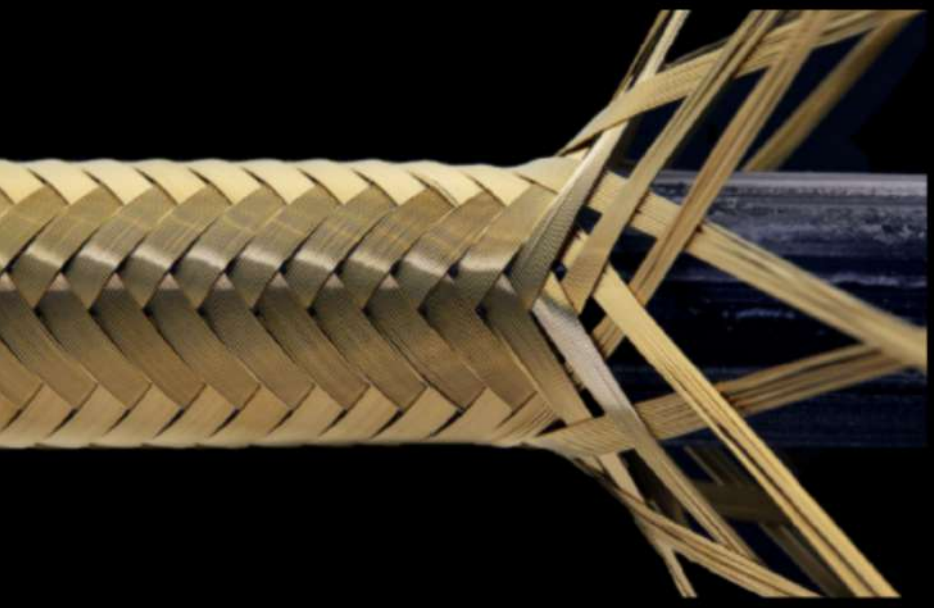


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Industrial Area 3, Sharjah UAE
Email : Manager@alawaielhoses.ae
Email : alawaiel.hydro@gmail.com
www.alawaielhoses.ae

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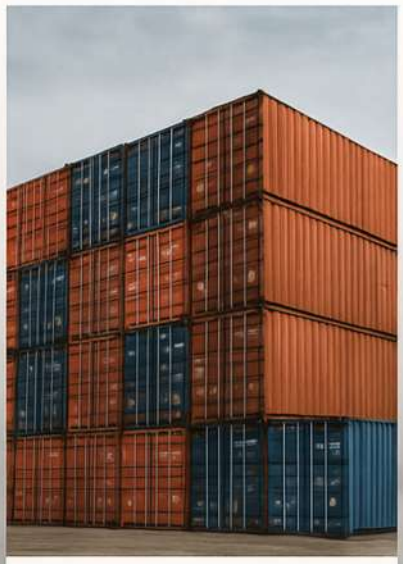
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Contact us

Address : Industrial Area 3 , Sharjah UAE

Phone: +971 52 845 5224
+971 52 890 2995

Email: alawaiel.hydro@gmail.com
Manager@alawaielhoses.ae

Website : www.alawaielhoses.ae

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ALFAGUMMA Hydraulic Hose DIN EN853 1SN/SAE100 R1AT

Tube: Oil resistant synthetic rubber
Reinforcement: One braid of high tensile steel wire.
Cover: Black, abrasion and weather resistant synthetic rubber, MSHA accepted.
Temperature: -40℃ to +100 ℃



Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
1SN-03	3/16"	4.8	11.5	25.0	3625	100	14500	90	0.210
1SN-04	1/4"	6.4	13.2	22.5	3263	90	13050	100	0.250
1SN-05	5/16"	7.9	14.7	21.5	3118	85	12325	115	0.311
1SN-06	3/8"	9.5	17.1	18.0	2610	72	10440	130	0.360
1SN-08	1/2"	12.7	20.4	16.0	2320	64	9280	180	0.451
1SN-10	5/8"	15.9	23.7	13.0	1885	52	7540	205	0.519
1SN-12	3/4"	19.1	27.3	10.5	1523	42	6090	240	0.651
1SN-16	1"	25.4	36.0	8.7	1262	35	5075	300	0.909
1SN-20	1.1/4"	31.8	42.5	6.3	914	25	3654	420	1.300
1SN-24	1.1/2"	38.1	48.5	5.0	725	20	2900	500	1.690
1SN-32	2"	50.8	62.0	4.0	580	16	2320	630	1.891

