

VBS PolyFlex™



**Vacuum Insulated
Recirculating Refrigerant Line**

PolyFlex™ VACUUM INSULATED REFRIGERANT LINE

Engineered
to Last!

Relocate Your Cryo-Compressor and Increase Performance !

The newest addition to the growing VBS family of vacuum insulated cryogenic transfer lines is PolyFlex. Designed to replace common foam insulated lines used to connect cryo-compressors to Meissners and Cold Traps.

For years companies have been limited to installing their cryo-compressors and PFC's very close to the vacuum process tool - typically 8' to 15' maximum, due to the high heat leak of the foam insulated connecting refrigerant line. Greater distances required purchasing larger compressors and/or installing expensive and bulky rigid urethane foam pipe. Even with these expenditures the distance limitation is still around 40 feet with potential loss of performance due to the increased heat leak.

Increase Distance with no Efficiency Loss

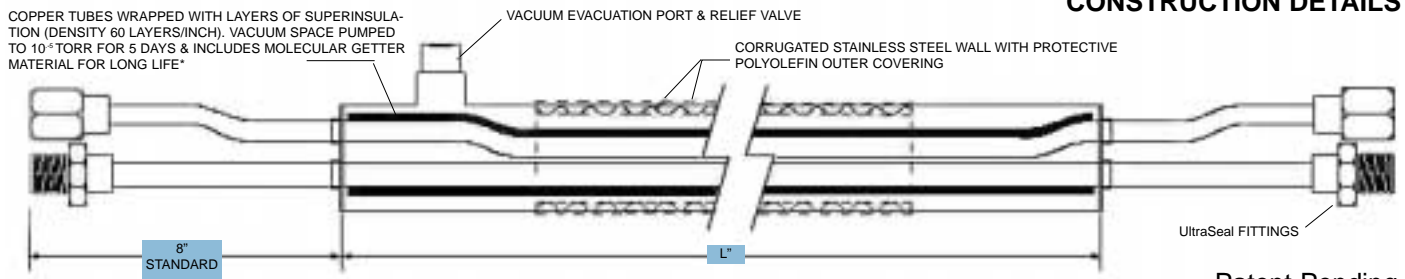
PolyFlex lines eliminate all the old restrictions and rules of distance between compressors and process tools as this unique product has 24 times lower heat loss than the basic foam lines supplied by the manufacturers of compressors. This means there is no practical limit on the distance between your compressor and your vacuum tool with PolyFlex. When operating with extremely cold refrigerants, PolyFlex lines are warm to the touch.

Introducing PolyFlex to your facility gives you the following advantages:

- Free-up expensive production floor space for more useful purposes
- Superior vacuum insulation eliminates condensation and frost build-up
- Improve performance of your Meissner and Cold Trap with colder temperatures
- Eliminate particle contamination surrounding and coming from the foam insulation
- No need to purchase larger and more expensive compressor models to overcome foam line loss

Easy to Install

PolyFlex is extremely lightweight, compact in size, bendable and very easy to install. No brazing or special tools required as it comes with Parker UltraSeal® connection fittings typically used on refrigerant lines. Custom end configurations available upon request. Standard lengths of 10' & 20' available from stock with custom lengths upon request. See model and part number ordering information below.



CONSTRUCTION DETAILS

Patent Pending

Specifications

Model/PN (specify 'L' in feet)	PF 250-L ⁽¹⁾	PF 312-L ⁽²⁾	PF 375-L ⁽³⁾
Inner Copper Tubes O.D.	1/4" & 3/8"	5/16" & 1/2"	3/8" & 5/8"
Outside Diameter	1.5" (38 mm)	1.5" (38 mm)	2.5" (63 mm)
Minimum Bend Radius	18" (450 mm)	18" (450 mm)	32" (813 mm)
Maximum Length (single line)	60' (18.3 meters)	60' (18.3 meters)	50' (15.2 meters)
Heat Leak	1 Btu/ft (1 watt/m)	1 Btu/ft (1 watt/m)	2 Btu/ft (1.8 watt/m)
Weight	1.1 lb./ft (1.6 kg/m)	1.1 lb./ft (1.6 kg/m)	1.7 lb./ft (2.5 kg/m)
Leak Tightness	All PolyFlex lines are helium leak checked to 1 x 10 ⁻⁹ cc/sec		

*PolyFlex lines are warranted for two years against vacuum degradation with longer warranty periods available.

⁽¹⁾ compatible with Polycold® PFC100 to 550 series, ⁽²⁾ with PFC100 to 1100 series, ⁽³⁾ with PFC 660 to 1100 series

Polycold® is a registered trademark of Polycold Systems International, USA



VBS INDUSTRIES, INC.
808 East McGlincey
Campbell, California 95008, USA
Phone: (408) 371-3303
Fax: (408) 371-3320
e-mail: sales@vbsflex.com

Visit our website at: www.vbsflex.com