





A history of **Quality, Service** and **Innovation**

Now in its ninth decade, Conbraco Industries, Inc. is a leading manufacturer of flow control products for U.S. and international markets. The company's headquarters is based in Matthews, North Carolina with manufacturing plants and foundries located in Pageland and Conway, South Carolina.

Conbraco has a history of new product development and innovation that dates back to the company's inception in 1928. Today, the Conbraco line of products is marketed under the "Apollo Valves" brand and includes: ball valves, butterfly valves, backflow prevention devices, water pressure reducing valves, mixing valves, safety relief valves, water gauges, strainers, actuation and ApolloXpress products.

Conbraco's vertically integrated manufacturing ensures a consistency of production, testing, quality and availability. You can be assured that Conbraco flow control products will deliver long term reliability. All Conbraco plants are registered to ISO 9001:2008 quality standards.

The Conbraco line continues to expand with new products, designs and advanced materials to better serve the needs of our customers. Markets served include: chemical processing, pulp and paper, petroleum, residential and commercial plumbing and heating, OEM, irrigation, water works, and fire protection.



PAGELAND, SC Bronze Foundry and Manufacturing Plant



PAGELAND, SC Final Assembly and Distribution Center



CONWAY, SC Steel Foundry and Manufacturing Plant



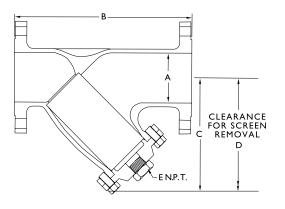
MATTHEWS, NC Corporate Headquarters

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Y-Strainers

APOLLO® SERIES 125YF



IRON PIPE FLANGED Y-STRAINERS

FEATURES

- Iron strainers are complete with Flat Face flanges in accordance with ASME B16.1.
- Strainer body meets applicable ASME Standard.
- · One piece cast body.
- Strainers equipped with bolted cover flange that utilize a flat gasket seal.
- · Low pressure drop.
- Upper and lower machined seats.
- 304 SS perforated screens are standard.
- Drain/Blow-off connection furnished with plug as standard.
- Generous screen area and properly proportioned straining chamber to minimize initial pressure drop while maximizing time between cleanings.
- · Compact end to end dimension.

Apollo Model 125YF — Upper Pressure Limits (Non-Shock)					
Size Body Material		M.A.W.P. PSIG (Bars)	Ends		
up to 12" size	A126-B - Cast iron	200 (13.79)	FF		
14" and up	A126-B - Cast iron	150 (10.34)	FF		
Body Material		Lower Lir	nit °F (°C)		
A126-E	A126-B, A395		-28.9)		

Parts List and Standard Materials					
Part -Apollo Model	Cast Iron - 125YF				
Body	A126-B				
Cover	A126-B				
Screen ¹	304 SS				
Plug ²	A126-B				
Gasket ¹	Graphite				
Bolt/Stud ²	A307-B				
Nut ²	A563				

Notes:

- 1. Recommended Spares.
- 2. Materials of equivalent strength may be substituted at manufacturer's option.

	12	25YF – Dime	nsional Data -	- Iron Class 1	25	
Size	A	В	C	D	E	Weight
2"	2.00	8.88	6.00	8.50	1/2	22
50	51	226	152	216	15	10
2-1/2"	2.50	10.75	8.00	11.25	1	35
65	64	273	203	286	25	16
3"	3.00	11.50	8.75	12.25	1	43
80	76	292	222	311	25	20
4"	4.00	13.88	9.50	13.38	11/4	75
100	102	353	241	340	32	34
5"	5.00	16.38	11.50	16.13	11/4	115
125	127	416	292	410	32	52
6"	6.00	18.50	12.63	17.69	11/2	154
150	152	470	321	449	40	70
8"	8.00	21.38	16.38	23.00	11/2	243
200	203	543	416	584	40	110
10"	10.00	26.00	19.00	26.70	2	390
250	254	660	483	678	50	177
12"	12.00	30.00	22.00	31.00	2	650
300	305	762	559	787	50	295
14"	14.00	37.38	29.00	41.00	2	815
350	356	949	737	1041	50	370
16"	16.00	42.50	33.00	46.00	2	1224
400	406	1080	838	1168	50	555



ENGINEERING DATA Screen Openings for Y-Strainers

FACTORS TO CONSIDER

PURPOSE

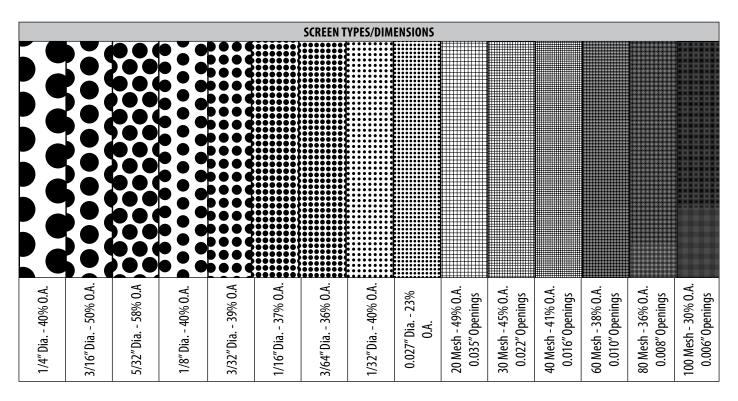
If the basket strainer is being used for protection rather than direct filtration, Apollo's standard screens will suffice in most applications.

SERVICE

With services that require extremely sturdy screens, such as high pressure/ temperature applications or services with high viscosities, Apollo® recommends that perforated screens without mesh liners be used. If mesh is required to obtain a certain level of filtration, then Apollo recommends a trapped perf./mesh/perf. combination.

