



BALL VALVES
AUTOMATION
&
CONTROLS

BACKFLOW
PREVENTERS

BUTTERFLY
VALVES

FORGED STEEL
VALVES

FOR RESIDENTIAL, COMMERCIAL
AND INDUSTRIAL APPLICATIONS



APOLLO®

pipeline strainers

SAFETY RELIEF
VALVES

STRAINERS

PLUMBING
& HEATING
PRODUCTS

IN-LINE
CHECK VALVES

Conbraco Industries offers you the most extensive line of strainers available today from a single manufacturer

If you need pipeline strainers to protect expensive equipment such as valves, meters, solenoids, regulators and pumps in a wide variety of applications, Conbraco Industries should be your source. No other company provides you with more top quality strainer choices.

Conbraco produces more than 40 strainer models in sizes from 1/8" to 24", suitable for everything from O.E.M. applications to heavy process industry use. They are available in bronze; cast iron; stainless, carbon, chrome moly, and forged steels. Some models are machined from solid stock.

Select from threaded, flanged, butt weld or socket weld end connections. There are hundreds of screen options, including magnetic screen assemblies for extra protection.

You can choose strainers for low-pressure applications such as swimming pools, high-pressure steam applications, temporary strainers for system start-ups, and virtually anything in-between.

This brochure will help you learn more about all the strainer options available to you from Conbraco. If you need assistance, please feel free to contact your local Conbraco distributor, or call our Customer Service Department at (704) 841-6000. We'll be happy to help you select the right strainer for your specific application.

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WARRANTY & LIMITATIONS OF LIABILITY

Conbraco Industries, Inc. warrants, to its initial purchaser only, that its products which are delivered to this initial purchaser will be of the kind described in the order or price list and will be free of defects in workmanship or material for a period of one year from the date of delivery to you, our initial purchaser. Should any failure to conform to this warranty appear within one year after the date of the initial delivery to our initial purchaser, Conbraco will, upon written notification thereof and substantiation that the goods have been stored, installed, maintained and operated in accordance with Conbraco's recommendations and standard industry practice, correct such defects by suitable repair or replacement at Conbraco's own expense.

THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHER WARRANTY OF QUALITY WHETHER EXPRESSED OR IMPLIED, EXCEPT THE WARRANTY OF TITLE AND AGAINST PATENT INFRINGEMENT. Correction of non-conformities, in the manner and for the period of time provided above, shall constitute fulfillment of all liabilities of Conbraco to our initial purchaser, with respect to the goods, whether based on contract, negligence, strict tort or otherwise. It is the intention of Conbraco Industries, Inc. that no warranty of any kind, whether express or implied, shall pass through our initial purchaser to any other person or corporation.

LIMITATION OF LIABILITY: Conbraco Industries, Inc. SHALL NOT UNDER ANY CIRCUMSTANCES BE LIABLE FOR SPECIAL OR CONSEQUENTIAL DAMAGES SUCH AS, BUT NOT LIMITED TO, DAMAGES OR LOSS OF OTHER PROPERTY OR EQUIPMENT, LOSS OF PROFITS OR REVENUE, COST OF CAPITAL, COST OF PURCHASED OR REPLACEMENT GOODS, OR CLAIMS OF CUSTOMERS OF OUR INITIAL PURCHASER. THE REMEDIES OF OUR INITIAL PURCHASER, AND ALL OTHERS, SET FORTH HEREIN ARE EXCLUSIVE, AND THE LIABILITY OF CONBRACO WITH RESPECT TO SAME SHALL NOT, EXCEPT AS EXPRESSLY PROVIDED HEREIN, EXCEED THE PRICE OF THE CONBRACO GOODS UPON WHICH SUCH LIABILITY IS BASED.



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59-300	Bronze	400 WOG	Sweat End	Y	1/2" - 2"	8
59V	Bronze	400 WOG	NPT	T	1/8" - 1/4"	9
TCG*	Cast Iron	250	NPT	Y	1/4" - 3"	10
539-15	Bronze	150	Flanged	Y	1/4" - 8"	11
539-30	Bronze	300	Flanged	Y	1/4" - 8"	11
C531-S*	Carbon Steel	600	NPT	Y	1/4" - 3"	12
C531-SW*	Carbon Steel	600	Socket Weld	Y	1/4" - 3"	12
C533-S	316 SS	600	NPT	Y	1/4" - 2"	12
C533-SW	316 SS	600	Socket Weld	Y	1/4" - 2"	12
FC1*	Cast Iron	125	Flanged	Y	1-1/2" - 18"	13
FC2*	Cast Iron	250	Flanged	Y	1-1/2" - 18"	13
UL Listed	Cast Iron	125	Flanged	Y	2-1/2" - 6"	14
C534-S*	Ductile Iron	600	NPT	Y	1/4" - 3"	15
531-15	Carbon Steel	150	Flanged	Y	1/2" - 8"	16
531-30	Carbon Steel	300	Flanged	Y	1/2" - 8"	16
531-60	Carbon Steel	600	Flanged	Y	1/2" - 8"	16
533-15	316 SS	150	Flanged	Y	1/2" - 8"	16
533-30	316 SS	300	Flanged	Y	1/2" - 8"	16
533-60	316 SS	600	Flanged	Y	1/2" - 8"	16
550-15	Chrome Moly	150	Flanged	Y	1/2" - 8"	16
550-30	Chrome Moly	300	Flanged	Y	1/2" - 8"	16
550-60	Chrome Moly	600	Flanged	Y	1/2" - 8"	16
531-15BW	Carbon Steel	150	Buttweld	Y	2" - 8"	17
531-30BW	Carbon Steel	300	Buttweld	Y	2" - 8"	17
531-60BW	Carbon Steel	600	Buttweld	Y	2" - 8"	17
533-15BW	316 SS	150	Buttweld	Y	2" - 8"	17
533-30BW	316 SS	300	Buttweld	Y	2" - 8"	17
533-60BW	316 SS	600	Buttweld	Y	2" - 8"	17
550-15BW	Chrome Moly	150	Buttweld	Y	2" - 8"	17
550-30BW	Chrome Moly	300	Buttweld	Y	2" - 8"	17
550-60BW	Chrome Moly	600	Buttweld	Y	2" - 8"	17
528-C12	Cast Iron	125	Flanged	Basket	2" - 12"	18
528-B12	Cast Iron	125	Flanged	Basket	2" - 12"	19
528-B25	Cast Iron	250	Flanged	Basket	2" - 12"	19
527-15	316 SS	150	Flanged	Basket	2" - 8"	20
527-30	316 SS	300	Flanged	Basket	2" - 8"	20
529-15	Carbon Steel	150	Flanged	Basket	2" - 8"	20
529-30	Carbon Steel	300	Flanged	Basket	2" - 8"	20
560-S	Forged Carbon	1500	NPT	Y	1/2" - 2"	21
560-SW	Forged Carbon	1500	Socket Weld	Y	1/2" - 2"	21
560-BW	Forged Carbon	1500	Buttweld	Y	1/2" - 2"	21
532-S	Carbon Steel	1500	NPT	Angle Block	1/2", 3/4" & 1"	22
532-SW	Carbon Steel	1500	Socket Weld	Angle Block	1/2" - 3"	22
Temporary Strn.	Carb Steel & 316 SS	150, 300 & 600	Flanged	Cone & Basket	1-1/2" - 18"	23
Magnetic Assy. and inserts						24-25
*Apollo International						

Part Numbering Matrix

6XX - X X X - XX			
Type	Connection	Material	Size
603 - "Y" Type, Bolted Cover	0 - FNPT	1 - Cast Iron	1 - 1/4"
604 - Angle Block	1 - Socket Weld	2 - Carbon Steel	2 - 3/8"
605 - Basket, Clamped Cover Simplex	2 - Flanged, Class 125/150	3 - 316 (CF8M)	3 - 1/2"
606 - Basket, Bolted Cover Simplex	3 - Flanged, Class 250/300	4 - Ductile Iron	4 - 3/4"
607 - "Y" Type, #1500 Forged CS	4 - Flanged, Class 600	5 - Bronze	5 - 1"
608 - Temporary, Cone Style	5 - Butt Weld, Class 150, Sch. 40	6 - Chrome Moly, WC6	6 - 1-1/4"
609 - Temporary, Basket Style	6 - Butt Weld, Class 300, Sch. 40	7 - SAE 1020	7 - 1-1/2"
612 - "Y" Type, Imported, Screwed	7 - Butt Weld, Class 600, Sch. 80	8 - Carbon Steel, ASTM A 105	8 - 2"
613 - "Y" Type, Imported, Flanged	8 - Butt Weld, Class 1500	9 - Std% Open Area (Temp. Str. Only)	9 - 2-1/2"
	9 - Socket Weld X FNPT	0 - 150% Open Area (Temp. Str. Only)	0 - 3"
		A - 200% Open Area (Temp. Str. Only)	A - 4"
		B - Cast Iron, Galvanized	B - 5"
		C - Cast Iron, Epoxy Coated	C - 6"
		E - Cast Iron, Plugged Blow Off	E - 8"
		F - 316, Oxygen Cleaned	G - 10"
		G - 316, Plugged Blow Off	H - 12"
		J - Carbon Steel, Plugged Blow Off	J - 14"
		U - Cast Iron, UL Listed	K - 16"
			L - 18"
			M - 20"
			P - 24"

Screen

Screen Type		Screen Material	
A - 20 MESH	M - .062 PERF	1 - 304 SST	7 - MONEL/MAGNETS
B - 30 MESH	N - .125 PERF	2 - MONEL	8 - 316 SST/MAGNETS
C - 40 MESH	O - .187 PERF	3 - 316 SST	9 - BRASS/MAGNETS
D - 60 MESH	P - .250 PERF	4 - BRASS	A - 316 TEMP W/DOUBLE HNDL
E - 80 MESH	Q - .375 PERF	5 - CARBON STEEL (TEMP. ONLY)	B - 316 SPEC GAGE/SPEC FLNG
F - 100 MESH	R - .312 PERF	6 - 304 SST/MAGNETS	
G - 60/80/100 MESH	S - .156 PERF		
H - 200 MESH	T - 16 MESH		
I - .020 PERF	U - 12 MESH		
J - .027 PERF	V - .500 PERF		
K - .033 PERF	W - 150 MESH		
L - .045 PERF	Y - .093 PERF		

Note: Does not apply to 59 or 59V Series. See pages 6-9.

Strainer Comparative Reference

Product	Cii	Mueller	Nicholson	Keckley	Paget	Leslie	Armstrong	Spirax/Sarco	Crane	Yarway	Watts
Bronze Screwed	59	352	352	F	39-S	7100	F4SC	BT		911	777MI
Bronze Sweat	59										S777
Cast Iron 250# Screwed	TCG*	11		B	B	7000	AISC	AT	990-1/2	901	77S/77SI
Bronze 150# Flanged	539-15	851	851	BA-150	39-15	7101	F4FL	BF-150		814	
Bronze 300# Flanged	539-30	852	852	BA-300	39-30	7102	F4FL	BF-300		818	
Cast Steel 600# Screwed	C531-S*	861-581	861-581	SB	31-S	7200	BISC	CT	994-D	921	
Cast Steel 600# Socket Weld	C531-SW*	862/582	862/582	SB	31-SW	7209	BISW	CT		921-SW	
Stainless Steel 600# Screwed	533-S	861-SS/ 581-SS	861-SS/ 581-SS	SSB	33-S	7500	E7SC	316		931	
Stainless Steel 600# Socket Weld	533-SW	862-SS/ 582-SS	862-SS/ 582-SS		33-SW	7509	E7SW	316-SW		931-SW	88S
Cast Iron 125# Flanged	FC1*	751/758	751/758	A-125	A-125	7001	AIFL	AF	989-1/2	804	77F-D
Cast Iron 250# Flanged	FC2*	752	752	A-250	A-250	7002	AIFL	AF	991-1/2	806	77F-D-250
Ductile Iron Screwed	C534-S*	251-DI	251-DI		34-S			DT			
Cast Steel 150# Flanged	531-15	761/781	761/781	SA-150	31-15	7201	BIFL	CF-150		828	
Cast Steel 300# Flanged	531-30	762/782	762/782	SA-300	31-30	7203	BIFL	CF-300		822	
Cast Steel 600# Flanged	531-60	764	764	SA-600	31-60	7207	BIFL	CF-600		824	
Stainless Steel 150# Flanged	533-15	761-SS/ 781-SS	761-SS/ 781-SS	SSA-150	33-15	7501	G7FL	316-150			
Stainless Steel 300# Flanged	533-30	762-SS/ 782-SS	762-SS/ 782-SS	SSA-300	33-30	7503		316-300			
Chrome Moly Flanged	550/15/30/60	766	766		50-F	7400	CIFL				
Cast Steel Butt Weld	531-BW	761-WE/ 781-WE	761-WE/ 781-WE	SA-BW	31-BW	7210	BIBW	CF-BW			
Stainless Steel Butt Weld	533-BW	762-WE/ 782-SSWE	762-WE/ 782-SSWE		33-BW	7510		316-BW			
Chrome Moly Butt Weld	550-BW	766-WE	766-WE		50-BW	7400					
Chrome Moly Socket Weld	550-SW	865	865		50-SW	7400	CISW			863	
Basket Strainer 125# Flanged Iron	528-12 C/B	155/165	155/165	GVF/HLC	28			528-12 C/B			
Basket Strainer 250# Flanged Iron	528-25	166	166	D	28			528-25			
Basket Strainer 150# Flanged Steel	529-15	185	185	SD-150	29			529-15			
Basket Strainer 300# Flanged Steel	529-30	186	186	SD-300				529-30			
Cast Iron 125# FOD Epoxy Coated	613C										
Note: Not all manufacturers use the same screen as standard											

*Apollo International

Strainer Screen Data

Our strainer screens and baskets are made in a variety of perforations and mesh openings to best suit the application. Standard material is 304 stainless steel. Other screen materials are available on special request. When baskets are constructed of very fine mesh wire cloth, they are reinforced with a rigid outer shell of perforated sheet. Perforated baskets are made of sheet stainless steel, the thickness of which is not greater than half the size of the perforations. Ratios of screen or basket opening to inlet pipeline area are as high as 8 to 1 on basket strainers.