ALFAGUMMA Hydraulic Hose DIN EN853 2SN/SAE100 R2AT

Tube: Oil resistant synthetic rubber
Reinforcement: Two braid of high tensile steel wire.
Cover: Black, abrasion and weather resistant synthetic rubber, MSHA accepted.
Temperature: -40℃ to +100 ℃



Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
2SN-03	3/16"	4.8	13.4	41.5	6018	166	24070	90	0.320
2SN-04	1/4"	6.4	15.0	40.0	5800	160	23200	100	0.352
2SN-05	5/16"	7.9	16.5	35.0	5075	140	20300	115	0.443
2SN-06	3/8"	9.5	18.9	33.0	4785	132	19140	125	0.540
2SN-08	1/2"	12.7	22.2	27.5	3988	110	15950	180	0.680
2SN-10	5/8"	15.9	25.6	25.0	3625	100	14500	205	0.779
2SN-12	3/4"	19.1	29.3	21.5	3118	86	12470	240	0.941
2SN-16	1"	25.4	37.8	16.5	2393	66	9570	300	1.350
2SN-20	1.1/4"	31.8	44.3	12.5	1813	50	7250	420	2.100
2SN-24	1.1/2"	38.1	50.3	9.0	1305	36	5220	500	2.650
2SN-32	2"	50.8	63.8	8.0	1160	32	4640	630	3.400
2SN-40	2-1/2"	63.5	83	8.0	1160	32	4640	700	3.500
2SN-48	3"	76	96	8.0	1160	32	4640	800	3.600

ALFAGUMMA Hydraulic Hose DIN EN857 1SC

Tube: Oil resistant synthetic rubber
Reinforcement: One braid of high tensile steel wire.
Cover: Black, abrasion and weather resistant synthetic rubber, MSHA accepted.
Temperature: -40℃ to +100 ℃



Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
1SC-04	1/4"	6.4	13.5	22.5	3263	90	13050	75	0.173
1SC-05	5/16"	7.9	14.5	21.5	3118	85	12325	85	0.194
1SC-06	3/8"	9.5	16.9	18.0	2610	72	10440	90	0.244
1SC-08	1/2"	12.7	20.4	16.0	2320	64	9280	130	0.328
1SC-10	5/8"	15.9	23.0	13.0	1885	52	7540	150	0.416
1SC-12	3/4"	19.1	26.7	10.5	1523	42	6090	180	0.500
1SC-16	1"	25.4	34.9	8.7	1262	35.2	5075	230	0.713

ALFAGUMMA Hydraulic Hose DIN EN857 2SC

Tube: Oil resistant synthetic rubber
Reinforcement: Two braid of high tensile steel wire.
Cover: Black, abrasion and weather resistant synthetic rubber, MSHA accepted.
Temperature: -40℃ to +100 ℃



Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
2SC-04	1/4"	6.4	14.2	40.0	5800	160	23200	75	0.296
2SC-05	5/16"	7.9	16.0	35.0	5075	140	20300	85	0.327
2SC-06	3/8"	9.5	18.3	33.0	4785	132	19140	90	0.398
2SC-08	1/2"	12.7	21.5	27.5	3988	110	15950	130	0.500
2SC-10	5/8"	15.9	24.7	25.0	3625	100	14500	170	0.632
2SC-12	3/4"	19.1	28.6	21.5	3118	86	12470	200	0.738
2SC-16	1"	25.4	36.6	16.2	2393	66	9570	250	1.034

ALFAGUMMA Hydraulic Hose SAE100 R17

Tube: Oil resistant synthetic rubber
Reinforcement: One braid of high tensile steel wire(1/4"-½"); Two braid of high tensile steel wire(5/8"-1")
Cover: Black, abrasion and weather resistant synthetic rubber, MSHA accepted.
Temperature: -40℃ to +100 ℃



Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
R17-04	1/4"	6.4	13.2	21.0	3045	84	12180	50	0.200
R17-05	5/16"	7.9	15.0	21.0	3045	84	12180	55	0.230
R17-06	3/8"	9.5	17.0	21.0	3045	84	12180	65	0.290
R17-08	1/2"	12.7	21.1	21.0	3045	84	12180	90	0.380
R17-10	5/8"	15.9	25.9	21.0	3045	84	12180	100	0.640
R17-12	3/4"	19.1	30.3	21.0	3045	84	12180	120	0.800
R17-16	1"	25.4	38.6	21.0	3045	84	12180	150	1.280

