RETAL HOSE SOLUTIONS

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KEEPING YOUR BUSINESS FLOWING













Stainless Steel Hose Specifications

Construction: Annular / Standard Pitch/ Close Pitch Material: Hose: 321 and 316L Stainless Steel

Braid: 304L Standard, 321 and 316L Stainless Steel Available

ALSO AVAILABLE IN:

- Heavy Duty Bronze
- Super Flex
- Exotic Alloys

(IN.) Working Test Nominal Burst Surst Sur	Nom.	Part	Braid	Nom.	Maximum P	ressure @70°	°F(PSIG)		line Bend	Weight
30x-004	I.D.	Number	Layers	0.D.	Working	Test	Nominal			per Foot (LB.)
1/4" P3-H30xx B30xx-004 1	(IIV.)			(ПЛ.)				- Dyniaiiiic	Statit	(LB.)
P3258 H300x B300x 004 2										0.05
30x-006	1/4"						,	3.15	1.1	0.10
3/8" P3+830x-830x-006 1										0.15
P32SB-H30nc-B30nc-006	2/01		-					E 00	1 50	0.07
30x-008	3/8"							5.08	1.52	0.16 0.25
1/2" P3-H30x-B30x-008 1										0.23
P32SB-H30x-B30x-08	1/2"							5.47	1.75	0.18
30x-010										0.28
P3258-H30x-B30x-010 2		30xx-010	0	0.85						0.12
304" P3-H30x-B30x-012 1 1.12 1.034 1.551 4.136 6.58 2.65 C P32SB-H30x-B30x-012 2 1.19 1.241 1.861 4.964 4.964 C 3.05 C 1.27 43 65	5/8"	P3-H30xx-B30xx-010			1,200		4,800	6.28	2.21	0.27
3/4" P3-H30x-B30x-012 1 1.12 1.034 1.551 4.136 6.58 2.65 0.05 P32SB-H30x-B30x-016 0 1.27 43 65							,			0.42
P325B-H30x-B30x-012 2 1.19 1.241 1.861 4.964 30x-016 0 1.27 43 65	0./4#							0.50	0.05	0.19
1" P-H30x-B30x-016	3/4"							6.58	2.65	0.39
1"										0.59 0.24
P32SB-H30x-B30x-016 2	1"							7.5	3 33	0.24
30x-020	1					,	,	7.0	0.00	0.48
P32SB-H30xx-B30xx-020 2 1.76 720 1,080 2,880 30x-024 0 1.95 28 42 30x-024 1 2.03 557 835 2,228 11.75 5.08 0 1-1/2" P3-H30x-B30x-024 2 2.11 668 1.002 2,672 1 2.33 30x-032 0 2.38 28 42 30x-032 1 2.48 570 855 2,280 12.55 6.27 1 2.32 2" P3-H30x-B30x-032 2 2.58 6.84 1,026 2,736 1 2.55 6.27 1 2.212" 7xx-1SB-040 1 3.33 387 581 1,548 20.00 8.00 1 7xx-2SB-040 2 3.43 619 929 2,477 2 2.47 2 2.47 2 2.47 2 2.48 7xx-1SB-040 1 3.38 316 474 1,264 22.00 9.00 2 2.37 2 2.38 3 38 7 581 1,548 20.00 8.00 1 3.38 316 474 1,264 22.00 9.00 2 2.37 2 2.38 2										0.33
30x-024	1-1/4"	P3-H30xx-B30xx-020	1	1.69	600	900	2,400	10.2	4.1	0.66
