

HYDRAULIC HOSES

GO TO:

TEXTILE BRAID / LOW PRESSURE

BRAIDED / MEDIUM PRESSURE

MULTI-SPIRAL / HIGH-PRESSURE

JET WASH / HIGH-PRESSURE

THERMOPLASTIC

PROTECTION & SAFETY

SPECIALTY

MPH MULTIPURPOSE HOSE

Application: Low pressure hose for mineral and vegetable oils, aqueous emulsions, water, air and inert gases.

Construction: Black NBR tube, two or four layer textile fibre spiral reinforcement, black neoprene abrasion and weather resistant cover.

Temperature Range: -40°C to +100°C

Specifications: SAE 100 R6, EN 854 R6, JIS B 8360



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	mm	Kg/m	Series
MPH-04	6.3	1/4"	14.0	35	500	140	2000	55.0	0.15	P
MPH-05	8.0	5/16"	15.8	35	500	140	2000	60.5	0.19	P
MPH-06	9.5	3/8"	17.4	35	500	140	2000	65.0	0.21	P / T
MPH-08	12.7	1/2"	21.3	35	500	140	2000	90.0	0.28	P / T
MPH-10	15.9	5/8"	23.5	35	500	140	2000	110.0	0.30	P / T
MPH-12	19.0	3/4"	31.4	35	500	140	2000	135.0	0.59	P
MPH-16	25.4	1"	37.5	35	500	140	2000	170.0	0.74	P



LPHT LOW PRESSURE HIGH TEMP HOSE

Application: Low pressure textile braid hose for petroleum based hydraulic oil, lubricating fluids, diesel, unleaded petrol, aqueous emulsions, water and air. Not recommended for impulse applications.

Construction: Seamless CPE/AQP rubber, single braid polyester reinforcement, blue CPE rubber cover resistant to oils, ozone, flame and weathering.

Temperature Range: -40°C to +121°C

Specifications: SAE 100 R6, EN 854 R6, JIS B 8360



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Vacuum Rating	Bend Radius	Weight	Fitting Type
	mm	in		bar	psi	bar	psi				
LPHT-04	6.3	1/4"	12.4	21	304	84	1216	0.9	76.2	0.12	P / T
LPHT-06	9.5	3/8"	16.0	21	304	84	1216	0.9	76.2	0.18	P / T
LPHT-08	12.7	1/2"	19.0	21	304	84	1216	0.9	127.0	0.22	P / T
LPHT-10	15.9	5/8"	23.1	21	304	84	1216	0.6	152.4	0.31	P / T
LPHT-12	19.0	3/4"	26.4	21	304	84	1216	0.6	177.8	0.37	P / T



HTAB / HTFH ENGINE & AIR BRAKE LOW PRESSURE

Application: Low to medium pressures hose that will handle high temperature hydraulic fluids such as mineral and vegetable oils, diesel, B20, petrol, E10, aqueous emulsions, water, air and inert gases.

Construction: Seamless CPE/AQP rubber, single braid polyester and single braid high tensile steel wire reinforcement, black synthetic rubber with blue polyester textile outer braid cover, resistant to abrasion, oils, ozone and weathering. Permeable cover to allow safe escape of trapped air at high pressure.

Temperature Range: -40°C to +121°C

Specifications: SAE 100R5 / SAE J 517



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Vacuum Rating	Bend Radius	Weight	Fitting Type
	mm	in		bar	psi	bar	psi				
HTAB-04	4.8	3/16"	13.4	138	2001	552	8004	0.9	19.1	0.19	A / R
HTAB-05	6.4	1/4"	14.9	103	1494	412	5974	0.9	25.4	0.24	A / R
HTAB-06	7.9	5/16"	16.6	103	1494	412	5974	0.9	31.8	0.28	A / R
HTAB-08	10.4	13/32"	18.9	86	1247	344	4988	0.9	44.5	0.33	A / R
HTAB-10	12.7	1/2"	21.9	86	1247	344	4988	0.9	57.2	0.50	A / R
HTAB-12	15.9	5/8"	25.2	52	754	208	3016	0.6	69.9	0.58	A / R
HTFH-16	22.4	7/8"	29.2	28	406	112	1624	0.5	88.9	0.55	A / R
HTFH-20	28.7	1.1/8"	37.9	21	305	84	1218	0.5	114.3	0.68	A / R
HTFH-24	35.1	1.3/8"	48.0	17	247	68	986	0.3	139.7	0.85	A / R



R5HT LOW PRESSURE TEXTILE BRAIDED

Application: Low to medium pressures hose that will handle high temperature hydraulic fluids such as mineral and vegetable oils, aqueous emulsions, diesel, B20, petrol, E10 fuels, lubricating oils, coolants, water, air and inert gases.

Construction: Seamless CPE/AQP rubber, single braid polyester and single braid high tensile steel wire reinforcement, black synthetic rubber with black polyester textile outer braid cover, resistant to abrasion, oils, ozone and weathering. Permeable cover to allow safe escape of trapped air at high pressure.

Temperature Range: -40°C to +121°C

Specifications: SAE J1402 Type All in sizes -04 to -12.
DOT Regulation FMVSS106.



	Hose ID		Hose OD	Working Pressure		Burst Pressure		Vacuum Rating	Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	- bar	mm	Kg/m	Series
R5HT-04	5.1	3/16"	13.2	207	3001.5	828	12006	0.9	76.0	0.19	A / R
R5HT-05	6.8	1/4"	14.8	207	3002	828	12006	0.9	86.0	0.24	A / R
R5HT-06	8.3	5/16"	17.1	155	2248	620	8990	0.9	102.0	0.34	A / R
R5HT-08	10.7	13/32"	19.5	138	2001	552	8004	0.9	117.0	0.39	A / R
R5HT-10	13.2	1/2"	23.4	121	1755	484	7018	0.9	140.0	0.55	A / R
R5HT-12	16.4	5/8"	27.4	103	1494	412	5974	0.9	165.0	0.66	A / R
R5HT-16	22.8	7/8"	31.4	55	798	220	3190	0.6	187.0	0.69	A / R
R5HT-20	29.2	1.1/8"	38.1	43	624	172	2494	0.6	229.0	0.78	A / R
R5HT-24	35.5	1.3/8"	44.4	34	493	136	1972	0.5	267.0	1.0	A / R
R5HT-32*	46.6	1.13/16"	56.2	20.7	300	82.8	1200.6	0.3	337	1.4	A / R

*Does not comply with SAE 100R5 operating pressure of 24 bar or minimum burst pressure of 96 bar.



R1AT ONE WIRE BRAID

Application: Low to medium pressures hose that will handle high temperature hydraulic fluids such as mineral and vegetable oils, aqueous emulsions, diesel, B20, petrol, E10 fuels, lubricating oils, coolants, water, air and inert gases.

Construction: Seamless CPE/AQP rubber, single braid polyester and single braid high tensile steel wire reinforcement, synthetic rubber with black polyester textile outer braid cover, resistant to abrasion, oils, ozone and weathering. Permeable cover to allow safe escape of trapped air at high pressure.

Temperature Range: -40°C to +121°C

Specifications: SAE J1402 Type All in sizes -04 to -12.
DOT Regulation FMVSS106.



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Vacuum Rating	Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	- bar	mm	Kg/m	Series
R1AT-04	6.4	1/4"	13.3	225	3263	900	13050	0.2	100	0.23	K
R1AT-06	9.5	3/8"	17.3	180	2610	720	10440	0.2	125	0.37	K
R1AT-08	12.7	1/2"	20.3	160	2320	640	9280	0.2	180	0.45	K
R1AT-10	15.9	5/8"	23.5	130	1885	520	7540	0.2	201	0.5	K
R1AT-12	19.1	3/4"	27.5	105	1523	420	6090	0.2	240	0.62	J
R1AT-16	25.4	1"	35.6	88	1276	352	5104	0.2	300	0.93	J
R1AT-20	31.8	1.1/4"	43.2	63	914	252	3654	0.2	420	1.36	J
R1AT-24	38.1	1.1/2"	50.4	50	725	200	2900	0.2	500	1.7	J
R1AT-32	50.8	2"	64.3	40	580	160	2320	0.2	630	2.43	J

R1ATFS ONE WIRE BRAID FIRE SUPPRESSION

Application: Medium pressure hose for hydraulic fluids such as mineral and vegetable oils, aqueous emulsions and water.

