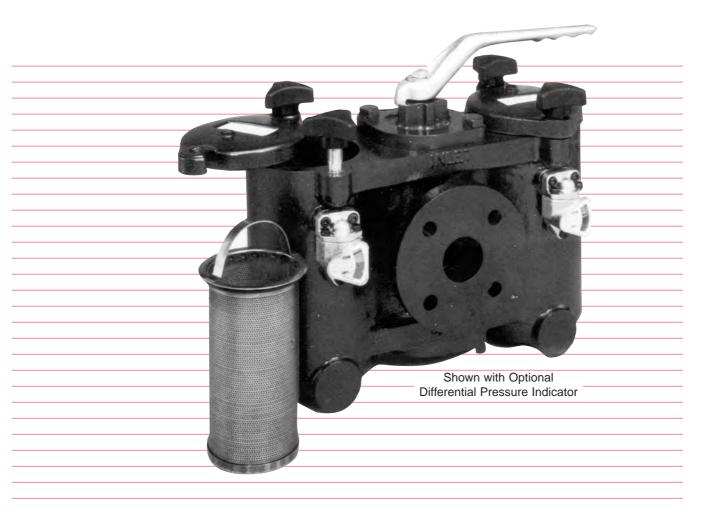


DUPLEX STRAINERS





DUPLEX STRAINERS

STYLE Screwed (NPT) ¾" to 2½"	DPXS	WDPXS	CDPXS		
STYLE Flanged (ANSI) 1" to 8"	DPXF 125lb.	WDPXF 125lb.	CDPXF 125lb.		
Body & Cover	Cast Iron	Cast Iron	Cast Iron		
	ASTM A 126 Class B	ASTM A 126 Class B	ASTM A 126 Class B		
Diverter Valve	Bronze	Iron	Stainless Steel*		
Sleeve	Bronze	No Sleeve	No Sleeve		
Siceve	DIOIIZE	INO SIEGVE	INO Sieeve		
Drive Shaft & Spindle	Stainless Steel	Mild Steel	Stainless Steel		
Basket Screens	Stainless Steel	Stainless Steel	Stainless Steel		
Drain Plugs	Brass	Brass	Stainless Steel		
Seals, Standard	Viton	Viton	Viton		
Maximum Non-Shock	200 PSIG at 150°F	200 PSIG at 150°F	200 PSIG at 120°F		
Water, Oil, Gas					
Not Recommended For Steam					
Maximum Temperature with Viton Seal	+302°F	+392°F	+120°F		

www.mmcontrol.com/Keckley.php

Larger sizes available upon request.

*Nickel / Teflon (PTFE) Coated

AVAILABLE OPTIONS FOR ALL STYLES

DIFFERENTIAL PRESSURE INDICATORS - Mounts directly to the strainer body and visually indicates when the baskets require cleaning. Preset at a differential pressure of 10 PSI with an option for settings of 5 and 15 PSI.

DIN ELECTRICAL PROBES - For use with the above differential pressure indicator. Provides an electrical signal when the pre-set maximum differential pressure is reached.

BASKETS - Screens available in sizes ranging from 300 mesh to 1/4" perforations.

MAGNETIC INSERTS - Mounted to the strainer baskets to collect metallic particles.

100% SHUT-OFF - Achieved through the use of special seals within the change-over mechanism to eliminate leakage between chambers.

AIR ELIMINATORS - Automatically vents air from basket chambers. (ex. After basket cleaning).

KECKLEY COMPANY 3400 Cleveland Street P.O. Box 67 Skokie, Illinois 60076



STYLE Screwed (NPT) ¾" to 2½"	BDPXS	SDPXS	SCDPXS	SSDPXS
STYLE Flanged (ANSI) 1" to 8"	BDPXF 150lb.	SDPXF 150lb.	SCDPXF 150lb.	SSDPXF 150lb.
Body & Cover	Cast Bronze	Cast Carbon Steel	Cast Carbon Steel	Cast Stainless Steel
	ASTM B62	ASTM A 216 WCB	ASTM A 216 WCB	316 ASTM A 351 CF8M
Diverter Valve	Bronze	Bronze	Stainless Steel*	Stainless Steel*
Sleeve	No Sleeve	Bronze	No Sleeve	No Sleeve
Drive Shaft & Spindle	Phosphor Bronze	Stainless Steel	Stainless Steel	Stainless Steel
Basket Screens	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Drain Plugs	Phosphor Bronze	Brass	Stainless Steel	Stainless Steel
Seals, Standard	Viton	Viton	Viton	Viton
Maximum Non-Shock Water, Oil, Gas	225 PSIG at 150°F	285 PSIG at 100°F	285 PSIG at 100°F	275 PSIG at 100°F
Not Recommended For Steam				
Maximum Temperature with Viton Seal	+392°F	+302°F	+120°F	+392°F
with vitori ocal				

