

YOUR **FLOW** TECHNOLOGY SPECIALIST



PRODUCT
CATALOGUE





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THE **FLOW** TECHNOLOGY SPECIALIST

UNICAL is one of the world's leading manufacturers of Flow Technology components. Over the years, our solutions have reflected the precision, efficacy and reliability that the UNICAL brand has come to be known for, and that mark of quality has become our calling card. Founded in the UK, UNICAL caters to a global market and diverse industries. As a manufacturer and supplier of best-in-class industrial and hydraulic hoses, couplings and fittings, innovation is key. That is why every UNICAL product follows stringent engineering guidelines and proprietary manufacturing technology, resulting in solutions built not only upon quality, but cost efficiency as well.

SAFETY



At UNICAL, we prioritise safety above all else. All our engineering and manufacturing processes are governed by strict guidelines and regulations, ensuring that our solutions are developed with the quality and reliability that our customers have come to expect from the UNICAL brand. Every product also goes through rigorous testing phases before being released, ensuring that the highest standards are adhered to. As part of our efforts to maintain these standards, UNICAL has become certified for the following:





HYDRAULIC HOSES



UNICAL USP – EN856 (4SP)

SPIRAL WIRE HOSE

APPLICATION

Extreme high pressure and high pressure hydraulic application. Meets EN856(4SP) specification.

CONSTRUCTION

- Inner Tube** : Oil resistant synthetic rubber NBR
- Outer Cover** : Oil, environment, abrasion resistant synthetic rubber
- Reinforcement** : 4 layers high tensile spiral wire
- Temperature** : -40°C to 120°C continuous service
- Standards** : Meet and exceeds EN856 TYPE 4SP



PRODUCT CODE	INNER DIAMETER		OUTER DIAMETER	WORKING PRESSURE		MIN. BURST PRESSURE		MIN BEND RADIUS	WEIGHT
	Inch	mm	mm	PSI	Bar	PSI	Bar	mm	Kg/m
USP-6A	3/8	9.5	18.2	6520	450	26080	1800	180	0.74
USP-8A	1/2	12.7	21.1	6090	420	24360	1680	210	0.88
USP-10A	5/8	15.9	24.7	5500	380	22040	1520	260	1.08
USP-12A	3/4	19.1	29.2	5500	380	22040	1520	280	1.45
USP-16A	1	25.4	36.2	4600	320	18560	1250	360	1.88
USP-20A	1 1/4	31.8	47.2	3040	210	12160	840	460	2.99
USP-24A	1 1/2	38.1	53.5	2680	185	10720	740	560	3.50
USP-32A	2	50.8	66.7	2530	175	10120	700	660	5.00

UNICAL USH – EN856(4SH)

SPIRAL WIRE HOSE

APPLICATION

Extreme high pressure and high pressure hydraulic application. Meets EN856(4SH) specification.

CONSTRUCTION

- Inner Tube** : Oil resistant synthetic rubber NBR
- Outer Cover** : Oil, environment, abrasion resistant synthetic rubber
- Reinforcement** : 4 layers high tensile spiral wire
- Temperature** : -40°C to 120°C continuous service
- Standards** : Meet and exceeds EN856 TYPE 4SH



PRODUCT CODE	INNER DIAMETER		OUTER DIAMETER	WORKING PRESSURE		MIN. BURST PRESSURE		MIN BEND RADIUS	WEIGHT
	Inch	mm	mm	PSI	Bar	PSI	Bar	mm	Kg/m
USH-10A	5/8	15.9	24.7	6520	450	26080	1800	250	1.290
USH-12A	3/4	19.1	29.1	6090	420	24360	1680	280	1.500
USH-16A	1	25.4	38.7	5580	385	22320	1540	340	2.040
USH-20A	1 1/4	31.8	42.7	5070	350	20280	1400	460	2.410
USH-24A	1 1/2	38.1	49.7	4350	300	17400	1200	560	3.170
USH-32A	2	50.8	64.0	3620	250	14480	1000	700	4.460

UNICAL US15 – SAE100R15

SPIRAL WIRE HOSE

APPLICATION

Extreme high pressure and high pressure hydraulic application. Meets SAE100R15 specification.

