

# Smart-Hose™

FLUID SYSTEMS

ENGINEERING DATA

## Smart-Hose Pigtails

The World's Safest Pigtail Assembly

Open Flow (Valves Open)



Coupling Ejection (Valves Seated)



A Flexible "Safety System" for use in the transfer of high pressure gases and liquids!

Protect against the hazardous effects due to hose rupture, due tank pull away.  
Hose Whipping • Loss of Product • Personal Injury • Property Damage

Smart-Hose shuts off the flow of product in both directions upon hose and coupling separation, hose separation and hose stretching.

Failure of flexible pigtails may be caused by fatigue, poor coupling attachment, abuse or age. This potential for hose failure creates an unsafe working environment. Foremost among these failures is hose whipping as the pressurized gas or liquid is discharged at high velocity. In the case of high pressure cylinders, this rapid discharge is sufficient to cause the cylinder to fall over or be propelled about. Not only can equipment be damaged, but severe injury or death can result from being struck by the whipping pigtail.

Finally, the continuous discharge of toxic, flammable or otherwise hazardous gas or liquid may lead to major consequences. Smart-Hose with its Lifeline ends is designed to significantly reduce the unsafe potential of this type of accident!

### Hose Data Sizes Stocked - "Same Day Shipment"

<b>Cover</b>	Clear abrasion resistant cover or stainless steel armor on request
<b>Reinforcement</b>	Stainless Steel braided
<b>Tube</b>	Teflon® PTFE for normal applications Tefzel® tube for applications requiring low effusion rates
<b>Branding</b>	Lifeline Date, Max. WP
<b>Maintenance</b>	See Smart-Hose Proper Use, Care, and Maintenance, Booklet Form #1999-1

Hose ID	Length	WP psi	End Connection
1/4"	12,24,36,48,60"	3000	Brass - Female Pipe Thread
1/4"	24,36,48,60"	3500	Stainless Steel or Brass - Female Pipe Thread
1/4"	24,36,48"	4500	Stainless Steel & Admiralty Brass* - Female Pipe Thread
1/4"	24,36,48,60"	6000	Stainless Steel & Monel* - Female Pipe Thread
1/2"	Made to order		Stainless Steel Female Pipe Thread
3/4"	Made to order		Stainless Steel Female Pipe Thread
1"	Made to order		Stainless Steel Female Pipe Thread

(Part # on back)

\*Finished hose assemblies are made to order

Other hose types, sizes and lengths are available. To obtain information on any other types of hose product, contact Smart-Hose.

