

PARKER - COPPER STRAINERS/STRAINER DISTRIBUTORS



Strainers are low cost filtration devices designed to protect refrigeration components, including valves, compressors and capillary tubes, from system contaminants.

KEY FEATURES AND BENEFITS

- Copper construction to resist corrosion.
- 500 psig design pressure.
- Available in a variety of inlet and outlet sizes.
- UL recognized (File SA-8570) and CSA certified (LR-87950).

Proper selection of strainers is based on two parameters:

1. Maximum operating pressure
2. Contaminants present in the system.

Maximum Operating Pressure - Information regarding operating pressure is required to adequately size the wall thickness of the strainer to attain the ultimate burst pressure. In accordance with Underwriters Laboratories (UL) and Canadian Standards Association (CSA), the burst pressure for Parker strainers is rated as five times the design working pressure of the system. Listed in the catalog as design working pressure, this value can be correlated to tube diameter and wall thickness in order to meet specific UL specifications.

Contaminants - To determine the type and area of the screen, information about contaminants is needed. The size, type and cleanliness of the refrigeration system and its components, as well as the control of the assembly process, all determine the amount and size of the contaminants to be trapped by the strainer. The most common size of screen is 150 x 140 mesh which is used to protect capillary tubes. An extra large screen area should be selected if the strainer is expected to trap large amounts of foreign material. The large screen area will ensure there is enough area for passage of fluid without causing pressure drop.

Recommended Screen Area

SCREEN AREA (sq in.)	LOW TEMP R-12 & R-134a 0° or Below	MED. TEMP R-12 & R-134a 0° F or Above	LOW TEMP R-22	AIR COND. R-22
0.8	1/8 hp	1/4 hp	1/8 hp	1/3 hp
1.8	1/4 hp	1/3 hp	1/3 hp	1/2 hp
2.2	1/3 hp	1/2 hp	1/2 hp	3/4 hp
2.3	1/2 hp	3/4 hp	3/4 hp	1 hp
5.2	1-1/2 hp	2 hp	1-1/2 hp	3 hp

Strainer Screen Dimensions

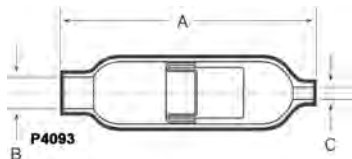
MESH	DIAMETER OF WIRE	PARTICLE SIZE MAXIMUM DIAMETER	SCREEN MATERIAL	MICRON SIZE	% OPEN AREA
100 x 90	0.0045	0.0055	s.s.	140	30%
120 x 108	0.0036	0.0046	brass	117	30%
150 x 140	0.0026	0.0041	s.s.	104	37%

PART NO	MODEL NO	AREA (sq in)	OVERALL LENGTH (in)	INLET ID (B) (in)	OUTLET ID (C) (in)
054-816-03	PS-2S*	1.00	2.75	1/4	1/4
054-816-02	PS-3S*	1.00	2.75	3/8	3/8
056-822-00	PS-4S*	1.00	3.00	1/2	1/2
--	PS-5S	8.37	5.13	5/8	5/8
--	PS-7S	8.37	5.13	7/8	7/8
--	PS-9S	10.62	5.44	1-1/8	1-1/8
--	PS-11S	10.62	5.44	1-3/8	1-3/8
--	PS-13S	10.62	6.00	1-5/8	1-5/8

*These are stock items, all others on this page are non-stock.

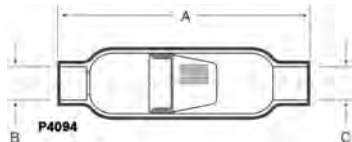
PARKER - COPPER STRAINERS/STRAINER DISTRIBUTORS

5/8" O.D. Copper Strainers - Standard Products



PART NO	Design Working Pressure (psig)	Filtration Capacity Microns	SCREEN AREA (sq in.)	INLET ID (B) (in)	OUTLET ID (C) (in)	OVERALL LENGTH (A) (in.)
054139-00	500	140	0.75	1/4	.147-.152	2.25