ALFAGUMMA Hydraulic Hose SAE100 R16

Tube: Oil resistant synthetic rubber
Reinforcement: Two braid of high tensile steel wire.
Cover: Black, abrasion and weather resistant synthetic rubber, MSHA accepted.
Temperature: -40℃ to +100 ℃



Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
R16-04	1/4"	6.4	13.5	35.0	5075	140	20300	50	0.200
R16-05	5/16"	7.9	15.1	30.0	4305	119	17255	55	0.230
R16-06	3/8"	9.5	17.1	28.0	4060	112	16240	65	0.420
R16-08	1/2"	12.7	20.4	25.0	3550	98	14210	90	0.520
R16-10	5/8"	15.9	23.8	19.0	2780	77	11165	100	0.640
R16-12	3/4"	19.1	27.6	16.0	2275	63	9135	120	0.800
R16-16	1"	25.4	35.4	14.0	2030	56	8120	150	1.280

1.1 Wire Braid Hydraulic Hose

ALFAGUMMA High Pressure Jet Washer Hose



Tube: Oil resistant synthetic rubber
Reinforcement: One or two braid of high tensile steel wire.
Cover: Black, abrasion and weather resistant synthetic rubber, MSHA accepted.
Temperature: -40℃ to +100 ℃

Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
1WR-04	1/4"	6.4	14.1	22.5	3263	90	13050	100	0.222
1WR-05	5/16"	7.9	15.7	21.5	3118	85	12325	115	0.261
1WR-06	3/8"	9.5	18.1	18.0	2610	72	10440	130	0.324
1WR-08	1/2"	12.7	21.5	16.0	2320	64	9280	180	0.418

Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
2WR-04	1/4"	6.4	15.7	40.0	5800	160	23200	100	0.342
2WR-05	5/16"	7.9	17.3	35.0	5075	140	20300	115	0.403
2WR-06	3/8"	9.5	19.7	33.0	4785	132	19140	125	0.491
2WR-08	1/2"	12.7	23.0	27.5	3988	110	15950	180	0.646

1.2 Wire Braid Textile Cover Hose

ALFAGUMMA Hydraulic Hose SAE100 R5



Tube: Oil resistant synthetic rubber
Reinforcement: Two braid simgle of high tensile steel wire.
Cover: Black, abrasion and weather resistant synthetic rubber, MSHA accepted.
Temperature: -40℃ to +100 ℃

Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
R5-03	3/16"	4.8	13.0	20.7	3000	82.8	12000	75	0.228
R5-04	1/4"	6.4	14.6	20.7	3000	82.8	12000	85	0.258
R5-05	5/16"	7.9	17.0	15.5	2250	62	9000	100	0.327
R5-06	13/32"	9.5	19.3	14.0	2000	56	8000	115	0.385
R5-08	1/2"	12.7	23.2	12.1	1760	48.4	7040	140	0.543
R5-10	5/8"	15.9	27.2	10.3	1500	41.2	6000	165	0.659
R5-14	7/8"	22.2	31.4	5.5	800	22	3200	185	0.704
R5-17	1-1/8"	28.6	38.1	4.3	630	17.2	2520	230	0.945
R5-22	1-3/8"	34.9	44.5	3.5	508	14	2000	265	1.077
R5-29	1-13/16"	46.0	56.4	2.4	350	9.6	1400	335	1.593
R5-38	2-3/8"	60.3	73.0	2.4	350	9.6	1400	610	2.583
R5-48	3"	76.2	90.5	1.4	200	5.6	800	840	3.462

ALFAGUMMA Hydraulic Hose DIN EN856 4SP

Tube: Oil resistant synthetic rubber
Reinforcement: Four high tensile steel wire spiral layers.
Cover: Abrasion and weather resistant synthetic rubber, MSHA accepted.
Temperature: -40℃ to +125 ℃



Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
4SP-04	1/4"	6.4	18.0	45.0	6525	180	26100	150	0.620
4SP-06	3/8"	9.5	20.8	44.5	6453	178	25810	180	0.730
4SP-08	1/2"	12.7	24.0	41.5	6018	166	24070	230	0.900
4SP-10	5/8"	15.9	27.6	35.0	5075	140	20300	250	1.130
4SP-12	3/4"	19.1	31.8	35.0	5075	140	20300	300	1.480
4SP-16	1"	25.4	39.7	28.0	4060	112	16240	340	1.980
4SP-20	1.1/4"	31.8	50.8	21.0	3045	84	12180	460	2.910
4SP-24	1.1/2"	38.1	57.2	18.5	2683	74	10730	560	3.430
4SP-32	2"	50.8	69.8	16.5	2393	66	9570	660	4.890

ALFAGUMMA Hydraulic Hose DIN EN856 4SH

Tube: Oil resistant synthetic rubber
Reinforcement: Four high tensile steel wire spiral layers.
Cover: Abrasion and weather resistant synthetic rubber, MSHA accepted.
Temperature: -40℃ to +125 ℃



Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
4SH-12	3/4"	19.1	31.8	42.0	6090	168	24360	280	1.476
4SH-16	1"	25.4	38.7	38.0	5510	152	22040	340	1.984
4SH-20	1.1/4"	31.8	46.2	35.0	5000	140	20300	460	2.428
4SH-24	1.1/2"	38.1	53.5	29.0	4205	116	16820	560	2.871
4SH-32	2"	50.8	68.0	25.0	3625	100	14500	700	4.534

ALFAGUMMA Hydraulic Hose SAE100 R12

Tube: Oil resistant synthetic rubber
Reinforcement: Four high tensile steel wire spiral layers.
Cover: Black, abrasion and weather resistant synthetic rubber, MSHA accepted.
Temperature: -40℃ to +125 ℃



Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
R12-06	3/8"	9.5	20.2	28.0	4060	112	16240	125	0.707
R12-08	1/2"	12.7	23.5	28.0	4060	112	16240	180	0.871
R12-10	5/8"	15.9	27.3	28.0	4060	112	16240	200	1.107
R12-12	3/4"	19.1	31.0	28.0	4060	112	16240	240	1.339
R12-16	1"	25.4	38.0	28.0	4060	112	16240	300	1.984
R12-20	1.1/4"	31.8	47.0	21.0	3045	84	12180	420	2.532
R12-24	1.1/2"	38.1	54.0	17.5	2540	70	10150	500	3.040
R12-32	2"	50.8	67.5	17.5	2540	70	10150	640	4.586

ALFAGUMMA Hydraulic Hose SAE100 R9

Tube: Oil resistant synthetic rubber
Reinforcement: Four high tensile steel wire spiral layers.
Cover: Black, abrasion and weather resistant synthetic rubber, MSHA accepted.
Temperature: -40℃ to +125 ℃



Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
R9-04	1/4"	6.4	18.0	45.0	6525	180	26100	150	0.620
R9-06	3/8"	9.5	20.8	44.5	6452.5	178	25810	180	0.730
R9-08	1/2"	12.7	24.0	41.5	6017.5	166	24070	230	0.900
R9-10	5/8"	15.9	27.6	35.0	5075	140	20300	250	1.130
R9-12	3/4"	19.1	31.8	35.0	5075	140	20300	300	1.480
R9-16	1"	25.4	39.7	28.0	4060	112	16240	340	1.980
R9-20	1.1/4"	31.8	50.8	21.0	3045	84	12180	460	2.910
R9-24	1.1/2"	38.1	57.2	18.5	2682.5	74	10730	560	3.430
R9-32	2"	50.8	69.8	16.5	2392.5	66	9570	660	4.890

ALFAGUMMA Hydraulic Hose SAE100 R13

Tube: Oil resistant synthetic rubber
Reinforcement: Four or six high tensile steel wire spiral layers.
Cover: Abrasion and weather resistant synthetic rubber, MSHA accepted.
Temperature: -40℃ to +125 ℃



Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
R13-12	3/4"	19.1	31.8	35.0	5075	140	20300	240	1.472
R13-16	1"	25.4	39.2	35.0	5075	140	20300	300	1.984
R13-20	1.1/4"	31.8	50.0	35.0	5075	140	20300	420	3.519
R13-24	1.1/2"	38.1	58.5	35.0	5075	140	20300	500	3.440
R13-32	2"	50.8	72.0	35.0	5075	140	20300	640	4.765