Construction: Seamless synthetic rubber tube, one braid of high tensile steel wire reinforcement, red synthetic rubber cover resistant to abrasion, oils, ozone and weathering.

Temperature Range: -40°C to +100°C (125°C intermittent)

Specifications: SAE J 517 (SAE 100R1AT), EN 853 1SN, Former DIN 20022 1SN (Part 3), AS5062



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	mm	Kg/m	Series
R1ATFS-04	6.4	1/4"	13.4	225	3263	900	13050	100	0.23	K
R1ATFS-06	9.5	3/8"	17.4	180	2610	720	10440	130	0.33	K
R1ATFS-08	12.7	1/2"	20.6	160	2320	640	9280	180	0.41	K
R1ATFS-12	19.0	3/4"	27.7	105	1523	420	6090	240	0.61	J



HT1 ONE WIRE BRAID HIGH TEMPERATURE

Application: High temperature hose. Hydraulic oils are both mineral and biological; polyglycol base oils, water-oil emulsions, and water.

Construction: High temperature synthetic rubber tube, one high tensile steel wire reinforcement braid, blue synthetic rubber cover resistant to abrasion, oils, ozone and weathering.

Temperature Range: -40°C to +135°C

Specifications: SAE 100R1AT, EN853 1SN, MSHA



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	mm	Kg/m	Series
HT1-04*	6.4	1/4"	13.2	225	3263	900	13050	100	0.21	J
HT1-05*	7.9	5/16"	14.5	215	3118	860	12470	115	0.24	J
HT1-06*	9.5	3/8"	17.2	180	2610	720	10440	125	0.33	J
HT1-08*	12.7	1/2"	20.4	160	2320	640	9280	180	0.41	J
HT1-10*	15.9	5/8"	23.5	130	1885	520	7540	200	0.45	J
HT1-12	19.1	3/4"	27.5	105	1523	420	6090	240	0.58	J
HT1-16	25.4	1"	35.4	88	1276	352	5104	300	0.88	J
HT1-20*	31.8	1.1/4"	43.5	63	914	252	3654	420	1.23	J
HT1-24*	38.1	1.1/2"	50	50	725	200	2900	500	1.51	J
HT1-32*	50.8	2"	63.6	40	580	160	2320	630	1.97	J

*Non-standard product. Available on request.



R2AT/2SC TWO WIRE BRAID

Application: Medium to high pressure hose for hydraulic fluids such as mineral oils, aqueous emulsions, water, air and inert gases.

Construction: Seamless NBR (Nitrile) rubber tube, two high tensile steel wire reinforcement braids, black synthetic rubber cover resistant to abrasion, oils, ozone and weathering.

Temperature Range: -40°C to +100°C

Specifications: SAE 100R2AT, EN853 2SN, AS2660, AS1180.10B, AS1180.13A (FRAS), MSHA



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	mm	Kg/m	Series
R2AT-04	6.4	1/4"	14.5	400	5800	1600	23200	100	0.37	K
R2AT-06	9.5	3/8"	20.4	330	4785	1320	19140	125	0.50	K
R2AT-08	12.7	1/2"	23.5	275	3988	1100	15950	180	0.62	K
R2AT-10	15.9	5/8"	27.5	250	3625	1000	14500	205	0.68	K
R2AT-12	19.1	3/4"	35.4	215	3118	860	12470	240	0.89	J
R2AT-16	25.4	1"	43.5	165	2393	660	9570	300	1.45	J
R2AT-20	31.8	1.1/4"	50	125	1813	500	7250	420	2.25	J
R2AT-24	38.1	1.1/2"	63.6	90	1305	360	5220	500	2.61	J
R2AT-32	50.8	2"	63.6	80	1160	320	4640	630	3.31	J
R2AT-40	63.5	2.1/2"	63.6	69	1001	276	4002	762	3.80	J
2SC-40	63.5	2.1/2"	63.6	70	1015	280	4060	762	2.90	J
2SC-48	76.2	3"	63.6	70	1015	280	4060	900	3.98	J



R2ATHT TWO WIRE BRAID HIGH TEMPERATURE

Application: Hydraulic system service with petroleum, fire resistant and water base fluids, fuel and lubricating systems.

Construction: High-temperature elastomer rubber tube, two high tensile steel wire reinforcement braids, blue elastomer rubber cover resistant to abrasion, oils, ozone and weathering.

Temperature Range: -40°C to +121°C

Specifications: SAE 100R2AT, EN853 2SN, DIN 20022 2SN (Part 4), AS1180.10B, AS1180.13A (FRAS), MSHA



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	mm	Kg/m	Series
R2ATHT-04	6.4	1/4"	15.2	396	5742	1584	22968	102	0.40	K
R2ATHT-06	9.5	3/8"	19.2	345	5003	1380	20010	127	0.58	K
R2ATHT-08	12.7	1/2"	22.1	293	4249	1172	16994	178	0.69	K
R2ATHT-10	15.9	5/8"	25.1	224	3248	896	12992	203	0.81	K
R2ATHT-12	19.1	3/4"	29.5	207	3002	828	12006	241	1.00	J
R2ATHT-16	25.4	1"	37.8	172	2494	688	9976	305	1.45	J



HT2 TWO WIRE BRAID HIGH TEMPERATURE

Application: High temperature hose. Hydraulic oils, both mineral and biological; Polyglycol base oils, water-oil emulsions and water.

Construction: High-temperature synthetic rubber tube, two high tensile steel wire reinforcement braids, blue synthetic rubber cover resistant to abrasion, oils, ozone and weathering.

Temperature Range: -40°C to +135°C

Specifications: SAE 100R2AT, EN853 2SN, MSHA



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	mm	Kg/m	Series
HT2-04*	6.4	1/4"	15.0	400	5800	1600	23200	100	0.33	K
HT2-05*	7.9	5/16"	16.4	350	5075	1400	20300	115	0.39	K
HT2-06*	9.5	3/8"	18.8	330	4785	1320	19140	125	0.50	K
HT2-08*	12.7	1/2"	22.2	275	3988	1100	15950	180	0.59	K
HT2-10*	15.9	5/8"	25.2	250	3625	1000	14500	200	0.71	K
HT2-12*	19.1	3/4"	29.3	215	3118	860	12470	240	0.86	J
HT2-16*	25.4	1"	37.2	165	2393	660	9570	300	1.28	J
HT2-20	31.8	1.1/4"	47.3	125	1813	500	7250	420	2.02	J
HT2-24	38.1	1.1/2"	53.7	90	1305	360	5220	500	2.23	J
HT2-32	51	2"	66.7	80	1160	320	4640	630	2.85	J

*Non-standard product. Available on request.



PE2 TWO WIRE BRAID HYBRID

Application: Extremely high pressure compact hose with greater flexibility, suitable for mineral and vegetable oils, aqueous emulsions, water, air and inert gases. Recommended for hydraulic applications where high pressure and a tighter bend radius is needed.

Construction: Black synthetic rubber tube, two high tensile steel wire reinforcement braids, black smooth synthetic rubber cover resistant to abrasion, oils, ozone and weathering.

Temperature Range: -40°C to +100°C (125°C intermittent)

Specifications: SAE 100R16, EN 857 2SC, FRAS, MSHA



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	mm	Kg/m	Series
PE245-04	6.4	1/4"	13.1	450	6525	1800	26100	45	0.30	K
PE245-06	9.5	3/8"	16.5	390	5655	1560	22620	70	0.38	K
PE245-08	12.7	1/2"	20.1	350	5075	1400	20300	90	0.55	K
PE245-10	15.9	5/8"	23.6	290	4205	1160	16820	130	0.63	K
PE245-12	19.1	3/4"	27.5	280	4060	1120	16240	160	0.80	J
PE245-16	25.4	1"	35.6	250	3625	1000	14500	250	1.3	J



C21 ISOBARIC 210BAR

Application: Isobaric hose for hydraulic fluids such as mineral and vegetable oils, aqueous emulsions, water and inert gases.

Construction: Seamless synthetic rubber tube, four high tensile steel wire reinforcement spirals, black synthetic rubber cover resistant to abrasion, oils, ozone and weathering.