FILTRATION LEVEL

When choosing a perf. or a mesh/perf. combination attention should be given to ensure overstraining does not occur. As a general rule the specified level of filtration should be no smaller than half the size of the particle to be removed. If too fine a filtration is specified the pressure drop through the strainer will increase very rapidly, possibly causing damage to the basket.



Notes:

- 1. Screen openings other than those shown above are available.
- 2. Custom manufactured screens are available upon request. Please consult factory.
- All mesh screens include liner;
 .045 Perf
 .125 Perf
 4" and larger.

Standard Screens					
Size Range	Opening				
2"-3"	0.045 in.				
50mm - 80mm	1.2mm				
4" and larger	0.125 in.				
100mm and larger	3.2mm				



ENGINEERING DATA Y-Strainer Pressure Drop – Liquids

FEATURES & AVAILABILITY

The following optional features are available for most Apollo Y-Strainers. Please consult factory if required feature not shown.

FeatureDescription of AvailabilityScreen openingsRange 5 micron to 1/2" perf.Screen materialsCarbon steel, stainless steel

(304/316 and L grades), alloy 20, monel 400, hastalloy C, Titanium, etc.

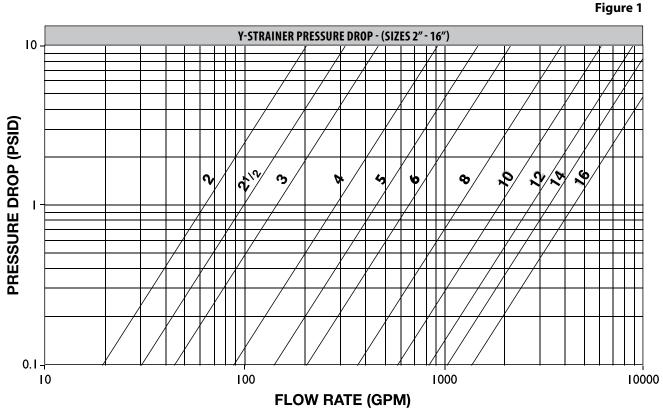
Screen construction Perforated plate, mesh and wedge wire.
Gaskets Any material commercially available.

Special body materials Consult factory.
Special coatings FDA Epoxy Coating

Silicon free contamination Specially cleaned and packed - performed on request. Canadian Registration (CRN) Available on most models in province of installation.

Note:

1. Strainer size may effect the ability to apply certain coatings and linings.



Notes:

- 1. Pressure drop curves are based on water flow with standard screens.
- 2. See next page for correction factors to be used with other fluids and/or screen openings.



ENGINEERING DATA Screen Correction Factor Chart

FOR NON-STANDARD AND MESH LINED SCREENS

Chart #1

			SCR	EEN OPENI	NGS			
Size Range			forated Pl Material (Lined Star Screens Material C	
	60%	50%	40%	30%	20%	50%	40%	30%
2" - 16"	0.65	0.8	1	1.4	2.15	1.05	1.05	1.2

^{*} Multiply values obtained from figure 1 thru 4 by the appropriate values shown below

Notes

- 1. See page 4 for % Open Area's of Apollo inventoried perforated plate.
- 2. Standard screens for sizes 2" and larger is approximately a 40% open area screen media.
- All mesh screens include liner;
 .045 Perf 3" and smaller

.125 Perf 4" and larger.

EXAMPLE

Strainer Size: 2"

Filtration: 100 Mesh lined

Flow rate: 65 GPM Service: Water

- A) Using Figure 1 the pressure drop is determined to be 1.0 psid with Apollo's standard screen.
- B) Looking at page 4 we find that the % open area of 100 mesh is 30%.
- C) Using Chart #1 we read the correction factor to be 1.2 for 100 mesh lined .045" perf.
- D) Total pressure drop equals 1.0 x 1.2 = 1.2 psid clean.

VISCOSITY AND DENSITY CORRECTION FACTOR CHART

Chart #2

Size Range Component Factor (CF) 2"-16" 0.35

Chart #3

Viceositu	Pody Loss				
Viscosity CP	Body Loss Factor (BF)	Perf Alone (PF)	20 Mesh Lined (MF)	30, 40 Mesh Lined (MF)	60 to 300 Mesh Lined (MF)
10	1	1.15	1.3	1.4	1.5
25	1.2	1.25	2	2.2	2.5
100	1.6	1.4	3	4	6.5
200	2.2	1.5	4.5	7	11.5
500	4.4	1.6	10	15	25
1000	8	1.7	15	30	50
2000	15.2	1.9	30	60	100

HOW TO USE

- 1. Using Figure 1 see page 5 determine the pressure drop (P1) through the strainer with water flow and standard screens.
- 2. If non-standard screens (i.e. 40 mesh, etc.) are being used apply factors in Chart #1 to determine corrected pressure drop (P2).
- 3. Multiply P1 or P2 (is used) by the specific gravity of the fluid actually flowing through the strainer to get P3.
- 4. Using Chart #2 multiply P3 by the appropriate Component Factor (CF) to get P4.
- 5. Let P5 = P3 P4.
- 6. Multiply P4 by the appropriate Body Loss Factor (BF) in Chart #3 to get P6.
- 7. Multiply P5 by the appropriate Screen Loss factor (PF or MF) in Chart #3 to get P7.
- 8. Total pressure drop P8 = P6 + P7.