CONSTRUCTION

- Inner Tube** : Oil resistant synthetic rubber NBR
- Outer Cover** : Oil, environment, abrasion resistant synthetic rubber
- Reinforcement** : 4 layers high tensile spiral wire for size 1 inch and below, 6 layers for size 1-1/4 inch to 2 inch
- Temperature** : -40°C to 120°C continuous service
- Standards** : Meet and exceeds SAE100R15, ISO 3862



PRODUCT CODE	INNER DIAMETER		OUTER DIAMETER	WORKING PRESSURE		MIN. BURST PRESSURE		MIN BEND RADIUS	WEIGHT
	Inch	mm	mm	PSI	Bar	PSI	Bar	mm	Kg/m
US15-6A	3/8	9.5	23.3	6090	420	24360	1680	150	0.81
US15-8A	1/2	12.7	26.8	6090	420	24360	1680	200	0.96
US15-10A	5/8	15.9	29.1	6090	420	24360	1680	230	1.21
US15-12A	3/4	19.1	36.1	6090	420	24360	1680	265	1.440
US15-16A	1	25.4	42.9	6090	420	24360	1680	330	2.040
US15-20A	1 1/4	31.8	51.5	6090	420	24360	1680	445	3.660
US15-24A	1 1/2	38.1	59.6	6090	420	24360	1680	530	4.700
US15-32A	2	50.8	71.1	6090	420	24360	1680	625	4.86

UNICAL US13 – SAE100R13

SPIRAL WIRE HOSE

APPLICATION

Extreme high pressure and high pressure hydraulic application. Meets SAE100R13 specification.

CONSTRUCTION

- Inner Tube** : Oil resistant synthetic rubber NBR
- Outer Cover** : Oil, environment, abrasion resistant synthetic rubber
- Reinforcement** : 4 layers high tensile spiral wire for size 1 inch and below, 6 layers for size 1-1/4 inch to 2 inch
- Temperature** : -40°C to 120°C continuous service
- Standards** : Meet and exceeds SAE100R13, ISO 3862



PRODUCT CODE	INNER DIAMETER		OUTER DIAMETER	WORKING PRESSURE		MIN. BURST PRESSURE		MIN BEND RADIUS	WEIGHT
	Inch	mm	mm	PSI	Bar	PSI	Bar	mm	Kg/m
US13-6A	3/8	9.5	19.8	5070	350	20280	1400	130	0.830
US13-8A	1/2	12.7	23.5	5070	350	20280	1400	190	1.140
US13-10A	5/8	15.9	26.8	5070	350	20280	1400	200	1.17
US13-12A	3/4	19.1	33.2	5070	350	20280	1400	240	1.630
US13-16A	1	25.4	39.8	5070	350	20280	1400	300	2.190
US13-20A	1 1/4	31.8	51.3	5070	350	20280	1400	420	3.600
US13-24A	1 1/2	38.1	58.8	5070	350	20280	1400	500	4.700
US13-32A	2	50.8	72.7	5070	350	20280	1400	640	6

UNICAL US12 – SAE100R12

SPIRAL WIRE HOSE

APPLICATION

Extreme high pressure and high pressure hydraulic application. Meets SAE100R12 specification.

CONSTRUCTION

- Inner Tube** : Oil resistant synthetic rubber NBR
- Outer Cover** : Oil, environment, abrasion resistant synthetic rubber
- Reinforcement** : 4 layers high tensile spiral wire
- Temperature** : -40°C to 120°C continuous service
- Standards** : Meet and exceeds SAE100R12, ISO 3862



PRODUCT CODE	INNER DIAMETER		OUTER DIAMETER	WORKING PRESSURE		MIN. BURST PRESSURE		MIN BEND RADIUS	WEIGHT
	Inch	mm	mm	PSI	Bar	PSI	Bar	mm	Kg/m
US12-6A	3/8	9.5	21.0	4060	280	16240	1120	125	0.620
US12-8A	1/2	12.7	24.6	4060	280	16240	1120	180	0.720
US12-10A	5/8	15.9	28.2	4060	280	16240	1120	200	0.990
US12-12A	3/4	19.1	31.5	4060	280	16240	1120	240	1.160
US12-16A	1	25.4	39.2	4060	280	16240	1120	300	1.760
US12-20A	1 1/4	31.8	48.6	3040	210	12160	840	420	2.280
US12-24A	1 1/2	38.1	55.0	2530	175	10120	700	500	3.130
US12-32A	2	50.8	68.3	2530	175	10120	700	640	4.440

UNICAL UB19 – SAE100R19

BRAIDED WIRE HOSE

APPLICATION

High pressure hydraulic application. Meet and exceeds SAE100R19, ISO 11237 R19 specification.