Temperature Range: -40°C to +120°C

Specifications: JIS K6349-3, SAE 100R12, EN 856 4SP/R12, AS 3791 100R12, ISO 3862 4SP/R12, ISO 18752 CC, FRAS



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	mm	Kg/m	Series
C21-32	50.8	2"	66.7	210	3045	840	12180	500	4.2	J / X

*Prolonged usage with water or water-based fluids at temperatures above 70°C will allow wire corrosion as a result of diffusion through the inner liner.



PC25 ISOBARIC 250BAR

Application: Isobaric (constant 250 bar working pressure across all sizes) hose for hydraulic fluids such as mineral oils/ aqueous emulsions/water/air and inert gases.

Construction: Seamless synthetic rubber tube, two braid (-10 / -12) or four high tensile steel wire reinforcement spirals, black high abrasion resistant synthetic rubber cover resistant to abrasion, oils, ozone and weathering.

Temperature Range (Braided): -40°C to +100°C

Temperature Range (Spiral): -40°C to +120°C

Specifications: SAE 100R16, EN 857 2SC, ISO 11237 2SC/R16, SAE 100R12, ISO 3862 R12, EN 856 R12, MSHA, FRAS



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Vacuum Rating	Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	- bar	mm	Kg/m	Series
PC25-10	15.9	5/8"	26.0	250	3625	1000	14500	0.2	140	0.84	K
PC25-12	19.1	3/4"	29.1	250	3625	1000	14500	0.2	170	0.96	J
PC25-20	31.8	1.1/4"	44.9	250	3625	1000	14500	0.2	280	2.36	J / X

*Prolonged usage with water or water-based fluids at temperatures above 70°C will allow wire corrosion as a result of diffusion through the inner liner.



PC28PS

ISOBARIC 280BAR EXTREME ABRASION RESISTANCE

Application: Isobaric (constant 280 bar working pressure across all sizes) hose for hydraulic fluids such as mineral and vegetable oils/aqueous emulsions and water. Offers extreme abrasion resistance in harsh applications.

Construction: Seamless synthetic rubber tube, four high-tensile steel wire reinforcement spirals, black extreme abrasion-resistant UHMWPE over synthetic rubber cover, resistant to abrasion, oils, ozone, and weathering.

Temperature Range: -40°C to +120°C

Specifications: SAE 100R12, EN 856 4SP, AS 3791 R12, ISO 3862 4SP/R12, ISO 18752 CC, JIS K6349-3, MSHA, FRAS



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Vacuum Rating	Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	- bar	mm	Kg/m	Series
PC28PS-08	12.7	1/2"	23.0	280	4060	1120	16240	0.2	110	0.78	K
PC28PS-12	19.1	3/4"	29.9	280	4060	1120	16240	0.2	170	1.13	J
PC28PS-16	25.4	1"	36.8	280	4060	1120	16240	0.2	220	1.86	J

*Prolonged usage with water or water-based fluids at temperatures above 60°C will allow wire corrosion as a result of diffusion through the inner liner.



PC35 / C35

ISOBARIC 350BAR

Application: Isobaric (constant 350 bar working pressure across all sizes) hose for hydraulic fluids such as mineral oils/ aqueous emulsions/water/air and inert gases. Outer cover must be pin-pricked if hose is to be used to convey air or inert gases above 17 bar.

Construction: Seamless synthetic rubber tube, two braids (-06), four spirals (-08 to -16), or six high-tensile steel wire reinforcement spirals (-20 to -24), black high abrasion-resistant synthetic rubber cover, resistant to abrasion, oils, ozone, and weathering.

Temperature Range: -40°C to +120°C

Specifications: SAE 100R16, EN 857 2SC, ISO 11237 2SC/R16, SAE 100R13, ISO 3862 R13, EN 856 R13, MSHA, FRAS



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Vacuum Rating	Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	- bar	mm	Kg/m	Series
PC35-06	9.5	3/8"	18.9	350	5075	1400	20300	0.2	90	0.55	K / J / H
PC35-08	12.7	1/2"	22.2	350	5075	1400	20300	0.2	110	0.80	K / J / H
PC35-10	15.9	5/8"	26.4	350	5075	1400	20300	0.2	140	1.00	K / J
PC35-12	19.1	3/4"	29.0	350	5075	1400	20300	0.2	170	1.13	J / H
PC35-16	25.4	1"	36.6	350	5075	1400	20300	0.2	220	2.00	J / X
PC35-20	31.8	1 1/4"	48.7	350	5075	1400	20300	0.2	280	3.80	H / X
PC35-24	38.1	1 1/2"	55.6	350	5075	1400	20300	0.2	330	4.60	H / X
C35-32	50.8	2"	71.0	350	5075	1400	20300	0.2	600	6.40	H / X

*Prolonged usage with water or water-based fluids at temperatures above 60°C will allow wire corrosion as a result of diffusion through the inner liner.



PC42 / C42 ISOBARIC 420BAR

Application: Isobaric (constant 420 bar working pressure across all sizes) hose for hydraulic fluids such as mineral oils/ aqueous emulsions/water/air and inert gases. Outer cover must be pin-pricked if hose is to be used to convey air or inert gases above 17 bar

Construction: Seamless synthetic rubber tube, two braids (-04), four spirals (-06 to -16) or six high-tensile steel wire reinforcement spirals (-20 to -32), black high abrasion-resistant synthetic rubber cover, resistant to abrasion, oils, ozone, and weathering.

Temperature Range: -40°C to +120°C

Specifications: SAE 100R15, SAE 100R16, EN 857 2SC, ISO 11237 2SC/R16, SAE 100R13, ISO 3862 R13, EN 856 R13, MSHA, FRAS



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Vacuum Rating	Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	- bar	mm	Kg/m	Series
PC42-04	6.4	1/4"	14.9	420	6090	1680	24360	0.2	70	0.39	K
C42-06	9.5	3/8"	20.2	420	6090	1680	24360	0.2	125	0.70	K / J / H
C42-08	15.9	1/2"	26.4	420	6090	1680	24360	0.2	180	0.90	K / J / H
C42-10	19.1	5/8"	29.0	420	6090	1680	24360	0.2	140	1.00	J
C42-12	25.4	3/4"	36.6	420	6090	1680	24360	0.2	280	1.50	J / H / X
C42-16	31.8	1"	48.7	420	6090	1680	24360	0.2	300	2.20	J / X
C42-20	38.1	1.1/4"	55.6	420	6090	1680	24360	0.2	400	3.90	H / X
PC42-24	38.1	1.1/2"	55.6	420	6090	1680	24360	0.2	330	4.60	H / X
PC42-32	50.8	2"	71.5	420	6090	1680	24360	0.2	395	7.20	H / X
C42-32EH	50.8	2"	71.0	420	6090	1680	24360	0.2	630	6.70	H

*Prolonged usage with water or water-based fluids at temperatures above 60°C will allow wire corrosion as a result of diffusion through the inner liner.



PE4/6 HIGH PRESSURE HYBRID

Application: Extremely high pressure hose suitable for mineral and vegetable oils/aqueous emulsions/water/air and inert gases. Outer cover must be pin pricked if hose is to be used to convey air or inert gases above 17 bar.

Construction: Seamless synthetic rubber tube, four spirals (-06 to -16) or six high-tensile steel wire reinforcement spirals (-20 to -24), black high abrasion-resistant synthetic rubber cover, resistant to abrasion, oils, ozone, and weathering.

Temperature Range: -40°C to +121°C

Specifications: SAE 100R13, EN 856 R13, AS 3791 R13, ISO 18752 CC, SAE 100R15, ISO 3862 R15, ISO 18752 CC, MSHA, FRAS



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	mm	Kg/m	Series
PE442-06	9.5	3/8"	20.0	420	6090	1680	24360	65	0.65	K / J / H
PE442-08	12.7	1/2"	23.1	420	6090	1680	24360	140	0.86	K / J / H
PE442-12	19.1	3/4"	30.4	420	6090	1680	24360	190	1.34	J
PE442-16	25.4	1"	37.5	420	6090	1680	24360	240	1.93	J
PE435-20	31.8	1.1/4"	44.8	350	5075	1400	20300	210	2.40	J / H / X
PE642-20	31.8	1.1/4"	49.3	420	6090	1680	24360	300	3.55	H / X
PE642-24	38.1	1.1/2"	57.0	420	6090	1680	24360	350	4.65	H / X

*Prolonged usage with water or water-based fluids at temperatures above 60°C will allow wire corrosion as a result of diffusion through the inner liner.



