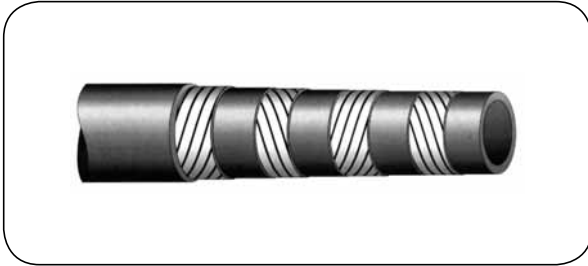


HIGH PRESSURE - UHP equipment

UHP (Ultra High Pressure) equipment includes hoses, hose assemblies, fittings, adapters and accessories designed to operate under pressure of 700 bar or above. The range comprises: WATERBLAST rubber hoses (working pressure from 700 to 1450 bar), thermoplastic hoses (working pressure 700 ÷ 800 bar), SPIR STAR® hoses (working pressure to 4000 bar). Depending on application, these working pressures values are obtained at different safety factors (WATERBLAST n = 2.5, hydraulics n = 4, gases n = 4 to 6). The selection of UHP fittings, adapters, quick release couplings and crimping method must always be determined by pressure in a particular application. Hose assemblies must always be pressure tested.

WATERBLAST hoses



WATERBLAST

Internal layer: Black oil-resistant synthetic rubber
Reinforcement: Four or six steel wire spirals
External layer: Black synthetic rubber resistant to oil and abrasion
Working temp.: From -10°C up to +70°C
 (temporary from -40°C up to +100°C)

Hose designed for water installations and high pressure equipment. Used in water jet cutting and water jet cleaning equipment. Application: cleaning of chemical and power supply installations, cleaning and cutting of concrete constructions, road surface, cleaning of steel surface, steelworks, tanks, vessels, mining installations, etc.

WATERBLAST hoses should not be used for oil hydraulics.

As high temperatures strongly affect the properties of rubber, the working pressure should be reduced down to about 80% of nominal pressure at a temperature above +70°C and to about 60% at a temperature of +90°C and above. Safety factor: about 2.5.

WATERBLAST 4

code	I.D.		O.D. [mm]	working pressure [bar]	bursting pressure [bar]	bending radius [mm]	weight [kg/m]
	[inch]	[mm]					
SL-WBL4-10	3/8	9.5	21.3	850	2125	150	0.76
SL-WBL4-13	1/2	12.7	24.6	800	2000	180	0.89
SL-WBL4-19	3/4	19	32	750	1850	220	1.52
SL-WBL4-25	1	25.4	38.4	700	1700	300	2.10

WATERBLAST 4 PLUS

code	I.D.		O.D. [mm]	working pressure [bar]	bursting pressure [bar]	bending radius [mm]	weight [kg/m]
	[inch]	[mm]					
SL-WBL4P-06	1/4	6.4	17.6	1250	3125	200	0.61
SL-WBL4P-10	3/8	9.5	21.4	1250	3125	210	0.88
SL-WBL4P-13	1/2	12.7	24.6	1100	2750	230	1.22
SL-WBL4P-19	3/4	19	32	1100	2750	250	1.83

WATERBLAST 6

code	I.D.		O.D. [mm]	working pressure [bar]	bursting pressure [bar]	bending radius [mm]	weight [kg/m]
	[inch]	[mm]					
SL-WBL6-13	1/2	12.7	27.8	1450	3625	250	1.82

HIGH PRESSURE - UHP equipment

WATERBLAST hoses standard fittings

fitting	thread size	hose I.D.			
		1/4"	3/8"	1/2"	3/4"
BSP female thread (60° cone)	1/4"	TI-WBW110-04-04SL	-	-	-
	3/8"	-	TI-WBW110-06-06SL	-	-
	1/2"	-	-	TI-WBW110-08-08SL	-
BSP male thread (60° cone)	1/4"	TI-WBZ110-04-04SL	-	-	-
	3/8"	-	TI-WBZ110-06-06SL	-	-
	1/2"	-	-	TI-WBZ110-08-08SL	-
metric female thread (24° cone) O-ring, DKOL	M22x1.5	-	TI-WMW121-22-06SL	TI-WMW121-22-08SL	-
metric female thread (24° cone) O-ring, DKOS	M20x1.5	-	TI-WMW122-20-06SL	-	-
	M22x1.5	-	TI-WMW122-22-06SL	TI-WMW122-22-08SL	-
	M24x1.5	-	-	TI-WMW122-24-08SL	-
metric female thread (24° cone) without O-ring, DKL	M22x1.5	-	-	TI-WMW111-22-08SL	-
metric male thread (24° cone) CES	M24x1.5	-	-	TI-WMZ112-24-08SL	-
	M36x2	-	-	-	TI-WMW122-36-12SL

Fitting material: galvanized carbon steel.
Other types of fittings available on request.

Safety guidelines for operators of WATERBLAST hoses:

- High water pressure is dangerous - can cause death, body injury or property damage. Always wear protective clothing, glasses, gloves and shoes.
- Hose assemblies can only be operated by trained personnel.
- Operation area must be safe from third party and marked properly.
- Never use a hose above its working pressure and below its minimal bending radius.
- Always visually check an assembly before operation.
- Never use hoses with corroded, leaking, worn or damaged fittings. Such a hose must be removed from service immediately.
- Hose assemblies with blisters, cuts or exposed reinforcement must be removed from service.
- Do not use a hose with kinks, squeezes or other signs of damage. It must be removed from service.
- Do not use a hose that has been exposed to chemical attack or to high temperature. It must be removed from service.
- While in service, a hose should not be exposed to kinking, twisting, straining or contact with sharp edges.
- Hose may change in length by a few per cent when pressurized. Allowance should be made to provide slack to compensate for any changes in length.
- Several hose lengths can be joined up using high pressure couplings. It is not recommended to hang connected pieces or suspend a hose under its own weight.
- Always clean, drain and coil hoses after use.

Complete WATERBLAST hose assemblies



TUBES INTERNATIONAL® provides complete WATERBLAST hose assemblies. Each hose assembly is hydrostatically tested under pressure (150% of its working pressure) and is supplied with a quality certificate.