CONSTRUCTION

- Inner Tube** : Oil resistant synthetic rubber Nitrile
- Outer Cover** : Oil, environment, abrasion resistant synthetic rubber
- Reinforcement** : 2 layers high tensile wire
- Temperature** : -40°C to 100°C continuous service
- Standards** : Meet and exceeds SAE100R19, ISO11237 R19



PRODUCT CODE	INNER DIAMETER		OUTER DIAMETER	WORKING PRESSURE		MIN. BURST PRESSURE		MIN BEND RADIUS	WEIGHT
	Inch	mm	mm	PSI	Bar	PSI	Bar	mm	Kg/m
UB19-4	1/4	6.35	14.4	4000	276	16000	1103	50	0.22
UB19-5	5/16	7.94	16.3	4000	276	16000	1103	55	0.25
UB19-6	3/8	9.53	18.00	4000	276	16000	1103	65	0.47
UB19-8	1/2	12.70	22.60	4000	276	16000	1103	90	0.59
UB19-10	5/8	15.88	27.50	4000	276	16000	1103	100	0.75
UB19-12	3/4	19.05	32.50	4000	276	16000	1103	120	1.47

UNICAL UB17 – SAE100R17

BRAIDED WIRE HOSE

APPLICATION

High pressure hydraulic application. Meet and exceeds SAE100R17, ISO 11237 R17 specification.

CONSTRUCTION

- Inner Tube** : Oil resistant synthetic rubber Nitrile
- Outer Cover** : Oil, environment, abrasion resistant synthetic rubber
- Reinforcement** : 1 and 2 layers high tensile braid wire
- Temperature** : -40°C to 100°C continuous service
- Standards** : Meet and exceeds SAE100R17, ISO 11237 R17



PRODUCT CODE	INNER DIAMETER		OUTER DIAMETER	WORKING PRESSURE		MIN. BURST PRESSURE		MIN BEND RADIUS	WEIGHT
	Inch	mm	mm	PSI	Bar	PSI	Bar	mm	Kg/m
UB17-4A	¼	6.35	12.5	3040	210	12160	838	50	0.185
UB17-5A	⅝	7.94	14.3	3040	210	12160	838	55	0.215
UB17-6A	¾	9.53	16.5	3040	210	12160	838	65	0.305
UB17-8A	½	12.70	19.7	3040	210	12160	838	90	0.420
UB17-10A	⅝	15.88	24.0	3040	210	12160	838	100	0.750
UB17-12A	¾	19.05	28.0	3040	210	12160	838	120	0.900
UB17-16A	1	25.40	36.2	3040	210	12160	838	150	1.150

UNICAL UB16 – SAE100R16

BRAIDED WIRE HOSE

APPLICATION

High pressure hydraulic application. Meet and exceeds SAE100R16, SAE100R2, ISO 11237 specification.

CONSTRUCTION

- Inner Tube** : Oil resistant synthetic rubber Nitrile
- Outer Cover** : Oil, environment, abrasion resistant synthetic rubber
- Reinforcement** : 2 layers high tensile braid wire
- Temperature** : -40°C to 100°C continuous service
- Standards** : Meet and exceeds SAE100R16, ISO11237, SAE100R2



PRODUCT CODE	INNER DIAMETER		OUTER DIAMETER	WORKING PRESSURE		MIN. BURST PRESSURE		MIN BEND RADIUS	WEIGHT
	Inch	mm	mm	PSI	Bar	PSI	Bar	mm	Kg/m
UB16-4A	¼	6.4	13.5	5000	345	20000	1379	50	0.31
UB16-5A	⅝	7.9	15.0	4250	293	17000	1172	55	0.34
UB16-6A	¾	9.5	17.2	4000	276	16000	1103	65	0.43
UB16-8A	½	12.7	20.5	3500	241	14000	966	90	0.55
UB16-10A	⅝	15.9	24.0	2750	190	11000	759	100	0.69
UB16-12A	¾	19.1	27.8	2250	155	9000	621	120	0.82
UB16-16A	1	25.4	35.9	2000	138	8000	552	150	1.17

UNICAL UB2 – SAE100R2

2-BRAIDED WIRE HOSE

APPLICATION

High pressure hydraulic application. Meet and exceeds SAE100R2AT and EN853 2SN specification.