EXAMPLE

Strainer Size: 2"

Filtration: 100 Mesh lined

Flow rate: 65 GPM

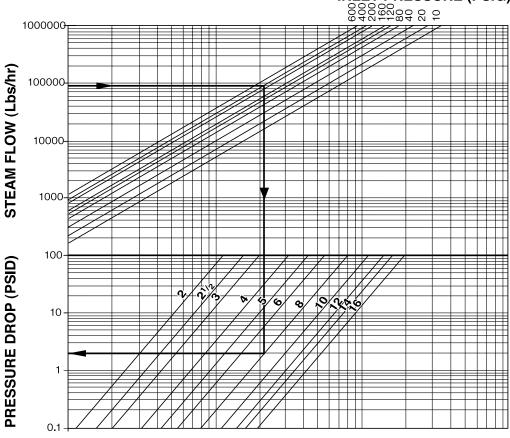
Specific Gravity: 1 Viscosity: 25 cP

- A) As shown in the above example, the corrected pressure drop (P2) = 1.2 psid
- B) Since S.G. = 1, P3 = P2 = 1.2 psid
- C) Using Chart #2 P4 = $0.35 \times P3 = 0.42 \text{ psid}$
- D) P5 = 1.2 0.4 = 0.8 psid
- E) Using Chart #3 P6 = $0.4 \times 1.2 = 0.48 \text{ psid}$
- F) Again using Chart #3 P7 = $0.8 \times 2.5 = 2.0 \text{ psid}$
- G) Total pressure drop P8 = 0.48 + 2.0 = 2.48 psid

ENGINEERING DATA Y-Strainer Pressure Drop – Saturated Steam

SIZES 2" - 16"

INLET PRESSURE (PSIG)



Notes:

- 1. Pressure drop curve is based on saturated steam flow with standard screens. See page 5 for correction factors to be used with other screen openings.
- 2. Chart can be used for air and gas by using the following formula:

Qs = 0.138 Qg $\sqrt{(460+t) \text{ s.g.}}$ $\begin{cases} \frac{DP}{P_2} < 1.0 \\ \frac{P_2}{P_2} < 1.0 \end{cases}$

WHERE

Qs = Equivalent Steam Flow, lbs./hr.

Qg = Air or gas flow, SCFM.

t = Temperature, °F.

s.g. = Specific gravity (s.g. = 1 for air.)

DP = Pressure Drop, psid P2 = Outlet Pressure **EXAMPLE**

Service:

Saturated Steam Flow

Pressure: 400 psig Steam Flow: 90,000 Lbs/hr

Size: 8"

- A) Locate steam flow.
- B) Follow horizontal line to required pressure.
- C) Follow vertical line downwards to required strainer size.
- D) Follow horizontal line to read pressure drop
- E) Pressure drop equals 2.0 psid.



Check List and Suggested Specifications

STRAINER CHECK LIST

When selecting a strainer, please take the factors listed below into account. This will assist us when recommending a strainer to suit your specific requirements. Please photocopy this page and fill out the pertinent information.

1.	Fluid to be strained
2.	Flow rate
3.	Density of fluid
4.	Viscosity of fluid
5.	Fluid working pressure
	Maximum pressure
6.	Fluid working temp.
	Maximum temp.
7.	Preferred material of strainer construction
8.	Present pipeline size & material
9.	Nature of solids to be strained out
10.	Size of solids to be strained out
	Size of mesh or perf. req
11.	Clearance Limitation Above Below
	Left side facing inlet
	Right side facing inlet
12.	Maximum pressure drop with clean screen
13.	Expected cleaning frequency
14.	Any other information deemed relevant

SUGGESTED SPECIFICATIONS

The strainer shall be a Y-Type and have
(size) inlet/outlet connections. The end connections shall be
flanged and the body shall be complete with a bolted cover
assembly. The strainer shall be suitable for
PSIG operating pressure at°F operating temperature.
The body shall be constructed of
(body material) while the screen shall be constructed of
(screen material). A mesh
lining of (size of mesh)
is required, allowing a maximum pressure drop of
psig. The strainer shall be equipped with a
(gasket material) gasket and the
strainer screen shall be able to withstandpsig
differential pressure without any deformation.
Strainers shall be Apollo Model #
or approved equivalent.
Name
Name
Company
Company
Company Address City

Installation and Maintenance Instructions

STRAINER INSTALLATION INSTRUCTIONS

- A. Ensure all machined surfaces are free of defects and that the inside of the strainer is free of foreign objects.
- B. For horizontal pipelines, the strainer should be installed so that the drain connection is pointed downwards.
- C. For flanged end strainers, the flange bolting should be tightened gradually in a back and forth clockwise motion.
- D. Once installed, increase line pressure gradually and check for leakage around joints.
- E. If the strainer is supplied with a start-up screen, monitor pressure drop carefully.

NOTE: Flat face mating flanges and full face gaskets must be used with 125YF series strainers to avoid damage to the cast iron body.

IMPORTANT

Ultimate responsibility for strainer and material selection rests with the customer, as only the customer knows the particular use to which the strainer will be put and the exact operating parameters to which it will be subjected.

STRAINER REMOVAL INSTRUCTIONS

- A. Drain piping.
- B. Vent line to relieve pressure.
- C. Secure necessary lifting equipment to strainer assembly.
- D. Loosen flange bolts (Pipe flanges only).
- E. Remove inlet/outlet flange bolts and carefully remove strainer.

CAUTION SHOULD BE TAKEN DUE TO POSSIBLE EMISSION OF PROCESS MATERIAL FROM PIPING. ALWAYS ENSURE NO LINE PRESSURE EXISTS WHEN OPENING COVER.

MAINTENANCE INSTRUCTIONS

For maximum efficiency, determine the length of time it takes for the pressure drop to double that in the clean condition. Once the pressure drop reaches an unacceptable value, shut down line and follow the "Screen Replacement Instructions". A pressure gauge installed before and after the strainer in-line will indicate pressure loss due to clogging and may be used to determine when cleaning is required.

SCREEN REPLACEMENT

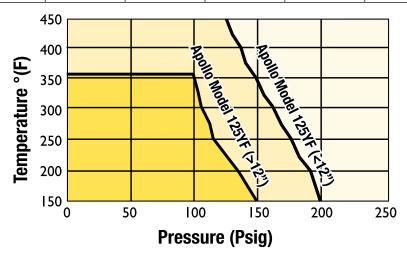
It is recommend that the system and strainer be depressurized before attempting any repair work. After removing all pressure, the system should be drained, any connections to the blow-off plug should be removed, and the following procedure should be used to replace the screen.