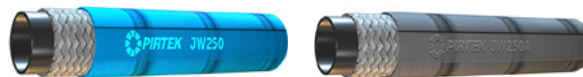
JW250 / JW250A JET WASH HOSE 250BAR

Application: Extremely flexible, medium pressure compact hose for pressure cleaners. Suitable for conducting water and detergents in aqueous solution, not suitable for steam and hydraulic applications.

Construction: Synthetic rubber tube, one high-tensile steel wire reinforcement braid, blue pin pricked synthetic rubber cover, resistant to abrasion, oils, ozone, and weathering. JW250A contains a layer of polyethylene over the outer cover to offer extreme abrasion resistance.

Temperature Range: -40°C to +155°C

Specifications: EN 1829-2



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	mm	Kg/m	Series
JW250-04	6.4	1/4"	12.5	250	3625	1000	14500	60	0.18	K
JW250-06	9.5	3/8"	16.5	250	3625	1000	14500	75	0.29	K
JW250A-04	6.4	1/4"	12.5	250	3625	1000	14500	60	0.18	K



JW400 / JW400A JET WASH HOSE 400BAR

Application: Extremely flexible, high pressure compact hose for pressure cleaners. Suitable for conducting water and detergents in aqueous solution, not suitable for steam and hydraulic applications.

Construction: Synthetic rubber tube, two high-tensile steel wire reinforcement braid, blue pin pricked synthetic rubber cover, resistant to abrasion, oils, ozone, and weathering. JW400A contains a layer of polyethylene over the outer cover to offer extreme abrasion resistance.

Temperature Range: -40°C to +155°C

Specifications: EN 1829-2



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	mm	Kg/m	Series
JW400-06	9.5	3/8"	16.5	400	5800	1600	23200	90	0.40	K
JW400A-046	9.5	3/8"	16.5	400	5800	1600	23200	90	0.40	K



WB WATERBLAST

Application: Extremely high constant pressure hose for water and water emulsions scaling systems.

Construction: Seamless synthetic rubber tube, four (WB2) and six (WB3) high-tensile steel wire reinforcement spirals, black synthetic rubber cover, extremely resistant to abrasion, oils, ozone, and weathering. JW400A contains a layer of polyethylene over the outer cover to offer extreme abrasion resistance.

Temperature Range: -40°C to +80°C

Specifications: EN 1829-2, AS/NZS 4233.2



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	mm	Kg/m	Series
WB2-08	12.7	1/2"	24.1	1100	15950	2750	39875	230	1.25	IFSWB
WB2-12	19.1	3/4"	32.0	1100	15950	2750	39875	250	1.87	IFSWB
WB3-08	12.7	1/2"	29.0	1450	21025	3625	52562.5	250	1.87	IFSWB



3130 MEDIUM PRESSURE THERMOPLASTIC

Application: Medium pressure hose for general hydraulics/material handling (not for use over pulleys)/high pressure gas transfer/chemical transfer/marine steering. Low elongation. Absorbs shock loads and damaging pressure spikes through controlled expansion.

Construction: Smooth seamless nylon tube, spiral or braided synthetic fibre reinforcement, black perforated bonded polyurethane cover.

Temperature Range: -40°C to +100°C

Specifications: SAE 100R7



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	mm	Kg/m	Series
3130-12	19.1	3/4"	27.1	86	1247	344	4988	127	0.26	T / S7
3130-16	25.4	1"	34.0	69	1001	276	4002	203	0.46	T / S7



TPR7 MEDIUM PRESSURE THERMOPLASTIC

Application: Medium pressure hose for use on general hydraulic systems/polyols/solvents/paints and compatible gases. Flexible at low temperatures. Excellent bend radius. Low elongation. Absorbs shock loads and damaging pressure spikes through controlled expansion. Refer to chemical resistance table for compatibility. Not suitable for use over pulleys.

Construction: Smooth seamless nylon tube, polyester fibre reinforcement, black perforated marine anti-abrasion polyurethane cover, UV stabilised and resistant to micro-organisms.

Temperature Range: -40°C to +100°C

Specifications: SAE 100R7, ISO 3949 R7, MSHA



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	mm	Kg/m	Series
TPR7-02	3.2	1/8"	8.5	230	3335	920	13340	25	0.054	T / TP
TPR7-03	4.9	3/16"	10.0	210	3045	840	12180	30	0.068	T
TPR7-04	6.4	1/4"	11.8	200	2900	800	11600	35	0.087	T
TPR7-05	7.9	5/16"	14.3	190	2755	760	11020	45	0.126	T
TPR7-06	9.5	3/8"	16.0	175	2538	700	10150	55	0.146	T
TPR7-08	12.7	1/2"	20.3	140	2030	560	8120	75	0.214	T
TPR7-12	19.1	3/4"	26.5	90	1305	360	5220	145	0.301	T



TPR8 HIGH PRESSURE THERMOPLASTIC

Application: High Pressure general hydraulic systems/polyols/solvents and compatible gases. Flexible at low temperatures. Excellent bend radius. Compact R7 outside dimensions. Low elongation. Absorbs shock loads and damaging pressure spikes through controlled expansion. Suitable for wet and saline environments where there are extreme temperature changes. Refer to chemical resistance table for compatibility. Suitable for tank to tank ONLY oxygen and breathing air mixtures.

Construction: Smooth seamless nylon tube, polyester fibre reinforcement, black perforated marine anti-abrasion polyurethane cover, UV stabilised and resistant to micro-organisms.

Temperature Range: -40°C to +100°C

Specifications: SAE 100R8, ISO 3949 R8, MSHA



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Vacuum Rating	Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	- bar	mm	Kg/m	Series
TPR8-02	3.2	1/8"	7.1	420	6090	1680	24360	0.9	30	0.031	TP
TPR8-03	4.9	3/16"	10.0	350	5075	1400	20300	0.9	35	0.083	T
TPR8-04	6.4	1/4"	11.8	350	5075	1400	20300	0.9	50	0.088	T
TPR8-05	7.9	5/16"	14.3	325	4713	1300	18850	0.9	60	0.122	T
TPR8-06	9.5	3/8"	16.0	280	4060	1120	16240	0.9	70	0.140	T
TPR8-08	12.7	1/2"	20.3	245	3553	980	14210	0.9	95	0.218	T



3VEO JACKING NON-CONDUCTIVE

Application: Very high pressure hose used in general hydraulic systems that may contact high voltage sources. Jacking equipment. Aerial equipment. Mobile hydraulics. Rescue apparatus and tools. Compact size. Low elongation. UV resistant cover. Non conductive less than 50 microamperes leakage when subjected to 75000 volts/foot for 5 minutes. Complete assemblies in various lengths available fitted with 3/8 inch NPT male ends and bend restrictors.

Construction: Smooth seamless nylon tube, high tensile kevlar spiral reinforcement, orange non-stick non-perforated polyurethane cover.

Temperature Range: -40°C to +66°C

Specifications: SAE J517



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	mm	Kg/m	Series
3VEO-04	6.4	1/4"	14.0	689	9991	2756	39962	64	0.158	SV

3VEO PRE-MADE ASSEMBLIES

Part No	Description
3VEO-04-NPTM-1.0M	1/4" 3VEO Hose assembly fitted with 3/8" NPT(M) hose ends 1.0m long
3VEO-04-NPTM-2.0M	1/4" 3VEO Hose assembly fitted with 3/8" NPT(M) hose ends 2.0m long
3VEO-04-NPTM-3.0M	1/4" 3VEO Hose assembly fitted with 3/8" NPT(M) hose ends 3.0m long
3VEO-04-NPTM-4.0M	1/4" 3VEO Hose assembly fitted with 3/8" NPT(M) hose ends 4.0m long
3VEO-04-NPTM-5.0M	1/4" 3VEO Hose assembly fitted with 3/8" NPT(M) hose ends 5.0m long
3VEO-04-NPTM-6.0M	1/4" 3VEO Hose assembly fitted with 3/8" NPT(M) hose ends 6.0m long



TPJH70 JACKING HIGH PRESSURE

Application: Very high pressure hose for use in general hydraulics, jacking equipment, rescue apparatus and tools. Suitable for static and dynamic jacking applications. High flexibility and low weight. Excellent abrasion resistance. The waterproof feature of the cover is particularly suitable for wet and saline environments with extreme temperature changes.