1-1/2" P3-H30xx-B30x-024 1 2.03 557 835 2,228 11.75 5.08 0 P32SB-H30xx-B30x-024 2 2.11 668 1.002 2.672 30x-032 0 2.38 28 42							2,880			0.99
P32SB-H30xx-B30xx-024			_							0.51
2" P3-H30x-B30x-032	1-1/2"							11.75	5.08	0.91
2" P33H30xx-B30xx-032 1 2.48 570 855 2,280 12.55 6.27 11 P32SB-H30xx-B30xx-032 2 2.58 6,84 1,026 2,736 7xx-040° 0 3.23 12 18							2,672			1.31 0.64
P32SB-H30xx-B30xc-032	2"						2 280	12 55	6 27	1.27
7xx-040° 0 3.23 12 18 1 2-1/2" 7xx-158-040 1 3.33 387 581 1,548 20.00 8.00 1 7xx-048" 0 3.78 10 15 1 3" 7xx-158-048 1 3.88 316 474 1,264 22.00 9.00 2 7xx-056° 0 4.32 9 14 1 3-1/2" 7xx-158-056 1 4.45 297 445 1,188 24.00 10.00 2 7xx-258-056 2 4.58 475 712 1,900 1 1 1,00 2 1 4.44 1,00 1 1,00 2 1 2 1 4.44 1,00 10.00 2 1 1 4.98 232 348 927 27.00 13.00 2 1 1,00 1 3 3 3 3 3	۷							12.55	0.27	1.90
2-1/2"										1.16
7xx-2SB-040 2 3.43 619 929 2,477 22 7xx-048° 0 3.78 10 15 1 3" 7xx-1SB-048 1 3.88 316 474 1,264 22.00 9.00 2 7xx-056° 0 4.32 9 14 1 3-1/2" 7xx-1SB-056 1 4.45 297 445 1,188 24.00 10.00 2 7xx-2SB-056 2 4.58 475 712 1,900 10.00 2 7xx-064° 0 4.85 8 12 1 4" 7xx-1SB-064 1 4.98 232 348 927 27.00 13.00 2 5" 7xx-1SB-064 2 5.10 371 557 1,485 3 6" 7xx-1SB-080 1 6.03 191 286 764 31.00 18.00 3 6" <td>2-1/2"</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1,548</td> <td>20.00</td> <td>8.00</td> <td>1.86</td>	2-1/2"						1,548	20.00	8.00	1.86
3"		7xx-2SB-040	2	3.43	619	929	2,477			2.56
7xx-2SB-048 2 3.98 506 758 2,022 7xx-056° 0 4.32 9 14 1 3-1/2" 7xx-1SB-056 1 4.45 297 445 1,188 24.00 10.00 2 7xx-2SB-056 2 4.58 475 712 1,900 1 1 1,00 1 1 1,00 2 1 1,00 2 1 1,00 2 1 1,00 1 1,00 2 1 1,00 1 1,00 2 1 1,00 1 1,00 2 1 1,00 2 1 1,00 2 1 1,00 2 1 1,00 2 1 1,00 2 1 1,00 2 1 1,00 2 1 1,00 1 1,00 1 1,00 1 1,00 1 1,00 1 1,00 1 1,00 1 1,00 1										1.21
7xx-056° 0 4.32 9 14 1 3-1/2" 7xx-1SB-056 1 4.45 297 445 1,188 24.00 10.00 22 7xx-2SB-056 2 4.58 475 712 1,900 7xx-064° 0 4.85 8 12 1 4" 7xx-1SB-064 1 4.98 232 348 927 27.00 13.00 22 7xx-2SB-064 2 5.10 371 557 1,485 33 7xx-080° 0 5.90 6 9 2 5" 7xx-1SB-080 1 6.03 191 286 764 31.00 18.00 33 7xx-2SB-080 2 6.15 306 458 1,222 55 7xx-1SB-080 1 7.10 165 247 660 36.00 19.00 47 6" 7xx-1SB-096 1 7.10 165 247 660 36.00 19.00 47 7xx-2SB-096 2 7.33 264 396 1,056 66 8" 7xx-1SB-128 1 9.19 234 350 934 40.00 20.00 99 7xx-1SB-128 2 9.28 374 561 1,495 7xx-160° 0 11.18 5 8 8 5 10" 7xx-1SB-160 1 11.32 230 344 918 50.00 25.00 11 7xx-1SB-160 1 11.32 230 344 918 50.00 25.00 11 7xx-1SB-192 1 13.37 161 241 643 60.00 30.00 14 7xx-2SB-192 2 13.50 257 386 1,029	3"						,	22.00	9.00	2.00