- A. Attach cable or chain to strainer cover (1) and apply sufficient tension to prevent cover from dropping.
- B. Remove bolts from cover.
- C. Remove cover, clean and inspect gasket surface of cover.
- D. Remove and discard old gasket.
- E. Remove and clean or discard old screen.
- F. Clean and inspect gasket surface of body. If gasket surface of cover or body is damaged, the damaged component must be replaced.
- G. Push clean screen into position in body.
- H. Position new gasket in place on body.
- I. Line up screen and put cover in place on body.
- J. Be sure gasket, bolt holes, and screen are properly aligned.
- K. Put in bolts and nuts as required
- L. Tighten bolts, using "star" pattern to prevent damaging parts. Alternate tightening 180° apart. Tighten bolts sufficiently to stop leakage under test and service conditions.



ENGINEERING DATA Y-Strainer Effective Screen Area

		SERIES	125YF		
Pipe Size (In.)	Std. Opening (In.)	Nominal Area of Pipe Fitting (Sq. In.)	Gross Screen Area (Sq. In.)	Free Area (Sq. In.)	Ratio Free Area to Pipe Area
2	0.045	3.14	30.07	10.82	3.45
2-1/2	0.045	4.91	44.33	15.96	3.25
3	0.045	7.07	56.45	20.32	2.88
4	0.125	12.57	98.91	39.56	3.15
5	0.125	19.63	147.11	58.85	3.00
6	0.125	28.27	179.19	71.68	2.54
8	0.125	50.27	334.38	133.75	2.66
10	0.125	78.54	505.21	202.08	2.57
12	0.125	113.10	665.77	266.31	2.35
14	0.125	137.89	1186.34	474.54	3.44
16	0.125	182.65	1446.85	578.74	3.17



Apollo Flanged Y-Strainer Order Schematic

125Y -	XXX	-	XXX -	X	
MODEL	VALVE TYPE/CONN	IECTION SIZE	SCREEN TYPE	COATING	
125Y (Flat Face)	Flanged 2"	= F02	20 Mesh = M20	Blank	Standard No Coating
	Flanged 2.5"	= F25	40 Mesh = M40	E	Epoxy Coating,
	Flanged 3"	= F03	60 Mesh = M60		FDA Approved
	Flanged 4"	= F04	80 Mesh = M80		
	Flanged 5"	= F05	100 Mesh = M100		
	Flanged 6"	= F06	.045 Perf = P045		
	Flanged 8"	= F08	.062 Perf = P062		
	Flanged 10"	= F10	.125 Perf = P125		
	Flanged 12"	= F12	.250 Perf = P250		
	Flanged 14"	= F14			
	Flanged 16"	= F16			

NOTES:

 ${\it *All mesh screens are reinforced with a perforated liner.}$

2" - 3": .045 Perf

4" - Larger: .125 Perf



WARRANTY AND LIMITATIONS OF LIABILITY

Conbraco Industries, Inc. warranties, to its initial purchaser only, that its products which are delivered to the initial purchaser will be of the kind described in the order or pricelist and will be free of defects in workmanship or material for a period of TWO years from the date of delivery to you, our initial purchaser.

Should any failure to conform to this warranty appear within two years 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: Condraco 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 INITIAL PURCHASER, AND ALL OTHERS, SET FORTH HEREIN ARE EXCLUSIVE, AND THE LIABILITY OF CONBRACO WITH RESPECT TO SAME SHALL NOT, AS EXPRESSLY PROVIDED HEREIN, EXCEED THE PRICE OF THE GOODS UPON WHICH SUCH LIABILITY IS BASED.

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Ben Lauletta Northeast ben.lauletta@conbraco.com 518-795-4629 Sanford Pauly North Central sanford.pauly@conbraco.com 513-716-7772 513-321	-6666
Sanford Pauly North Central sanford.pauly@conbraco.com 513-716-7772 513-321	
James Caldivar Courth Central Industrial james caldivar@conhrace.com 022 776 EEA7	-7717
James Saldivar South Central - Industrial james.saldivar@conbraco.com 832-776-5547	
South Central - Commercial nick.shelley@conbraco.com 214-790-4157	
Jim Todman Canada - Industrial jim.todman@conbraco.com 905-407-8385 905-761	
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Ron Modugno West rmodugno@lascofittings.com 661-910-5058 661-775	
Jimmy White Central jwhite@lascofittings.com 731-234-2372 731-779	-3608
Ben Freeman Southeast bfreeman@lascofittings.com 205-919-4944	
Rick Williamson Eastern Specifications Manager rwilliamson@lascofittings.com 386-451-2307	

current as of 10/1/12





SALES & CUSTOMER SERVICE:

Phone: (704) 841-6000 Fax: (704) 841-6020

www.apollovalves.com

		AGENCY	AREAS COVERED	EMAIL	PHONE	FAX
		Mid South Marketing, Inc.	VA/MD/Washington, D.C./WV-East	michael.uecker@msmsales1.com	804-213-3801	804-213-3802
	SOUTHEAST	Pro Marketing, Inc.	NC/SC/TN-East	sales@promarketinginc.net	864-578-4334	864-578-4889
		Spirit Group	FL (except Panhandle)	info@spiritgroupinc.com	407-291-6035	407-299-0378
	8 .	Tim Morales & Associates, Inc.	AL/FL Panhandle	sales@timmorales.com	251-602-8333	251-602-8339
	_	White Wolf Group	GA	info@whitewolfgroupinc.com	800-401-4870	888-908-9372
	S S	BWC Inc.	LA (Commercial Products)	chuck@bwcassoc.com	504-734-0229	504-734-3711
	SOUTHERN REGION	Marathon Flow Control	TX, OK, KS except Northeast, LA (Industrial)	sales@marathonflowcontrol.com	214-201-0100	214-201-0104
	8 =	Southern Marketing Group	MS/TN-West/AR/Bowie CtyTX	SMG49@bellsouth.net	901-547-0042	901-547-0035
		FourMation Sales	MN/ND/SD/WI-West	ryan@fourmationsales.com	763-420-6900	763-420-6993
	≅.	Marshall-Rodeno Heartland	NE/IA (Except River Counties)	trodeno@marshallrodeno.com	303-575-6701	303-575-6706
	STER	Midwest Spec	Northern OH, Western PA, WV	glsales@mwspec.com	330-538-0406	330-538-0410
	MIDWESTERN REGION	Midwest Spec New Tech Marketing	Southern OH, KY Northern-IL/WI-East/IN/MI-UP/IA-RiverCounties	rvsales@mwspec.com sales@new-techmarketing.com	513-353-9191 630-378-4300	513-353-1589 630-378-0343
	Z	New Tech Marketing	MO/Southern IL/Northeast Kansas	ntm112@aol.com	618-394-0329	618-394-0427
		V.E. Sales Co., Inc.	MI (Except Upper Peninsula)	tomv@vesalesinc.com	586-774-7760	586-774-1490
		Elmco Duddy	CA - South	tduddy@elmcoduddy.com	626-333-9942	626-855-4811
		Gordon & Associates	WA, OR, AK, Northern counties ID	kenn@gordonandassoc.com	907-441-7184	425-228-7777
		HC Fletcher	CA - North (AB 1953 Compliant Product & Fire Protection)		800-432-7047	949-660-9072
	WESTERN REGION	Marshall-Rodeno Associated	CO/WY/MT/ID-SE/UT/NV-NE/NM/EI Paso-TX	trodeno@marshallrodeno.com	303-575-6701	303-575-6706
	NES REG	Romatec	CA - North PVF (Non AB 1953)	apollo@romatec.com	877-530-3530	661-588-3534
		Southwest Valves	CA (Waterworks)	d.burell@southwestvalve.com	559-261-2703	559-261-2711
		Southwestern Industrial Sales Co.	AZ/Nevada-SW	eduardop@sw-ind.com	480-458-5838	480-458-5843
		Spec Management Group	HI	msmarch4@cox.net	949-481-4225	949-487-0990
	IST I	Conroy & Griese Sales, Inc.	NY-East/NJ-North	iezzi52@aol.com	856-663-4440	856-663-6644
	NORTHEAST REGION	Keith Engle & Associates	OEM accounts	keith.engle@verizon.net	610-213-5552	610-827-9561
	S S	Layden Company	NY-Upstate/PA-East/DE/NJ-South	joejr@laydencompany.com	610-363-6657	877-529-3361
		Urell, Inc.	MA/New England States	conbraco@urell.com	617-923-9500	617-926-9414
		Active Sales Northwest, Inc.	OR, WA, Western ID	skactive@aol.com	541-726-0320	541-726-1148
		Biz Sales Company	OH, KY, MI, IN, parts of PA, WV, WI	dzavelson@bizpvf.com	216-595-2888	216-595-2899
ı		Biz Sales Company Fourmation Sales	OH, KY, MI, IN, parts of PA, WV, WI MN/ND/SD/WI-West	dzavelson@bizpvf.com dean@fourmationsales.com	216-595-2888 763-262-4700	216-595-2899 763-262-4740
		Biz Sales Company Fourmation Sales Hall Marketing	OH, KY, MI, IN, parts of PA, WV, WI MN/ND/SD/WI-West AL, LA	dzavelson@bizpvf.com dean@fourmationsales.com hallmarketing@bellsouth.net	216-595-2888 763-262-4700 228-547-4637	216-595-2899
	(EPS	Biz Sales Company Fourmation Sales	OH, KY, MI, IN, parts of PA, WV, WI MN/ND/SD/WI-West AL, LA NE, IA, MO, KS	dzavelson@bizpvf.com dean@fourmationsales.com hallmarketing@bellsouth.net john@jandjmidwestsales.com	216-595-2888 763-262-4700 228-547-4637 314-422-8419	216-595-2899 763-262-4740 228-832-6666
ı	LY REPS	Biz Sales Company Fourmation Sales Hall Marketing J&J Midwest Sales	OH, KY, MI, IN, parts of PA, WV, WI MN/ND/SD/WI-West AL, LA	dzavelson@bizpvf.com dean@fourmationsales.com hallmarketing@bellsouth.net	216-595-2888 763-262-4700 228-547-4637	216-595-2899 763-262-4740
ı	ONLY REPS	Biz Sales Company Fourmation Sales Hall Marketing J&J Midwest Sales Jim Benton & Associates John Hart Larry Perkins	OH, KY, MI, IN, parts of PA, WV, WI MN/ND/SD/WI-West AL, LA NE, IA, MO, KS AL, FL Panhandle FL TX - Southern	dzavelson@bizpvf.com dean@fourmationsales.com hallmarketing@bellsouth.net john@jandjmidwestsales.com jim@bentonandassoc.com jhart@lascofittings.com lperkins@lascofittings.com	216-595-2888 763-262-4700 228-547-4637 314-422-8419 205-664-1221	216-595-2899 763-262-4740 228-832-6666 205-664-1277