OPENING RATIOS

The following steps should be taken to determine the ratio of openings through strainer baskets or screens to the area of inlet pipe size.

1. Determine the size mesh or perforation required to give the desired particle retention.
2. Multiply the total area of the screen by the percent of open area of the perforation or mesh material. The result is the open area of the screen. (Total area of the screen is given in the dimensional charts).
3. The open area of the screen divided by the area of the pipe will give the ratio of open area of the screen to the area of the pipe.
4. To determine the ratio of open area to the pipe on mesh lined reinforced screens, complete step two (2) to find the open area of the mesh. Multiply the open area of the mesh by the percent of open area of the reinforcing material. The result divided by the area of the pipe will be the ratio of open area of the screen to the area of the pipe.

MAGNETIC INSERTS

Magnetic inserts may be furnished, which when placed inside the strainer screen or basket, will collect very fine ferrous metal particles entrained in the liquid thus protecting equipment against abrasive damage.

Common Perforations And Mesh Open Areas

Mesh	Square Opening	% Open Area	Perf	Actual Opening	% Open Area
20	0.034	46.2	0.027	0.027	23
40	0.015	36.0	1/32	0.033	29
60	0.010	30.5	3/64	0.045	37
80	0.007	31.4	1/16	0.062	30
100	0.006	30.3	1/8	0.125	40
			1/4	0.250	48

Area of Schedule #40 Pipe (IN²)

Pipe Size Inches	Pipe Size Area	Pipe Size Inches	Pipe Size Area	Pipe Size Inches	Pipe Size Area
1/2	0.304	3	7.393	10	78.860
3/4	0.533	3-1/2	9.886	12	111.930
1	0.864	4	12.730	14	135.280
1-1/4	1.495	5	20.010	16	176.720
1-1/2	2.036	6	28.890	18	223.680
2	3.355	8	50.030	20	278.000
2-1/2	4.788				

Pressure - Temperature Ratings

For Steel and Alloy Strainers. Pressure temperature ratings shown are for non-shock conditions.

Carbon Steel: ASTM A216 Grade WCB
Stainless Steel: ASTM A351 Grade CF8M (316)
Chrome-Moly Steel: ASTM A217 Grade WC6

Degrees F.	Class 150			Class 300			Class 600			Class 1500		
	Carbon Steel	Stainless Steel	CM Steel	Carbon Steel	Stainless Steel	CM Steel	Carbon Steel	Stainless Steel	CM Steel	Carbon Steel	Stainless Steel	CM Steel
-20 to 100	285	275	290	740	720	750	1480	1440	1500	3705	3600	3750
200	260	240	260	675	620	710	1350	1240	1425	3375	3095	3560
300	230	215	230	655	560	675	1315	1120	1345	3280	2795	3365
400	200	195	200	635	515	660	1270	1030	1315	3170	2570	3290
500	170	170	170	600	480	640	1200	955	1285	2995	2390	3210
600	140	140	140	550	450	605	1095	905	1210	2735	2255	3025
650	125	125	125	535	445	590	1075	890	1175	2685	2220	2940
700	110	110	110	535	430	570	1065	865	1135	2665	2160	2840
750	95	95	95	505	425	530	1010	845	1065	2520	2110	2660
800	80	80	80	410	415	510	825	830	1015	2060	2075	2540
850	65	65	65	270	405	485	535	810	975	1340	2030	2435
900	50	50	50	170	395	450	345	790	900	860	1970	2245
950	35	35	35	105	385	380	205	775	755	515	1930	1885
1000	20	20	20	50	365	225	105	725	445	260	1820	1115
1050					360	140		720	275		1800	685
1100					325	95		645	190		1610	480
1150					275			550			1370	
1200					205			410			1030	
1250					180			365			910	
1300					140			275			685	
1350					105			205			515	
1400					75			150			380	
1450					60			115			290	
1500					40			85			205	

Skilled specialists in our engineering department are available to provide customer assistance on special straining applications.

Strainer Pressure Drop Data

Pressure drop tests for data contained on charts are based on standard screens used for liquid service. Tests conducted at Conbraco Industries, Inc.'s laboratory indicate a 25% increase in pressure drop with screens 50% clogged. These figures are based on non-reinforced screens.

Flow Coefficient: The flow coefficient (Cv) is the number of gallons per minute of water flowing through a given size restriction at a pressure drop of one (1) psig.

To obtain the Cv factor for a given size strainer, read the capacity at the intersection with one (1) psig pressure drop. Example: Cv for a 5" flanged "Y" type strainer is 470. To determine the pressure drop for liquids other than water, please refer to the multiplying factor data.

MULTIPLYING FACTORS

Screens Other Than Standard:

% Open Area				
Strainer Size	35 or Over	25 - 35	20 - 25	Lined
1/4 thru 1	1.0	1.0	1.15	1.25
1-1/4 thru 2	1.0	1.0	1.4	1.8
2-1/2 thru 6	1.0	1.2	1.6	2.0
8 thru 20	1.0	1.3	1.8	2.2

Multiply the pressure drop as determined from appropriate chart by the factor in the table above to obtain the correct pressure drop.

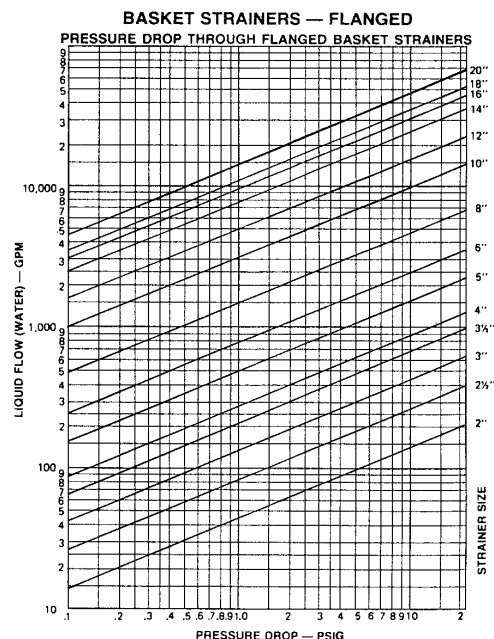
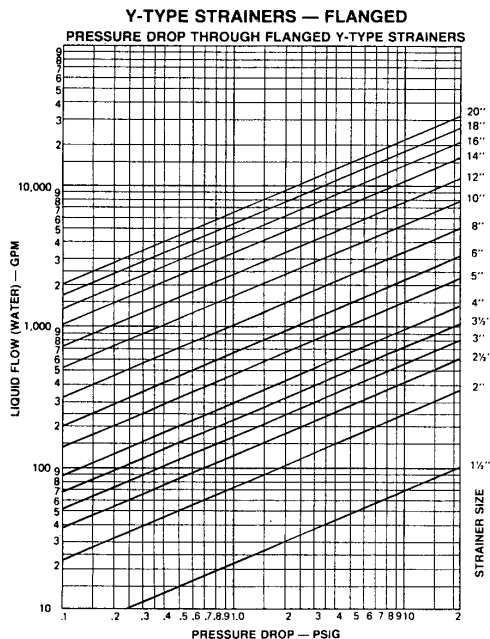
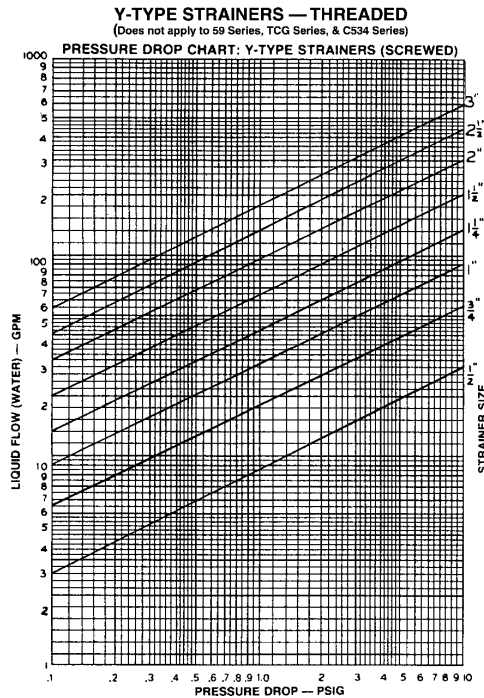
When specific gravity is other than 1:

Multiply the pressure drop from the appropriate chart by the specific gravity of the liquid. (Note: When the specific gravity is less than 1, use 1 as the factor).

Viscosity other than 34 SSU:

SSU	Factor	SSU	Factor	SSU	Factor	SSU	Factor
40	.96	100	.70	700	.43	4000	.31
50	.85	150	.62	800	.42	5000	.29
60	.82	200	.57	900	.41	6000	.285
70	.77	300	.52	1000	.39	7000	.28
80	.79	400	.48	2000	.35	8000	.275
90	.72	500	.46	3000	.33	9000	.27
						10000	.26

Divide the pressure as determined from the appropriate chart by the factor in the above table to obtain the corrected pressure drop.



Bronze NPT "Y" Strainers

59 Series (85-5-5-5 Bronze)

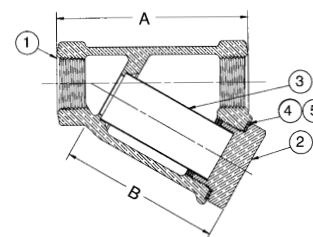
Conbraco's 59 Series "Y" strainers are lightweight and compact. All sizes offer maximum protection against foreign particles in piping systems and process equipment. Cast bronze body and stainless steel screens are completely corrosion resistant. Self-aligning screen is easily accessed for cleaning or service. Operating pressures up to 400 psig make the 59 Series an excellent choice as a versatile, multi-purpose strainer. Sizes 1/8" to 1/2" are perfect for OEM applications and are available as UL recognized components for use as a secondary strainer on oil burning equipment. Optional tapped caps are also available for convenient cleaning of the screen and are not plugged (suffix-02). For tapped cap with plug installed use suffix -P2.