3-1/2" 7xx-1SB-056 1 4.45 297 445 1,188 24.00 10.00 2 7xx-2SB-056 2 4.58 475 712 1,900 3 7xx-064° 0 4.85 8 12 1 4" 7xx-1SB-064 1 4.98 232 348 927 27.00 13.00 2 5" 7xx-2SB-064 2 5.10 371 557 1,485 3 7xx-2SB-080° 0 5.90 6 9 2 5" 7xx-1SB-080 1 6.03 191 286 764 31.00 18.00 3 7xx-2SB-080 2 6.15 306 458 1,222 5 6" 7xx-1SB-096 1 7.10 165 247 660 36.00 19.00 4 6" 7xx-128° 0 9.09 6 9 5 8" 7xx-128° 0 9.09 6 9 8" 7xx-128° 0 9.09 6 9 10" 7xx-25B-128 2 9.28 374 561 1,495 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2.80</td>										2.80
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7xx-064° 0 4.85 8 12 1 4" 7xx-1SB-064 1 4.98 232 348 927 27.00 13.00 22 7xx-2SB-064 2 5.10 371 557 1,485 3 7xx-080° 0 5.90 6 9 2 5" 7xx-1SB-080 1 6.03 191 286 764 31.00 18.00 3 7xx-2SB-080 2 6.15 306 458 1,222 5 7xx-1SB-096° 0 6.87 5 8 3 6" 7xx-1SB-096 1 7.10 165 247 660 36.00 19.00 4 8" 7xx-128° 0 9.09 6 9 5 8" 7xx-1SB-128 1 9.19 234 350 934 40.00 20.00 9 7xx-15B-160° 0	3-1/2"							24.00	10.00	2.61
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7xx-2SB-064 2 5.10 371 557 1,485 33 7xx-080° 0 5.90 6 9 22 5" 7xx-1SB-080 1 6.03 191 286 764 31.00 18.00 33 7xx-2SB-080 2 6.15 306 458 1,222 5 7xx-1SB-096° 0 6.87 5 8 36 6" 7xx-1SB-096 1 7.10 165 247 660 36.00 19.00 4 8" 7xx-128° 0 9.09 6 9 5 5 8" 7xx-1SB-128 1 9.19 234 350 934 40.00 20.00 9 9 7xx-160° 0 11.18 5 8 10 7xx-1SB-160 1 11.32 230 344 918 50.00 25.00 11 12 12 7xx-18B-192										1.69
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5"										3.68
7xx-2SB-080 2 6.15 306 458 1,222 5 7xx-096° 0 6.87 5 8 33 6" 7xx-1SB-096 1 7.10 165 247 660 36.00 19.00 4 7xx-2SB-096 2 7.33 264 396 1,056 6 6 8" 7xx-128° 0 9.09 6 9 5 7 8 5 5 8 5 8 5 5 8 5 5 8	5"							31.00	18 00	2.50 3.75