ALFAGUMMA Hydraulic Hose SAE100 R15

Tube: Oil resistant synthetic rubber
Reinforcement: Six high tensile steel wire spiral layers.
Cover: Abrasion and weather resistant synthetic rubber, MSHA accepted.
Temperature: -40℃ to +125 ℃



Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
R15-12	3/4"	19.1	31.8	42.0	6090	168	24360	265	1.472
R15-16	1"	25.4	39.2	42.0	6090	168	24360	330	1.984
R15-20	1.1/4"	31.8	50.0	42.0	6090	168	24360	445	3.519
R15-24	1.1/2"	38.1	58.2	42.0	6090	168	24360	530	4.499
R15-32	2"	50.8	72.0	35.0	5075	140	20300	640	6.449

ALFAGUMMA Hydraulic Hose SAE100 R3

Tube: Oil resistant synthetic rubber
Reinforcement: Two high tensile fibre braided.
Cover: Black, abrasion and weather resistant synthetic rubber, MSHA accepted.
Temperature: -40℃ to +100 ℃



Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
R3-04	1/4"	6.3	12.6	10.5	1523	42	6090	75	0.145
R3-05	5/16"	7.9	14.1	8.7	1262	35	5075	75	0.182
R3-06	3/8"	9.7	16.8	8.4	1218	34	4930	100	0.253
R3-08	1/2"	12.7	18.4	7.8	1131	31	4495	100	0.282
R3-10	5/8"	15.8	23.0	7.0	1015	28	4060	125	0.416
R3-12	3/4"	19.0	26.7	6.1	885	24	3480	140	0.499
R3-14	7/8"	22.3	31.0	5.2	754	21	3045	150	0.697
R3-16	1"	25.4	37.5	3.9	566	16	2320	205	0.844
R3-20	1.1/4"	31.8	45.0	2.6	377	10	1450	250	1.004

ALFAGUMMA Hydraulic Hose SAE100 R6

Tube: Oil resistant synthetic rubber
Reinforcement: One high tensile fibre braided.
Cover: Black, abrasion and weather resistant synthetic rubber, MSHA accepted.
Temperature: -40℃ to +100℃



Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
R6-03	3/16"	4.8	11.0	3.5	507.5	14	2030	50	0.111
R6-04	1/4"	6.4	12.5	2.8	406	11.2	1624	65	0.132
R6-05	5/16"	7.9	14.0	2.8	406	11.2	1624	75	0.153
R6-06	3/8"	9.5	15.7	2.8	406	11.2	1624	75	0.179
R6-08	1/2"	12.7	19.5	2.8	406	11.2	1624	100	0.249
R6-10	5/8"	15.9	22.9	2.4	348	9.6	1392	125	0.308
R6-12	3/4"	19.1	26.0	2.1	304.5	8.4	1218	150	0.357
R6-16	1"	25	35	2.0	290	8	1160	525	0.4
R6-20	1-1/4"	32	41.5	2.0	290	8	1160	622	0.98
R6-24	1-1/2"	38.4	50.6	2.0	290	8	1160	759	1.04
R6-32	2"	51	61.5	2.0	290	8	1160	922	1.45

ALFAGUMMA Hydraulic Hose SAE100 R7

Tube: Thermoplastic
Reinforcement: One high tensile synthetic yarn braided.
Cover: High flexibility nylon or thermoplastic, MSHA accepted.
Temperature: -40 C to +93 C



Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
R7-02	1/8"	3.3	8.5	17.2	2494	69	9991	13	0.038
R7-03	3/16"	4.8	10.8	20.7	3002	83	11992	20	0.080
R7-04	1/4"	6.4	13.0	20.7	3002	83	11992	33	0.120
R7-05	5/16"	7.9	15.1	17.2	2494	69	9991	46	0.145
R7-06	3/8"	9.5	17.0	15.5	2248	62	9005	51	0.170
R7-08	1/2"	12.7	20.7	13.8	2001	55	8004	76	0.250
R7-10	5/8"	15.9	23.0	13.8	2001	55	8004	86	0.300
R7-12	3/4"	19.1	26.0	11.5	1668	45	6525	150	0.346
R7-16	1"	25.4	32.0	6.9	1001	28	4060	180	0.422