CONSTRUCTION

- Inner Tube** : Oil resistant synthetic rubber Nitrile
- Outer Cover** : Oil, environment, abrasion resistant synthetic rubber
- Reinforcement** : 2 layers high tensile braid wire
- Temperature** : -40°C to 100°C continuous service
- Standards** : Meet and exceeds SAE100R2, ISO1436, EN853 2SN



PRODUCT CODE	INNER DIAMETER		OUTER DIAMETER	WORKING PRESSURE		MIN. BURST PRESSURE		MIN BEND RADIUS	WEIGHT
	Inch	mm	mm	PSI	Bar	PSI	Bar	mm	Kg/m
UB2-4	¼	6.4	13.1	5800	399	23200	1599	100	0.370
UB2-5	⅜	7.9	14.7	5070	350	20280	1398	115	0.410
UB2-6	½	9.5	17.1	4780	330	19120	1318	130	0.530
UB2-8	¾	12.7	20.4	3980	274	15920	1098	180	0.620
UB2-10	1	15.9	23.3	3620	250	14480	998	200	0.720
UB2-12	1 ¼	19.1	27.5	3110	214	12440	858	240	0.940
UB2-16	1 ½	25.4	35.5	2390	165	9560	659	300	1.290
UB2-20	2	31.8	45.4	1810	125	7240	500	420	1.944
UB2-24	2 ¼	38.1	51.4	1300	90	5200	359	500	2.250
UB2-32	3	50.8	64.4	1160	80	4640	320	630	2.900

UNICAL UB2-HT HIGH-TEMP – SAE100R2 (HI-TEMP)

2-BRAIDED WIRE HOSE

APPLICATION

High temperature and high pressure hydraulic application. Meet and exceeds SAE100R2AT and EN853 2SN specification.

CONSTRUCTION

- Inner Tube** : Oil resistant synthetic rubber Nitrile
- Outer Cover** : Oil, environment, abrasion resistant synthetic rubber
- Reinforcement** : 2 layers high tensile braid wire
- Temperature** : -40°C to 135°C continuous service
- Standards** : Meet and exceeds SAE100R2, ISO1436, EN853 2SN



PRODUCT CODE	INNER DIAMETER		OUTER DIAMETER	WORKING PRESSURE		MIN. BURST PRESSURE		MIN BEND RADIUS	WEIGHT
	Inch	mm	mm	PSI	Bar	PSI	Bar	mm	Kg/m
UB2-4-HT	¼	6.4	13.1	5800	399	23200	1599	100	0.395
UB2-5-HT	⅜	7.9	14.7	5070	350	20280	1398	115	0.435
UB2-6-HT	½	9.5	17.1	4780	330	19120	1318	130	0.530
UB2-8-HT	¾	12.7	20.4	3980	274	15920	1098	180	0.640
UB2-10-HT	1	15.9	23.3	3620	250	14480	998	200	0.760
UB2-12-HT	1 ¼	19.1	27.5	3110	214	12440	858	240	0.940
UB2-16-HT	1 ½	25.4	35.5	2390	165	9560	659	300	1.350
UB2-20-HT	2	31.8	45.4	1810	125	7240	500	420	2.010
UB2-24-HT	2 ¼	38.1	51.4	1300	90	5200	359	500	2.250
UB2-32-HT	3	50.8	64.4	1160	80	4640	320	630	3.080

UNICAL UB1 – SAE100R1

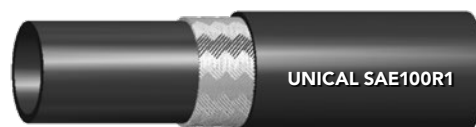
1-BRAIDED WIRE HOSE

APPLICATION

High pressure hydraulic application. Meet and exceeds SAE100R1T, EN853 1SN specification.

