

High Pressure hoses



Metal
PTFE
ETFE



High Pressure Hoses

Our high pressure hoses are specially designed for high pressure and clean gases. They are being used for example in gas filling stations and between gas cylinders and regulators.

High pressure hoses are available in several materials, most common are PTFE, ETFE and the only non permeation hose material, stainless steel.



Stainless steel high pressure hose



PTFE high pressure hose

We have several types of high pressure hose available.

Our high pressure hoses are designed with specially made inner tubing of PTFE, ETFE or stainless steel. Outside the tube is a wrought a special braid made of stainless steel and in some applications also Kevlar™.

All fittings are machined out of approved materials like stainless steel 316 or 316L and for some applications out of brass. The welding is done by validated welders manually or when possible by an automatic orbital TIG welding system.

To obtain the highest possible level of security possible for a high pressure hose, we can add a unique patented passive safety system called the Lifeguard™. Please read the special data sheet.

Quality

We are approved by DNV to CE mark our high pressure products according to the Medical Device Directive MDD 93/42/EEC

Specma Wiro is a supplier to many gas companies since more than 30 years. Together with our customers we have developed the knowledge and experience needed to design and manufacture safe and secure gas applications.

We can offer our customers technically advanced solutions to a reasonable level of price.

Stainless Steel high pressure hose

The convoluted inner tube is made in stainless steel, material grade AISI 316L, and the braid in stainless steel, material grade AISI 304.

The unique convoluted profile makes the hose flexible even under high pressure. The braid is closely wrought over the tube, making the high pressure hose suitable for very high pressures. The stainless steel alternative is often used when the demands are high regarding purity, because of the fact that the stainless steel high pressure hose is 100% free from permeation.

Our pressure test certificate of the manufactured batch is sent together with goods. Copies are archived for minimum 10 years.

We ensure that necessary levels of purity is obtained, cap the fittings and pack them individually in plastic bags. We also label all products with batch number to ensure traceability.

Part number	Inner diameter	External diameter	Number of braids	Min bending radius		Max working pressure	Max Test pressure	Burst pressure	Weight
	mm (+/- 0,2)	mm (+/- 0,5)		Single motion	Repeted motion	Bar	Bar	Bar	
HD52-06	6	12,2	1	30	190	250	375	1000	0,26
HD52-06-02	6	14,3	2	30	190	330	495	1320	0,42
HD52-08	8	14,9	1	40	230	165	248	660	0,3
HD52-08-02	8	17	2	40	230	241	362	960	0,46
HD52-10	10	18	1	45	250	150	225	600	0,43
HD52-10-02	10	20,1	2	45	250	244	366	976	0,63
HD52-12	12	20,8	1	55	300	150	225	600	0,58
HD52-12-02	12	22,9	2	55	300	225	338	900	0,84
HD52-16	16	26,5	1	75	350	113	170	452	0,73
HD52-16-02	16	28,6	2	75	350	188	282	752	1,03

Part number	Inner diameter	External diameter	Number of braids	Min bending radius		Max working pressure	Max Test pressure	Burst pressure	Weight
	mm (+/- 0,2)	mm (+/- 0,5)		Single motion	Repeted motion	Bar	Bar	Bar	
3581006BST	6	12,2	1	30	190	250	375	1000	0,26
3592006BST	6	14,4	2	30	190	420	742	1680	0,44



PTFE high pressure hoses

In gas filling stations are PTFE high pressure hoses often used as the standard choice. The smooth bore PTFE is thick walled, and have a closely wrought stainless steel braid over the tube. The PTFE hoses are suitable for many gases. For example oxygen, nitrogen, argon, carbondioxid, acetylene and air.

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Part number	Inner diameter	Outher diameter	Number of braids	Min bending radius	Max working pressure	Burst pressure
	mm	mm		mm	Bar	Bar
424-05	4,93	8,00	1	51	206	827
424-06	6,60	10,16	1	64	200	800
425-06	6,60	11,43	2	76	320	1279
424-08	8,05	11,48	1	76	186	745
425-08	8,05	13,00	2	76	275	1103

We have a range of high performance PTFE gas hoses .A PTFE tube with an inner braid of Aramid and an outer braid of stainless steel , grade AISI 304. The hose, is coated with a Hytrel cover. The cover is available in several colors. Please note that the maximum temperature for the Hytrel cover is 120° Celsius.

Part number	Inner diameter	Outer diameter	Number of braids	Min bending radius	Max working pressure	Burst pressure
	mm	mm		mm	Bar	Bar
6304-06	6,35	11,25	2	76	414	1654
6307-10	10,30	17,15	2	133	310	1241

ETFE high pressure hoses

ETFE has a density higher than PTFE and is better suited for gases like hydrogen and helium. The braid design is equal to the braid of PTFE hoses.

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Part number	Inner diameter mm	Outer diameter mm	Number of braids	Min bending radius mm	Max working pressure Bar	Burst pressure Bar
434-05	4,93	8,00	1	51	225	900
434-06	6,60	10,16	1	76	200	800
435-06	6,35	11,43	2	76	320	1280
434-08	8,05	11,48	1	102	186	745
435-08	8,05	12,74	2	102	275	1103