

LIFEGUARD[™] SAFETY SYSTEM

HYDROGEN HOSES | CRYOGENIC LIQUID CYLINDER HOSES | METAL PIGTAILS | LIFEGUARD COMPRESSED GAS HOSES | CARBON DIOXIDE BULK LIQUID TRANSFER HOSES

LifeGuard[™] 1/2" ETFE (TEFZEL) Bundle/Trailer Hoses The Next Generation in Safety-Hoses!!!



WHAT IS LIFEGUARD[™] ?

A Flexible "Safety System" for use in the transfer of high pressure gases and liquids. Protect against the hazardous effects of high pressure hose rupture, pull-apart and failure.

The LifeGuard[™] design utilizes the unique, patent pending design that eliminates the potential for disaster through the use of an internal compression spring device connected to specially designed, normally unseated valves located on each end of the spring. In the event of hose separation, stretching to the point of an unsafe condition or coupling-to-hose separation, the valves are released and instantly seat stopping the flow in both directions.



APPLICATION: ETFE TEFZEL[®] CORE, STAINLESS STEEL BRAID - Designed specifically for the ultra-hazardous applications of high-pressure hydrogen gas transfer in tube trailers, facilities and cylinders. Whether you prefer metallic or Tefzel[®], the LifeGuard hydrogen hose is the Safe-Choice. LifeGuard Tefzel[®] ETFE Lined Stainless Steel Braided Hoses- LifeGuard's Tefzel[®] ETFE inner core has a permeation rate that is approximately 77% lower than PTFE inner core pigtails. This makes it an ideal choice for helium and hydrogen.

CONSTRUCTION: All LifeGuard ETFE double braided compressed gas hoses come in female NPT or BSP threads.

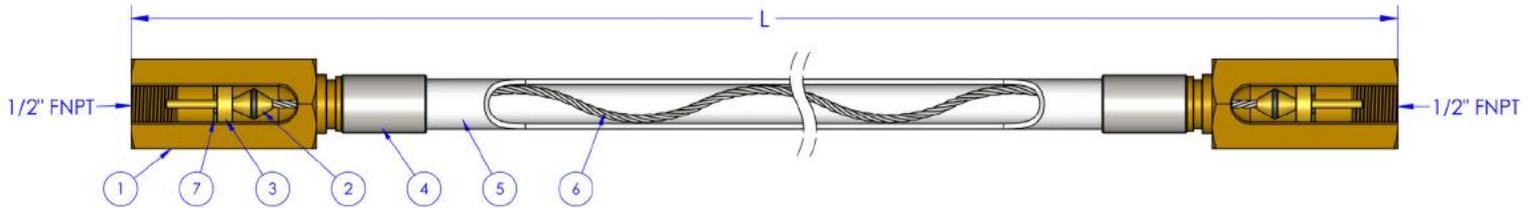
MAXIMUM WORKING PRESSURE:
1/2" ID-up to 3500 PSI at 70 F.

Corrugated VS. Smooth Bore Inner Core: One of the most common causes of metal hose failure is "high velocity" gas flow. Because of the ribs on the corrugated type hose, high velocity flow (above recommended levels) can damage or crack a metal type hose. To avoid hose damage, it is important to know the velocity of gas flowing through the hose. We have provided charts that will help you determine velocity flow levels. If you find that a particular application requires a higher than recommended gas flow velocity, in this case we would suggest that you switch to a smooth bore PTFE or ETFE type hose (dependent on the gas). Smooth bore hose are designed to handle higher velocity gas flow requirements.

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LifeGuard ETFE (Tefzel) Bundle/Trailer Filling Hoses – Brass Fittings



ITEM NO.	PART NO.	DESCRIPTION	MATERIAL
1	207 521 112	END FITTING 1/2" BARB, 1/2" FNPT THREAD	BRASS (HEAT TREATED)
2	207 521 902	PLUNGER VALVE 1/2"	BRASS (HEAT TREATED)
3	207 521 901	RETAINING BLOCK 1/2"	BRASS (HEAT TREATED)
4	402308	CRIMP FERRULE	316L, 304L STAINLESS STEEL
5	T1772-08	HIGH PRESSURE ETFE HOSE 1/2"	ETFE, 304L BRAID
6	207 529 999	INTERNAL CABLE	STAINLESS STEEL
7	207 571 911	SNAP RING 1/2"	STAINLESS STEEL

NOTES:

1. Material shall be from solid bar stock.
2. Brass material shall be stress relieved prior to fabrication.
** Copper content not to exceed 65%.
3. The lengths are measured in inches and replaces the xx in part no.
4. Manufactured according to ISO EN 14 113