7xx-096° 0 6.87 5 8 3 6" 7xx-1SB-096 1 7.10 165 247 660 36.00 19.00 4 7xx-2SB-096 2 7.33 264 396 1,056 6 6 8" 7xx-128° 0 9.09 6 9 5 5 8 5 7 7xx-1SB-128 1 9.19 234 350 934 40.00 20.00 9 9 9 9 9 9 9 5 5 8 10" 7xx-1SB-128 2 9.28 374 561 1,495 12 12 11 13.32 230 344 918 50.00 25.00 12 12 7xx-2SB-160 2 11.45 367 551 1,469 12 12 7xx-192° 0 13.23 3 5 9 12 12 7xx-193° 12 12 13.37 161 241 643 60.00 30.00 <td< td=""><td>J</td><td></td><td></td><td></td><td></td><td></td><td></td><td>31.00</td><td>10.00</td><td>5.00</td></td<>	J							31.00	10.00	5.00
6"		7xx-096°	0		5	8				3.47
7xx-128° 0 9.09 6 9 8" 7xx-1SB-128 1 9.19 234 350 934 40.00 20.00 93 7xx-2SB-128 2 9.28 374 561 1,495 7xx-160° 0 11.18 5 8 10" 7xx-1SB-160 1 11.32 230 344 918 50.00 25.00 11.7xx-2SB-160 2 11.45 367 551 1,469 7xx-192° 0 13.23 3 5 12" 7xx-1SB-192 1 13.37 161 241 643 60.00 30.00 12.7xx-2SB-192 2 13.50 257 386 1,029 7xx-2SB-192 2 13.50 257 386 1,029 7xx-224° 0 14.70 3 5	6"	7xx-1SB-096		7.10	165	247		36.00	19.00	4.75
8"		7xx-2SB-096	2	7.33	264	396	1,056			6.04
7xx-2SB-128 2 9.28 374 561 1,495 7xx-160° 0 11.18 5 8 10" 7xx-1SB-160 1 11.32 230 344 918 50.00 25.00 12 7xx-2SB-160 2 11.45 367 551 1,469 7xx-192° 0 13.23 3 5 12" 7xx-1SB-192 1 13.37 161 241 643 60.00 30.00 14 7xx-2SB-192 2 13.50 257 386 1,029 7xx-224° 0 14.70 3 5										5.56
7xx-160° 0 11.18 5 8 66 7xx-15B-160 1 11.32 230 344 918 50.00 25.00 12 7xx-2SB-160 2 11.45 367 551 1,469 12 7xx-192° 0 13.23 3 5 99 12" 7xx-1SB-192 1 13.37 161 241 643 60.00 30.00 14 7xx-2SB-192 2 13.50 257 386 1,029 20 7xx-224° 0 14.70 3 5 12	8"							40.00	20.00	9.44
10"										13.36
7xx-2SB-160 2 11.45 367 551 1,469 19 7xx-192° 0 13.23 3 5 9 12" 7xx-1SB-192 1 13.37 161 241 643 60.00 30.00 14 7xx-2SB-192 2 13.50 257 386 1,029 20 7xx-224° 0 14.70 3 5 12	10"							50.00	25.00	6.80 12.90
7xx-192° 0 13.23 3 5 9 12" 7xx-1SB-192 1 13.37 161 241 643 60.00 30.00 14 7xx-2SB-192 2 13.50 257 386 1,029 20 7xx-224° 0 14.70 3 5 12	10							30.00	23.00	19.00
12" 7xx-1SB-192 1 13.37 161 241 643 60.00 30.00 1470 257 386 1,029 7xx-224° 0 14.70 3 5 12										9.02
7xx-2SB-192 2 13.50 257 386 1,029 29 7xx-224° 0 14.70 3 5 14	12"		1		161			60.00	30.00	14.83
			2				1,029			20.64
14II 7 ₀₀ 1CD 224 1 14.04 110 170 470 70.00 20.00	1 4 11							70.00	25.00	14.10
	14"		2					70.00	35.00	21.70 29.30

