

## TRI-STAR™ Series Disposable Cage System Housings

### Fast, Safe Disposal of Toxic and Dangerous Captured Contaminant

- One-Cage or Three-Cage Models Available
- Other Sizes Available Upon Request
- ASME U and UM Stamps Available
- Housings Constructed of 316L Stainless Steel
- Cage Design Eliminates Need For Extended Physical Contact With Hazardous Fluids
- Pre-Loaded Cages Substantially Reduce Labor and Downtime Costs
- Entire Cage Unit May Be Incinerated For Lower Disposal Costs
- Non-Metallic Polypropylene Cage Construction Minimizes Potential for Sparking During Handling
- Features a Proprietary Separator Plate for Extra Support of the Cage Assembly

### Housing Specifications

#### Maximum Operating Pressure:

Stainless Steel: 150 psig (10.3 bar) @ 200°F (93°C)

*NOTE: Maximum operating pressure ratings are vessel ratings only. Safe operating temperature and pressure will depend on filter cartridge and gasket/O-ring used. For inquiries on compatibility, contact the factory or your Pall distributor.*

#### Construction:

Non-Code: 1 Cage only  
Code: ASME U or UM stamp - 1 or 3 Cage

#### Connections:

Inlet/Outlet: 3" – 6" Flange  
Vent: 1" NPT  
Drain: 1½" NPT  
Gauge (2): ¼" NPT  
(Upstream/Downstream)

**Shell O-rings:** Buna N (standard), Silicone Elastomer, Neoprene, Ethylene Propylene, Viton<sup>1</sup> A

### Disposable Cage Specifications

Tri-Star Disposable Cage Assemblies are available for use in Tri-Star Housings. Cages can be fitted with most Pall filter cartridges produced in Timonium, MD and an O-ring sealing option is available. Twenty, thirty or forty-inch cages are available. See Tri-Star Disposable Cage Assembly data sheet for complete details.

<sup>1</sup> Registered trademark of DuPont Dow.



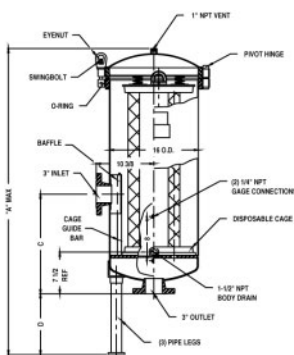
Code Housing Shown

## Dimensional Data (nominal)

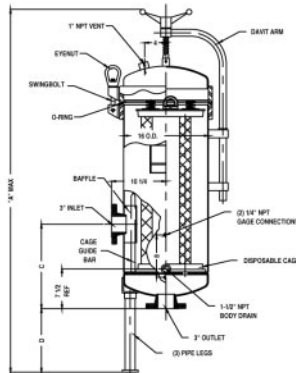
Model	Number of Cages	Cage Height (inches)	Code	Liquid Flow Rate <sup>2</sup> (gpm)	Dimensions (inches)				Inlet/Outlet	Dry Weight (pounds)
					A (height)	B (shell OD)	C	D		
30TSO2C	1	20 (50.8 cm)	No	150 (568 lpm)	49 (124.5 cm)	16 (40.6 cm)	16 (40.6 cm)	12.5 (31.8 cm)	3 (7.6 cm)	225 (102 kg)
45TSO3C	1	30 (76.2 cm)	No	225 (852 lpm)	59 (150 cm)	16 (40.6 cm)	16 (40.6 cm)	12.5 (31.8 cm)	3 (7.6 cm)	240 (109 kg)
60TSO4C	1	40 (102 cm)	No	300 (1135 lpm)	69 (175.3 cm)	16 (40.6 cm)	16 (40.6 cm)	12.5 (31.8 cm)	3 (7.6 cm)	225 (116 kg)
30TSO2C	1	20 (50.8 cm)	Yes	150 (568 lpm)	61 (155 cm)	16 (40.6 cm)	16 (40.6 cm)	12.5 (31.8 cm)	3 (7.6 cm)	500 (227 kg)
45TSO3C	1	30 (76.2 cm)	Yes	225 (852 lpm)	71 (180.3 cm)	16 (40.6 cm)	16 (40.6 cm)	12.5 (31.8 cm)	3 (7.6 cm)	575 (261 kg)
60TSO4C	1	40 (102 cm)	Yes	300 (1135 lpm)	81 (205.7 cm)	16 (40.6 cm)	16 (40.6 cm)	12.5 (31.8 cm)	3 (7.6 cm)	650 (295 kg)
135TSO3C	3	30 (76.2 cm)	Yes	675 (2555 lpm)	93 (236 cm)	30 (76.2 cm)	21 (53.3 cm)	20.25 (51.4 cm)	6 (15.2 cm)	1190 (540 kg)
180TSO4C	3	40 (102 cm)	Yes	900 (3407 lpm)	103 (261.6 cm)	30 (76.2 cm)	21 (53.3 cm)	20.25 (51.4 cm)	6 (15.2 cm)	1265 (574 kg)

<sup>2</sup> Flow rates listed are for depth cartridges. Consult factory for more specific information.

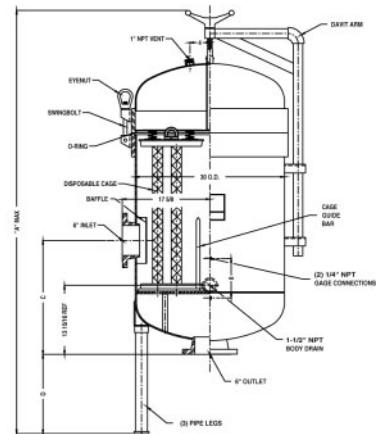
Side View (1 Cage - Non-Code Housing)



Side View (1 Cage - Code Housing)



Side View (3 Cage - Code Housing)



## Part Numbers/Ordering Information

■ TSO ● C-316L - ◆ ▼ ◆ ◆ - ■■ (e.g. 44TSO3C-316L-3FD-C150U)

Code	No. of 10" Equivalents <sup>3</sup>
30	30
45	45
60	60
135	135
180	180

<sup>3</sup> 7-around cage housings also available. Please consult Technical Services.

Code	Cage Height (nominal)
2	20"
3	30"
4	40"

Code	Davit Assembly
Blank	For Non-Code Housing
D	For Code Housing

Code	Inlet/Outlet Connection Sizes
3	3"
4	4"
5	5"
6	6"

Code	ASME Stamp Designation
U	U Stamp
UM	UM Stamp

Code	Connection Styles
Blank	NPT
F	Flange

Code	Code Construction
Blank	Non-Code Construction (available for 1 cage model only)
C150	Code Construction



2200 Northern Boulevard  
East Hills, New York 11548-1289

1.800.FILTERS toll free  
516.484.5400 phone  
516.484.0364 fax  
information@pall.com e-mail

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