

## Assembled High Pressure Hose



Habia Teknofluor AB supply high pressure hose assemblies and Pigtaills, to the gas industry and other companies that deliver equipment for gas handling all over the world. Since the start in 1954 Habia Teknofluor AB, in co-operation with major customers like AGA and Air Liquide has developed hoses suitable for compressed gas. Hoses and fittings are selected to meet the quality standards needed to satisfy the high demands on safety in the gas industry. Assembled high pressure hoses from Habia Teknofluor have low diffusion and withstands high temperature. You can expect them to last longer than hoses of rubber or metal and to be easy to handle.

Habia Teknofluor, offers hoses with inner tubing made of PTFE\*, PFA\* and ETFE\*. The inner tubing is manufactured in-house to the highest quality standards and thereafter braided with one or two layer of stainless steel. The hose can be mounted with safety wire, which prevents it from whipping if a failure occurs. All hoses are pressure tested at 2 times the working pressure, cleaned and packed in plastic bags. All our hoses are produced according to standard ISO 7751, saying that working pressure should not exceed one fourth of the burst pressure.

High pressure hose assemblies are made of hose from the Heavy Duty program. Standard sizes for gas hoses are 6,5 mm (1/4") and 10 mm (3/8"). Single braid 6,5 mm is suitable for working pressure up to 200 bar, double braid 6,5 mm is suitable up to 300 bar. Ultra 6,5 mm, the top of the line product, can be used up to a working pressure as high as 415 bar.

Single braid 10 mm (3/8") is suitable for working pressure up to 150 bar, double braid up to 230 bar. Ultra 10 mm, top of the line product, can be used up to a working pressure of 415 bar.

The hose can be protected with a jacket of Hytrel® thermoplastic polyester elastomer, which also not only provides mechanical protection but gives excellent colour identification.

Choice of material is not always easy. Fluoropolymers have several good properties, but there are some differences between them. PTFE is the most common material and can be used for most gases. PFA is modified PTFE, which can be suitable in some applications. ETFE is suitable for helium and hydrogen, as the properties for diffusion are better than for PTFE, but ETFE will give a hose that is less flexible.

- \* PTFE - Polytetrafluoretylen
- \* PFA - Perfluoroalkoxy copolymer
- \* ETFE - Ethylene tetrafluoroethylene