Pressures listed have been reduced to account for welding as the method of attachment. Other methods such as brazing, neck-down designs or crimping will result in different pressures. Contact the factory for details.

c. For XX Specify 21 for 321 Stainless Steel or 16 for 316L Stainless Steel.













b. Actual length may vary $\pm 20\%$.

Fitting Options & Accessories



Male Pipe Nipple

Alloys: 304 and 316 Stainless Steel, Carbon Steel

Sizes: 1/8" thru 8"
Schedules: 40 and 80



Hex Males

Alloys: 304 and 316 Stainless Steel, Carbon Steel, Brass

Sizes: 1/4" thru 4"



Female Union

Alloys: 304 and 316 Stainless Steel, Carbon Steel, Malleable Iron, Brass

Sizes: 1/4" thru 4"
Class: 125#, 150#, 300#



Female Coupling

Alloys: 304 and 316 Stainless Steel,

Carbon Steel Sizes: 1/4" thru 4" Class: 150#, 300#



Fixed Flange

Alloys: 304 and 316 Stainless Steel,

Carbon Steel Sizes: 1/2" thru 12" Class: 150#, 300#



Floating Flange

Alloys: 304 and 316 Stainless Steel,

Carbon Steel Sizes: 1/2" thru 12" Class: 150#, 300#



Teflon Lined Metal Hose

Alloys: 304 and 316 Stainless Steel

Sizes: 1" thru 6"



TTMA (Tank Truck) Flange

Alloys: 304 and 316 Stainless Steel, Carbon Steel, Aluminum

Sizes: 3" and 4"



Sanitary Tri-Clamp

Alloys: 304 and 316 Stainless Steel

Sizes: 1" thru 3"













Fitting Options & Accessories



37 Degree JIC

Alloys: 304 and 316 Stainless Steel, Carbon Steel

Sizes: 1/4" thru 2"



Cam & Grove Female

Alloys: 304 and 316 Stainless Steel, Carbon Steel, Brass, Aluminum

Sizes: 1/2" thru 8"



Cam & Grove Male

Alloys: 304 and 316 Stainless Steel, Carbon Steel, Brass, Aluminum

Sizes: 1/2" thru 8"



Groove End

Alloys: 304 and 316 Stainless Steel, Carbon Steel

Sizes: 1" thru 8"
Schedules: 40 and 80



Tube Ends

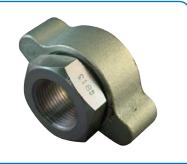
Alloys: 304 and 316 Stainless Steel,

Carbon Steel
Sizes: 1/8" thru 8"
Wall Thickness: Multiple



Copper Sweat Ends

Alloys: Copper Sizes: 1/2" thru 3"



Female Ground Joint

Alloys: Malleable Iron Sizes: 1/2" thru 4"



Fire Sleeve

Excellent way to protect handler from burns, withstands repeated exposure to molten steel, aluminum and glass, also provides effective insulation to prevent heat loss.



Armor Guard

Fantastic way to prolong the life of hose lines that are exposed to rugged operating conditions. It will distribute bending radii to avoid kinking and protect hose from abrasion and deep cuts.













Technical Information

Selection Criteria

The selection of flexible metal hose for a particular application is influenced by six primary considerations:

- **Temperature**
- Pressure
- Media
- Size
- **End Fittings**
- Motion

To make the best choice for a specific application, consider all the relevant operating factors against the properties of the various types of flexible metal hoses.

Temperature

The physical properties of any material varies with temperature. Limits for operating temperature are affected by the working pressure, the type of media being conveyed and the nature of the application. By careful selection of material, it is possible to provide flexible metal hose for a wide range of operating temperatures. The choice of hose type, metal alloy, end fitting and method of fitting attachment determines the temperature limit.

Pressure

The nominal pressure ratings of flexible metal hose varies according to type, material and size. Specific pressure ratings for each type of flexible metal hose are found in each section of this catalog. Under actual working conditions, pressure is affected by many other factors such as temperature, pulsating conditions and bending stresses.

Media

The type of media being conveyed is an important consideration in the selection process. Metal hose is subject to corrosion by both the material flowing through it and the outside environment. For almost all applications, a metal hose can be selected that is resistant to the intended media. Since metal hose is a thin-walled product, it will not have the same total life as heavier walled tube or pipe of the same material.

