

Y-STRAINER

MODEL #54 & #55



A
3
42-01

FLOWTECH DIV.
UNIBLOC-PUMP, INC. USA

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.

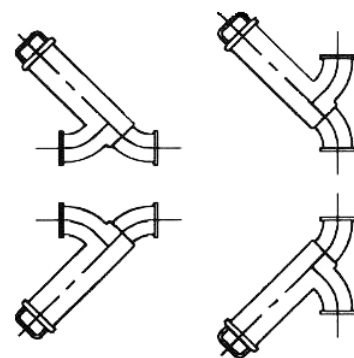
OPTIONAL

- 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

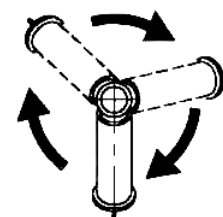
MATERIALS

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.

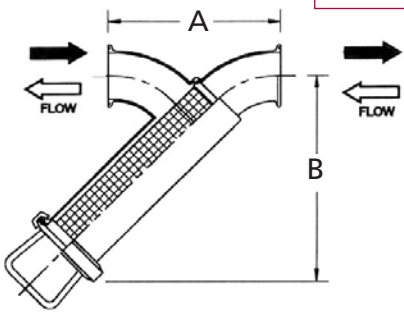


Mounting positions

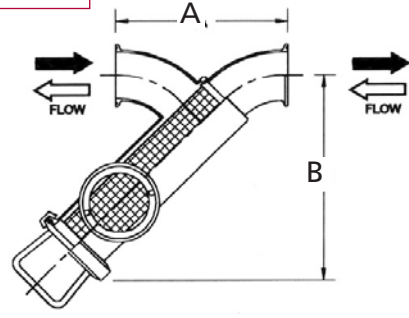


360° swivel

DIMENSIONS



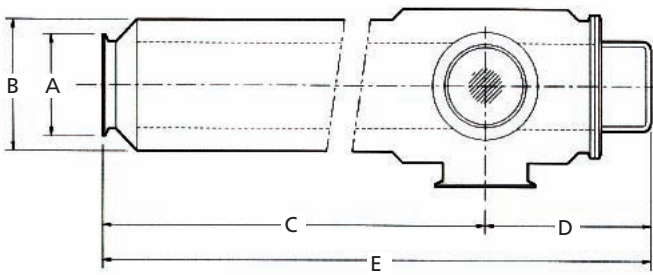
#54 Y-Strainer™



#55 Y-Strainer™



| | | Size | | | | | | | | | | Screens | | |
|--------------------|-------|------|-----|-----|------|------|------|------|------|------|-----------|---------------|-------------|--|
| Dims | | .75 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 4.0 | 4.0 | 6.0 | | | | |
| A | in | 5.8 | 4.6 | 5.8 | 6.8 | 8.3 | 9.5 | 15.0 | 15.0 | 20.9 | Mesh Size | Micron Equiv. | % Open Area | |
| | 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 | 4 | 5160 | 38 | |
| | mm | 137 | 142 | 195 | 206 | 213 | 228 | 332 | 574 | 584 | 8 | 2460 | 28 | |
| Screen Area | | | | | | | | | | | | | | |
| | sq in | 15 | 15 | 36 | 48 | 60 | 70 | 141 | 296 | 504 | 16 | 1180 | 51 | |
| | sq cm | 97 | 97 | 232 | 3110 | 387 | 452 | 910 | 1910 | 3252 | 30 | 600 | 41 | |
| Weight | | | | | | | | | | | | | | |
| #54 | lbs | 1.6 | 1.8 | 2.8 | 4.1 | 5.2 | 9.5 | 20.0 | 29.0 | 48 | 40 | 425 | 40 | |
| | kg | 0.7 | 0.8 | 1.3 | 1.9 | 2.4 | 4.3 | 9.1 | 13.2 | 21.8 | 50 | 300 | 45 | |
| #55 | lbs | - | - | 4.2 | 8.5 | 10.2 | 12.0 | 24.0 | 33.0 | POA | 60 | 250 | 30 | |
| | kg | - | - | 1.9 | 3.9 | 4.6 | 5.5 | 10.9 | 15.0 | POA | 80 | 180 | 37 | |
| | | | | | | | | | | | 100 | 150 | 42 | |
| | | | | | | | | | | | 150 | 100 | 33 | |
| | | | | | | | | | | | 200 | 75 | optional | |