Construction: Smooth seamless nylon tube, high tensile kevlar and steel braid reinforcement, black non-perforated polyether anti-scratch polyurethane cover, UV stabilised and resistant to hydrolysis.

Temperature Range: -40°C to +100°C

Specifications: MSHA



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Vacuum Rating	Bend Radius	Weight
	mm	in	mm	bar	psi	bar	psi	-bar	mm	Kg/m
TPJH70-04	6.4	1/4"	14.5	700	10150	2800	40600	0.9	40	0.254

MTIS recommends the use of our plastic strain reliever hose guards (SRP) to minimise bending of the hose at the back of the fittings.



ACCESSORIES

Part No	Description
SRP-04	Strain reliever suit 1/4" hose - attach to resist kinking at end of ferrule
SRP-06	Strain reliever suit 3/8" hose - attach to resist kinking at end of ferrule



30CT / 30CTX2 MATERIAL HANDLING BROAD SPECTRUM

Application: Ideal for fork-lifts especially over sheaves/rollers including freezer applications. Other applications include construction/general hydraulics/chemical and gas transfer/machine tools & robotics/agricultural equipment/material handling/lubrication equipment. Highly flexible even in cold temperatures. Small outside diameter. Light weight yet rugged construction. Low volumetric expansion. Twin-line available, refer to 30CTX2.

Construction: Smooth polyester tube, braided synthetic fibre reinforcement, black non stick perforated polyester cover.

Temperature Range: -54°C to +94°C

Specifications: SAE 100R18



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	mm	Kg/m	Series
30CT-04	6.4	1/4"	12.1	207	3002	828	12006	32	0.089	T / S7
30CT-05	7.9	5/16"	15.5	207	3002	828	12006	38	0.147	T / S7
30CT-06	9.5	3/8"	16.8	210	3045	840	12180	51	0.182	T / S7
30CT-08	12.7	1/2"	21.6	207	3002	828	12006	59	0.247	T / S7
30CT-10	15.9	5/8"	27.0	207	3002	828	12006	102	0.414	S18
30CTX2-04	6.4	1/4"	12.1	207	3002	828	12006	32	0.178	T / S7
30CTX2-05	7.9	5/16"	15.5	207	3002	828	12006	38	0.294	T / S7
30CTX2-06	9.5	3/8"	16.8	210	3045	840	12180	51	0.364	T / S7
30CTX2-08	12.7	1/2"	21.6	207	3002	828	12006	89	0.494	T / S7



3360X2 MATERIAL HANDLING TWIN FORKLIFT

Application: Medium pressure two hoses permanently joined with good flexibility for over sheaves/pulleys on a wide range of older model forklifts. Other applications include general hydraulics/machine tools/agricultural equipment etc. Flexible even in cold temperatures. Excellent chemical resistance to common hydraulic fluids.

Construction: Nylon tube, braided synthetic fibre reinforcement, black non stick perforated polyester cover.

Temperature Range: -40°C to +100°C



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	mm	Kg/m	Series
3360x2-06	9.5	3/8"	18.4	207	3002	828	12006	76	0.39	S8



TPR18/TPR18X2/TPR18X3 MATERIAL HANDLING HOSE

Application: High pressure hydraulics, especially for operating over pulleys in heavy duty applications like cranes, boom lifts and fork-lifts, especially in low temperatures. Compact and tough construction, with low elongation. Extremely resistant to kinking and cover tearing, ideal for movement over fork-lift pulleys. In order to guarantee maximum performance and quality, during R&D a special custom tool was developed to simulate the actual fork-lift movements over pulleys whilst hose under impulse test. This special tool was also used to test the hose whilst in a climatic chamber to simulate thermal stresses and weathering cycles. Also available as twin-line & tri-line, refer to TPR18X2 / TPR18X3.

Construction: Smooth, seamless TPE tube, bonded high tenacity polyester fibre reinforcement, black perforated special polyester cover, UV stabilised and resistant to extreme temperatures.

Temperature Range: -54°C to +100°C

Specifications: SAE 100R18, ISO 3949 R18



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Vacuum Rating	Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	-bar	mm	Kg/m	Series
TPR18-04	6.4	1/4"	12.2	210	3045	840	12180	0.9	25	0.114	T
TPR18-05	7.9	5/16"	15.0	210	3045	840	12180	0.9	34	0.144	T
TPR18-06	9.5	3/8"	16.6	210	3045	840	12180	0.9	45	0.174	T
TPR18-08	12.7	1/2"	21.1	210	3045	840	12180	0.9	70	0.249	T
TPR18X2-04	6.4	1/4"	12.2	210	3045	840	12180	0.9	25	0.228	T
TPR18X2-05	7.9	5/16"	15.0	210	3045	840	12180	0.9	34	0.288	T
TPR18X2-06	9.5	3/8"	16.6	210	3045	840	12180	0.9	45	0.348	T
TPR18X2-08	12.7	1/2"	21.1	210	3045	840	12180	0.9	70	0.498	T
TPR18X3-05	7.9	5/16"	15.0	210	3045	840	12180	0.9	34	0.432	T



TPR7NC / TPR7NCX2 THERMOPLASTIC NON-CONDUCTIVE

Application: Medium pressure hose for use on general hydraulic systems that may contact high voltage sources. Aerial equipment/Mobile hydraulics/Rescue apparatus and tools. Flexible at low temperatures. Excellent bend radius. Compact and tough construction. Non-conductive - less than 50µA leakage when subjected to 250000 V/m. Also available as twin-line, refer to TPR7NCX2.

Construction: Smooth, seamless TPE tube, polyester fibre braid reinforcement, orange non perforated anti-abrasion polyerethane cover, UV stabilised.

Temperature Range: -40°C to +100°C

Specifications: SAE 100R7, ISO 3949 R7, ANSI A92.2



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Vacuum Rating	Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	-bar	mm	Kg/m	Series
TPR7NC-03	4.9	3/16"	10.0	210	3045	840	12180	0.9	30	0.073	T
TPR7NC-04	6.4	1/4"	11.8	200	2900	800	11600	0.9	35	0.09	T
TPR7NC-05	7.9	5/16"	14.3	190	2755	760	11020	0.9	45	0.128	T
TPR7NC-06	9.5	3/8"	16.0	175	2538	700	10150	0.9	55	0.155	T
TPR7NC-08	12.7	1/2"	20.3	140	2030	560	8120	0.9	75	0.219	T
TPR7NCX2-04	6.4	1/4"	11.8	200	2900	800	11600	0.9	35	0.18	T
TPR7NCX2-06	9.5	3/8"	16.0	175	2538	700	10150	0.9	55	0.31	T



TPR7NC / TPR7NCX2 THERMOPLASTIC NON CONDUCTIVE (SERIES 2)

Application: Medium pressure hose for use on general hydraulic systems that may contact high voltage sources. Aerial equipment/Mobile hydraulics/Rescue apparatus and tools. Flexible at low temperatures with excellent bend radius and low elongation. Compact and tough construction with extreme resistance to kinking and abrasion, ideal for narrow conduits. Non-conductive - less than 50µA leakage under 250000 V/m. Also available as twin-line, refer to TPR7NCX2.

Construction: Smooth, seamless TPE tube, polyester fibre braid reinforcement, orange non perforated anti-abrasion polyerethane cover, UV stabilised.

Temperature Range: -40°C to +100°C

Specifications: SAE 100R7, ISO 3949 R7, ANSI A92.2, MSHA



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Vacuum Rating	Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	-bar	mm	Kg/m	Series
TPR7NC-03-S2	4.9	3/16"	10.8	224	3248	896	12992	0.9	15	0.084	T
TPR7NC-04-S2	6.4	1/4"	12.1	207	3002	828	12006	0.9	25	0.095	T
TPR7NC-05-S2	7.9	5/16"	14.1	172	2494	688	9976	0.9	35	0.119	T
TPR7NC-06-S2	9.5	3/8"	16.0	155	2248	620	8990	0.9	45	0.149	T
TPR7NC-08-S2	12.7	1/2"	20.6	155	2248	620	8990	0.9	65	0.234	T
TPR7NCX2-04-S2	6.4	1/4"	12.1	207	3002	828	12006	0.9	25	0.190	T
TPR7NCX2-06-S2	9.5	3/8"	16.0	155	2248	620	8990	0.9	45	0.298	T



TPR8NC HIGH PRESSURE THERMOPLASTIC NON-CONDUCTIVE

Application: High pressure hose for use on general hydraulic systems that may contact high voltage sources. Aerial equipment/Mobile hydraulics/Rescue apparatus and tools. Flexible at low temperatures. Excellent bend radius. Low elongation. Non-conductive - less than 50µA leakage when subjected to 250000 V/m.