For Corrosion Resistance of Materials to different environment, refer to a chart posted on our web site:

http://www.penflex.com/tools-corrosion-chart.php.

Size

The size of flexible metal hose is specified by the nominal diameter. The existing piping will normally dictate the size of the metal hose for a particular application. However, flow rate, velocity and pressure drop considerations may also influence the selection of the hose size.

End Fittings

The use of flexible metal hose is complimented by the extensive range of end fittings that are available. Such end fittings may be male or female pipe threads, unions, flanges, flared tube fittings or other specially designed connectors. End fittings are attached by welding, silver brazing, soldering and occasionally by mechanical means, depending on the type of hose and the alloy. For further detail on the appropriate type of end fitting please consult your fabricating distributor.

Motion

Flexible metal hose is generally used in four types of applications.

- To correct problems of misalignment.
- To provide flexibility in manual handling operations.
- To compensate for regular or constant movement.
- To absorb vibration.

In all types, careful hose selection, design of the assembly and installation are important for optimal service life. The flexibility of a hose is determined by its mechanical design and the inherent flexibility of its material.













Temperature

Temperature Adjustment Factors

In general, the strength and therefore the pressure rating of metal hose decreases as the temperature increases. Thus, as the operating temperature of a metal hose assembly increases, the maximum allowable working pressure of the assembly decreases. The pressure ratings shown in the specifications charts for corrugated and interlocked hose are valid at 70°F. Elevated service temperatures will decrease these pressure ratings by the factors shown in the following chart for the alloy used in the braid wire. What also must be considered is the maximum working temperature of the end fittings, of the hose and their method of attachment.

For example to calculate the maximum working pressure for:

- 3/4" ID, 321 stainless steel corrugated hose
- with single-braided, 304L braid
- at 800°F.

From the corrugated metal hose specification table, the maximum working pressure at 70°F is 792 PSIG. Multiply 792 PSIG by 0.73. The maximum working pressure at 800°F is 578 PSIG.

Temperature Adjustment Factor Based on Braid Alloy

Temperature (°F)	304/304L Stainless Steel	316 L Stainless Steel	321 Stainless Steel	Carbon Steel	Monel	Bronze
70	1.00	1.00	1.00	1.00	1.00	1.00
150	.95	.93	.97	.99	.93	.92
200	.91	.89	.94	.97	.90	.89
250	.88	.86	.92	.96	.87	.86
300	.85	.83	.88	.93	.83	.83
350	.81	.81	.86	.91	.82	.81
400	.78	.78	.83	.87	.79	.78
450	.77	.78	.81	.86	.77	.75
500	.77	.77	.78	.81	.73	
600	.76	.76	.77	.74	.72	
700	.74	.76	.76	.66	.71	
800	.73	.75	.68	.52	.70	
900	.68	.74	.62			
1,000	.60	.73	.60			
1,100	.58	.67	.58			
1,200	.53	.61	.53			
1,300	.44	.55	.46			
1,400	.35	.48	.42			
1,500	.26	.39	.37			

Saturated Steam Pressure To Temperature (PSIG)

Saturated Steam (PSIG)	Temp (°F)	Saturated Steam (PSIG)	Temp (°F)	Saturated Steam (PSIG)	Temp (°F)
0	212	150	366	450	460
10	238	175	377	475	465
20	259	200	388	500	470
30	274	225	397	550	480
40	287	250	406	600	489
50	298	275	414	700	505
60	307	300	422	800	520
75	320	325	429	900	534
80	324	350	436	1000	546
90	331	375	442	1250	574
100	338	400	448	1500	606
125	353	425	454	2500	669

Saturated Steam Pressure To Temperature (Hg)

Saturated Steam Vacuum (in. of Hg)	Temp (°F)
	0
29.84	20
29.74	32
29.67	40
29.39	60
28.89	80
27.99	100
26.48	120
24.04	140
20.27	160
15.20	180
6.46	200











