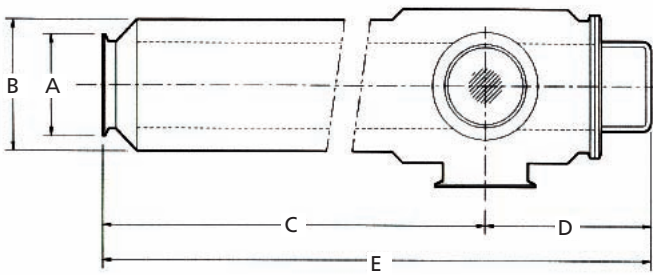
#54 Y-Strainer™



#55 Y-Strainer™



		Size									Screens		
Dims		.75	1.0	1.5	2.0	2.5	3.0	4.0	4.0	6.0	Mesh Size	Micron Equiv.	% Open Area
A	in	5.8	4.6	5.8	6.8	8.3	9.5	15.0	15.0	20.9			
	mm	147	118	148	173	211	241	380	380	530			
B	in	5.4	5.6	7.7	8.1	8.4	9.0	13.1	22.6	23.0			
	mm	137	142	195	206	213	228	332	574	584			
Screen Area													
	sq in	15	15	36	48	60	70	141	296	504			
	sq cm	97	97	232	3110	387	452	910	1910	3252			
Weight													
#54	lbs	1.6	1.8	2.8	4.1	5.2	9.5	20.0	29.0	48			
	kg	0.7	0.8	1.3	1.9	2.4	4.3	9.1	13.2	21.8			
#55	lbs	-	-	4.2	8.5	10.2	12.0	24.0	33.0	POA	200	75	optional
	kg	-	-	1.9	3.9	4.6	5.5	10.9	15.0	POA			



* 54L - without sightglass
 * 55L - with sightglass
 * Diameter increase at sightglass where applicable

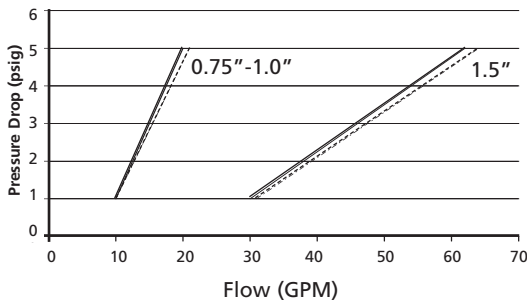
#54 L-Strainer & #55 L-Strainer

	A		B		C		D		E		B		C		D		E	
Size	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
	Screen Area 1.0 sq ft								Screen Area 2.25 sq ft									
2.0"	129	5.1	210	8.3	200	7.9	410	16.1	154	6.1	525	21.7	200	7.9	725	28.5		
2.5"	129	5.1	210	8.3	200	7.9	410	16.1	154	6.1	525	21.7	200	7.9	725	28.5		
3.0"	129	5.1	210	8.3	200	7.9	410	16.1	154	6.1	525	21.7	200	7.9	725	28.5		
4.0"	129	5.1	210	8.3	200	7.9	410	16.1	154	6.1	525	21.7	200	7.9	725	28.5		
6.0"	-	-	-	-	-	-	-	-	154	6.1	525	21.7	200	7.9	725	28.5		

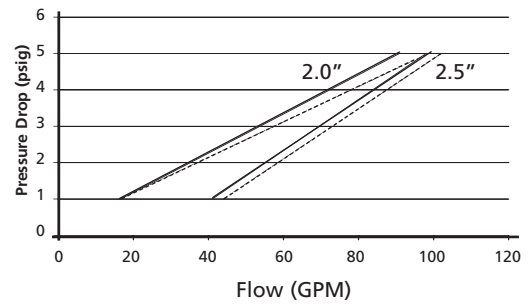
	A		B		C		D		E		B		C		D		E	
Size	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
	Screen Area 5.0 sq ft								Screen Area 7.0 sq ft									
2.0"	209	8.2	825	32.5	200	7.9	1025	40.4	254	10.1	1105	43.5	200	7.9	1305	51.4		
2.5"	209	8.2	825	32.5	200	7.9	1025	40.4	254	10.1	1105	43.5	200	7.9	1305	51.4		
3.0"	209	8.2	825	32.5	200	7.9	1025	40.4	254	10.1	1105	43.5	200	7.9	1305	51.4		
4.0"	209	8.2	825	32.5	200	7.9	1025	40.4	254	10.1	1105	43.5	200	7.9	1305	51.4		
6.0"	209	8.2	825	32.5	200	7.9	1025	40.4	254	10.1	1105	43.5	200	7.9	1305	51.4		