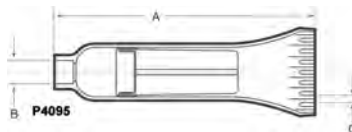
3/4" O.D. Copper Strainers



PART NO	Design Working Pressure (psig)	Filtration Capacity Microns	SCREEN AREA (sq in.)	INLET ID (B) (in)	OUTLET ID (C) (in)	OVERALL LENGTH (A) (in.)
054816-03	500	117	0.88	1/4	1/4	2.75
054816-06	500	117	0.88	3/8	5/16	2.75
054816-01	500	117	0.88	3/8	3/8 OD	2.75
054816-02	500	117	0.88	3/8	3/8	2.75
054816-10	500	117	0.88	1/2	1/2 OD	2.75
056822-00	500	140	0.88	1/2	1/2	3

1" O.D. Copper Strainers

STANDARD PRODUCT



PART NO	Design Working Pressure (psig)	Filtration Capacity Microns	SCREEN AREA (sq in.)	INLET ID (B) (in)	OUTLET ID (C) (in)	OVERALL LENGTH (A) (in.)
057073-01	500	140	1.96	3/8	8 @ 1/8	4.25

MODIFIED STANDARD

PART NO	Design Working Pressure (psig)	Filtration Capacity Microns	SCREEN AREA (sq in.)	INLET ID (B) (in)	OUTLET ID (C) (in)	OVERALL LENGTH (A) (in.)
441601	360-540	104	1.96	--	--	360-540

Outlet Options

Outlet	No. of Holes	Outlet	No. of Holes
0.081	1	0.125	1, 2, 3, 4, 5, 6, 8
0.087	1	3/16	1
0.093	1	1/4	1
0.099	1	5/16	1
0.106	1, 2, 3, 4, 5, 6, 8	3/8	1
0.112	1	1/2	1

Inlet Options

Inlet	No. of Holes
3/16	1
1/4	1, 2
5/16	1, 2
3/8	1
1/2	1
5/8	1

NOTE: All 1-in. O.D. strainers are Underwriters' Laboratories recognized file SA-8570, guide card SMGT-2 and Canadian Standards Association certified file No. LR-87950 Model 1025.

NOTE: All items on this page are non-stock.

Refrigeration

Compressors,
Chillers, Condensers

Motors

Electrical

Heating
Components

Indoor Air
Quality

Thermostats

Oils &
Chemicals

Accessories, Supplies
& Commodities

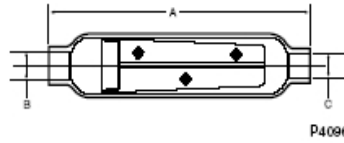
Tools &
Instruments

Refrigeration

PARKER - COPPER STRAINERS/STRAINER DISTRIBUTORS

1-3/16" O.D. Copper Strainers

STANDARD PRODUCT



PART NO	Design Working Pressure (psig)	Filtration Capacity Microns	SCREEN AREA (sq in.)	INLET ID (B) (in)	OUTLET ID (C) (in)	OVERALL LENGTH (A) (in.)
058307-00	500	140	8.37	1/2	1/2	5.13

MODIFIED STANDARD

PART NO	Design Working Pressure (psig)	Filtration Capacity Microns	SCREEN AREA (sq in.)	INLET ID (B) (in)	OUTLET ID (C) (in)	OVERALL LENGTH (A) (in.)
441901	500	104	2.32	--	--	5.8-6.5

Outlet Options

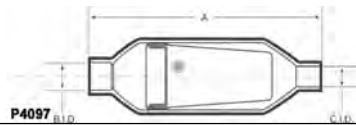
Outlet	No. of Holes	Outlet	No. of Holes
0.099	1, 2, 3, 4, 5, 6	1/4	1
0.106	1, 2, 4	5/16	1
0.112	1, 3, 4, 6	3/8	1, 2
0.125	1, 2	1/2	1

Inlet Options

Inlet	No. of Holes
1/4	1
5/16	1, 2
3/8	1, 2
1/2	1
5/8	1

NOTE: All 1-3/16-in. O.D. strainers are Underwriters' Laboratories recognized file SA-8570, guide card SMGT-2 and Canadian Standard Association certified file No. LR-87950 Model 319.

1-5/8" O.D. Copper Strainers



PART NO	Design Working Pressure (psig)	Filtration Capacity Microns	SCREEN AREA (sq in.)	INLET ID (B) (in)	OUTLET ID (C) (in)	OVERALL LENGTH (A) (in.)
053830-01	500	140	10.62	1/4	1/4	5.13
054745-01	500	140	10.62	5/8	.617-.622 OD	5.44