Construction: Smooth, seamless TPE tube, polyester fibre braid reinforcement, orange non perforated anti-abrasion polyurethane cover, UV stabilised.

Temperature Range: -40°C to +100°C

Specifications: SAE 100R8, ISO 3949 R8, MSHA



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Vacuum Rating	Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	-bar	mm	Kg/m	Series
TPR8NC-04	6.4	1/4"	11.8	350	5075	1400	20300	0.9	50	0.08	T
TPR8NC-06	9.5	3/8"	16.0	280	4060	1120	16240	0.9	70	0.14	T
TPR8NC-08	12.7	1/2"	20.3	245	3553	980	14210	0.9	95	0.19	T



TP1W / TP1WX2 ONE WIRE THERMOPLASTIC

Application: Medium pressure series hose created for hydraulic applications to replace R1AT hose where compact/flexibility and high abrasion resistance is required. Suitable for gas transfer. This hose is particularly recommended on mobile hydraulic equipment/particularly in marine environments including lift trucks. Very flexible. Light weight. Compact outside diameters. Abrasive resistant cover resistant to micro-organisms & good protection against hydrolysis. Available in twin-line - refer to TP1WX2.

Construction: Smooth, seamless TPE tube, one high tensile steel braid reinforcement, black perforated anti-abrasion polyurethane cover.

Temperature Range: -54°C to +100°C

Specifications: Meets or exceeds pressures of SAE 100R1AT, EN 853 1ST/1SN, EN 857 1SC, ISO 1436 1ST/1SN/R1AT, AS 3791 R1



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Vacuum Rating	Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	-bar	mm	Kg/m	Series
TP1W-03	4.9	3/16"	10.0	325	4713	1300	18850	0.9	30	0.133	T
TP1W-04	6.4	1/4"	11.9	300	4350	1200	17400	0.9	40	0.170	T
TP1W-05	7.9	5/16"	14.0	240	3480	960	13920	0.9	50	0.221	T
TP1W-06	9.5	3/8"	16.0	225	3263	900	13050	0.9	60	0.260	T
TP1W-08	12.7	1/2"	19.2	190	2755	760	11020	0.9	75	0.326	T
TP1WX2-04	6.4	1/4"	11.9	300	4350	1200	17400	0.9	40	0.340	T
TP1WX2-05	7.9	5/16"	14.0	240	3480	960	13920	0.9	50	0.442	T
TP1WX2-06	9.5	3/8"	16.0	225	3263	900	13050	0.9	60	0.520	T
TP1WX2-08	12.7	1/2"	19.2	190	2755	760	11020	0.9	75	0.652	T



TP2W TWO WIRE THERMOPLASTIC

Application: High pressure series hose created for high pressure applications to replace R2AT hose where compact/flexibility and high abrasion resistance is required. Suitable for the conduction of hydraulic oils Polyols/Solvents/Paints/airless paint spray and compatible gases. Very flexible. Light weight. Compact outside diameters. Abrasive resistant cover. Refer to chemical resistance table for compatibility.

Construction: Smooth, seamless TPE tube, two high tensile steel braid reinforcement, black perforated anti-abrasion polyurethane cover.

Temperature Range: -40°C to +100°C

Specifications: Meets or exceeds pressures of SAE 100R2AT, EN 853 2SN, EN 857 2SN, ISO 1436 2SN/R2AT, AS 3791 R2



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Vacuum Rating	Bend Radius	Weight	Fitting Type
	mm	in		bar	psi	bar	psi				
TP2W-04	4.9	1/4"	13.5	400	5800	1600	23200	0.9	40	0.286	K
TP2W-06	9.5	3/8"	17.0	330	4785	1320	19140	0.9	60	0.408	K
TP2W-08	12.7	1/2"	22.0	275	3988	1100	15950	0.9	75	0.582	K



DAS DIFFUSION ABRASION SLEEVE

Application: Protection of individual hoses from severe abrasion, and a cost effective method of bundling hoses together providing abrasion resistance to the bundle. Sleeve acts as a burst suppression device (though not total) when securely fixed to the hose ferrule. Good leakage containment in the event of hose failure.

Construction: Densely woven, multi-filament, tubular sleeve of black or red nylon (polyamide 6).

Temperature Range: -60°C to +125°C **Melting Point:** +225°C +/- 10°C

Specifications: USMSHA, MDG41, ISO 8031 (Electrical Conductivity), ISO 6945 (Abrasion resistance), SAE J343 (Oil Retention Capacity)



Product Code		Nominal ID (mm)		Coil Length
Black	Red	Flat	Round Ø	m
DAS-20	DAS-20RD	31	20	50
DAS-25	DAS-25RD	39	25	50
DAS-31	DAS-31RD	49	31	50
DAS-40	DAS-40RD	63	40	50
DAS-53	DAS-53RD	83	53	50
DAS-60	DAS-60RD	94	60	50
DAS-73	DAS-73RD	115	73	50
DAS-93	DAS-93RD	146	93	50
DAS-112	DAS-112RD	176	112	50



DAS CRIMP RINGS

Application: Circular rings used to secure Diffusion Abrasion Sleeve (DAS) along with fire sleeve and braided stainless steel sleeve.

Construction: 304 Grade Stainless Steel



Product Code	ID (mm)	OD (mm)	Width (mm)
DAS-CR-025	25	28	25
DAS-CR-029	29	32	25
DAS-CR-031	31	34	30
DAS-CR-035	35	38	30
DAS-CR-039	39	42	30
DAS-CR-048	48	51	30
DAS-CR-057	57	60	30
DAS-CR-060	60.5	63.5	35
DAS-CR-072	72	76	35
DAS-CR-085	85	89	35
DAS-CR-098	98	102	40
DAS-CR-104	104	108	40



SSG /FRASG SPIRAL SAFETY GUARD AND FRAS GUARD

Application: Lightweight, cost-effective protection of hoses and cables from abrasion and impact. It can also be used to bundle hoses together in groups. Can be retrofitted to existing hoses while in place. Self lubricating properties. Exceptional anti-crushing and abrasion resistance.

Construction: Polyethylene plastic spiral with rounded edges to protect hose cover. Polyethylene is not affected by exposure to air, water, hydraulic oil and many other fluids.

Temperature Range: -100°C to +100°C



Product Code				Dimensions		Coil Length	Hose OD Range	Hose Application Guide
Safety Spiral Guard		FRAS Guard		OD	ID			
Black	Red	Black	Red	mm	mm	m	mm	
SSG-012BL	SSG-012RD	-	-	12.0	8.5	20	9 - 12	JW250/A-04
SSG-016BL	SSG-016RD	FRASG-016BL	-	14.5	12.0	20	12 - 17	HTAB-04/05, JH70-04/06, PC42-04, R1AT-04, R2AT-04
SSG-020BL	SSG-020RD	FRASG-020BL	-	18.0	15.0	20	16 - 22	C42-06, HTAB-06/08, JW400/A-06, PC35-06 R2AT-06/08, R2AT-06
SSG-025BL	SSG-025RD	FRASG-025BL	-	22.0	19.0	20	22 - 28	P/C35-08, C42-08, HTAB-10, R2AT-08/10, WB2-08
SSG-032BL	SSG-032RD	FRASG-032BL	FRASG-032RD	27.0	23.0	20	27 - 33	C42-12, HT1-12, HTAB-12, HTFH-16, PC25-10/12, PC35-10/12, R1AT-12, R2AT-12, WB2-12, WB3-08
SSG-040BL	-	FRASG-040BL	FRASG-040RD	37.0	32.5	20	33 - 43	C25-16, C42-16, HT1-16, PC36-16, R1AT-16, R2AT-16
SSG-050BL	-	FRASG-050BL	FRASG-050RD	48.0	43.5	20	44 - 55	C42-20, HT2-20/24, HTFH-24, PC25-20/24, PC35-20/24, PC42-24, R1AT-20/24, R2AT-20/24
SSG-063BL	-	FRASG-063BL	FRASG-063RD	58.0	52.5	20	54 - 65	R1AT-32
SSG-075BL	-	FRASG-075BL	FRASG-075RD	69.0	63.0	10	65 - 80	C21-32, C35-32, HT2-32, PC42-32, R2AT-32
SSG-090BL	-	FRASG-090BL	FRASG-090RD	83.5	76.5	10	80 - 150	2SC-48, JBF-40, R2AT-40
SSG-110BL	-	FRASG-110BL	FRASG-110RD	99.0	91.5	10	150 - 170	



FCS STEEL SPRING GUARD

Application: Spring guard prolongs the life of hoses that are exposed to severe operating conditions by distributing bend radius and protecting against abrasion and deep gouges.