ALFAGUMMA Hydraulic Hose SAE100 R8

Tube: Thermoplastic
Reinforcement: Two high tensile synthetic yarn braided.
Cover: High flexibility nylon or thermoplastic, MSHA accepted.
Temperature: -40 C to +93 C



Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
R8-02	1/8"	3.3	10.2	35.4	5133	142	20590	20	0.090
R8-03	3/16"	4.8	13.1	34.5	5003	138	20012	40	0.120
R8-04	1/4"	6.4	15.9	34.5	5003	138	20012	50	0.160
R8-05	5/16"	7.9	17.0	30.0	4350	120	17400	65	0.175
R8-06	3/8"	9.5	19.0	27.6	4002	110	15950	75	0.190
R8-08	1/2"	12.7	22.7	24.0	3480	95	13775	102	0.300
R8-10	5/8"	15.9	25.0	18.5	2683	74	10732	150	0.360
R8-12	3/4"	19.1	29.0	13.5	1958	54	7832	180	0.370
R8-16	1"	25.4	34.0	10.0	1450	40	5800	230	0.490

ALFAGUMMA Hydraulic Hose SAE100 R7(steel wire)

Tube: Thermoplastic
Reinforcement: One high tensile synthetic steel wire braided.
Cover: High flexibility nylon or thermoplastic, MSHA accepted.
Temperature: -40℃ to +93 ℃



Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
R7-02	1/8"	3.3	8.8	30.0	4350	120	17400	20	0.100
R7-03	3/16"	4.8	10.8	20.7	3002	83	12006	20	0.100
R7-04	1/4"	6.4	11.3	25.0	3625	110	15950	30	0.200
R7-05	5/16"	7.9	14.0	20.0	2900	80	11600	46	0.200
R7-06	3/8"	9.5	16.0	18.0	2610	72	10440	60	0.300
R7-08	1/2"	12.7	19.0	16.0	2320	64	9280	76	0.400
R7-10	5/8"	15.9	22.0	13.8	2001	55	8004	86	0.400
R7-12	3/4"	19.1	26.0	11.5	1668	45	6525	150	0.500
R7-16	1"	25.4	32.0	6.9	1001	28	4002	180	0.700

ALFAGUMMA Hydraulic Hose SAE100 R8(steel wire)

Tube: Thermoplastic
Reinforcement: Two high tensile synthetic steel wire braided.
Cover: High flexibility nylon or thermoplastic, MSHA accepted.
Temperature: -40℃ to +93 ℃



Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
R8-04	1/4"	6.4	13.3	35.0	5075	140	20300	40	0.290
R8-05	5/16"	7.9	15.0	32.5	4713	130	18850	50	0.340
R8-06	3/8"	9.5	17.0	29.0	4205	116	16820	70	0.400
R8-08	1/2"	12.7	20.0	26.0	3770	104	15080	80	0.560
R8-10	5/8"	15.9	23.3	20.0	2900	80	11600	130	0.630
R8-12	3/4"	19.1	26.0	17.5	2538	70	10150	160	0.750
R8-16	1"	25.4	33.0	12.0	1740	48	6960	220	1.000

ALFAGUMMA Hydraulic Hose SAE100 R7(Non-Conductive)

Tube: Thermoplastic
Reinforcement: One high tensile synthetic yarn braided.
Cover: High flexibility nylon or thermoplastic, MSHA accepted.
Temperature: -40℃ to +93 ℃



Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
R7-02	1/8"	3.3	8.5	17.2	2494	69	9991	13	0.038
R7-03	3/16"	4.8	10.8	20.7	3002	83	11992	20	0.080
R7-04	1/4"	6.4	13.0	20.7	3002	83	11992	33	0.120
R7-05	5/16"	7.9	15.1	17.2	2494	69	9991	46	0.145
R7-06	3/8"	9.5	17.0	15.5	2248	62	9005	51	0.170
R7-08	1/2"	12.7	20.7	13.8	2001	55	8004	76	0.250
R7-10	5/8"	15.9	23.0	13.8	2001	55	8004	86	0.300
R7-12	3/4"	19.1	26.0	11.5	1668	45	6525	150	0.346
R7-16	1"	25.4	32.0	6.9	1001	28	4060	180	0.422

ALFAGUMMA Hydraulic Hose SAE100 R8(Non-Conductive)