www.mmcontrol.com/Keckley.php

Larger sizes available upon request.

*Nickel / Teflon (PTFE) Coated

AVAILABLE OPTIONS FOR ALL STYLES

MOUNTING STUDS / BRACKETS - Allowing the strainer to be independently supported.

HEATING JACKETS - Used to maintain the temperature of the process fluid inside the strainer. Mounted permanently to the strainer body allowing a supply of steam or hot water to pass around the body.

PRESSURE EQUALIZING VALVES - Standard on the 5, 6 and 8" strainers, these may be fitted to other sizes upon request.

SPECIAL SEALING MATERIALS - EPDM, Viton. Others upon request.

BODY AND INTERNALS - Available in other material combinations, consult factory.

KECKLEY COMPANY 3400 Cleveland Street P.O. Box 67 Skokie, Illinois 60076



DUPLEX STRAINERS Screwed

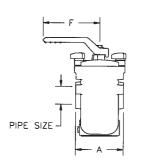
STYLE BODY DIVERTER

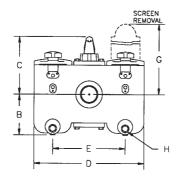
DPXS CAST IRON BRONZE **WDPXS** CAST IRON IRON

CDPXS CAST IRON STAINLESS STEEL

BDPXSCAST BRONZEBRONZESDPXSCAST CARBON STEELBRONZE

SCDPXS CAST CARBON STEEL STAINLESS STEEL
SSDPXS CAST STAINLESS STEEL STAINLESS STEEL





STANDARD SCREENS SUPPLIED

PIPE SIZE	SCREEN PERFORATION	OPEN AREA
¾" to 1½"	¼ ₆ "	30%
2", 2½"	1/6"	43%

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

APPLICATIONS

Duplex strainers are used in continuous flow applications where the process can not be shut down for cleaning. Examples: lubrication systems, industrial or marine oil burners, chemical plants, cooling lines in power plants, compressors, condensers, and ink supply lines to printing presses. Duplex strainers are also specified for water lines to cooling towers and pumping stations where water is taken from lakes or rivers.



WORKING PRESSURE— NON SHOCK

Not recommended for steam service

STYLE DPXS, WDPXS WATER, OIL, GAS...200 PSI-150°F BODY AND COVERS: ASTM A 126, CLASS B

STYLE CDPXS WATER, OIL, GAS...200 PSI-120°F BODY AND COVERS: ASTM A 126, CLASS B

STYLE BDPXS WATER, OIL, GAS...225 PSI-150°F BODY AND COVERS: ASTM B62

STYLE SDPXS, SCDPXS WATER, OIL, GAS...285 PSI-100°F BODY AND COVERS: ASTM A 216, GRADE WCB

STYLE SSDPXS
WATER, OIL, GAS...275 PSI-100°F
BODY AND COVERS: Type 316 A 351, GRADE CF8M

DIMENSIONS & SHIPPING WEIGHTS (APPROXIMATE)

		_	С	D	_	_	_		WEIGHT LBS.	
PIPE SIZE	А	В			E	F	G	Н	IRON BODY	OTHERS
3/4"	4¾	41//8	5%	10%	6 ¹ 1/ ₁₆	6%	811/16	1/2	29	35
1"	4¾	41//8	5%	10%	611/16	6%	811/16	1/2	29	35
1¼"	5%	5¾	6%	11¾6	71/4	6%	12	1/2	42	51
1½"	5%	5¾	6%	11¾6	71/4	6%	12	1/2	42	51
2"	7¼	61/4	8¾	16¾	11	8¼	1313/16	1/2	108	132
2½"	7¼	6%	8¾	16¾	11	8¼	1313/16	1/2	108	132