• **WORKING PRESSURE (non-shock):**

300 psig @ 350°F Steam
400 psig @ 150°F Water, Oil, Gas

• **SELF ALIGNING SCREENS**

304 SS (Standard) available in a large variety of meshes (thru 100).
Contact factory for optional meshes.



Materials of Construction

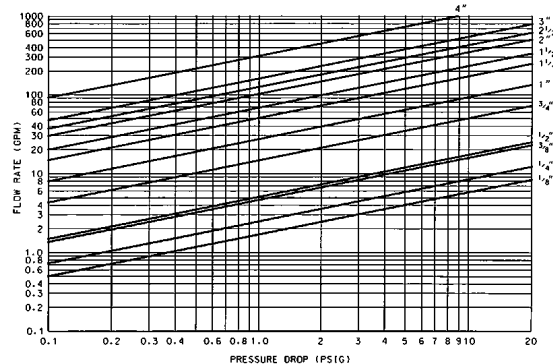
No.	Part	Material	ASTM Spec	Remarks
1	Body	Bronze	B584	UL= B505
2	Cover	Bronze	B584	UL= B505
3	*Screen	Stainless Steel		Type 304
4	*Gasket	PTFE (3/4" thru 4")		
5	*O-Ring	Silicone (1/8" thru 1/2")		

* Recommended spare parts

Standard Screens:

Size	Screen Opening	Suffix Key	
1/8" thru 1/2"	50 Mesh	-02	Tapped Cap
3/4" thru 3"	20 Mesh	-P2	Tapped Cap with Plug
4"	.125 Perf.	-06	Strainer/Ball Valve Combination

59 SERIES FLOW DATA



Dimensional Specifications

Model	Size	A	B	C	(Suffix-02)	Wt./100	Screen Area (IN²)
59-000-01	1/8"	2	1-1/4	—	1/8 NPT	44.5	1.38
59-001-01	1/4"	2	1-1/4	—	1/8 NPT	42.5	1.38
59-002-01	3/8"	2-11/16	2	—	1/4 NPT	78.6	3.19
59-003-01	1/2"	2-11/16	2	—	1/4 NPT	75.1	3.19
59-004-01	3/4"	3-7/8	3-1/4	—	1/2 NPT	174	8.18
59-005-01	1"	4-3/4	4	—	3/4 NPT	276	12.9
59-006-01	1-1/4"	5-1/8	4-1/4	—	3/4 NPT	358	16.2
59-007-01	1-1/2"	5-3/4	5	—	1 NPT	541	22.8
59-008-01	2"	6-3/4	6	—	1-1/4 NPT	747	32.7
59-009-01	2-1/2"	7-15/16	5-7/8	—	1-1/4 NPT	1130	47.3
59-010-01	3"	9-1/8	6-7/8	—	1-1/2 NPT	1580	64.8
59-011-01	4"	11-15/16	10-1/8	—	1-1/2 NPT	3070	115
59-UL0-01	1/8"	2	1-1/4	—	1/8 NPT	44.5	1.38
59-UL1-01	1/4"	2	1-3/4	—	1/8 NPT	42.5	1.38
59-UL2-01	3/8"	2-11/16	2	—	1/4 NPT	78.6	3.19
59-UL3-01	1/2"	2-11/16	2	—	1/4 NPT	75.1	3.19

Note: Dimensions shown are subject to change.

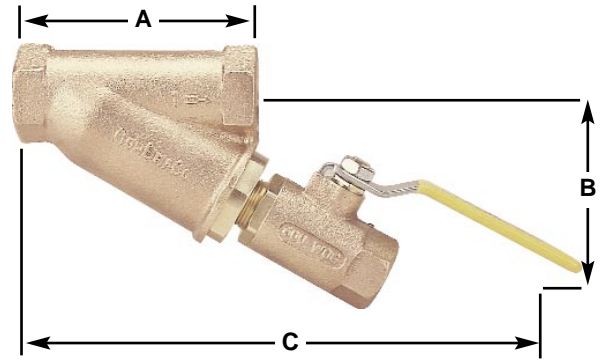


Bronze NPT "Y" Strainer & Ball Valve Combination

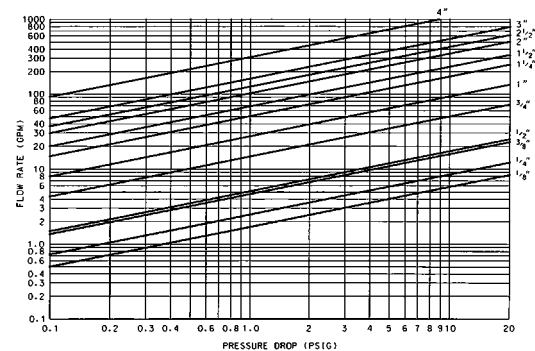
59-00X-06 Series

Conbraco's 59-00X-06 Series, with operating pressures up to 400 psig, makes an outstanding choice as a versatile multi-purpose OEM strainer. With the addition of the Apollo® Ball Valve, you receive a high quality product, engineered and designed for safety and outstanding performance. All sizes offer maximum protection against foreign particles in piping systems and process equipment. Both the strainer and the ball valve are completely corrosion resistant. The ball valve, which offers a blow-out-proof stem design, allows for excellent debris removal during cleaning or blow-off of the screen. Even with the ball valve addition, the self-aligning screen remains easily accessible for routine servicing.

- **WORKING PRESSURE (non-shock):**
300 psig @ 350°F Steam
400 psig @ 150°F Water, Oil, Gas
- **SELF ALIGNING SCREENS**
304 SS (Standard) available in a large variety of meshes (thru 100).
Contact factory for optional meshes.



59 SERIES FLOW DATA



Materials of Construction

No.	Part	Material	ASTM Spec	Remarks
1	Body	Bronze	B584	
2	Cover	Bronze	B584	
3	Ball Valve	Bronze	B584	70-800 Series
4	*Screen	Stainless Steel		Type 304
5	*Gasket	PTFE (3/4" thru 2")		
6	*O-Ring	Silicone (1/8" thru 1/2")		

* Recommended spare parts

STANDARD SCREENS:

Size	Screen Opening
1/8" thru 1/2"	50 Mesh
3/4" thru 2"	20 Mesh

Dimensional Specifications

Model	Size	A	B	C	Tapped Cap (Suffix-02)	Wt./100	Screen Area (IN2)
59-003-06	1/2"	2-11/16	3-3/4	6-61/64	—	138	3.19
59-004-06	3/4"	3-13/16	2-15/16	8-31/32	—	246	8.18
59-005-06	1"	4-3/4	3-5/8	11	—	417	12.9
59-006-06	1-1/4"	5-1/8	3-15/16	11-1/2	—	499	16.2
59-007-06	1-1/2"	5-3/4	4-13/32	12-27/64	—	720	22.8
59-008-06	2"	6-25/32	4-21/32	13-25/32	—	1091	32.7

Note: Dimensions shown are subject to change. Contact factory for exact dimensions when required.

Bronze Sweat End "Y" Strainers

59-300 Series

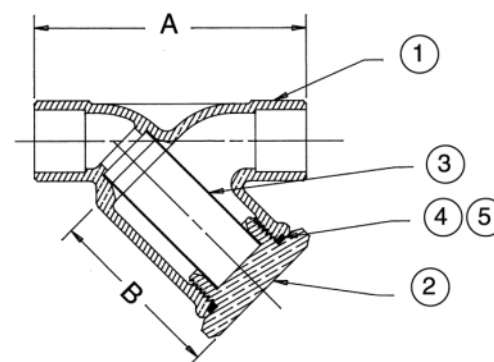
Conbraco's 59 Series Sweat End Y-Strainers provide excellent protection against particle contamination in piping systems and process equipment. This lightweight and compact series is designed with minimal wall thickness at the solder ends to allow for high strength solder joints. These Y-Strainers consist of bronze bodies and stainless steel screens, and are corrosion resistant. The 59 Series Sweat End Strainers are designed for operating pressures up to 400 psig and are available in sizes 1/2" through 2". Optional tapped caps are also available for convenient cleaning of the screen and are not plugged (suffix-02). For tapped cap with plug installed use suffix-P2.

- **WORKING PRESSURE (non-shock):**
300 psig @ 350°F Steam
400 psig @ 150°F Water, Oil, Gas
- **SELF ALIGNING SCREENS**
304 SS (Standard) and is available in a variety of meshes (thru 100). Contact factory for optional meshes.
- **PRESSURE DROP**
Not available at the time of printing. Please contact Customer Service for proper data.



Materials of Construction				
No.	Part	Material	ASTM Spec	Remarks
1	Body	Bronze	B584	
2	Cover	Bronze	B584	
3	*Screen	Stainless Steel		Type 304
4	*Gasket	PTFE		
5	*O-Ring	PTFE		

* Recommended spare parts



* STANDARD SCREENS:

Size	Screen Opening	Suffix Key	
1/2"	50 Mesh	-02	Tapped Cap
3/4" thru 2"	20 Mesh	-P2	Tapped Cap with Plug

Dimensional Specifications						
Model	Size	A	B	Tapped Cap (Suffix-02)	Wt./100	Screen Area (IN ²)
59-303-01	1/2"	2-3/4	1-13/16	1/4 NPT	50	3.19
59-303-P2	1/2"			1/4 NPT	50	
59-304-01	3/4"	4	2-7/8	1/2 NPT	121	8.18
59-304-P2	3/4"			1/2 NPT	121	
59-305-01	1"	4-3/4	3-9/16	3/4 NPT	189	12.9
59-305-P2	1"			3/4 NPT	189	
59-306-01	1-1/4"	5-1/4	3-15/16	3/4 NPT	280	16.2
59-306-P2	1-1/4"			3/4 NPT	280	
59-307-01	1-1/2"	6	4-5/8	1 NPT	426	22.8
59-307-P2	1-1/2"			1 NPT	426	
59-308-01	2"	7-1/4	5	1-1/4 NPT	627	32.7
59-308-P2	2"			1-1/4 NPT	627	

Note: Dimensions shown are subject to change.

Bronze “Mini” Strainers

59V Series “Mini” Strainer, sizes 1/8” and 1/4”

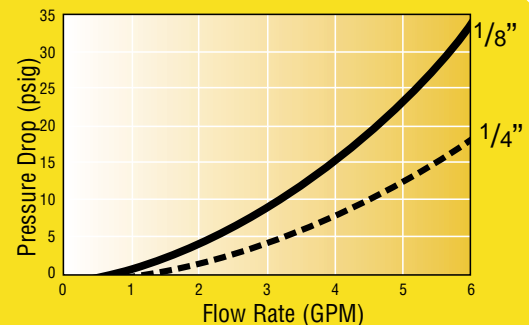
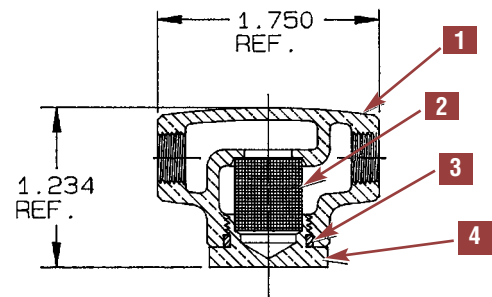
The body of the 59-V is corrosion-resistant solid cast bronze, ASTM B-584. The removable clean-out cap is solid brass bar stock, ASTM B-16. Standard screens are made of 304 stainless steel, and are 50 mesh.

Materials of Construction				
No.	Part	Material	ASTM Spec	Remarks
1.	Body	Cast Bronze	B-584	
2.	Screen	Stainless Steel		Type 304 50 Mesh
3.	O-Ring	EPDM		
4.	Cap	Rod Brass	B-16	

Note: Specify suffix -H1 for optional 100 Mesh.

- **WORKING PRESSURE (non-shock):**
400 psig @ 210°F WOG
125 psig @ 400°F WSP
- **CV FACTORS**
1/8” 1.03 GPM
1/4” 1.42 GPM

Dimensional Specifications				
Model	Size	A	B	Wt./100
59V-000-01	1/8 NPT	1-3/4	1-1/4	25
59V-001-01	1/4 NPT	2	1-5/16	29.7



Cast Iron "Y" Strainers

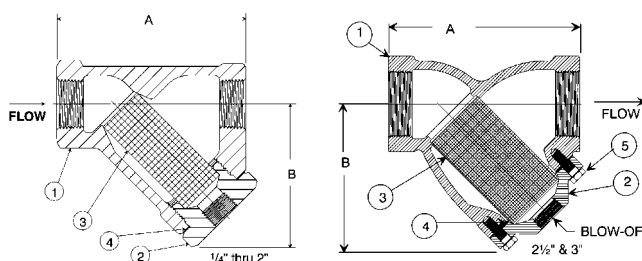
TCG Series Sizes 1/4" Thru 3"

(Apollo International)

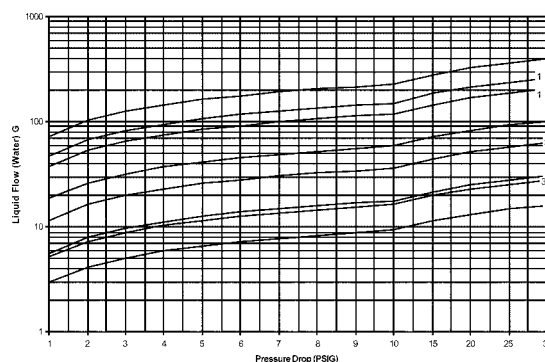
Install these hardworking strainers upstream in almost any application to protect valves, regulators, solenoids and meters from rust, dirt and pipe scale. The "TCG" Series is a rugged 250 lb. WSP-rated strainer constructed from high-tensile ASTM A-126 Class B cast iron with blow-off connections and easily removable cylindrical screens.

A tapered seat allows screens to be self-aligning and assures a perfect fit. Self-cleaning is easily accomplished by opening the valve or plug connected to the blow-off outlet. (Not normally furnished plugged.) Blow-off connection is flanged on 2-1/2" and 3" sizes. Corrosion resistant stainless steel screens are standard.