CONSTRUCTION

- Inner Tube** : Oil resistant synthetic rubber Nitrile
- Outer Cover** : Oil, environment, abrasion resistant synthetic rubber
- Reinforcement** : 1 layer high tensile braid wire
- Temperature** : -40°C to 100°C continuous service
- Standards** : Meet and exceeds SAE100R1, EN853 1SN, ISO1436



PRODUCT CODE	INNER DIAMETER		OUTER DIAMETER	WORKING PRESSURE		MIN. BURST PRESSURE		MIN BEND RADIUS	WEIGHT
	Inch	mm	mm	PSI	Bar	PSI	Bar	mm	Kg/m
UB1-4	¼	6.4	13.2	3260	225	13040	899	100	0.220
UB1-5	⅜	7.9	14.8	3110	214	12440	855	115	0.270
UB1-6	½	9.5	17.1	2610	180	10440	717	130	0.340
UB1-8	¾	12.7	20.1	2320	160	9280	640	180	0.400
UB1-10	1	15.9	23.3	1880	130	7520	518	200	0.490
UB1-12	1 ¼	19.1	27.3	1520	105	6080	419	240	0.610
UB1-16	1 ½	25.4	35.1	1270	88	5080	350	300	0.920
UB1-20	2	31.8	43.3	910	63	3640	251	420	1.260
UB1-24	2 ¼	38.1	49.7	720	50	2880	199	500	1.470
UB1-32	3	50.8	63.1	580	40	2320	160	630	2.075

UNICAL UB1-HT HIGH TEMP – SAE100R1 (HI-TEMP)

1-BRAIDED WIRE HOSE

APPLICATION

High temperature and high pressure hydraulic application. Meet and exceeds SAE100R1T, EN853 1SN specification.

CONSTRUCTION

- Inner Tube** : Oil resistant synthetic rubber Nitrile
- Outer Cover** : Oil, environment, abrasion resistant synthetic rubber
- Reinforcement** : 1 layer high tensile braid wire
- Temperature** : -40°C to 135°C continuous service
- Standards** : Meet and exceeds SAE100R1, EN853 1SN, ISO1436



PRODUCT CODE	INNER DIAMETER		OUTER DIAMETER	WORKING PRESSURE		MIN. BURST PRESSURE		MIN BEND RADIUS	WEIGHT
	Inch	mm	mm	PSI	Bar	PSI	Bar	mm	Kg/m
UB1-4-HT	¼	6.4	13.2	3260	225	13040	899	100	0.240
UB1-5-HT	⅜	7.9	14.8	3110	214	12440	855	115	0.285
UB1-6-HT	½	9.5	17.1	2610	180	10440	717	130	0.340
UB1-8-HT	¾	12.7	20.1	2320	160	9280	640	180	0.435
UB1-10-HT	1	15.9	23.3	1880	130	7520	518	200	0.510
UB1-12-HT	1 ¼	19.1	27.3	1520	105	6080	419	240	0.640
UB1-16-HT	1 ½	25.4	35.1	1270	88	5080	350	300	0.980
UB1-20-HT	2	31.8	43.3	910	63	3640	251	420	1.300
UB1-24-HT	2 ¼	38.1	49.7	720	50	2880	199	500	1.540
UB1-32-HT	3	50.8	63.1	580	40	2320	160	630	2.100

UNICAL UB5 – SAE100R5

HYDRAULIC HOSE

APPLICATION

Hydraulic petroleum base oil. Design for air, lub oil, water application.

CONSTRUCTION

- Inner Tube** : High temperature resistant – Neoprene
- Outer Cover** : Polyester braided with synthetic rubber impregnated.
- Reinforcement** : 1 layers high tensile textile braided.
- Temperature** : -40°C to 135°C continuous service
- Standards** : Meet and exceeds SAE100R5



PRODUCT CODE	INNER DIAMETER		OUTER DIAMETER	WORKING PRESSURE		MIN. BURST PRESSURE		MIN BEND RADIUS	WEIGHT
	Inch	mm	mm	PSI	Bar	PSI	Bar	mm	Kg/m
UB5-4	3/16	4.8	13.2	3040	210	12180	840	75	0.22
UB5-5	1/4	6.4	14.9	3040	210	12180	840	85	0.26
UB5-6	5/16	7.9	17.1	2270	157	9130	630	100	0.31
UB5-8	13/32	10.3	19.5	2030	140	8120	560	115	0.37
UB5-10	1/2	12.7	23.2	1760	122	7100	490	141	0.50
UB5-12	5/8	15.9	27.4	1520	105	6090	420	166	0.65
UB5-16	7/8	22.2	31.4	810	56	3240	224	185	0.70
UB5-20	1 1/8	28.6	38.1	620	43	2530	175	230	0.78
UB5-24	1 3/8	34.9	44.4	500	35	2030	140	265	1.03
UB5-32	1 13/16	46.0	56.0	350	24	1420	98	335	1.40
UB5-40	2 3/8	60.3	73.2	350	24	1420	98	590	1.70

UNICAL UM4 – SAE100R4

HYDRAULIC SUCTION HOSE

APPLICATION

Hydraulic suction and return line application. High temperature.