Y-STRAINER™ TECHNICAL DATA

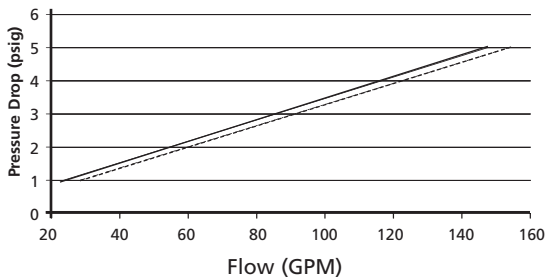
Pressure Drop and corresponding Flow for Y-Strainer size 0.75", 1.0", 1.5"



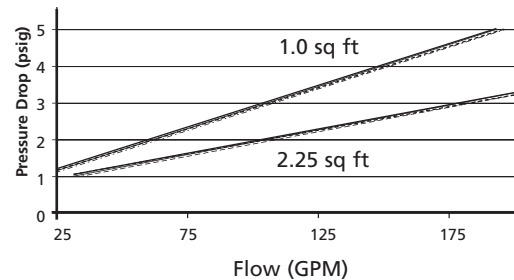
Pressure Drop and corresponding Flow for Y-Strainer size 2.0", 2.5"



Pressure Drop and corresponding Flow for Y-Strainer size 3.0"

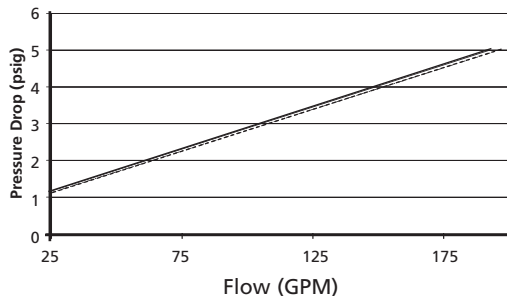


Pressure Drop and corresponding Flow for Y-Strainer size 4.0"

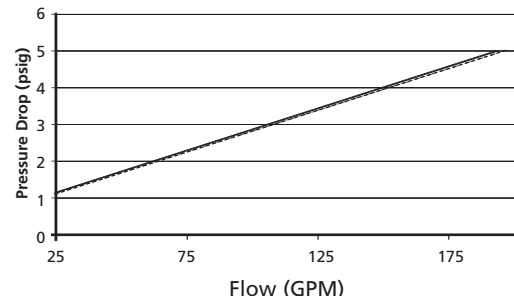


L-STRAINER TECHNICAL DATA

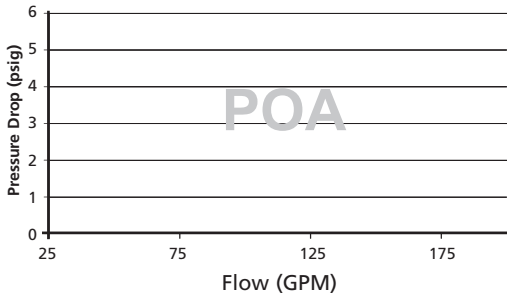
Pressure Drop and corresponding Flow for Y-Strainer size 4.0" 1.0 sq ft



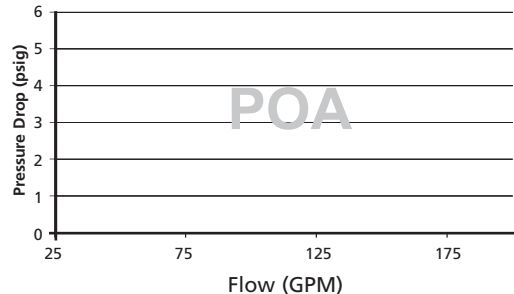
Pressure Drop and corresponding Flow for L-Strainer size 4.0" 1.0 sq ft



Pressure Drop and corresponding Flow for Y-Strainer size 4.0" 5.0 sq ft



Pressure Drop and corresponding Flow for Y-Strainer size 4.0" 7.0 sq ft



----- 40 mesh
 _____ 100 mesh

* 1 cps (water at ambient temp)
 Technical changes without notice

Distributor:

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