- **NPT THREADED ENDS**
- **WORKING PRESSURE (Non-Shock)**
250 psig @ 406°F. Steam
400 psig @ 150°F. Water, Oil, Gas
- **SELF CLEANING**
Accomplished by opening the blow-off connection.
- **SELF ALIGNING SCREENS**
Available in 304 SS (Standard), 316 SS, Monel and Brass. All materials are available in a large variety of perforations and meshes.
- **PRESSURE DROP**
See applicable chart on page 4.
- **NPT TAPPED BLOW-OFF CONNECTION**



TCG Strainer Flow Data



****Standard Screens:**

Size	Screen Opening	Suffix
1/4" thru 2"	20 Mesh	A1
2 1/2" thru 3"	.045 Perf.	L1

Materials of Construction

No.	Part	Material	ASTM Spec	Remarks
1	Body	Cast Iron	A126	Cl. B
2	Plug	Cast Iron	A126	Cl. B
3	*Screen	Stainless Steel		Type 304
4	*Gasket	Blue Guard 3000		
5	***Bolts	Carbon Steel		Grade 2

* Recommended Spare Parts

** Screen shown is standard screen material. Contact customer service for optional materials and perforations/mesh.

*** 2-1/2" & 3" only

Dimensional Specifications

Size	A	B	Blow-Off NPT	Weight/Lbs.	Screen Area In2
1/4"	3-3/16	2-3/8	1/4	1-1/4	2.6
3/8"	3-3/16	2-3/8	1/4	1-1/4	2.6
1/2"	3-3/16	2-3/8	1/4	1-1/2	2.6
3/4"	3-3/4	2-3/8	3/8	2-1/4	7.0
1"	4	3-1/2	3/8	3	7.3
1-1/4"	5	4-1/8	3/4	5-1/4	11.7
1-1/2"	5-3/4	4-11/16	3/4	6-1/2	15.7
2"	7	5-7/16	1	11-1/8	22.9
2-1/2"	7-1/2	5-7/16	1-1/4	23-1/2	55.6
3"	7-1/2	5-7/16	1-1/4	33	78.1

Note: Dimensional specifications shown are subject to change.

Flanged Cast Bronze "Y" Strainers

539 Series Class 150 & 300

Ideal for most standard industrial applications. Use to protect meters, nozzels, heat exchangers, condensers or other process equipment against debris.

- WORKING PRESSURE (non-shock)**

- 539-15 - Class 150**

- 150 psig @ 406°F. Steam
- 225 psig @ 150°F. Water, Oil, Gas

- 539-30 - Class 300**

- 300 psig @ 422° F. Steam
- 500 psig @ 150° F. Water, Oil, Gas

- SELF CLEANING**

Accomplished by opening the blow-off connection.

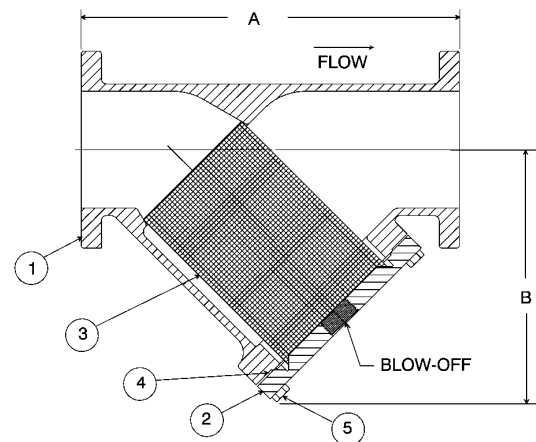
- SELF ALIGNING SCREENS**

Available in 304 SS (Standard), 316 SS, Monel and Brass. All materials are available in a large variety of perforations and meshes. Contact factory for optional materials and perforations/mesh.

- PRESSURE DROP**

See applicable chart on page 4.

- NPT TAPPED BLOW-OFF PLUG**



Materials of Construction

No.	Part	Material	ASTM Spec	Remarks
1	Body	Bronze	B505	
2	Cover/Plug	Bronze	B505	
3	*Screen	Stainless Steel		Type 304
4	*Gasket	Blue Guard 3000		
5	Bolting	Carbon Steel		Grade 2

*Recommended Spare Parts

Standard Screens:

Service	Size	Screen Openings	Screen Suffix	Material
Liquid	1/4" Thru 2"	20 Mesh	A1	304 Stainless Steel
Steam	1/4" Thru 2"	20 Mesh	A1	304 Stainless Steel
Liquid	2" Thru 3"	.045 Perf.	L1	304 Stainless Steel
	4" Thru 8"	.125 Perf.	N1	
Steam	2" Thru 3"	.045 Perf.	L1	304 Stainless Steel
	4" Thru 8"	.062 Perf.	M1	

Model Numbers/Selection Information

Model "539-15"	150 FLG	Sizes 2" Thru 8"
Model "539-30"	300 FLG	Sizes 2" Thru 8"

Dimensional Specifications

Size	A		B	Blow-Off NPT	Screen Area In ²	Weight/Lbs.	
	Class 150	Class 300				Class 150	Class 300
2"	9-1/2	10-1/8	6-1/4	1	46.0	30	33
2-1/2"	11-1/4	11-3/4	7-1/8	1-1/4	58.3	50	55
3"	12-3/8	13	8-3/8	1-1/2	74.5	61	71
4"	14-1/2	15-1/2	10	1-1/2	118.7	91	113
5"	16-7/8	17-1/2	12-1/4	2	189.0	146	178
6"	19-1/8	19-7/8	14	2	270.0	180	212
8"	24-1/4	25-1/8	17	2	425.0	370	410

Note: Dimensions shown are subject to change.

Cast Carbon Steel & 316 Stainless "Y" Strainers

Threaded & Socket Weld C531-S & SW Series C533-S & SW Series

(Apollo International)

Durable carbon or stainless steel, threaded or socket, in sizes 1/4" through 3".

• WORKING PRESSURE (Non-Shock)

Carbon Steel

600 psig @ 839°F. Steam

1480 psig @ 100°F. Water, Oil & Gas

Stainless Steel

600 psig @ 1124°F. Steam

1440 psig @ 100°F. Water, Oil & Gas



Materials of Construction

Carbon Steel

No.	Part	Material	ASTM Spec	Remarks
1	Body	Carbon Steel	A216	Grade WCB
2	Plug (1/4" - 1 1/4")	Carbon Steel	A216	Multi-Cut Biz®
2	Plug (1-1/2" - 2")	Carbon Steel	A216	Grade WCB
2	Cover (2-1/2" - 3")	Carbon Steel	A515	Grade 60
3	*Screen	Stainless Steel		Type 304
4	*Gasket (1/4" - 1-1/2")	Copper		
4	*Gasket (2")	304 SS/Carbon Graphite		Spiral Wound
4	*Gasket (2-1/2" - 3")	Carbon Graphite		
5	Bolting	Carbon Steel		Grade 5

Stainless Steel

No.	Part	Material	ASTM Spec	Remarks
1	Body	Stainless Steel	A351	Grade CF8M (316)
2	Plug (1/4" - 1-1/4")	Stainless Steel	A276	Grade 316
2	Cover (1-1/2" - 2")	Stainless Steel	A351	Grade CF8M (316)
3	*Screen	Stainless Steel		Type 304
4	*Gasket (1/4" - 2")	304 SS/Carbon Graphite		Spiral Wound
4	*Gasket (2-1/2" - 3")	Carbon Graphite		
5	Bolting	Stainless Steel		Type 316

* Recommended Spare Parts

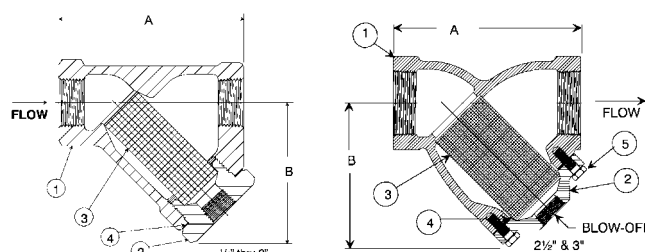
• STANDARD SCREENS:

1/4" Thru 2" - 20 Mesh/304 Stainless Steel

2-1/2" & 3" - .045 Perf./304 Stainless Steel

• PRESSURE DROP:

See applicable chart on page 5.



Model Numbers/Selection Information

Carbon Steel Sizes 1/4" Thru 3"

Model "C531-S" NPT

Model "C531-SW" Socket Weld (1/2"-2")

Stainless Steel Sizes 1/4" Thru 2"

Model "533-S" NPT

Model "533-S W" Socket Weld (1/2"-2")

Dimensional Specifications

Size	A	B	Blow-Off NPT	Weight/Lbs.	Screen Area In ²
1/4"	2-11/16	2-1/16	1/4	1	2.5
3/8"	2-11/16	2-1/16	1/4	1	2.5
1/2"	3-3/8	2-3/4	3/8	2	5.4
3/4"	4-7/16	3-5/8	3/8	3-3/4	8.7
1"	4-7/8	3-3/4	1/2	4	12.7
1-1/4"	5-3/8	4-3/8	3/4	7	18.1
1-1/2"	6-3/8	5-1/8	3/4	8-3/4	25.3
2"	7-1/2	6	1	12	39.2
2-1/2"*	10-9/16	7	1-1/4	37	58.3
3"*	10-15/16	8-1/8	1-1/4	48	76.7

* Note: Available in carbon steel only

Flanged Cast Iron "Y" Strainers

Class 125 & 250 "FC1" & "FC2" Series (Apollo International)

Same great features as "TCG" Series but with flanged connections for applications from 1-1/2" through 18". Protects process equipment against harmful debris.

- WORKING PRESSURE (Non-Shock)**

- Model FC1 - Class 125**

Sizes 1-1/2" Thru 12"

125 psig @ 450°F. Steam • 200 psig @ 150°F. Water, Oil, Gas

Sizes 14" Thru 18"

125 psig @ 250°F. Steam • 150 psig @ 150°F. Water, Oil, Gas

- Model FC2 - Class 250**

Sizes 1-1/2" Thru 12"

250 psig @ 450°F. Steam • 500 psig @ 150°F. Water, Oil, Gas

Sizes 14" Thru 18"

250 psig @ 275°F. Steam • 300 psig @ 150°F. Water, Oil, Gas

- SELF CLEANING**

Accomplished by opening the blow-off connection.

- SELF ALIGNING SCREENS**

Available in 304SS (Standard), 316 SS, Monel and Brass. All materials are available in large variety of perforations and meshes. Contact factory for optional materials and perforations/mesh.

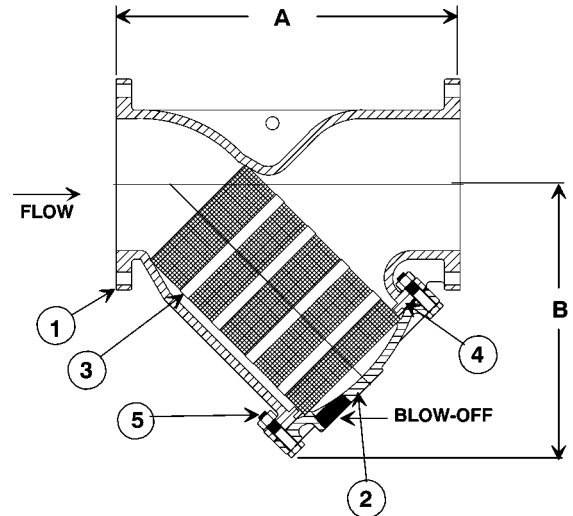
- PRESSURE DROP**

See applicable chart on page 5.