CONSTRUCTION

- Inner Tube** : High temperature resistant synthetic rubber – Nitrile
- Outer Cover** : Oil, environment, abrasion resistant synthetic rubber
- Reinforcement** : 2 layers high tensile textile braided/spiral with helical wire.
- Temperature** : -40°C to 135°C continuous service
- Standards** : Meet and exceeds SAE100R4



PRODUCT CODE	INNER DIAMETER		OUTER DIAMETER	WORKING PRESSURE		MIN. BURST PRESSURE		MIN BEND RADIUS	WEIGHT
	Inch	mm	mm	PSI	Bar	PSI	Bar	mm	Kg/m
UM4-12	3/4	15.88	34.9	300	21	1200	83	76.2	0.550
UM4-16	1	25.40	41.3	240	17	960	66	91.4	0.680
UM4-20	1 1/4	31.75	50.8	200	14	800	55	122	0.840
UM4-24	1 1/2	38.1	57.2	140	10	560	39	152	1.024
UM4-32	2	50.8	69.9	100	7	400	28	183	1.420
UM4-40	2 1/2	63.5	82.6	50	3.4	200	14	250	2.150
UM4-48	3	76.2	95.3	50	3.4	200	14	274	2.850
UM4-56	3 1/2	88.9	107.9	40	2.8	160	11	305	3.450
UM4-64	4	101.6	120.7	20	1.4	80	5.5	366	3.900

UNICAL UM6 – SAE100R6

HYDRAULIC RETURN LINE

APPLICATION

Hydraulic low pressure return line application.

CONSTRUCTION

- Inner Tube** : High temperature resistance synthetic rubber - Nitrile
- Outer Cover** : Oil, environment, abrasion resistant synthetic rubber
- Reinforcement** : 1 layers high tensile textile braided
- Temperature** : -40°C to 100°C continuous service
- Standards** : Meet and exceeds SAE100R6



PRODUCT CODE	INNER DIAMETER		OUTER DIAMETER	WORKING PRESSURE		MIN. BURST PRESSURE		MIN BEND RADIUS	WEIGHT
	Inch	mm	mm	PSI	Bar	PSI	Bar	mm	Kg/m
UM6-4	¼	6.4	13.5	430	30	1720	119	65	0.115
UM6-5	⅝	7.9	15.1	430	30	1720	119	80	0.140
UM6-6	¾	9.5	16.7	430	30	1720	119	80	0.160
UM6-8	½	12.7	20.6	430	30	1720	119	100	0.210
UM6-10	⅝	15.9	23.8	430	30	1720	119	125	0.290
UM6-12	¾	19.1	27.8	430	30	1720	119	150	0.325

UNICAL UM3 – SAE100R3

TEXTILE BRAIDED HOSE

APPLICATION

Hydraulic oil lines, anti-freeze solutions or water. Meets or exceeds requirements of SAE100R3

CONSTRUCTION

- Inner Tube** : Synthetic Rubber Nitrile
- Outer Cover** : Oil and abrasion resistant, synthetic rubber
- Reinforcement** : 2 layers high tensile textile braids
- Temperature** : -40°C to 135°C continuous service
- Standards** : Meet and exceeds SAE100R3



PRODUCT CODE	INNER DIAMETER		OUTER DIAMETER	WORKING PRESSURE		MIN. BURST PRESSURE		MIN BEND RADIUS	WEIGHT
	Inch	mm	mm	PSI	Bar	PSI	Bar	mm	Kg/m
UM3-4	¼	6.4	15.1	1250	86	5000	345	75	0.08
UM3-5	⅝	7.9	18.3	1200	83	4800	331	100	0.10
UM3-6	¾	9.5	19.8	1125	78	4500	310	100	0.11
UM3-8	½	12.7	24.6	1000	69	4000	276	125	0.13
UM3-10	⅝	15.9	27.8	900	62	3600	248	140	0.14
UM3-12	¾	19.1	32.5	750	52	3000	207	150	0.15
UM3-16	1	25.4	39.3	565	39	2260	156	205	0.21
UM3-20	1 ¼	31.8	46.0	375	26	1500	103	250	0.25