ı	TION ONLY REPS	Biz Sales Company Fourmation Sales Hall Marketing J&J Midwest Sales Jim Benton & Associates John Hart Larry Perkins Marel Enterprises	OH, KY, MI, IN, parts of PA, WV, WI MN/ND/SD/WI-West AL, LA NE, IA, MO, KS AL, FL Panhandle FL TX - Southern New England, NY, DE, MD, VA, DC, parts of PA & WV	dzavelson@bizpvf.com dean@fourmationsales.com hallmarketing@bellsouth.net john@jandjmidwestsales.com jim@bentonandassoc.com jhart@lascofittings.com lperkins@lascofittings.com marelenterprise@gmail.com	216-595-2888 763-262-4700 228-547-4637 314-422-8419 205-664-1221 772-595-7773 936-443-1096 631-271-1718	216-595-2899 763-262-4740 228-832-6666 205-664-1277 772-489-4305 631-427-8558
	IGATION ONLY REPS	Biz Sales Company Fourmation Sales Hall Marketing J&J Midwest Sales Jim Benton & Associates John Hart Larry Perkins Marel Enterprises Marshall-Rodeno Associated	OH, KY, MI, IN, parts of PA, WV, WI MN/ND/SD/WI-West AL, LA NE, IA, MO, KS AL, FL Panhandle FL TX - Southern New England, NY, DE, MD, VA, DC, parts of PA & WV CO/WY/MT/ID-SE/UT/NV-NE	dzavelson@bizpvf.com dean@fourmationsales.com hallmarketing@bellsouth.net john@jandjmidwestsales.com jim@bentonandassoc.com jhart@lascofittings.com lperkins@lascofittings.com marelenterprise@gmail.com trodeno@marshallrodeno.com	216-595-2888 763-262-4700 228-547-4637 314-422-8419 205-664-1221 772-595-7773 936-443-1096 631-271-1718 303-575-6701	216-595-2899 763-262-4740 228-832-6666 205-664-1277 772-489-4305 631-427-8558 303-575-6706
	IRRIGATION ONLY REPS	Biz Sales Company Fourmation Sales Hall Marketing J&J Midwest Sales Jim Benton & Associates John Hart Larry Perkins Marel Enterprises Marshall-Rodeno Associated NSC Marketing Group Inc.	OH, KY, MI, IN, parts of PA, WV, WI MN/ND/SD/WI-West AL, LA NE, IA, MO, KS AL, FL Panhandle FL TX - Southern New England, NY, DE, MD, VA, DC, parts of PA & WV CO/WY/MT/ID-SE/UT/NV-NE OK	dzavelson@bizpvf.com dean@fourmationsales.com hallmarketing@bellsouth.net john@jandjmidwestsales.com jim@bentonandassoc.com jhart@lascofittings.com lperkins@lascofittings.com marelenterprise@gmail.com trodeno@marshallrodeno.com nsc_tulsa@sbcglobal.net	216-595-2888 763-262-4700 228-547-4637 314-422-8419 205-664-1221 772-595-7773 936-443-1096 631-271-1718 303-575-6701 918-627-5340	216-595-2899 763-262-4740 228-832-6666 205-664-1277 772-489-4305 631-427-8558 303-575-6706 918-664-1408
	RIGATION ONLY	Biz Sales Company Fourmation Sales Hall Marketing J&J Midwest Sales Jim Benton & Associates John Hart Larry Perkins Marel Enterprises Marshall-Rodeno Associated NSC Marketing Group Inc. Pro Marketing, Inc.	OH, KY, MI, IN, parts of PA, WV, WI MN/ND/SD/WI-West AL, LA NE, IA, MO, KS AL, FL Panhandle FL TX - Southern New England, NY, DE, MD, VA, DC, parts of PA & WV CO/WY/MT/ID-SE/UT/NV-NE OK NC/SC/TN-East	dzavelson@bizpvf.com dean@fourmationsales.com hallmarketing@bellsouth.net john@jandjmidwestsales.com jim@bentonandassoc.com jhart@lascofittings.com lperkins@lascofittings.com marelenterprise@gmail.com trodeno@marshallrodeno.com nsc_tulsa@sbcglobal.net sales@promarketinginc.net	216-595-2888 763-262-4700 228-547-4637 314-422-8419 205-664-1221 772-595-7773 936-443-1096 631-271-1718 303-575-6701 918-627-5340 864-578-4334	216-595-2899 763-262-4740 228-832-6666 205-664-1277 772-489-4305 631-427-8558 303-575-6706 918-664-1408 864-578-4889
	RIGATION ONLY	Biz Sales Company Fourmation Sales Hall Marketing J&J Midwest Sales Jim Benton & Associates John Hart Larry Perkins Marel Enterprises Marshall-Rodeno Associated NSC Marketing Group Inc.	OH, KY, MI, IN, parts of PA, WV, WI MN/ND/SD/WI-West AL, LA NE, IA, MO, KS AL, FL Panhandle FL TX - Southern New England, NY, DE, MD, VA, DC, parts of PA & WV CO/WY/MT/ID-SE/UT/NV-NE OK	dzavelson@bizpvf.com dean@fourmationsales.com hallmarketing@bellsouth.net john@jandjmidwestsales.com jim@bentonandassoc.com jhart@lascofittings.com lperkins@lascofittings.com marelenterprise@gmail.com trodeno@marshallrodeno.com nsc_tulsa@sbcglobal.net	216-595-2888 763-262-4700 228-547-4637 314-422-8419 205-664-1221 772-595-7773 936-443-1096 631-271-1718 303-575-6701 918-627-5340	216-595-2899 763-262-4740 228-832-6666 205-664-1277 772-489-4305 631-427-8558 303-575-6706 918-664-1408