- NPT TAPPED BLOW-OFF CONNECTION**



(Also available with FDA approved epoxy coating, see page 24. 2-1/2" - 6" available as UL listed – see page 24)



Materials of Construction

No.	Part	Material	ASTM Spec	Remarks
1	Body	Cast Iron	A126	Cl.B
2	Cover	Cast Iron	A126	Cl.B
3	* Screen	Stainless Steel		Type 304
4	* Gasket	Blue Guard 3000		
5	Bolting	Carbon Steel		Grade 2

* Recommended Spare Parts

Standard Screens:

Service	Size	Screen Openings	Screen Suffix	Material
Liquid	1-1/2" Thru 3"	.045 Perf.	L1	304 Stainless Steel
	4" Thru 16"	.125 Perf.	N1	
	18"	.250 Perf.	P1	
Steam	1-1/2" Thru 6"	.045 Perf.	L1	304 Stainless Steel
	8" Thru 16"	.062 Perf.	M1	
	18"	.125 Perf.	N1	

Dimensional Specifications

Size	A		B		Size Blow-Off Plug	Weight Lbs.		Screen Area In ²
	Class 125 Flanged	Class 250 Flanged	Class 125 Flanged	Class 250 Flanged		Class 125 Flanged	Class 250 Flanged	
1-1/2"	9-1/2	9-1/2	5-7/16	5-7/16	3/4	16	22	23.2
2"	9-1/2	11-5/8	6-1/2	6-1/8	1	24	28	34.5
2-1/2"	10-1/2	13	7	6-3/4	1-1/4	33	38	47.3
3"	12	14	8	8	1-1/4	44	54	64.8
4"	14-7/8	17-1/16	10-3/4	10-3/4	1-1/4	85	110	127.2
5"	17-3/8	19-1/16	13-1/2	13-1/2	1-1/2	117	160	198.7
6"	21	21-1/16	16-1/4	16-1/4	1-1/2	174	224	286.0
8"	22-1/2	23	17	19-1/2	2	262	468	327.5
10"	26-1/8	28	20-1/4	21-1/4	2-1/2	410	590	550.0
12"	30-3/8	32-5/8	24	25	2-1/2	604	890	759.0
14"	36	37-5/8	29	29-1/2	2	815	1080	1052.0
16"	37	38-15/16	33	33-1/2	2-1/2	1224	1800	1406.0
18"	46	47-5/8	35-1/2	36-1/2	3	1990	2380	1772.0

UL Listed Cast Iron Y-Type Strainers

613 Series

(Apollo International)

Size 2-1/2" through 6". Available standard or epoxy coated.

- **SIZES 2-1/2" THRU 6"**

- **OPERATING PRESSURES AND TEMPERATURES**

125 lb. Flange
125 psig @ 450°F. Steam
200 psig @ 150°F. WOG

- **LISTING:**

Underwriters Laboratories Inc.® Subject #321
Fire Main Equipment, Strainers, "Y" Type Pipe Strainers

- **CONSTRUCTION:**

High-tensile ASTM A126 Class B Cast Iron with blow-off connections and self aligning cylindrical screens. May be installed in horizontal or vertical pipe lines with blow-off connection at the lower end of the screen. All have a flanged blow-off cover. A crane hook is provided on the 4" and 6" strainers to provide for lifting and supporting the unit during installation.

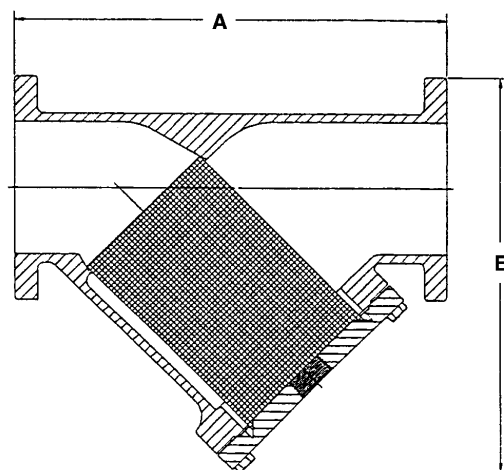
SCREEN SIZES:

	Suffix
Standard: .125 Perf.*	(-N1)
Optional: .187 Perf.	(-01)
.250 Perf.	(-P1)

*3" available in .187 or .250 Perf. only

Dimensional Specifications					
Size	A	B	Blow-Off NPT	Weight/Lbs.	Screen Area In ²
2-1/2"	10-1/2	7	1-1/4	33	47.3
3"	12	8	1-1/4	44	64.8
4"	14-7/8	10-3/4	1-1/4	85	127.2
6"	21	16-1/4	1-1/2	174	286.0

Note: Dimensions shown are subject to change.



Model Numbers/Selection Information

613-2U9	2-1/2" Strainer
613-2U0	3" Strainer
613-2UA	4" Strainer
613-2UC	6" Strainer
613-2C9	2-1/2" Strainer Epoxy Coated
613-2C0	3" Strainer Epoxy Coated
613-2CA	4" Strainer Epoxy Coated
613-2CC	6" Strainer Epoxy Coated

Cast Ductile Iron "Y" Strainers

C534-S Series Threaded End, Class 600 (Apollo International)

Provides inexpensive protection for costly pumps, meters, valves and other mechanical equipment.

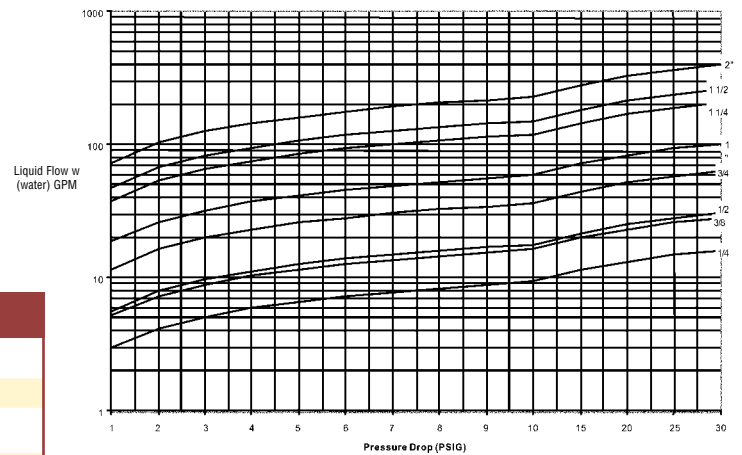
Similar to "TCG" Series but with much higher temperature and pressure ratings.

SIZES: 1/4" THRU 3"

- **GASKETED BLOW-OFF PLUG**
- **NPT THREADED ENDS**
- **WORKING PRESSURE (Non-Shock)**
600 psig @ 650°F. Steam • 1000 psig @ 150°F. Water, Oil, Gas
- **SELF CLEANING**
Accomplished by opening the blow-off connection.
- **SELF ALIGNING SCREENS**
Available in 304 SS (Standard), 316 SS, Monel and Brass. All materials are available in a large variety of perforations and meshes.
- **PRESSURE DROP**
See applicable chart on page 5.
- **NPT TAPPED BLOW-OFF CONNECTION**



C534-S Flow Data



Materials of Construction

No.	Part	Material	ASTM Spec	Remarks
1	Body	Ductile Iron	A395	60-40-18
2	Plug/Cover	Ductile Iron	A395	60-40-18
3	*Screen	Stainless Steel		Type 304
4	*Gasket	Blue Guard 3200		
5	Bolting	Carbon Steel		Grade 2

* Recommended Spare Parts

STANDARD SCREENS:

1/4" Thru 2" - 20 Mesh/304 Stainless Steel

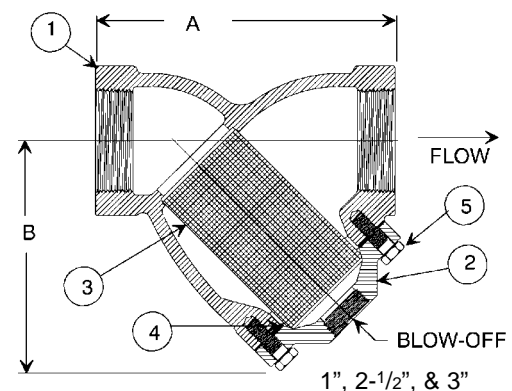
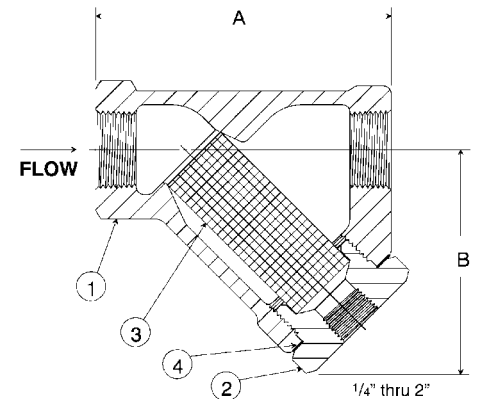
2 1/2" Thru 3" - .045 Perf./304 Stainless Steel

Contact customer service for optional materials and perforations/mesh.

Dimensional Specifications

Size	A	B	Blow-Off NPT	Weight/Lbs.	Screen Area In ²
1/4"	2-13/16	2-1/16	1/4	1	2.5
3/8"	2-13/16	2-1/16	1/4	1	2.5
1/2"	3-13/16	2-25/32	3/8	2-1/4	5.3
3/4"	4-3/8	3-1/16	3/8	2-3/4	7.5
1"	5	3-5/8	1/2	5-1/2	10.9
1-1/4"	5-5/8	4-3/16	3/4	7-1/2	15.9
1-1/2"	6-1/4	4-3/4	3/4	10-1/4	23.2
2"	7	5-7/8	1	17-1/2	34.5
2-1/2"	9-1/4	6-3/4	1-1/4	22	49.3
3"	10	7-7/8	1-1/4	37	64.8

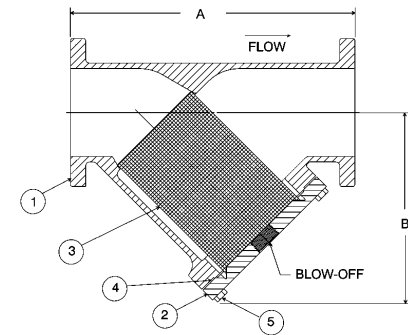
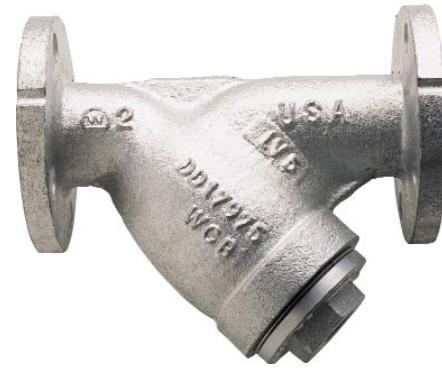
Note: Dimensions shown are subject to change.



Cast Steel Flanged "Y" Strainers

Class 150, 300 & 600 (531, 533 & 550 Series)

Choose carbon steel, stainless steel or chrome moly in class 150, 300 or 600 flanged body. Sizes 1/2" through 8".



Materials of Construction

Carbon Steel

No.	Part	Material	ASTM Spec	Remarks
1	Body	Carbon Steel	A216	Grade WCB
2	Cover (1/2" thru 2")	Carbon Steel	A216	Grade WCB
2	Cover (2-1/2" & Up)	Carbon Steel	A515	
3	* Screen	Stainless Steel		Type 304
4	* Gasket 1/2" thru 1-1/2" Copper, 2" 304 SS/Spiral Wound, 2-1/2" & Up Carbon Grafoil®			
5	Bolting	Carbon Steel		Grade 5/B7

316 Stainless Steel

No.	Part	Material	ASTM Spec	Remarks
1	Body	Stainless Steel	A351	CF8M (316)
2	Cover (1/2" thru 2")	Stainless Steel	A276	Gr. 316
2	Cover (2-1/2" & Up)	Stainless Steel	A351	CF8M (316)
3	* Screen	Stainless Steel		Type 304
4	* Gasket 1/2" thru 2" 304 SS/Spiral Wound, 2-1/2" & Up, Carbon Graphite			
5	Bolting	Carbon Steel		Grade 5/B7

Chrome Moly

No.	Part	Material	ASTM Spec	Remarks
1	Body	Chrome Moly	A217	Gr. WC6
2	Cover	Chrome Moly	A387	
3	*Screen	Stainless Steel		Type 304
4	*Gasket 1/2" thru 2" 304 SS/Spiral Wound, 2-1/2" & Up, Carbon Graphite			
5	Bolting	Carbon Steel		Grade 5/B7

* Recommended Spare Parts

PRESSURE & TEMPERATURE RATING

Pressure Rating @ 100°F

	Carbon Steel	Stainless Steel	Chrome Moly
Class 150	285	275	290
Class 300	740	720	750
Class 600	1480	1440	1500

Model Numbers/Selection Information

Model No.	Material	ANSI Class
531-15	Carbon Steel	150
531-30	Carbon Steel	300
531-60	Carbon Steel	600
533-15	Stainless Steel	150
533-30	Stainless Steel	300
533-60	Stainless Steel	600
550-15	Chrome Moly Steel	150
550-30	Chrome Moly Steel	300
550-60	Chrome Moly Steel	600

Dimensional Specifications

Size	Class 150				Class 300				Class 600				Blow-Off NPT	Standard Screen	
	A	B	Screen Area In ²	Weight Lbs.	A	B	Screen Area In ²	Weight Lbs.	A	B	Screen Area In ²	Weight Lbs.		Steam	Liquid
1/2"	5-1/2	2-3/4	5.4	5-3/4	6	2-3/4	5.4	6	7	2-3/4	5.4	6-1/2	3/8	.045 Perf.	.045 Perf.
3/4"	6-3/4	3-1/2	8.7	6-3/4	7-1/16	3-1/2	8.7	8-1/2	8-9/16	3-1/2	8.7	9-3/4	3/8	.045 Perf.	.045 Perf.
1"	7-3/8	3-3/4	12.7	8	8-3/4	3-3/4	12.7	11	9-1/4	3-3/4	12.7	12-1/4	1/2	.045 Perf.	.045 Perf.
1-1/2"	9	5	25.3	15	9-7/8	5	25.3	22	10-1/2	5	25.3	24-3/4	3/4	.045 Perf.	.045 Perf.
2"	10	6	39.2	20	10-3/8	6	39.2	25	11	6	40.0	34	1	.045 Perf.	.045 Perf.
2-1/2"	12	7-5/8	61.0	52	12-1/2	7-1/2	61.0	56	13-1/4	7-1/2	63.0	73	1-1/4	.045 Perf.	.045 Perf.
3"	10-3/4	8-1/8	64.8	60	12-3/8	8-1/2	64.8	68	14-1/4	8-3/4	67.0	80	1-1/4	.045 Perf.	.045 Perf.
4"	14	10	160.0	94	16-3/4	10	160.0	108	21-1/8	14-3/8	217.0	204	1-1/4	.045 Perf.	.125 Perf.
5"	17-1/4	15	189.0	170	18-1/8	15	180.0	176	25-5/8	16	258.0	330	1-1/2	.045 Perf.	.125 Perf.
6"	18-7/8	16	270.0	174	19-3/4	16	270.0	204	27-1/2	18	370.0	376	1-1/2	.045 Perf.	.125 Perf.
8"	26	17-1/4	425.0	354	26-7/8	17-1/4	425.0	393	31-1/8	22	633.0	764	2	.062 Perf.	.125 Perf.