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

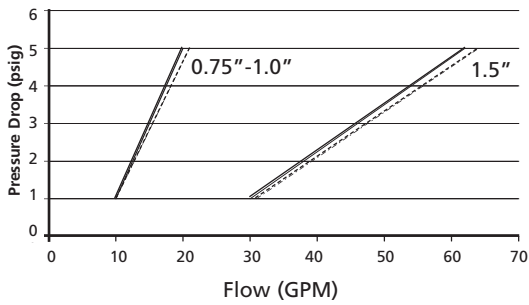
#54 L-Strainer & #55 L-Strainer

| | 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 | | |

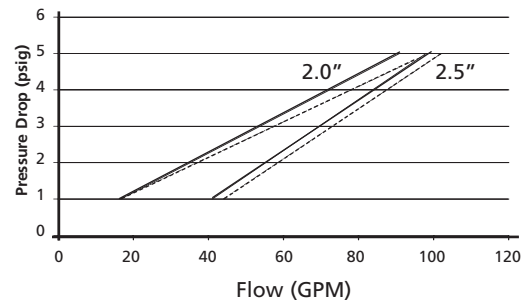
| | A | | B | | C | | D | | E | | B | | C | | D | | E | |
|------|------------------------------|-----|----------|------|----------|-----|----------|------|------------------------------|------|----------|------|----------|-----|----------|------|----------|----|
| Size | mm | in | mm | in | mm | in | 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

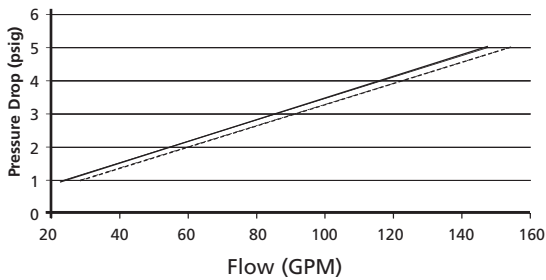
Pressure Drop and corresponding Flow for Y-Strainer size 0.75", 1.0", 1.5"



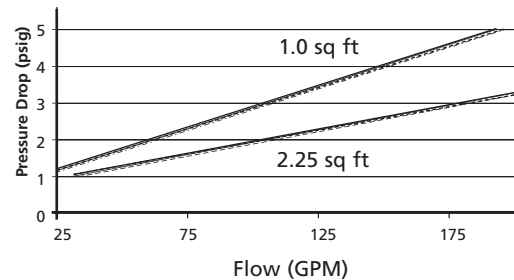
Pressure Drop and corresponding Flow for Y-Strainer size 2.0", 2.5"



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

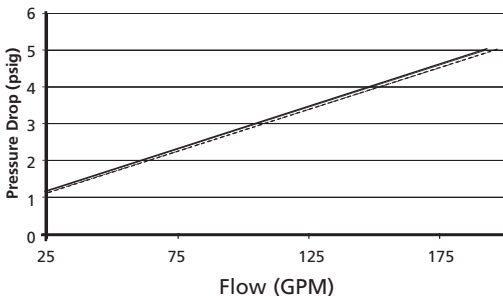


Pressure Drop and corresponding Flow for Y-Strainer size 4.0"

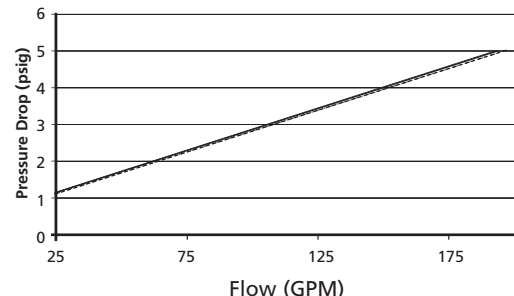


L-STRAINER TECHNICAL DATA

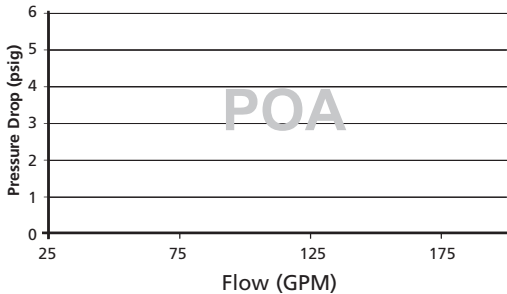
Pressure Drop and corresponding Flow for Y-Strainer size 4.0" 1.0 sq ft



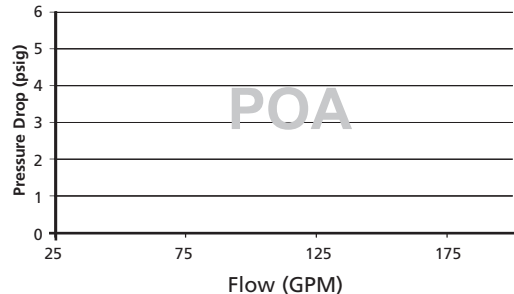
Pressure Drop and corresponding Flow for L-Strainer size 4.0" 1.0 sq ft



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:

FLOWTECH DIV.
 UNIBLOC-PUMP, INC. USA

1701 Spinks Drive, Marietta, Georgia 30067-8925
 Telephone: (770) 218-8900 Fax: (770) 218-8442
 www.flowtechdiv.com info@flowtechdiv.com