	RIGATION ONLY	Biz Sales Company Fourmation Sales Hall Marketing J&J Midwest Sales Jim Benton & Associates John Hart Larry Perkins Marel Enterprises Marshall-Rodeno Associated NSC Marketing Group Inc. Pro Marketing, Inc. Sherman Dobbs Southern Marketing Group Spec Management Group	OH, KY, MI, IN, parts of PA, WV, WI MN/ND/SD/WI-West AL, LA NE, IA, MO, KS AL, FL Panhandle FL TX - Southern New England, NY, DE, MD, VA, DC, parts of PA & WV CO/WY/MT/ID-SE/UT/NV-NE OK NC/SC/TN-East TX - Northern MS/TN-West/AR/Bowie CtyTX CA-South	dzavelson@bizpvf.com dean@fourmationsales.com hallmarketing@bellsouth.net john@jandjmidwestsales.com jim@bentonandassoc.com jhart@lascofittings.com lperkins@lascofittings.com marelenterprise@gmail.com trodeno@marshallrodeno.com nsc_tulsa@sbcglobal.net sales@promarketinginc.net sdobbs@lascofittings.com SMG49@bellsouth.net msmarch4@cox.net	216-595-2888 763-262-4700 228-547-4637 314-422-8419 205-664-1221 772-595-7773 936-443-1096 631-271-1718 303-575-6701 918-627-5340 864-578-4334 469-442-8510 901-547-0042 949-481-4225	216-595-2899 763-262-4740 228-832-6666 205-664-1277 772-489-4305 631-427-8558 303-575-6706 918-664-1408 864-578-4889 972-417-9733 901-547-0035 949-487-0990
	RIGATION ONLY	Biz Sales Company Fourmation Sales Hall Marketing J&J Midwest Sales Jim Benton & Associates John Hart Larry Perkins Marel Enterprises Marshall-Rodeno Associated NSC Marketing Group Inc. Pro Marketing, Inc. Sherman Dobbs Southern Marketing Group	OH, KY, MI, IN, parts of PA, WV, WI MN/ND/SD/WI-West AL, LA NE, IA, MO, KS AL, FL Panhandle FL TX - Southern New England, NY, DE, MD, VA, DC, parts of PA & WV CO/WY/MT/ID-SE/UT/NV-NE OK NC/SC/TN-East TX - Northern MS/TN-West/AR/Bowie CtyTX	dzavelson@bizpvf.com dean@fourmationsales.com hallmarketing@bellsouth.net john@jandjmidwestsales.com jim@bentonandassoc.com jhart@lascofittings.com lperkins@lascofittings.com marelenterprise@gmail.com trodeno@marshallrodeno.com nsc_tulsa@sbcglobal.net sales@promarketinginc.net sdobbs@lascofittings.com SMG49@bellsouth.net	216-595-2888 763-262-4700 228-547-4637 314-422-8419 205-664-1221 772-595-7773 936-443-1096 631-271-1718 303-575-6701 918-627-5340 864-578-4334 469-442-8510 901-547-0042	216-595-2899 763-262-4740 228-832-6666 205-664-1277 772-489-4305 631-427-8558 303-575-6706 918-664-1408 864-578-4889 972-417-9733 901-547-0035
	RIGATION ONLY	Biz Sales Company Fourmation Sales Hall Marketing J&J Midwest Sales Jim Benton & Associates John Hart Larry Perkins Marel Enterprises Marshall-Rodeno Associated NSC Marketing Group Inc. Pro Marketing, Inc. Sherman Dobbs Southern Marketing Group Spec Management Group	OH, KY, MI, IN, parts of PA, WV, WI MN/ND/SD/WI-West AL, LA NE, IA, MO, KS AL, FL Panhandle FL TX - Southern New England, NY, DE, MD, VA, DC, parts of PA & WV CO/WY/MT/ID-SE/UT/NV-NE OK NC/SC/TN-East TX - Northern MS/TN-West/AR/Bowie CtyTX CA-South AZ	dzavelson@bizpvf.com dean@fourmationsales.com hallmarketing@bellsouth.net john@jandjmidwestsales.com jim@bentonandassoc.com jhart@lascofittings.com lperkins@lascofittings.com marelenterprise@gmail.com trodeno@marshallrodeno.com nsc_tulsa@sbcglobal.net sales@promarketinginc.net sdobbs@lascofittings.com SMG49@bellsouth.net msmarch4@cox.net	216-595-2888 763-262-4700 228-547-4637 314-422-8419 205-664-1221 772-595-7773 936-443-1096 631-271-1718 303-575-6701 918-627-5340 864-578-4334 469-442-8510 901-547-0042 949-481-4225	216-595-2899 763-262-4740 228-832-6666 205-664-1277 772-489-4305 631-427-8558 303-575-6706 918-664-1408 864-578-4889 972-417-9733 901-547-0035 949-487-0990
	RIGATION ONLY	Biz Sales Company Fourmation Sales Hall Marketing J&J Midwest Sales Jim Benton & Associates John Hart Larry Perkins Marel Enterprises Marshall-Rodeno Associated NSC Marketing Group Inc. Pro Marketing, Inc. Sherman Dobbs Southern Marketing Group Spec Management Group VPC Sales	OH, KY, MI, IN, parts of PA, WV, WI MN/ND/SD/WI-West AL, LA NE, IA, MO, KS AL, FL Panhandle FL TX - Southern New England, NY, DE, MD, VA, DC, parts of PA & WV CO/WY/MT/ID-SE/UT/NV-NE OK NC/SC/TN-East TX - Northern MS/TN-West/AR/Bowie CtyTX CA-South AZ	dzavelson@bizpvf.com dean@fourmationsales.com hallmarketing@bellsouth.net john@jandjmidwestsales.com jim@bentonandassoc.com jhart@lascofittings.com lperkins@lascofittings.com marelenterprise@gmail.com trodeno@marshallrodeno.com nsc_tulsa@sbcglobal.net sales@promarketinginc.net sdobbs@lascofittings.com SMG49@bellsouth.net msmarch4@cox.net	216-595-2888 763-262-4700 228-547-4637 314-422-8419 205-664-1221 772-595-7773 936-443-1096 631-271-1718 303-575-6701 918-627-5340 864-578-4334 469-442-8510 901-547-0042 949-481-4225	216-595-2899 763-262-4740 228-832-6666 205-664-1277 772-489-4305 631-427-8558 303-575-6706 918-664-1408 864-578-4889 972-417-9733 901-547-0035 949-487-0990