Note: Dimensions Shown are subject to change.

Cast Steel Butt weld "Y" Strainers

Class 150, 300 & 600 (531, 533 & 550 Series)

Size 2" through 8" butt weld "Y" strainers in carbon steel, stainless steel and chrome moly.

Materials of Construction

CARBON STEEL

No.	Part	Material	ASTM Spec	Remarks
1	Body	Carbon Steel	A216	Grade WCB
2	Cover (2")	Carbon Steel	A216	Grade WCB
2	Cover (2-1/2" & Up)	Carbon Steel	A515	
3	*Screen	Stainless Steel		Type 304
4	*Gasket 2" 304 SS/Spiral Wound, 2-1/2" & Up, Carbon Graphite			
5	Bolting	Carbon Steel		Grade 5/B7

316 STAINLESS STEEL

No.	Part	Material	ASTM Spec	Remarks
1	Body	Stainless Steel	A351	CF8M (316)
2	Cover (2")	Stainless Steel	A276	Gr. 316
2	Cover (2-1/2" & Up)	Stainless Steel	A351	CF8M (316)
3	*Screen	Stainless Steel		Type 304
4	*Gasket 2" 304 SS/Spiral Wound, 2-1/2" & Up, Carbon Graphite			
5	Bolting	Carbon Steel		Grade 5/B7

CHROME MOLY

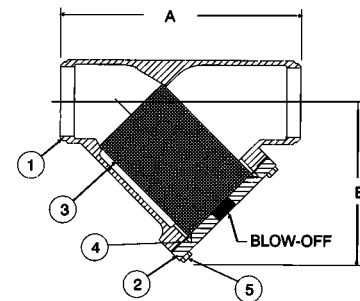
No.	Part	Material	ASTM Spec	Remarks
1	Body	Chrome Moly	A217	Gr. WC6
2	Cover	Chrome Moly	A387	
3	*Screen	Stainless Steel		Type 304
4	*Gasket 2" 304 SS/Spiral Wound, 2-1/2" & Up, Carbon Graphite			
5	Bolting	Carbon Steel		Grade 5/B7

* Recommended Spare Parts

Pressure & Temperature Rating

Pressure Rating @ 100°F

	Carbon Steel	Stainless Steel	Chrome Moly
Class 150	285	275	290
Class 300	740	720	750
Class 600	1480	1440	1500



Model Number/Selection Information

Model No.	Material	ANSI Class
531-15BW	Carbon Steel	150/SCH. 40
531-30BW	Carbon Steel	300/SCH. 40
531-60BW	Carbon Steel	600/SCH. 80
533-15BW	Stainless Steel	150/SCH. 40
533-30BW	Stainless Steel	300/SCH. 40
533-60BW	Stainless Steel	600/SCH. 80
550-15BW	Chrome Moly Steel	150/SCH. 40
550-30BW	Chrome Moly Steel	300/SCH. 40
550-60BW	Chrome Moly Steel	600/SCH. 80

Dimensional Specifications

Size	Class 150				Class 300				Class 600				Blow-Off NPT		
	A	B	Screen Area In ²	Weight Lbs.	A	B	Screen Area In ²	Weight Lbs.	A	B	Screen Area In ²	Weight Lbs.		Steam	Liquid
2"	11	6	39.2	17	11	6	39.2	17	11	6	40.0	20	1	.045 Perf.	.045 Perf.
2-1/2"	12-5/8	7-5/8	61.0	42	12-5/8	7-1/2	61.0	42	12-5/8	7-1/2	63.0	47	1-1/4	.045 Perf.	.045 Perf.
3"	14-1/4	8-1/8	64.8	46	14-1/4	8-1/2	64.8	46	14-1/4	8-3/4	67.0	52	1-1/4	.045 Perf.	.045 Perf.
4"	16	10	160.0	64	14	10	160.0	64	21-1/8	14-3/8	217.0	143	1-1/4	.045 Perf.	.125 Perf.
5"	17-1/4	15	189.0	126	17-1/4	15	189.0	126	25-1/4	16	258.0	223	1-1/2	.045 Perf.	.125 Perf.
6"	19-3/4	16	270.0	190	19-3/4	16	270.0	190	27-1/2	18	370.0	250	1-1/2	.045 Perf.	.125 Perf.
8"	26	17-1/4	425.0	293	26	17-1/4	425.0	293	30-3/8	22	633.0	593	2	.062 Perf.	.125 Perf.

Note: Dimensions Shown are subject to change.

Cast Iron Basket Strainers

Class 125 Flanged, Clamped Cover 528 Series

Features clamped cover for easy access to basket for cleaning or replacement. Ideal for low-pressure applications. Sizes 2" through 12".

MODEL 528-C12

• MAXIMUM OPERATING TEMPERATURES

2" thru 5" 450°F. (Gasketed)

6" thru 12" 250°F. (O-Ring)

Note: For 6" thru 12", maximum operating temperature is limited by the O-Ring material.

• DESIGN:

Constructed of high-tensile ASTM A126 Cl. B cast iron. The angle design provides straight through flow, thus reducing pressure drop. The clamped cover is popular in swimming pool applications and other low pressure systems. Sizes 2" thru 5" have a flat gasket. Sizes 6" and larger have an O-Ring.

• SHIPPING NOTE:

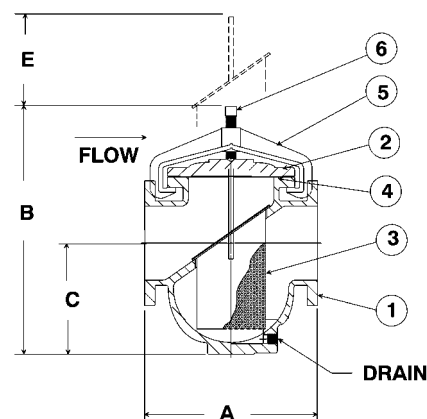
Shipped with flange protectors to safeguard the flange finish and to keep foreign material from entering the strainer during shipment and prior to installation. Sizes 2" thru 6" have a pipe plug installed in the drain connection. Sizes 8" and larger are furnished with a thread protector.



Materials of Construction

No.	Part	Material	ASTM Spec	Remarks
1	Body	Cast Iron	A126	Cl. B
2	Cover	Cast Iron	A126	Cl. B
3	*Basket Assy.	Stainless Steel		Type 304
4	*Gasket	Blue Guard 3000		(Sizes 2" thru 5")
4	*O-Ring	Nitrile		(Sizes 6" thru 16")
5	Clamp	Ductile Iron	A395	
6	Clamp Screw	Carbon Steel		
7	Pipe Plug (2" thru 6")	Carbon Steel		Not Shown

* Recommended Spare Parts



Dimensional Specifications

Size	A	B	C	Drain NPT	E Clearance For Basket Removal	Maximum Working Pressure	Basket Area In ²	Weight Lbs.	Standard Screen	
									Liquid	Steam
2"	8-1/8	9-3/4	5	3/4	3-7/8	75	34	22	.045 Perf.	.045 Perf.
2-1/2"	8-3/4	11-3/8	5-5/16	3/4	4-5/8	75	48	31	.045 Perf.	.045 Perf.
3"	9-3/4	13-1/8	6-1/2	3/4	6	60	68	42	.045 Perf.	.045 Perf.
4"	11-1/2	15-1/2	8	1	7-3/8	50	105	70	.125 Perf.	.045 Perf.
5"	13-1/8	16-3/8	8	1	8	35	127	90	.125 Perf.	.045 Perf.
6"	14-7/8	17-7/8	8-5/8	1-1/4	8-5/8	50	155	124	.125 Perf.	.045 Perf.
8"	18-11/16	26-3/4	11-3/4	3/4	11-5/8	50	244	270	.125 Perf.	.062 Perf.
10"	20-1/8	32-3/4	13-3/4	3/4	13-1/2	50	378	384	.125 Perf.	.062 Perf.
12"	26-1/4	38	16-3/8	1	17-3/4	50	553	670	.125 Perf.	.062 Perf.

Note: Sizes 2" through 6" have bottom drain connection. Sizes 8" and larger have side drain connections. Dimensions shown are subject to change.

Cast Iron Basket Strainers

Class 125 & 250 Flanged Bolted Cover 528 Series

General purpose basket strainer for protection of pumps, meters and other process equipment. Sizes 2" through 12".

• MAXIMUM OPERATING TEMPERATURES

Class 125 (Non-Shock)

Steam 125 psig @ 450°F.

WOG 200 psig @ 150°F.

Class 250 (Non-Shock)

Steam 250 psig @ 450°F

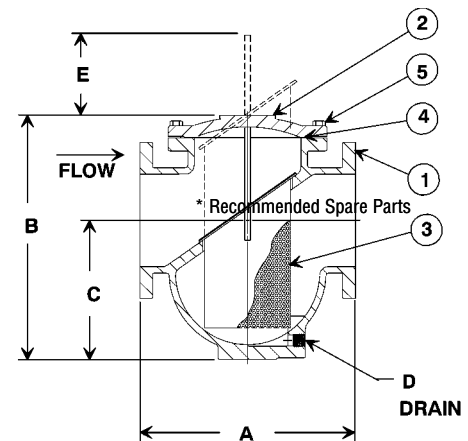
WOG 500 psig @ 150°F

• DESIGN:

Constructed of high-tensile ASTM A126 Cl. B cast iron. The angle design provides straight through flow, thus reducing pressure drop. These strainers are commonly installed before pumps, meters, and other mechanical equipment.

• SHIPPING NOTE:

Shipped with flange protectors to safeguard the flange finish and to keep foreign material from entering the strainer during shipment and prior to installation. Sizes 2" thru 6" have a pipe plug installed in the drain connection. Sizes 8" and larger are furnished with a thread protector.



Materials of Construction

No.	Part	Material	ASTM Spec	Remarks
1	Body	Cast Iron	A126	Cl. B
2	Cover	Cast Iron	A126	Cl. B
3	*Basket Assy.	Stainless Steel		Type 304
4	*Gasket	Blue Guard 3000		
5	Bolting	Carbon Steel		

* Recommended Spare Parts

Model Numbers/Selection Information

Model 528-B12	Class 125 Flanged
Model 528-B25	Class 250 Flanged

Dimensional Specifications

Size	Class 125							Class 250							Standard Basket	
	A	B	C	D Drain	E Clearance For Basket Removal	Basket Area In ²	Weight Lbs.	A	B	C	D Drain	E Clearance For Basket Removal	Basket Area In ²	Weight Lbs.	Liquid	Steam
2"	8-1/8	8-3/8	5	3/4	5-3/8	34	22	12-1/8	11-1/2	6-5/8	1-1/4	7-3/4	65.7	64	.045 Perf.	.045 Perf.
2-1/2"	8-3/4	9-5/8	5-5/16	3/4	6-5/8	48	31	12-1/2	11-1/2	6-3/8	1-1/4	8	65.7	80	.045 Perf.	.045 Perf.
3"	9-3/4	11-5/8	6-1/2	3/4	8	68	42	13-1/2	14-1/4	7-1/4	1-1/2	9-11/16	84.5	116	.045 Perf.	.045 Perf.
4"	11-1/2	13-1/2	8	1	9-5/16	105	70	16	14-1/4	7-1/2	1-1/2	9-7/16	95	160	.125 Perf.	.045 Perf.
5"	13-1/8	14-5/8	8	1	10-1/4	127	90	14-3/8	15	8-1/4	1	10-1/4	127	176	.125 Perf.	.045 Perf.
6"	14-7/8	15-5/8	8-5/8	1-1/4	11-1/8	155	124	18-1/4	16	8-1/4	2	10-13/16	140	234	.125 Perf.	.045 Perf.
8"	18-11/16	21	11-3/4	3/4	15-9/16	244	270	19-5/8	20-5/8	11-3/4	3/4	15-9/16	244	340	.125 Perf.	.062 Perf.
10"	20-1/8	24-1/2	13-3/4	3/4	18	378	384	22	25	13-3/4	3/4	18	378	550	.125 Perf.	.062 Perf.
12"	26-1/4	29-3/4	16-3/8	1	23-1/4	553	670	27-3/4	30-3/4	16-1/2	1	23-1/4	658	970	.125 Perf.	.062 Perf.