Construction: Heavy gauge galvanised steel wire.

Product Information						Hose Application Guide						
Part No.	ID (mm)	OD (mm)	Wire Ø	Pitch	Box QTY	R1AT/PE2	R2AT	PC25 / PE435	C35	PC35	C42/ PC42	PE442 / PE642
FCS-00	7.0	9.5	1.2	4.0	10 × 5m	Suits DN2 mini test hose and 3 × 6mm lubrication tube						
FCS-01	10.8	13.2	1.2	5.0	10 × 5m	Suits small diameter thermoplastic and STH hose						
FCS-02	13.0	15.2	1.2	5.0	4 × 5m							
FCS-03	15.0	18.2	1.6	5.5	10 × 5m	-03, -04	-03	-	-	-	-	-
FCS-04	16.0	19.2	1.6	5.5	10 × 5m	-05	-04		-05	-05	-04	-04
FCS-06	20.0	23.2	1.6	5.5	8 × 5m	-06	-05, -06		-06	-06		
FCS-08	23.5	27.5	2.0	6.0	6 × 5m	-08	-08		-08	-08	-06	-06
FCS-10	26.5	30.5	2.0	6.0	5 × 5m	-10	-10	-10			-08	-08
FCS-11	30.0	34.0	2.0	6.0	5 × 5m	-12		-12	-10, -12	-10, -12		
FCS-12	33.0	38.0	2.0	6.0	4 × 5m	-	-12				-12	-12
FCS-14	38.0	43.0	2.5	7.5	3 × 5m	Used in conjunction with DAS sleeve on -12 sizes						
FCS-16	41.0	46.0	2.5	7.5	3 × 5m	-16	-16	-16	-16	-16	-16	-16
FCS-20	48.5	53.6	2.5	7.5	2 × 5m	-20	-20	-20		-20		
FCS-24	54.0	59.6	2.8	9.0	2 × 5m	-24			-20		-20	-20
FCS-30	59.5	65.1	2.8	7.5	2 × 5m	-	-24	-24	-24	-24	-24	-24
FCS-32	69.0	75.3	3.1	9.0	2 × 5m	-32	-32					
FCS-36	75.0	81.3	3.1	7.5	1 × 5m	-			-32		-32	
FCS-38	83.0	89.3	3.1	12.0	1 × 5m	Suits R2AT-40 / R4HT-40						



HWC HOSE WHIP CHECK

Application: Prevents whipping of pressurised hose assembly if it separates from its fitting. HWC provides an additional level of safety by helping prevent injury to operators and equipment near the failed hose assembly by limiting the travel or 'whip' of the pressurised hose after separation.

Construction: G1570 FC Gavanised steel rope highly resistant to rust and corrosion, mild steel ferrules and zinc plated steel spring.

Specifications: Max 200PSI working pressure for air.



Product Code	Cable Size (mm)	Suit Hose ID (in)	Max Break Force (kN)	Length (mm)
HWC-01	3.6	3/8 - 1-1/4"	5.6	510
HWC-02	6.0	1-1/4 - 2"	17.6	810
HWC-03	6.0	2-1/2 - 4"	17.6	1200



HCS HOSE CABLE STOCKING

Application: Suited to heavy industrial, mining, oil&gas, quarries or construction industries where the transfer of media is under high working pressure. Cable stockings prevent hose whip in the event it separates from the fitting or clamp device.

Construction: 2070 Galvanised wire, alloy ferrules, heavy-duty galvanised thimbles, heat shrink safety protection.

Options: Other configurations include: Single offset eye, 4 eye (double eye double end) Also available with stainless steel wire, copper ferrules and stainless steel thimbles.



Part No	Suit Hose OD	Wire Ø	Sets x Plys	Eye Length	Grip Length	Aggregate Breaking Strength All Strands		Tensile Strength
	mm	mm	mm	mm	mm	Kg	kN	kN
HCS30-40	28 - 40	1.5	6 x 2	200	600	5800	57	24
HCS40-50	40 - 50	1.5	6 x 2	230	800	5800	57	35
HCS50-60	50 - 60	2.0	6 x 2	290	800	10000	100	62
HCS60-70	60 - 70	2.0	6 x 2	290	900	10000	100	62
HCS70-85	70 - 85	2.0	6 x 2	290	1000	10000	100	62
HCS85-100	85 - 100	2.5	6 x 2	390	1000	16000	158	98
HCS100-120	100 - 120	2.5	6 x 2	400	1200	16000	158	133
HCS120-150	120 - 150	2.5	8 x 2	420	1400	21500	211	187
HCS150-190	150 - 190	3	8 x 2	450	1600	31000	305	283



CTSL INDUSTRIAL / AEROSPACE SILCO SLEEVE

Application: Designed to protect hose, wire and cable from the hazards of high heat and occasional flame. Both products will protect continuously to 260° C and withstand molten splash to 1200° C. The silicone coating is resistant to hydraulic fluids, lubricating oils and fuels. The products insulate against energy loss from conduits, protect personnel from burns, and facilitate bundling of wire, hoses and cables.

Construction: Flexible substrate covered with high grade silicone rubber. Industrial - Knitted fiberglass yarn. Aerospace - Braided fiberglass yarn.

Specifications: Aerospace sleeve allows qualified hose assemblies to pass AS1055D testing under stated flow & pressure conditions.

Sealing/Attachment: Silco tape in either 25mm or 45mm widths. The tape has equivalent properties to the sleeving.



Product No		SAE Dash Size	Nominal ID		Recommended Silco Tape	Kg/m		Box Size
Industrial	Aerospace		in	mm		Industrial	Aerospace	m
CTINSL-006	CTAESL-006	4	1/4	6	CTSITA-025	0.10	0.12	30
CTINSL-010	CTAESL-010	6	3/8	10		0.13	0.16	30
CTINSL-013	CTAESL-013	8	1/2	13		0.16	0.19	30
CTINSL-016	CTAESL-016	10	5/8	16		0.18	0.21	30
CTINSL-019	CTAESL-019	12	3/4	19		0.24	0.24	30
CTINSL-022	CTAESL-022	14	7/8	22		0.24	0.28	30
CTINSL-025	CTAESL-025	16	1	25		0.27	0.33	30
CTINSL-029	CTAESL-029	18	1.1/8	29		0.31	0.35	30
CTINSL-032	CTAESL-032	20	1.1/4	32		0.35	0.39	30
CTINSL-035	CTAESL-035	22	1.3/8	35		0.39	0.45	30
CTINSL-038	CTAESL-038	24	1.1/2	38		0.41	0.48	30
CTINSL-041	CTAESL-041	26	1.5/8	41		0.48	0.52	30
CTINSL-044	CTAESL-044	28	1.3/4	44		0.50	0.64	30
CTINSL-051	CTAESL-051	32	2	51		0.53	0.67	30
CTINSL-057	CTAESL-057	36	2.1/4	57		0.63	0.74	30
CTINSL-064	CTAESL-064	40	2.1/2	64		0.69	0.74	30
CTINSL-070	CTAESL-070	44	2.3/4	70	CTSITA-045	0.73	0.88	30
CTINSL-076	CTAESL-076	48	3	76		0.81	1.03	30
CTINSL-083	CTAESL-083	52	3.1/4	83		0.84	1.13	30
CTINSL-089	CTAESL-089	56	3.1/2	89		0.91	1.18	30
CTINSL-095	CTAESL-095	60	3.3/4	95		0.98	1.34	30
CTINSL-102	CTAESL-102	64	4	102		1.06	1.41	30
CTINSL-114		72	4.1/2	114		1.44		30
CTINSL-127		80	5	127		1.71		30



CTFGSL FIBREGLASS SLEEVE

Application: Economical hose and cable protection where exposure to molten splash, oils or moisture is not a factor. Ideal general purpose temperature insulation and protection. Applications include boiler, coke oven, industrial oven, and wood stove doors; crucible packing, pollution control equipment; and pipe wrap. Anywhere the goal is keeping heat in its place.

