

Style KT7

Cast Iron Basket Strainer

Basket Strainer
Cast Iron (ASTM A 126, Class B)
125 lb. Threaded



APPLICATIONS

Water, oil or gas where protection from foreign matter in a pipeline is required.

CONSTRUCTION

The Keckley Style KT7 strainers are constructed from rugged cast iron castings and are machined to exacting specifications.

FEATURES

The Keckley threaded KT7 strainers feature a machined basket seat to minimize particle bypass. The Style KT7 is furnished with a Buna-N o-ring and is limited to 150°F. Keckley threaded Style KT7 strainers have knobs for quick opening. All units are furnished standard with a tapped and plugged NPT drain connection.

BASKETS

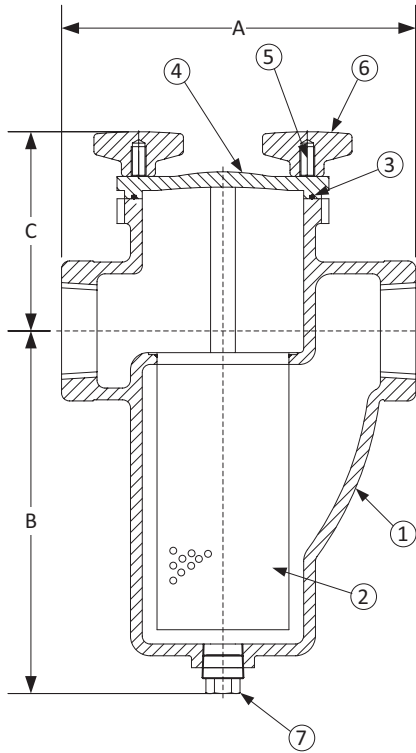
Standard baskets are 304 stainless steel and are spot welded for maximum strength. Different size perforations and meshes are available in stainless steel, monel, and brass to meet specific media requirements. If media is not indicated, screens for *water* will be supplied.

CLEANING

Cleaning of the Style KT7 strainer is accomplished by removing the cover and pulling out the basket. **Warning:** See Maintenance Instructions on page **S6** of the Strainer Information Section for additional precautions and detailed information on servicing the strainer.

WORKING PRESSURES - NON SHOCK

NOM. RATING	MEDIA	3/8" to 3"	10 mm to 80 mm
125# (Threaded)	W.O.G.	200 PSI @ 150°F	1379 KPa @ 66°C



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PARTS LIST

ITEM	DESCRIPTION	MATERIAL
1	Body	Cast Iron (ASTM A 126, Class B)
2	Basket	Stainless Steel (304)
3	O-ring	Buna-N (Max Temperature 150°F)
4	Cover	Cast Iron (ASTM A 126, Class B)
5	Studs	Carbon Steel (ASTM A 193, Grade B7)
6	Knobs	Cast Iron (ASTM A 126, Class B)
7	Plug	Cast Iron (ASTM A 126, Class B)

STANDARD SCREENS SUPPLIED

SIZE		SCREEN PERFORATION		
		FOR LIQUID		OPEN AREA
in	mm	in	mm	
3/8 to 3	10 to 80	1/16	1.6	30%

Options: Other meshes, perforations, and screen materials are available.

SIZE		DIMENSIONS								WEIGHTS	
		A		B		C		E			
in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kgs
3/8	10	4-9/16	116	4	102	3-1/8	79	3/8	10	7	2.9
1/2	15	4-9/16	116	4	102	3-1/8	79	3/8	10	7	2.9
3/4	20	4-9/16	116	4	102	3-1/8	79	3/8	10	7	2.9
1	25	5-5/16	135	4-7/8	124	3	76	3/8	10	10	4.2
1-1/4	32	6-5/16	160	6-1/2	165	4-1/8	105	1/2	15	17	7.5
1-1/2	40	6-5/16	160	6-1/2	165	4-1/8	105	1/2	15	17	7.5
2	50	8-1/4	210	7-7/8	200	4-3/4	121	3/4	20	28	12.3
2-1/2	65	9-5/8	245	8-3/4	222	4	102	1	25	31	13.8
3	80	11-1/4	286	11-3/8	289	5-7/8	149	1	25	45	20.2

Certified dimensional drawings are available upon request.

†This table reflects only the nearest metric equivalents.

Face to face values tolerance in compliance with ASME B16.4.

FLOW COEFFICIENTS

Size	C _v	Size	C _v	Size	C _v
3/8"	15	1"	24	2"	70
1/2"	15	1-1/4"	44	2-1/2"	121
3/4"	15	1-1/2"	44	3"	158

TOTAL SCREEN AREA

Size	(in ²)	Size	(in ²)	Size	(in ²)
3/8"	12.56	1"	20.17	2"	67.75
1/2"	12.56	1-1/4"	40.23	2-1/2"	75.57
3/4"	12.56	1-1/2"	40.23	3"	132.89

*See DETERMINING RATIOS on page S5 of the Strainer Information Section for calculating NET FREE AREA of the screen to inside pipe area.

PRESSURE DROP CHART

Basket Strainers (Styles KT7)

This pressure drop chart is based on the flow of clean water through the Keckley strainer styles listed above with screen perforations ranging from 3/64" through 1/8".

TO USE CHARTS:

Find your desired rate of flow (GPM) on the left hand side of the chart. Follow its corresponding horizontal line to the point where it intersects the diagonal line indicating the strainer pipe size. From this point of intersection, follow the vertical line down to the bottom of the chart to determine the approximate pressure drop.

CORRECTION FACTORS:

For finer mesh baskets that are backed with a perforated sheet, multiply the pressure drops shown at right by the following:

40 mesh	x 1.2
60 mesh	x 1.4
80 mesh	x 1.6
100 mesh	x 1.7