Note: Sizes 2" thru 6" have bottom drain connection. Sizes 8" & larger have side drain connections. Dimensions shown are subject to change.

Cast Carbon Steel & Stainless Steel Basket Strainers

Class 150 & 300 Flanged, Bolted Cover 527/529 SERIES

Maximum protection for petroleum, power and chemical processing applications. Sizes 2" through 8".

• MAXIMUM OPERATING TEMPERATURES

Carbon Steel (Non-Shock)

Class 150

Steam	150 psig @ 567°F.
WOG	285 psig @ 100°F.

Class 300

Steam	300 psig @ 839°F.
WOG	740 psig @ 100°F.

Stainless Steel (Non-Shock)

Class 150

Steam	150 psig @ 567°F.
WOG	275 psig @ 100°F.

Class 300

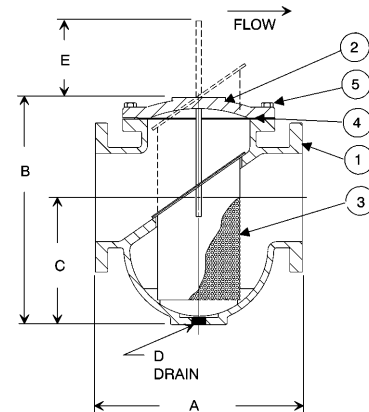
Steam	300 psig @ 1125°F.
WOG	720 psig @ 100°F.

• DESIGN:

The angle design provides straight through flow, thus reducing pressure drop. These strainers are widely used in petroleum, power and chemical industries.

• SHIPPING NOTE:

Shipped with flange protectors to safeguard the flange finish and to keep foreign material from entering the strainer during shipment and prior to installation. Sizes 2" thru 6" have a pipe plug installed in the drain connection. Size 8" is furnished with a thread protector.



Materials of Construction

No.	Part	Material	ASTM Spec	Remarks
Carbon Steel				
1	Body	Carbon Steel	A216	Gr. WCB
2	Cover	Carbon Steel	A216	Gr. WCB
3	*Basket Assy.	Stainless Steel		Type 304
4	*Gasket	Carbon Graphite		
5	Bolting	Carbon Steel		Grade 5
Stainless Steel				
1	Body	316 Stainless Steel	A351	Gr. CF8M
2	Cover	316 Stainless Steel	A351	Gr. CF8M
3	Basket Assy.	Stainless Steel		Type 304
4	*Gasket	Carbon Graphite		
5	Bolting	Stainless Steel		Grade 8

* Recommended Spare Parts

Model Numbers/Selection Information

Model 527-15	316 Stainless	Class 150 Flanged
Model 527-30	316 Stainless	Class 300 Flanged
Model 529-15	Carbon Steel	Class 150 Flanged
Model 529-30	Carbon Steel	Class 300 Flanged

Dimensional Specifications

Size	Class 150					Class 300					Class 150 & 300		Standard Screen	
	A	B	C	D	Weight Lbs	A	B	C	D	Weight Lbs.	E Clearance	Basket Area In ²	Liquid	Steam
2"	9	8	4	3/4	29	9-1/2	8	4	3/4	34	5	28	.045 Perf.	.045 Perf.
2-1/2"	11-7/8	11-1/2	6-3/8	1-1/4	75	12-1/4	11-1/2	6-3/8	1-1/4	80	8-1/2	60	.045 Perf.	.045 Perf.
3"	10	11-1/2	6-3/8	3/4	57	10-3/4	11-1/2	6-3/8	3/4	71	7-7/8	62	.045 Perf.	.045 Perf.
4"	11	13-3/8	7-3/8	1	91	11-7/8	13-3/8	7-3/8	1	118	9-1/4	102	.125 Perf.	.045 Perf.
6"	15-1/8	15-7/8	8-1/2	1	146	16	15-7/8	8-1/2	1	218	13-1/4	158	.125 Perf.	.045 Perf.
8"	19	21	11-3/4	2	267	20	21	11-3/4	2	388	14-7/8	251	.125 Perf.	.062 Perf.

Note Dimensions shown are subject to change.

Forged Steel Strainers

Class 1500, 560 Series

High pressure ratings; for severe process industry and power plant applications. Choose threaded, socket weld or butt weld in sizes 1/2" through 2".

- **WORKING PRESSURE (Non-Shock)**
1340 psig @ 850°F. Steam
3705 psig @ -20 to 100°F. WOG
- **CONFORMS TO THE FOLLOWING STANDARDS:**
ANSI B2.1 Screwed Ends
ANSI B16.11 Socket Weld Ends
ANSI B16.25 Butt Weld Ends

Materials of Construction

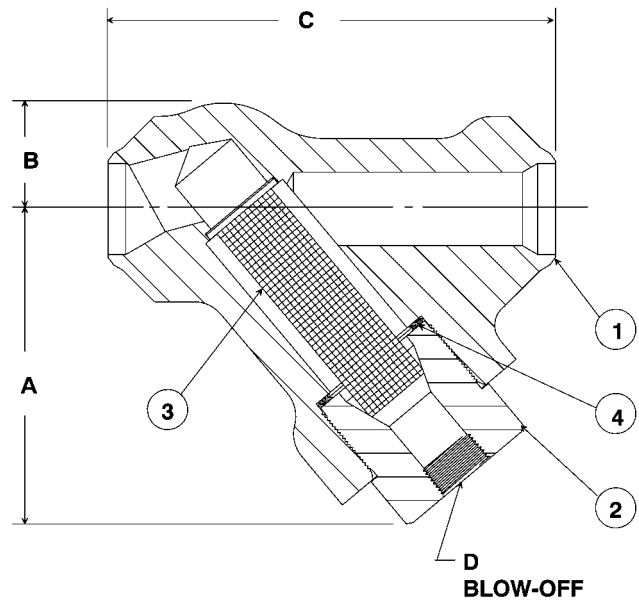
No.	Description	Material	ASTM Spec.	Remarks
1	Body	Forged Steel	A105	
2	Plug	Carbon Steel	A108	Gr. 1018
3	* Screen	Stainless Steel		304/40 Mesh
4	* Gasket	Stainless Steel		304 SS/Carbon Graphite

* Recommended Spare Parts

Dimensional Specifications

Size	A	B	C	D	Weight/Lbs.	Typical Cv Factors
1/2"	3-1/8	1-3/32	4-1/2	1/4	3-3/4	3.5
3/4"	3-3/4	1-1/4	5-7/16	1/2	6-1/2	5.6
1"	3-3/4	1-1/4	5-7/16	1/2	6-1/2	12.7
1-1/2"	5-5/16	1-7/8	8-1/4	3/4	15-1/2	35.0
2"	6-5/16	2-7/32	9-1/2	1	24	46.0

Note: Dimensions shown are subject to change



RP&G Valve®
A Division of Conbraco Industries, Inc.

Model Numbers/Selection Information

Model 560-S	Screwed End
Model 560-SW	Socket Weld
Model 560-BW	Butt Weld

Angle Block Strainers

Threaded & Socket Weld, 532 Series

Machined from solid stock, ideal for high-pressure steam applications.

- **SIZES 1/2" THRU 3"**
Sizes 1-1/4" thru 3" available in socket weld ends only.
- **WORKING PRESSURE (Non-Shock)**
1500 psig @ 839°F. Steam
3705 psig @ -20° to 100°F. WOG
- **CONFORMS TO THE FOLLOWING STANDARDS:**
ANSI B2.1 Screwed Ends
ANSI B16.11 Socket Weld Ends
- **CONSTRUCTION:**
Carbon steel body available in screwed end or socket weld ends. Screen seats are machined for perfect fit.

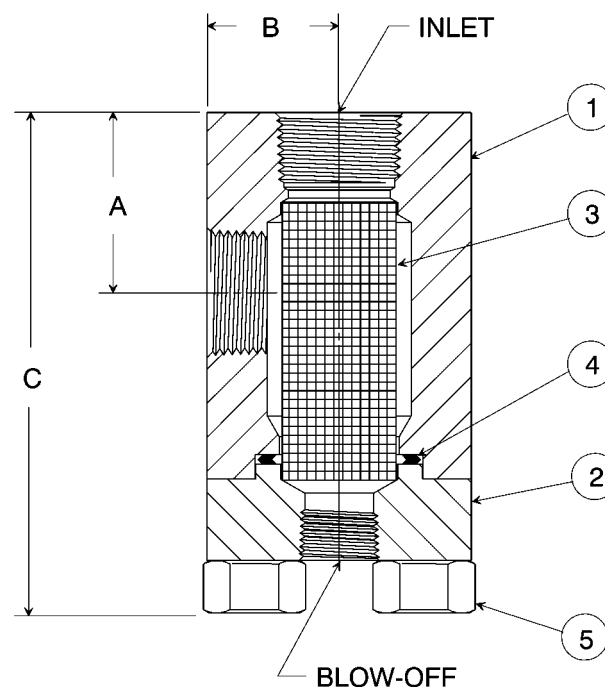


Materials of Construction			
No.	Description	Material	Spec.
1	Body	Carbon Steel	SAE 1020
2	Cover	Carbon Steel	SAE 1020
3	*Screen	Stainless Steel	304/.033 Perf.
4	*Gasket	Stainless Steel	304 SS/Carbon Graphite
5	Bolting	Carbon Steel	

* Recommended Spare Parts

Dimensional Specifications					
Size	A	B	C	Blow-Off	Weight/Lbs.
1/2"	1-1/2	1-1/4	4-5/16	1/2	7-1/2
3/4"	1-1/2	1-1/4	4-5/16	1/2	7-1/2
1"	1-7/8	1-3/8	5-3/8	1/2	10
1-1/4"	1-7/8	1-5/8	5-15/16	3/4	15
1-1/2"	1-7/8	1-5/8	5-15/16	3/4	15
2"	2-5/8	2	7-3/4	1	30
2-1/2"	3-3/8	2-3/4	10-5/8	1-1/4	65
3"	3-3/8	2-3/4	10-5/8	1-1/4	65

Note: Dimensions shown are subject to change.



Model Numbers/Selection Information

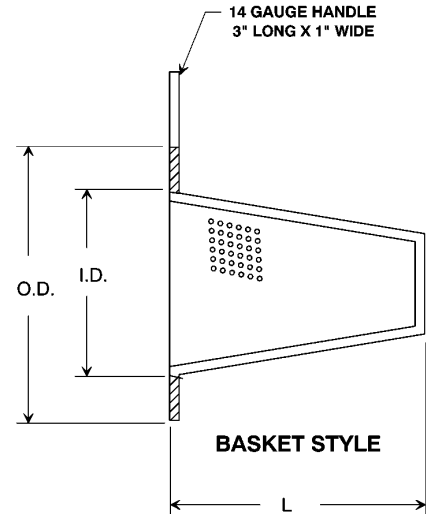
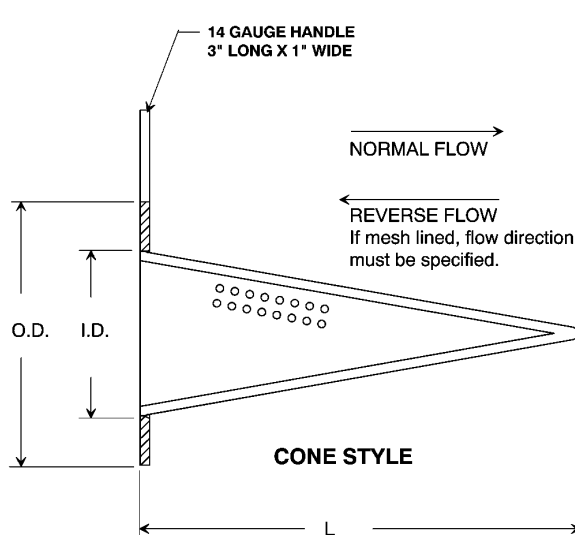
532-S	Screwed End
532-SW	Socket Weld

RP&G Valve[®]
A Division of Conbraco Industries, Inc.