UNICAL UJK – 10,000PSI

HYDRAULIC JACK HOSE

APPLICATION

For hydraulic jack application, static pressure up to 10,000PSI

CONSTRUCTION

- Inner Tube** : Oil resistance synthetic rubber Nitrile
- Outer Cover** : Oil, environment, abrasion resistant synthetic rubber
- Reinforcement** : 2 layers high tensile braid wire
- Temperature** : -40°C to 100°C continuous service



PRODUCT CODE	INNER DIAMETER		OUTER DIAMETER	WORKING PRESSURE		MIN. BURST PRESSURE		MIN BEND RADIUS	WEIGHT
	Inch	mm	mm	PSI	Bar	PSI	Bar	mm	Kg/m
UJK-4	¼	6.35	15.10	10000	690	20000	1379	100	0.27
UJK-6	⅜	9.53	18.90	10000	690	20000	1379	130	0.410

UNICAL UPW4000 – 4000PSI

PRESSURE WATER WASHER HOSE

APPLICATION

For water blasting, design to clean industrial surface, water pressure up to 4000PSI

CONSTRUCTION

- Inner Tube** : EPDM Synthetic rubber
- Outer Cover** : Oil, environment, abrasion resistance synthetic rubber
- Reinforcement** : 2 layers high tensile braid wire
- Temperature** : -40°C to 100°C continuous service



PRODUCT CODE	INNER DIAMETER		OUTER DIAMETER	WORKING PRESSURE		MIN. BURST PRESSURE		MIN BEND RADIUS	WEIGHT
	Inch	mm	mm	PSI	Bar	PSI	Bar	mm	Kg/m
UPW4000-4	¼	6.35	14.4	4000	276	16000	1103	50	0.22
UPW4000-5	⅝	7.94	16.3	4000	276	16000	1103	55	0.25
UPW4000-6	¾	9.53	18.00	4000	276	16000	1103	65	0.47
UPW4000-8	½	12.70	22.60	4000	276	16000	1103	90	0.59
UPW4000-10	⅝	15.88	27.50	4000	276	16000	1103	100	0.75
UPW4000-12	¾	19.05	32.50	4000	276	16000	1103	120	1.47

UNICAL UPW3000 – 3000PSI

PRESSURE WATER WASHER HOSE

APPLICATION

For water blasting, design to clean industrial surface, water pressure up to 3000PSI

CONSTRUCTION

- Inner Tube** : EPDM Synthetic rubber
- Outer Cover** : Oil, environment, abrasion resistance synthetic rubber
- Reinforcement** : 1 to 2 layers high tensile braid wire
- Temperature** : -40°C to 100°C continuous service



PRODUCT CODE	INNER DIAMETER		OUTER DIAMETER	WORKING PRESSURE		MIN. BURST PRESSURE		MIN BEND RADIUS	WEIGHT
	Inch	mm	mm	PSI	Bar	PSI	Bar	mm	Kg/m
UPW3000-4	¼	6.35	12.5	3040	210	12160	838	50	0.185
UPW3000-5	⅝	7.94	14.3	3040	210	12160	838	55	0.215
UPW3000-6	¾	9.53	16.5	3040	210	12160	838	65	0.305
UPW3000-8	½	12.70	19.7	3040	210	12160	838	90	0.420
UPW3000-10	⅝	15.88	24.0	3040	210	12160	838	100	0.750
UPW3000-12	¾	19.05	28.0	3040	210	12160	838	120	0.900
UPW3000-16	1	25.40	36.2	3040	210	12160	838	150	1.150

UNICAL UHPW10K/UHPW10K PLUS

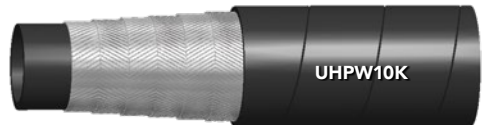
HIGH PRESSURE WATER WASHER HOSE

APPLICATION

For water blasting, design to clean industrial surface, water pressure up to 18,000PSI

CONSTRUCTION

- Inner Tube** : EPDM Synthetic rubber
- Outer Cover** : Oil, environment, abrasion resistance synthetic rubber
- Reinforcement** : 4/6 layers high tensile spiral wire
- Temperature** : -20°C to 70°C continuous service