Construction: High-quality braided fiberglass that will not burn. Can withstand continuous exposure to 540°C. Resistant to the majority of acids and alkalis. Unaffected by bleaches and solvents. Highly flexible.

Specifications: ASTM D-578, ASTM committee D13, and subcommittee D13.18.

Attachment: Stainless steel crimp rings.

Product Code		Dash Size		Nominal ID		Box Size
Silica Sleeve	Fiberglass Sleeve	SAE	DN	in	mm	m
CTSISL-006	CTFGSL-006	4	6	1/4"	6	30
CTSISL-010	CTFGSL-010	6	10	3/8"	10	30
CTSISL-013	CTFGSL-013	8	13	1/2"	13	30
CTSISL-016	CTFGSL-016	10	16	5/8"	16	30
CTSISL-019	CTFGSL-019	12	19	3/4"	19	30
CTSISL-022	CTFGSL-022	14	22	7/8"	22	30
CTSISL-025	CTFGSL-025	16	25	1"	25	30
CTSISL-032	CTFGSL-032	20	32	1.1/4"	32	30
CTSISL-038	CTFGSL-038	24	38	1.1/2"	38	30
CTSISL-044	CTFGSL-044	28	44	1.3/4"	44	30
CTSISL-051	CTFGSL-051	32	51	2"	51	30
CTSISL-064	CTFGSL-064	40	64	2.1/2"	64	30
CTSISL-076	CTFGSL-076	48	76	3"	76	30
CTSISL-089	CTFGSL-089	56	89	3.1/2"	89	30
CTSISL-102	CTFGSL-102	64	102	4"	102	30
CTSISL-127	CTFGSL-127	80	127	5"	127	30



CTBRAID BRAIDED STAINLESS STEEL WIRE SLEEVE

Application: Economical hose protection resistant to molten splash, oils, most chemicals, and corrosive environments. Ideal for armoring hydraulic and industrial hoses and electrical cables without losing flexibility. Electrical continuity between armour and end fittings is easily provided if static electricity needs to be dissipated.

Construction: Braided SS304 wire.

Attachment: Stainless steel crimp rings.



SS304 BRAIDED SLEEVE			SS304 CRIMP RING (SINGLE BRAID)			SS304 CRIMP RING (DOUBLE BRAID)		
Part No	DN Dash Size	Nominal ID (mm)	Part No	ID (mm)	Width (mm)	Part No	ID (mm)	Width (mm)
CTBRAID-006	6	11	CTSWRNG-006	11	20	CTBRAID-006	14.4	20
CTBRAID-008	8	14	CTSWRNG-008	14.4	20	CTBRAID-008	15.5	20
CTBRAID-010	10	18	CTSWRNG-010	17.8	20	CTBRAID-010	19	20
CTBRAID-012	12	21	CTSWRNG-012	21.7	20	CTBRAID-012	22.9	20
CTBRAID-016	16	25	CTSWRNG-016	25	20	CTBRAID-016	26.2	20
CTBRAID-020	20	30	CTSWRNG-020	30	25	CTBRAID-020	30.4	25
CTBRAID-025	25	37	CTSWRNG-025	37.8	25	CTBRAID-025	39.8	25
CTBRAID-032	32	44	CTSWRNG-032	44.2	30	CTBRAID-032	46.6	30
CTBRAID-040	40	54	CTSWRNG-040	54.7	30	CTBRAID-040	57.2	30
CTBRAID-050	50	68	CTSWRNG-050	68	35	CTBRAID-050	70	35
CTBRAID-065	65	86	CTSWRNG-065	86.7	35	CTBRAID-065	88	35
CTBRAID-080	80	99	CTSWRNG-080	99	40	CTBRAID-080	101.2	40
CTBRAID-100	100	121	CTSWRNG-100	121	50	CTBRAID-100	123	50

R14 STAINLESS STEEL PTFE HOSE SAE 100R14

Application: Hydraulics, automotive, paints, solvents, marine, food & beverage, steam & compressed air. Not suitable for cold/hot cycling. Non-conductive, food grade easy to clean and sterilize tube. Increased flexibility to withstand continuous vibration or impulse.

Construction: FDA compliant Khemgard PTFE smooth bore tube, one braid AISI 304SS reinforcement braid that also serves as the outer cover.

Temperature Range: -73°C to +232°C

Specifications: SAE 100R14, FDA Compliant tube food and beverage.



Part No	Hose ID		Hose OD	Working Pressure		Burst Pressure		Vacuum Rating	Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	bar	psi	-bar	mm	Kg/m	Series
R14-03	4.8	3/16"	7.6	207	3002	828	12006	0.9	35	0.11	T / TP
R14-04	6.3	1/4"	8.9	207	3002	828	12006	0.9	45	0.13	T
R14-05	7.8	5/16"	10.9	172	2494	688	9976	0.9	5	0.19	T
R14-06	9.4	3/8"	12.4	155	2248	620	8990	0.9	55	0.22	T
R14-08	12.7	1/2"	15.7	121	1755	484	7018	0.9	70	0.31	T
R14-10	16.0	5/8"	19.0	103	1494	412	5974	0.5	130	0.37	T
R14-12	19.0	3/4"	22.1	76	1102	304	4408	0.5	190	0.48	T
R14-16	25.4	1"	29.2	62	899	248	3596	0.4	270	0.66	T



R14 PRESSURE REDUCTION TABLE	
TEMPERATURE RANGE	% OF WORKING PRESSURE
-60°C to +40°C	100%
+40°C to +100°C	90%
+100°C to +150°C	55%
+150°C to +200°C	30%
+200°C to +260°C	10%

STH STAINLESS STEEL TEFLON HOSE

Application: Medium pressure non-contaminating hose for use with a broad range of chemical resistance. It is inert to most commercial chemicals/acids/alcohols/coolants/elastomers/petroleum products/solvents/vinyls/synthetic lubricants/hydraulic fluids/steam and compressed air. Not suitable for cold and hot (including steam) cycling as can cause the tube to crack. Inner liner is non-conductive - do not use with high velocity fluids and gases. A conductive tubed PTFE hose product is necessary.

Features: Withstands continuous flexing/vibration or impulse. Easy to clean and sterilize and absorbs no moisture hot or cold. High flow rates with low coefficient of friction and anti-stick properties. PTFE hose resists deterioration and is impervious to weather with a long life expectancy when applied within its temperature and pressure ratings.

Construction: Extruded virgin seamless smooth bore PTFE tube, one braid (-03 to -12) and two braid (-16) 304SS reinforcement braids that also serve as the outer cover.

Temperature Range: -54°C to +230°C

Specifications: Minimum bend radius quoted is based on static applications - for dynamic applications multiply the bend radius by 1.25. Meets or exceeds the performance specification of SAE 100R14A.



Part No	Hose ID		Hose OD	Working Pressure		Vacuum Rating	Burst Pressure		Bend Radius	Weight	Fitting Type
	mm	in	mm	bar	psi	-bar	bar	psi	mm	Kg/m	Series
STH-03	4.9	3/16"	7.6	206	2987	0.9	824	11948	50	0.09	T / TP
STH-04	6.4	1/4"	9.5	206	2987	0.9	824	11948	75	0.12	T
STH-05	7.9	5/16"	10.9	172	2494	0.9	688	9976	100	0.15	T
STH-06	9.5	3/8"	12.8	138	2001	0.9	552	8004	125	0.18	T
STH-08	12.7	1/2"	16.3	120	1740	0.9	480	6960	165	0.24	T
STH-10	15.9	5/8"	19.2	103	1494	0.9	412	5974	187	0.27	T
STH-12	19.1	3/4"	22.6	69	1001	0.9	276	4002	212	0.35	T
STH-16	25.4	1"	30.9	69	1001	0.4	276	4002	304	0.44	T

*Use of an internal support coil for hoses -6 and larger is recommended for tube support where continuous or extended service at high temperature together with low or negative pressure is expected.



STH PRESSURE REDUCTION TABLE	
TEMPERATURE RANGE	% OF WORKING PRESSURE
+121°C to +200°C	85%
+201°C up to +230°C	80%