Temporary Strainers

Cone & Basket Styles

Dependable removal of debris during initial start-up of piping systems.



Cone Style		
Part Number	Material	Class Flange
608-200	Carbon Steel	150/300
608-400	Carbon Steel	600
608-200	Stainless Steel	150/300
608-400	Stainless Steel	600

Basket Style		
Part Number	Material	Class Flange
609-200	Carbon Steel	150/300
609-400	Carbon Steel	600
609-200	Stainless Steel	150/300
609-400	Stainless Steel	600

Dimensional Specifications										
Nominal Pipe Size	I.D.	O.D. 150/300# ANSI	O.D. 600# ANSI	D	"L" For Cone Style			"L" For Basket Style		
					Standard	150%	200%	Standard	150%	200%
1-1/2"	1-1/4	3-1/4	3-5/8	3/4	3-3/16	4	5	2-3/4		3
2"	1-3/4	4	4-1/4	1	3-1/2	6	8	3		4
2-1/2"	2-1/4	4-3/4	5	1-1/4	4-1/16	6-1/4	8	3-3/16		4-1/2
3"	2-3/4	5-1/4	5-3/4	1-1/2	4-1/4	6-3/4	9	3-1/2	3-7/8	5-1/2
4"	3-3/4	6-3/4	7-1/2	2	5	10	12	4	5	7
5"	4-5/8	7-5/8	9-3/8	2-1/2	6	12	14	5	6-3/8	9
6"	5-3/8	8-5/8	10-3/8	3	7	13	18	6	7-3/4	11
8"	7-3/8	10-7/8	12-1/2	4	8-3/16	17	23	6-1/8	9-3/4	14
10"	9-3/8	13-1/4	15-3/4	5	12	22	28	7-1/2	12-3/8	18
12"	11	16	17-7/8	6	13	26	34	9	14-3/4	20
14"	12-1/4	17-3/8	19	7	15	27	36	10	15-7/8	21
16"	14	20-1/8	21-7/8	8	17	30	40	10	18-3/8	23
18"	15-3/4	21-1/4	23-3/4	9	19	35	46	12	20-7/8	27
20"	17-1/2	23-1/2	26-5/8	10	21	39	51	14	23-1/2	31
24"	21-1/4	27-7/8	30-7/8	12	25	45	61	16	28-3/8	37

Note: Standard perforation is .125. Other perforations and meshes are available.

Magnetic Screen Assemblies For Extra Protection Against Fine Ferrous Metal Particles



Now you can get added protection for your hydraulic system, pumps and other equipment.

Magnetic screen assemblies prevent fine ferrous metal particles from passing through the screen and damaging bearings and other machined surfaces.

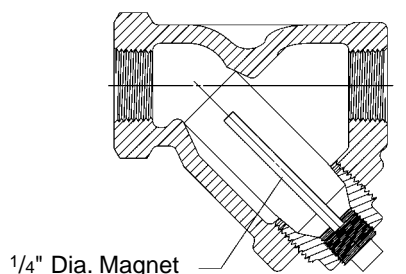
The magnets in these screen assemblies are positioned to obtain the strongest magnetic field possible, resulting in the most effective particle retention.



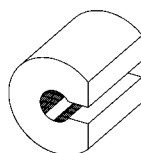
Magnetic screen assemblies are designed to fit all types and sizes of strainers, making it possible to easily change screens in the field to convert to magnetic strainers.

Rod or Horseshoe Type Magnet

Example "A" - Rod Magnet

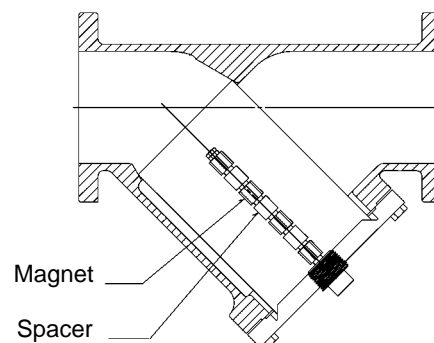


"Y" Type - Sizes 1/2" thru 1-1/4"



Horseshoe Type Magnet

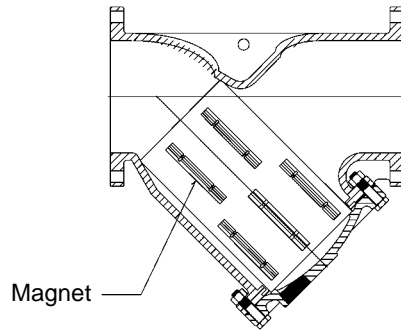
EXAMPLE "B" - HORSESHOE MAGNET



"Y" Type - Sizes 1-1/2" & 2"

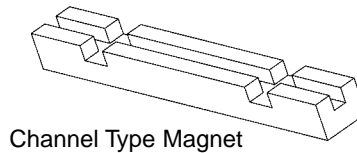
Channel Type Magnet

EXAMPLE "C" - CHANNEL MAGNET

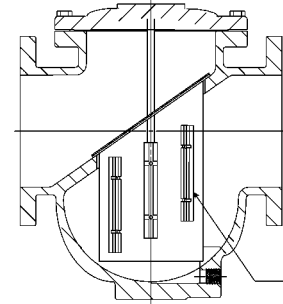


"Y" Type - Sizes 2-1/2" thru 18"

EXAMPLE "D" - CHANNEL MAGNET



Channel Type Magnet



Magnet

Basket Type - Sizes 3" thru 12"
2" & 2-1/2" Sizes use Horseshoe Magnets

Magnet Quantity														
Size	1/2 thru 1-1/4	1-1/2	2	2-1/2	3	4	5	6	8	10	12	14	16	18
"Y" Type	1	4	6	3	3	4	10	12	12	12	16	20	24	32
Basket Type			2	2	3	3	5	7	11	13	17			

Specifications

Magnetic inserts are available on "Y" type and "Basket" type strainers in all body materials.

Corrosion resistant fasteners are used to assemble the magnets to the screen.

Magnets are equally spaced in each row. When two or more rows are used, the magnets are staggered.

Magnet material is Cast Alnico #5.

Example A - Rod magnet, "Y" type, 1/2" thru 1-1/4"

Example B - Horseshoe magnet, "Y" type, 1-1/2" & 2"

Example C & D - Channel magnet, "Y" type, 2-1/2" thru 18", and "Basket" type 3" thru 12".

Ordering Information

These magnetic assemblies are available for all strainers, regardless of body material or end connections.

Magnetic screen assemblies are used with stainless steel screen material only.

The blow-off connection (drain) is not available on strainers that have rod or horseshoe type magnets.

When ordering, specify, "Magnetic Strainer Screen".

For other strainer information, see the appropriate strainer catalog page.



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			E/Mail Address	Phone	Fax
Southeast Region	B. Lynch & Assoc.	Florida	blynchsales@earthlink.net	813-901-0988	813-901-8403
	Valves & Fittings, Inc.	Georgia/Alabama/Tennessee-East	sales@valves-fittings.com	770-483-3057	770-483-3110
	Pro Marketing, Inc.	North Carolina/South Carolina	sales@promarketinginc.net	864-578-4334	864-578-4889
	Mid South Marketing	Virginia/Maryland/Washington, D.C./WV-East	midsouth7@aol.com	804-749-8712	804-749-8717
Southern Region	Southern Marketing Group	MS/TN-West/AR/Bowie Cty.-TX	SMG49@bellsouth.net	901-547-0042	901-547-0035
	AVC Mechanical	Oklahoma/Texas-North	valvesales@avalve.com	817-649-2229	817-649-2225
	Knox & Associates, Inc.	Texas-South/Louisiana	knox1@pdq.net	713-462-7766	713-690-6228
Midwestern Region	HEBCO, Inc.	Kansas/Missouri-West	chuckHEBCO@aol.com	913-491-0797	913-491-5126
	New Tech Marketing, Inc.	IL/WI-East/IN-North/MI-Upper Peninsula/IA-River Counties	ntm12@ameritech.net	630-378-4300	630-378-0343
	New Tech Marketing, Inc.	Eastern Missouri/Southern Illinois	ntm112@aol.com	618-394-0329	618-394-0427
	L.J. Whitfill & Associates, Inc.	Kentucky/Indiana-South/Ohio-South	ljwhitfill@aol.com	502-459-4545	502-459-9944
	V.E. Sales Co., Inc.	Michigan (Except Upper Peninsula)	tomv@vesalesinc.com	586-774-7760	586-774-1490
	Northstar Valve & Fitting, Inc.	Minnesota/North & South Dakota/Wisconsin-West	nsvaive@aol.com	952-937-0108	952-937-0803
	Willco, Inc.	Nebraska/Iowa (Except River Counties)	willcoinc@att.net	402-573-7000	402-573-7371
	Morrissey Associates, Inc.	Ohio-North/Pennsylvania-West/West Virginia-West	sales@morrisseyassoc.com	330-538-0406	330-538-0410
Western Region	Specified Process Equipment Co.	California-North	john@specifiedprocess.com	707-747-3466	707-747-4957
	SoCal Controls, Inc.	California-South	sales@socalcontrols.com	714-935-9533	714-935-9503
	Marshall-Rodeno Associated	CO/WY/MT/ID-SE/UT/NV-NE/NM/EI Paso-TX	trodeno@marshall-rodeno.com	303-575-6701	303-575-6706
	J.P. Harris & Associates, Inc.	Washington/Oregon/Idaho-North West/Alaska	jim@jpharrisassoc.com	360-944-8457	360-944-8459
	Layden Valve Sales & Solutions	Hawaii	will@laydenvalve.com	808-456-3331	808-455-1064
Northeast Region	Southwestern Mechanical Sales Co.	Arizona/Nevada-SW	sales@swmech.com	480-813-1313	480-813-2286
	Urell, Inc.	Massachusetts/New England States	doug@urell.com	617-923-9500	617-926-9414
	Pence & Associates	New York-Upstate/New York-West	penceassociates@aol.com	315-423-0066	315-423-0290
	Continuous Sales Corporation	New York-East/New Jersey-North	csc07@aol.com	516-248-5177	516-248-5187
	J.A. Layden Co.	Pennsylvania-East/Delaware/New Jersey-South	sales@jalayden.com	610-353-2311	610-359-1299
Canada	Keith Engle & Associates	OEM accounts	kea@P3.net	610-827-9560	610-827-9561
	Conbraco Industries, Canada	160 Pennsylvania Ave., Unit 3, Concord, Ontario L4K 4A9	conbraco@conbraco.on.ca	905-761-6161	905-761-6666
	Barclay Sales Ltd.	British Columbia	mail@barclaysales.com	604-945-1010	604-945-3030
	M.A. Stewart & Sons, Ltd.	British Columbia, Alberta, Ontario, Quebec	surrey@mastewart.com	604-594-8431	604-594-4335
	Mechanical Systems 2000, Inc.	Alberta-South	hoth20@telusplanet.net	403-291-1244	403-219-0686
	Dynamic Agencies, Ltd.	Saskatchewan	doug.dynamicage@sk.sympatico.ca	306-343-1901	306-343-1901
	Tom Beggs Agencies Ltd.	Manitoba/NW Ontario	TBA@MB.SYMPATICO.CA	204-953-1900	204-774-6915
	Task Controls, Inc.	Ontario	taskcontrols@on.aibn.com	416-291-3004	416-754-3481
	Agences J. Pierre Sylvain, Inc.	Quebec	agencespsylvain@videotron.ca	450-655-9588	450-641-2737
	Kern Industries, Ltd.	Alberta-North	kernind@telusplanet.net	780-451-2056	780-454-6687
	J. Levandier Sales, Inc.	Nova Scotia, New Brunswick, Prince Edward Island	jlssales@istar.ca	506-858-1615	506-858-1084
	Smith Agencies	Newfoundland	smithagencies@roadrunner.nf.net	709-364-8856	709-747-9414
	Key to the North Sales Agency, Inc.	Ontario-North	keytothenorthsales@sympatico.ca	705-524-6714	705-566-0148
	Pelco Sales	Eastern-Ontario/Ottawa	pelco@cyberus.ca	613-839-0114	613-839-0115
Int'l./Puerto Rico	Rafael Rodriguez Barril, Inc.	Puerto Rico	raul@rrbarril.com	787-759-8680	787-759-8986
	Conbraco Industries, Int'l. (Europe)	Manchester, England	sales@conbraco.co.uk	+44-161-908-2340	+44-161-908-2359

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