Certified Dimensional Sheets Available.

www.mmcontrol.com/Keckley.php



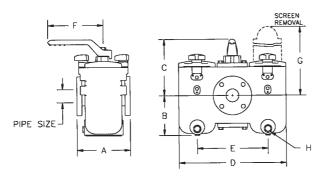
DUPLEX STRAINERS Flanged

STYLEBODYDIVERTERDPXFCAST IRON-125 lb.BRONZEWDPXFCAST IRON-125 lb.IRONCDPXFCAST IRON-125 lb.STAINLESS STEEL

BDPXF CAST BRONZE-150 lb. BRONZE **SDPXF** CAST CARBON STEEL-150 lb. BRONZE

SCDPXF CAST CARBON STEEL-150 lb. STAINLESS STEEL

SSDPXF CAST STAINLESS STEEL-150 lb. STAINLESS STEEL



STANDARD SCREENS SUPPLIED

PIPE SIZE	SCREEN PERFORATION	OPEN AREA
1" to 1½"	1/16"	30%
2" to 8"	1/6"	43%

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

APPLICATIONS

Duplex strainers are used in continuous flow applications where the process can not be shut down for cleaning. Examples: lubrication systems, industrial or marine oil burners, chemical plants, cooling lines in power plants, compressors, condensers, and ink supply lines to printing presses. Duplex strainers are also specified for water lines to cooling towers, and pumping stations where water is taken from lakes or rivers.



WORKING PRESSURE— NON SHOCK

Not recommended for steam service

STYLE DPXF, WDPXF WATER, OIL, GAS...200 PSI-150°F BODY AND COVERS: ASTM A 126, CLASS B

STYLE CDPXF WATER, OIL, GAS...200 PSI-120°F BODY AND COVERS: ASTM A 126, CLASS B

STYLE BDPXF WATER, OIL, GAS...225 PSI-150°F BODY AND COVERS: ASTM B62

STYLE SDPXF, SCDPXF WATER, OIL, GAS...285 PSI-100°F BODY AND COVERS: ASTM A 216, GRADE WCB

STYLE SSDPXF WATER, OIL, GAS...275 PSI-100°F BODY AND COVERS: Type 316 A 351, GRADE CF8M

DIMENSIONS & SHIPPING WEIGHTS (APPROXIMATE)

DIDE 0175		_		_	_	_		l	WEIGHT LBS.	
PIPE SIZE	A	В	С	D	E	F	G	Н	IRON BODY	OTHERS
1"	6	4%	5%	10%	611/16	6%	811/16	1/2	38	44
1½"	6%	5¾	6%	11¾ ₆	7¼	6%	12	1/2	53	62
2"	81/4	6%	8¾	16¾	11	81/4	1313/16	1/2	117	139
2½"	81/4	6%	8¾	16¾	11	8¼	1313/16	1/2	119	141
3"	10½	8¼	101/16	19¼	13	9%	17¾	1/2	190	225
4"	12½	101/16	11%	21¼	15	9%	22%	1/2	282	302
* 5"	18%	10%6	13	23½	16	15	22%	1/2	619	663
* 6"	18%	10%	13	23½	16	15	22%	1/2	629	673
8"	22	20½	2111/16	40%	27%	1911/16	47%	1/2	1632	1985

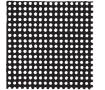
* 5" AND 6" DUPLEX STRAINERS HAVE A FOUR BASKET DESIGN.

Certified Dimensional Sheets Available.

BASKETS

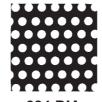


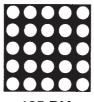
PERFORATED SHEET METAL















.033 DIA. 1/32" prox. 331 Holes Per Sq. In.

.045 DIA. 364" prox. 225 Holes Per Sq. In.

.062 DIA. ¼6" prox. 98 Holes Per Sq. In.

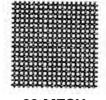
.094 DIA. 3/2" prox. 51 Holes Per Sq. In.

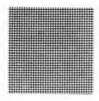
125 DIA. ⅓" prox. 29 Holes Per Sq. In.

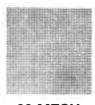
.1875 DIA. %6" prox. 18 Holes Per Sq. In.