	RIGATION ONLY	Biz Sales Company Fourmation Sales Hall Marketing J&J Midwest Sales Jim Benton & Associates John Hart Larry Perkins Marel Enterprises Marshall-Rodeno Associated NSC Marketing Group Inc. Pro Marketing, Inc. Sherman Dobbs Southern Marketing Group Spec Management Group VPC Sales APOLLO FIRE PROTECTION SYSTEM Brian Fiorisi	OH, KY, MI, IN, parts of PA, WV, WI MN/ND/SD/WI-West AL, LA NE, IA, MO, KS AL, FL Panhandle FL TX - Southern New England, NY, DE, MD, VA, DC, parts of PA & WV CO/WY/MT/ID-SE/UT/NV-NE OK NC/SC/TN-East TX - Northern MS/TN-West/AR/Bowie CtyTX CA-South AZ	dzavelson@bizpvf.com dean@fourmationsales.com hallmarketing@bellsouth.net john@jandjmidwestsales.com jim@bentonandassoc.com jhart@lascofittings.com lperkins@lascofittings.com trodeno@marshallrodeno.com nsc_tulsa@sbcglobal.net sales@promarketinginc.net sdobbs@lascofittings.com SMG49@bellsouth.net msmarch4@cox.net chudson@vpcsales.com	216-595-2888 763-262-4700 228-547-4637 314-422-8419 205-664-1221 772-595-7773 936-443-1096 631-271-1718 303-575-6701 918-627-5340 864-578-4334 469-442-8510 901-547-0042 949-481-4225 661-257-3923	216-595-2899 763-262-4740 228-832-6666 205-664-1277 772-489-4305 631-427-8558 303-575-6706 918-664-1408 864-578-4889 972-417-9733 901-547-0035 949-487-0990
	RIGATION ONLY	Biz Sales Company Fourmation Sales Hall Marketing J&J Midwest Sales Jim Benton & Associates John Hart Larry Perkins Marel Enterprises Marshall-Rodeno Associated NSC Marketing Group Inc. Pro Marketing, Inc. Sherman Dobbs Southern Marketing Group Spec Management Group VPC Sales	OH, KY, MI, IN, parts of PA, WV, WI MN/ND/SD/WI-West AL, LA NE, IA, MO, KS AL, FL Panhandle FL TX - Southern New England, NY, DE, MD, VA, DC, parts of PA & WV CO/WY/MT/ID-SE/UT/NV-NE OK NC/SC/TN-East TX - Northern MS/TN-West/AR/Bowie CtyTX CA-South AZ M SOLUTIONS US	dzavelson@bizpvf.com dean@fourmationsales.com hallmarketing@bellsouth.net john@jandjmidwestsales.com jim@bentonandassoc.com jhart@lascofittings.com lperkins@lascofittings.com trodeno@marshallrodeno.com nsc_tulsa@sbcglobal.net sales@promarketinginc.net sdobbs@lascofittings.com SMG49@bellsouth.net msmarch4@cox.net chudson@vpcsales.com	216-595-2888 763-262-4700 228-547-4637 314-422-8419 205-664-1221 772-595-7773 936-443-1096 631-271-1718 303-575-6701 918-627-5340 864-578-4334 469-442-8510 901-547-0042 949-481-4225 661-257-3923	216-595-2899 763-262-4740 228-832-6666 205-664-1277 772-489-4305 631-427-8558 303-575-6706 918-664-1408 864-578-4889 972-417-9733 901-547-0035 949-487-0990 661-257-3928
	IRRIGATION ONLY	Biz Sales Company Fourmation Sales Hall Marketing J&J Midwest Sales Jim Benton & Associates John Hart Larry Perkins Marel Enterprises Marshall-Rodeno Associated NSC Marketing Group Inc. Pro Marketing, Inc. Sherman Dobbs Southern Marketing Group Spec Management Group VPC Sales APOLLO FIRE PROTECTION SYSTEM Brian Fiorisi Barclay Sales Ltd. Conbraco Industries, Canada D & M Mechanical Sales	OH, KY, MI, IN, parts of PA, WV, WI MN/ND/SD/WI-West AL, LA NE, IA, MO, KS AL, FL Panhandle FL TX - Southern New England, NY, DE, MD, VA, DC, parts of PA & WV CO/WY/MT/ID-SE/UT/NV-NE OK NC/SC/TN-East TX - Northern MS/TN-West/AR/Bowie CtyTX CA-South AZ M SOLUTIONS US British Columbia 178 Pennsylvania Ave., Unit 1, Concord, Ontario L4K 4B1 Ontario/East	dzavelson@bizpvf.com dean@fourmationsales.com hallmarketing@bellsouth.net john@jandjmidwestsales.com jim@bentonandassoc.com jhart@lascofittings.com lperkins@lascofittings.com trodeno@marshallrodeno.com nsc_tulsa@sbcglobal.net sales@promarketinginc.net sdobbs@lascofittings.com SMG49@bellsouth.net msmarch4@cox.net chudson@vpcsales.com brian.fiorisi@conbraco.com sales@barclaysales.com conbraco.canada@conbraco.com don@dandmsales.ca	216-595-2888 763-262-4700 228-547-4637 314-422-8419 205-664-1221 772-595-7773 936-443-1096 631-271-1718 303-575-6701 918-627-5340 864-578-4334 469-442-8510 901-547-0042 949-481-4225 661-257-3923 574-524-6675 604-945-1010 905-761-6161 613-384-7084	216-595-2899 763-262-4740 228-832-6666 205-664-1277 772-489-4305 631-427-8558 303-575-6706 918-664-1408 864-578-4889 972-417-9733 901-547-0035 949-487-0990 661-257-3928 604-945-3030 905-761-6666 613-384-3407
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