PRODUCT CODE	INNER DIAMETER		OUTER DIAMETER	WORKING PRESSURE		MIN. BURST PRESSURE		MIN BEND RADIUS	WEIGHT
	Inch	mm	mm	PSI	Bar	PSI	Bar	mm	Kg/m
UHPW10K									
UHPW10K-6	¾	9.53	16.5	10880	750	27200	1875	190	0.79
UHPW10K-8	½	12.70	19.7	10880	750	27200	1875	228	0.96
UHPW10K PLUS									
UHPW18K-6	¾	9.53	22.10	18000	1241	45000	3103	238	0.86
UHPW16K-8	½	12.70	26.30	16000	1100	40000	2759	245	1.24
UHPW14K-12	¾	15.88	33.90	14000	966	35000	2413	270	1.85
UHPW12K-16	1	25.40	39.80	12000	828	30000	2069	280	2.16

UNICAL UPS1500 POWER STEERING HOSE

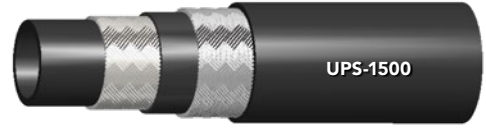
2-HIGH TENSILE BRAIDED NYLON CORD

APPLICATION

UNICAL Power Steering Hose is suitable for automotive power steering pressure line. Specially design for under-hood environment.

CONSTRUCTION

- Inner Tube** : Special blend synthetic rubber for high temperature environment
- Outer Cover** : Special blended synthetic rubber
- Reinforcement** : 2 layers high tensile nylon braid cord
- Temperature** : -40°C to 130°C continuous service
- Characteristic** : Meets SAE J2050 Type 1 performance
- Standards** : Design reinforcement resists high temperatures and allows expansion for system noise damping



PRODUCT CODE	INNER DIAMETER		OUTER DIAMETER		WORKING PRESSURE		MIN. BURST PRESSURE		MIN BEND RADIUS	WEIGHT
	Inch	mm	Inch	mm	PSI	Bar	PSI	Bar	mm	Kg/m
UPS1500-6	3/8	9.53	0.71	18.0	1500	10.50	6000	14.0	100	24

UNICAL UAC-XCOOL

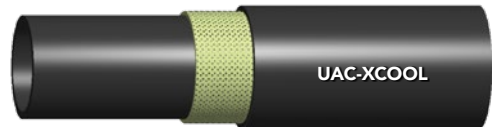
AIR CONDITIONING REGRIGERANTS HOSE

APPLICATION

Design for automotive air conditioning and industrial refrigeration unit, suitable for liquid and gaseous R134a and R12 refrigerants.

CONSTRUCTION

- Tube** : Synthetic Rubber – CSM
- Reinforcement** : 2 layers high tensile braid wire
- Cover** : Synthetic Rubber – CSM
- Temperature** : 40°C to +150°C



PRODUCT CODE	INNER DIAMETER		OUTER DIAMETER	PRODUCT CODE	INNER DIAMETER		OUTER DIAMETER
	Nominal	mm	mm		Nominal	mm	mm

UAC-XCOOL TYPE A (For passenger car and trucks)

UAC-A-8M	8.0	8.0	15.2
UAC-A-11M	11.2	11.2	18.4
UAC-A-13M	13.0	13.0	21.0
UAC-A-15MT	15.2	15.2	24.5
UAC-A-15M	15.2	15.2	23.0

UAC-XCOOL TYPE C (For passenger cars)

UAC-C-5	5/16	8.2	14.7
UAC-C-6	13/32	10.5	17.0
UAC-C-8	1/2	13.0	19.4

UAC-XCOOL TYPE B (For passenger cars, trucks and buses)

UAC-B-5	5/16	8.2	19.0
UAC-B-6	13/32	10.5	23.0
UAC-B-8	1/2	13.0	25.4
UAC-B-8T	1/2	13.0	23.0
UAC-B-8	1/2	13.0	22.4
UAC-10	5/8	16.1	28.6

UAC-XCOOL TYPE D (For buses)

UAC-D-12	3/4	19.4	28.4
UAC-D-14	7/8	22.7	32.8
UAC-D-18	1	29.0	40.2



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