.25 DIA. 1/4" prox. 12 Holes Per Sq. In.

WOVEN METAL WIRE MESH











Mesh Size Microns 20 840 40 420 60 250 80 177 100 149 200 74 300 50

20 MESH Wire Dia. .016 Opening .0340

40 MESH Wire Dia. .010 Opening .0150

60 MESH Wire Dia. .0075 Opening .0092

80 MESH Wire Dia. .0055 Opening .0070

100 MESH Wire Dia. .0045 Opening .0055

Also available in 30, 50, 150, 200 and 300 Mesh.

WIRE MESH BASKETS REINFORCED WITH PERFORATED MATERIAL AVAILABLE.

MAGNETS

Magnets can be provided as an option which, when placed inside the strainer basket, will remove very fine iron or steel particles present in fluid.

MATERIAL

Stainless steel baskets are standard in all strainers.

IFFERENTIAL PRESSURE INDICATORS



As strainer baskets become clogged with debris, the pressure drop increases. In order to maintain efficient straining and line pressure, it is important that the baskets are cleaned regularly.

The Keckley Differential Pressure Indicator is designed to monitor basket conditions and provide visual warning that cleaning is required.

Available as an option on all duplex strainers, the indicator is mounted directly to the strainer body and indicates the differential pressure across each basket, taking the guesswork out of strainer maintenance.

FEATURES

- · Easy to read
- · Compact design
- · No piping to become clogged

- · Positive seal separates clean and dirty liquids
- Remote operation via electrical signal available if required
- Purpose designed for Keckley duplex basket strainers

SPECIFICATIONS

- · Anodized aluminum casing and nitrile diaphragm for water and oil applications
- Stainless steel casing, stainless steel internals and viton diaphragm for other liquids
- Indicator preset at 10 PSI. Other spring ratings available on request
- Pointer operated by internal magnet avoiding leakage through seals

KECKLEY COMPANY

P.O. Box 67

Skokie, Illinois 60076



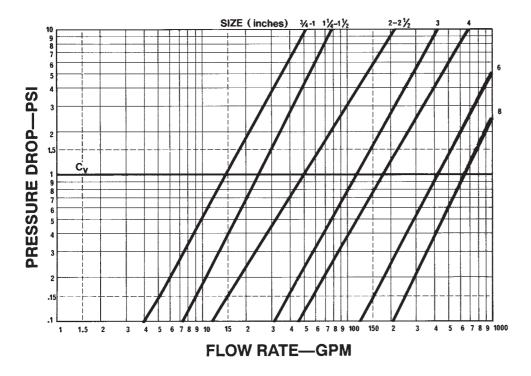
RATIOS: Net Free Area To Pipe Area

STANDARD PERFORATIONS AND WIRE MESH*

STRAINER SIZE (ALL STYLES)	TOTAL SCREEN AREA	INSIDE AREA PIPE	.033	.045	.0625	.094	.125	.1875	.250	20	40	60	80	100	
(/ 122 0 / 122 0 /	(SQ. IN.)	(SQ. IN.)	1/32	3/64	1/16	3/32	1/8	3/16	1/4	Mesh	Mesh	Mesh	Mesh	Mesh	SIZE
3/4	29	.533	15.78	17.96	16.32	19.59	23.40	27.75	31.56	12.12	8.42	7.14	7.37	8.42	3/4
1	29	.864	9.73	11.08	10.07	12.08	14.43	17.12	19.47	7.48	5.19	4.40	4.55	5.19	1
1¼	42	1.496	8.14	9.27	8.42	10.11	12.07	14.32	16.28	6.25	4.35	3.68	3.80	4.35	1¼
1½	42	2.036	5.98	6.81	6.19	7.43	8.87	10.52	11.97	4.60	3.20	2.71	2.80	3.14	1½
2	75	3.355	6.48	7.38	6.71	8.05	9.61	11.40	12.97	4.98	3.46	2.93	3.03	3.46	2
2½	75	4.788	4.54	5.17	4.70	5.64	6.74	7.99	9.09	3.49	2.43	2.06	2.12	2.43	2½
3	111	7.393	4.35	4.96	4.50	5.41	6.46	7.66	8.71	3.35	2.33	1.97	2.03	2.33	3
4	150	12.73	3.42	3.89	3.54	4.24	5.07	6.01	6.83	2.62	1.82	1.54	1.60	1.82	4
6	350	28.89	3.51	4.00	3.63	4.36	5.21	6.18	7.03	2.70	1.88	1.59	1.64	1.88	6
8	618	50.00	3.58	4.08	3.71	4.45	5.32	6.30	7.17	2.75	1.91	1.62	1.67	1.91	8
	% OPEN	AREA	29%	33%	30%	36%	43%	51%	58%	51.8%	36%	30.5%	31.5%	36%	

www.mmcontrol.com/Keckley.php

PRESSURE DROP CHART



NOTE:

These charts are based on flow of clean water through .125" perforated baskets. For multiplying factors for clogged screens, see page 8.

CORRECTION FACTORS (for mesh lined baskets): Multiply pressure drops shown in chart at left by the following:

40 mesh x 1.2

60 mesh x 1.4

80 mesh x 1.6

100 mesh x 1.7

KECKLEY COMPANY

3400 Cleveland Street

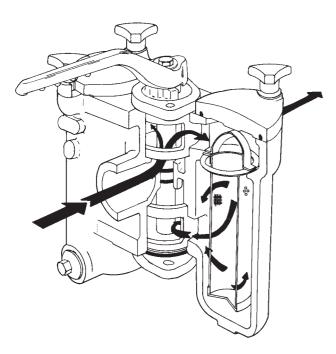
P.O. Box 67

Skokie, Illinois 60076

^{*}Wire mesh screens are reinforced with a 1/8" perforated sheet.



FLOW DIAGRAM



Center position of handle (as shown) allows flow to both chambers

Moving handle to far right or left diverts flow to the chamber UNDER the handle. This allows for removal and cleaning of the basket not in use.

PRESSURE DROP CHART (CLOGGED SCREENS)

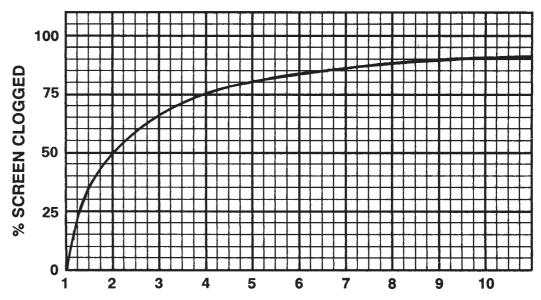
TO USE CHART:

Anticipate the allowable percentage of clogged screen to the left of the chart. Follow that value to the right where it intersects the curve. From that point, extend a line straight down to determine the pressure drop multiplier. For example: If it is anticipated that the screens will become 50% clogged before cleaning, then the pressure drop multiplier would be 2.



To determine the pressure drop for a flow rate of 150 GPM through a 4" duplex

strainer with 1/8" perforated stainless steel screens that are 50% clogged: First determine the pressure drop for a clean screen from the chart on page 7.



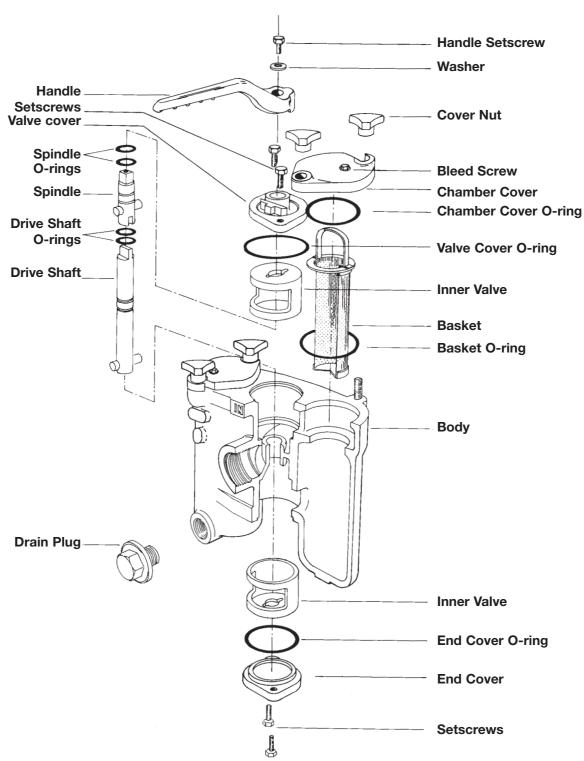
PRESSURE DROP MULTIPLIER:

As described above, the multiplying factor for a 50% clogged screen is 2. It can now be determined that the pressure drop would be .8 PSI \times 2 = 1.6 PSI.