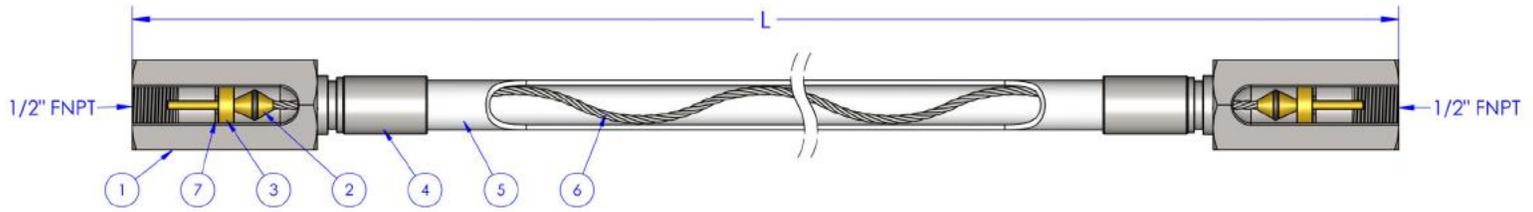
- Maximum working pressure 250 bar, 3650 psi
- Test pressure 375 bar, 5475 psi
- Safety factor: 4
- Degreased for oxygen use

Part Number:	LIFEGUARD SAFETY HOSES, ETFE (TEZEL) 3650 PSI BRASS FITTINGS
TFS1-004-17-36-S	36" x 1/2" NPT, TEZEL LINED, 3650 PSI-BR ENDS
TFS1-004-17-40-S	40" x 1/2" NPT, TEZEL LINED, 3650 PSI-BR ENDS
TFS1-004-17-42-S	42" x 1/2" NPT, TEZEL LINED, 3650 PSI-BR ENDS
TFS1-004-17-48-S	48" x 1/2" NPT, TEZEL LINED, 3650 PSI-BR ENDS
TFS1-004-17-60-S	60" x 1/2" NPT, TEZEL LINED, 3650 PSI-BR ENDS
TFS1-004-17-72-S	72" x 1/2" NPT, TEZEL LINED, 3650 PSI-BR ENDS
TFS1-004-17-84-S	84" x 1/2" NPT, TEZEL LINED, 3650 PSI-BR ENDS
TFS1-004-17-96-S	96" x 1/2" NPT, TEZEL LINED, 3650 PSI-BR ENDS
TFS1-004-17-120-S	120" x 1/2" NPT, TEZEL LINED, 3650 PSI-BR ENDS
	S= FIXED SAFETY LOOPS/ALL HOSES O2 CLEANED AND BAGGED
	OTHER LENGTHS BY REQUEST

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LifeGuard ETFE (Tefzel) Bundle/Trailer Filling Hoses – Stainless-Steel Fittings



ITEM NO.	PART NO.	DESCRIPTION	MATERIAL
1	207 521 112	END FITTING 1/2" BARB, 1/2" FNPT THREAD	316L STAINLESS STEEL
2	207 521 902	PLUNGER VALVE 1/2"	BRASS (HEAT TREATED)
3	207 521 901	RETAINING BLOCK 1/2"	BRASS (HEAT TREATED)
4	402308	CRIMP FERRULE	316L, 304L STAINLESS STEEL
5	T1772-08	HIGH PRESSURE ETFE HOSE 1/2"	ETFE, 304L BRAID
6	207 529 999	INTERNAL CABLE	STAINLESS STEEL
7	207 571 911	SNAP RING 1/2"	STAINLESS STEEL

NOTES:

1. Material shall be from solid bar stock.
2. Brass material shall be stress relieved prior to fabrication.
3. The lengths are measured in inches and replaces the xx in part no.
4. Manufactured according to ISO EN 14 113

- Maximum working pressure 250 bar, 3650 psi
- Test pressure 375 bar, 5475 psi
- Safety factor: 4
- Degreased for oxygen use

Part Number:	LIFEGUARD SAFETY HOSES, ETFE (TEZEL) 3650 PSI STAINLESS-STEEL FITTINGS
TFS1-004-11-36-S	36" x 1/2" NPT, TEZEL LINED, 3650 PSI-SS ENDS
TFS1-004-11-40-S	40" x 1/2" NPT, TEZEL LINED, 3650 PSI-SS ENDS
TFS1-004-11-42-S	42" x 1/2" NPT, TEZEL LINED, 3650 PSI-SS ENDS
TFS1-004-11-48-S	48" x 1/2" NPT, TEZEL LINED, 3650 PSI-SS ENDS
TFS1-004-11-60-S	60" x 1/2" NPT, TEZEL LINED, 3650 PSI-SS ENDS
TFS1-004-11-72-S	72" x 1/2" NPT, TEZEL LINED, 3650 PSI-SS ENDS
TFS1-004-11-84-S	84" x 1/2" NPT, TEZEL LINED, 3650 PSI-SS ENDS
TFS1-004-11-96-S	96" x 1/2" NPT, TEZEL LINED, 3650 PSI-SS ENDS
TFS1-004-11-120-S	120" x 1/2" NPT, TEZEL LINED, 3650 PSI-SS ENDS
	S= FIXED SAFETY LOOPS/ALL HOSES O2 CLEANED AND BAGGED
	OTHER LENGTHS BY REQUEST