Rev 01/02

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Hose ID	Length (inches)	WP (psi)	Hose Mtrl.	End Fitting	Mtrl	Part Number	Service
1/4	12	3000	PTFE	FNPT	Brass	P01 - 002 - 017 - 0012 - 0 - 00 - 00	O2
1/4	24	3000	PTFE	FNPT	Brass	P01 - 002 - 017 - 0024 - 0 - 00 - 00	O2
1/4	36	3000	PTFE	FNPT	Brass	P01 - 002 - 017 - 0036 - 0 - 00 - 00	O2
1/4	48	3000	PTFE	FNPT	Brass	P01 - 002 - 017 - 0048 - 0 - 00 - 00	O2
1/4	60	3000	PTFE	FNPT	Brass	P01 - 002 - 017 - 0060 - 0 - 00 - 00	O2
1/4	24	3500	PTFE	FNPT	Brass	P02 - 002 - 017 - 0024 - 0 - 00 - 00	O2
1/4	36	3500	PTFE	FNPT	Brass	P02 - 002 - 017 - 0036 - 0 - 00 - 00	O2
1/4	48	3500	PTFE	FNPT	Brass	P02 - 002 - 017 - 0048 - 0 - 00 - 00	O2
1/4	60	3500	PTFE	FNPT	Brass	P02 - 002 - 017 - 0060 - 0 - 00 - 00	O2
1/4	24	4500	PTFE	FNPT	Naval Brass	P04 - 002 - 011 - 0024 - 0 - 00 - 00	O2
1/4	36	4500	PTFE	FNPT	Naval Brass	P04 - 002 - 011 - 0036 - 0 - 00 - 00	O2
1/4	48	4500	PTFE	FNPT	Naval Brass	P04 - 002 - 011 - 0048 - 0 - 00 - 00	O2
1/4	24	4500	PTFE	FNPT	304-SS	P04 - 002 - 011 - 0024 - 0 - 00 - 00	O2
1/4	36	4500	PTFE	FNPT	304-SS	P04 - 002 - 011 - 0036 - 0 - 00 - 00	O2
1/4	48	4500	PTFE	FNPT	304-SS	P04 - 002 - 011 - 0048 - 0 - 00 - 00	O2
1/4	24	6000	PTFE	FNPT	304-SS	P06 - 002 - 017 - 0024 - 0 - 00 - 00	O2
1/4	36	6000	PTFE	FNPT	304-SS	P06 - 002 - 017 - 0036 - 0 - 00 - 00	O2
1/4	48	6000	PTFE	FNPT	304-SS	P06 - 002 - 017 - 0048 - 0 - 00 - 00	O2
1/4	60	6000	PTFE	FNPT	304-SS	P06 - 002 - 017 - 0060 - 0 - 00 - 00	O2
1/4	24	6000	PTFE	FNPT	Monel	P06 - 002 - 013 - 0024 - 0 - 00 - 00	CL
1/4	36	6000	PTFE	FNPT	Monel	P06 - 002 - 013 - 0036 - 0 - 00 - 00	CL
1/4	48	6000	PTFE	FNPT	Monel	P06 - 002 - 013 - 0048 - 0 - 00 - 00	CL
1/4	60	6000	PTFE	FNPT	Monel	P06 - 002 - 013 - 0060 - 0 - 00 - 00	CL
1/4	12	3000	Tefzel	FNPT	Brass	P50 - 002 - 017 - 0012 - 0 - 00 - 00	O2
1/4	24	3000	Tefzel	FNPT	Brass	P50 - 002 - 017 - 0024 - 0 - 00 - 00	O2
1/4	36	3000	Tefzel	FNPT	Brass	P50 - 002 - 017 - 0036 - 0 - 00 - 00	O2
1/4	48	3000	Tefzel	FNPT	Brass	P50 - 002 - 017 - 0048 - 0 - 00 - 00	O2
1/4	60	3000	Tefzel	FNPT	Brass	P50 - 002 - 017 - 0060 - 0 - 00 - 00	O2
1/4	24	3500	Tefzel	FNPT	Brass	P51 - 002 - 017 - 0024 - 0 - 00 - 00	O2
1/4	36	3500	Tefzel	FNPT	Brass	P51 - 002 - 017 - 0036 - 0 - 00 - 00	O2
1/4	48	3500	Tefzel	FNPT	Brass	P51 - 002 - 017 - 0048 - 0 - 00 - 00	O2
1/4	60	3500	Tefzel	FNPT	Brass	P51 - 002 - 017 - 0060 - 0 - 00 - 00	O2
1/4	24	4500	Tefzel	FNPT	Naval Brass	P53 - 002 - 011 - 0024 - 0 - 00 - 00	O2
1/4	36	4500	Tefzel	FNPT	Naval Brass	P53 - 002 - 011 - 0036 - 0 - 00 - 00	O2
1/4	48	4500	Tefzel	FNPT	Naval Brass	P53 - 002 - 011 - 0048 - 0 - 00 - 00	O2
1/4	24	4500	Tefzel	FNPT	304-SS	P53 - 002 - 011 - 0024 - 0 - 00 - 00	O2
1/4	36	4500	Tefzel	FNPT	304-SS	P53 - 002 - 011 - 0036 - 0 - 00 - 00	O2
1/4	48	4500	Tefzel	FNPT	304-SS	P53 - 002 - 011 - 0048 - 0 - 00 - 00	O2
1/4	24	6000	Tefzel	FNPT	304-SS	P56 - 002 - 017 - 0024 - 0 - 00 - 00	O2
1/4	36	6000	Tefzel	FNPT	304-SS	P56 - 002 - 017 - 0036 - 0 - 00 - 00	O2
1/4	48	6000	Tefzel	FNPT	304-SS	P56 - 002 - 017 - 0048 - 0 - 00 - 00	O2
1/4	60	6000	Tefzel	FNPT	304-SS	P56 - 002 - 017 - 0060 - 0 - 00 - 00	O2
1/4	24	6000	Tefzel	FNPT	Monel	P56 - 002 - 013 - 0024 - 0 - 00 - 00	CL
1/4	36	6000	Tefzel	FNPT	Monel	P56 - 002 - 013 - 0036 - 0 - 00 - 00	CL
1/4	48	6000	Tefzel	FNPT	Monel	P56 - 002 - 013 - 0048 - 0 - 00 - 00	CL
1/4	60	6000	Tefzel	FNPT	Monel	P56 - 002 - 013 - 0060 - 0 - 00 - 00	CL