KECKLEY COMPANY ● 3400 Cleveland Street ● P.O. Box 67 ● Skokie, Illinois 60076



PARTS LIST

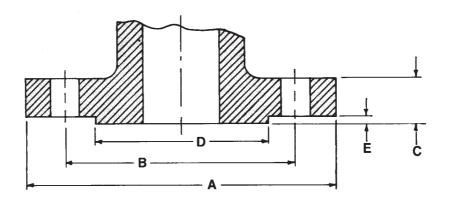


5" & 6" Size - Four basket design not shown.

8" Size - Bolted cover.



ANSI STANDARDS



CAST IRON FLANGES

125 lb	PIPE SIZE, INCHES		1	1½	2	2½	3	4	5	6	8
	Flange Dia.	А	41/4	5	6	7	7½	9	10	11	13½
	Bolt Circle Dia.	В	3%	3%	4¾	5½	6	7½	8½	9½	11¾
	Flange Thk.	С	7/16	%6	5/8	11/16	3/4	¹⁵ / ₁₆	1	1	1%
	No. Bolts		4	4	4	4	4	8	8	8	8
	Bolt Dia.		1/2	1/2	5/8	5%	5%	5%	3/4	3/4	3/4

BRONZE FLANGES

150 lb	PIPE SIZE, INCHES		1	1½	2	2½	3	4	5	6	8
	Flange Dia.	Α	41/4	5	6	7	7½	9	10	11	13½
	Bolt Circle Dia.	В	31/4	3%	4¾	5½	6	7½	8½	9½	11¾
	Flange Thk.	С	3/8	7/16	1/2	%6	5/8	11/16	3/4	¹³ / ₁₆	¹⁵ / ₁₆
	No. Bolts		4	4	4	4	4	8	8	8	8
	Bolt Dia.		1/2	1/2	%	%	%	%	3/4	3/4	3/4

STEEL FLANGES

150 lb	PIPE SIZE, INCHES		1	1½	2	2½	3	4	5	6	8
	Flange Dia.	Α	41/4	5	6	7	7½	9	10	11	13½
	Bolt Circle Dia.	В	31/4	3%	4¾	5½	6	7½	8½	9½	11¾
	Flange Thk.	С	7/16	% ₁₆	5/8	11/16	3/4	¹⁵ / ₁₆	¹⁵ / ₁₆	1	11//
	Raised Face Dia.	D	2	21/%	3%	41//8	5	6¾6	7 ⁵ / ₁₆	8½	10%
	No. Bolts		4	4	4	4	4	8	8	8	8
	Bolt Dia.		1/2	1/2	5/8	5/8	%	%	3/4	3/4	3/4

^{*} Flange thickness (dimension C) includes the 1/16 inch high raised face (Shown above as dimension E)

KECKLEY COMPANY

3400 Cleveland Street

P.O. Box 67

Skokie, Illinois 60076



800-876-0036

Other Products

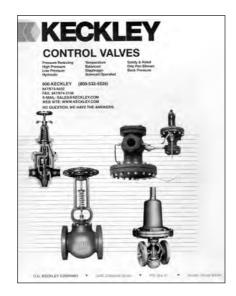
Since 1914, Keckley engineering and manufacturing has been working for industry and commercial building installations worldwide. Keckley products excel in their construction, durability and performance.

It's no wonder so many engineers specify Keckley. If you need Control Valves, Float and Lever Valves, 'Y', Basket and Duplex Strainers...ask for Keckley.

Distributed by: M&M Control Service Call 800-876-0036

FAX: 847-356-0747

E-MAIL: SALES@MMCONTROL.COM
WEB SITE: WWW.MMCONTROL.COM



KECKLEY CONTROL VALVES

Bulletin 8900



KECKLEY FLOAT & LEVER VALVES

Bulletin 8711

KECKLEY COMPANY ● 3400 Cleveland Street ● P.O. Box 67 ● Skokie, Illinois 60076