Tube: Thermoplastic
Reinforcement: Two high tensile synthetic yarn braided.
Cover: High flexibility nylon or thermoplastic, MSHA accepted.
Temperature: -40℃ to +93 ℃



Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
R8-02	1/8"	3.3	10.2	35.4	5133	142	20590	20	0.090
R8-03	3/16"	4.8	13.1	34.5	5003	138	20012	40	0.120
R8-04	1/4"	6.4	15.9	34.5	5003	138	20012	50	0.160
R8-05	5/16"	7.9	17.0	30.0	4350	120	17400	65	0.175
R8-06	3/8"	9.5	19.0	27.6	4002	110	15950	75	0.190
R8-08	1/2"	12.7	22.7	24.0	3480	95	13775	102	0.300
R8-10	5/8"	15.9	25.0	18.5	2683	74	10732	150	0.360
R8-12	3/4"	19.1	29.0	13.5	1958	54	7832	180	0.370
R8-16	1"	25.4	34.0	10.0	1450	40	5800	230	0.490

ALFAGUMMA Hydraulic Hose SAE100 R7(Double Line)

Tube: Thermoplastic
Reinforcement: One high tensile synthetic yarn braided.
Cover: High flexibility nylon or thermoplastic, MSHA accepted.
Temperature: -40℃ to +93 ℃



Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
R7-03	3/16"	4.8	23.6	20.7	3002	83	12006	23	0.160
R7-04	1/4"	6.4	28.0	20.7	3002	83	12006	35	0.260
R7-05	5/16"	7.9	32.0	17.2	2494	69	10005	50	0.320
R7-06	3/8"	9.5	36.0	15.5	2248	62	8990	60	0.370
R7-08	1/2"	12.7	43.0	15.0	2175	60	8700	80	0.550

ALFAGUMMA Hydraulic Hose SAE100 R7(Double Line) (Non-Conductive)

Tube: Thermoplastic
Reinforcement: One high tensile synthetic yarn braided.
Cover: High flexibility nylon or thermoplastic, MSHA accepted.
Temperature: -40℃ to +93 ℃



Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
R7-03	3/16"	4.8	23.6	20.7	3002	83	12006	23	0.160
R7-04	1/4"	6.4	28.0	20.7	3002	83	12006	35	0.260
R7-05	5/16"	7.9	32.0	17.2	2494	69	10005	50	0.320
R7-06	3/8"	9.5	36.0	15.5	2248	62	8990	60	0.370
R7-08	1/2"	12.7	43.0	15.0	2175	60	8700	80	0.550

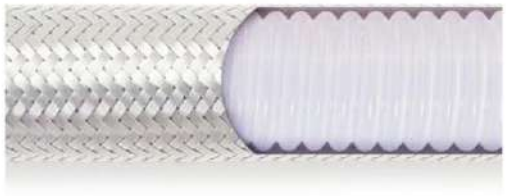
ALFAGUMMA Hydraulic Hose SAE100 R14



Tube: Smooth temperature chemical resistant PTFE materials tube
Reinforcement: Braided with stainless steel. .
Temperature: -60℃ to +260 ℃

Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	mm
R14-02	1/8"	3.5	6.2	28.0	4060	112.0	16240	40	1.00
R14-03	3/16"	4.8	8.2	23.3	3379	93.2	13514	50	1.00
R14-04	1/4"	6.3	9.7	21.0	3045	84.0	12180	75	1.00
R14-05	5/16"	7.9	11.5	18.7	2712	74.8	10846	100	1.00
R14-06	3/8"	9.7	13.2	16.3	2364	65.2	9454	125	1.00
R14-08	1/2"	12.7	16.2	14.0	2030	56.0	8120	165	1.00
R14-10	5/8"	15.8	19.5	11.7	1697	46.8	6786	200	1.00
R14-12	3/4"	19.0	23.8	9.3	1349	37.2	5394	230	1.50
R14-14	7/8"	22.3	26.8	8.2	1189	32.8	4756	260	1.50
R14-16	1"	25.4	29.5	5.8	841	23.2	3364	300	1.50

ALFAGUMMA Hydraulic Hose SAE100 R14(Corrugated pipe)



Tube: Corrugated temperature chemical resistant PTFE materials tube
Reinforcement: Braided with stainless steel. .
Temperature: -60℃ to +260 ℃

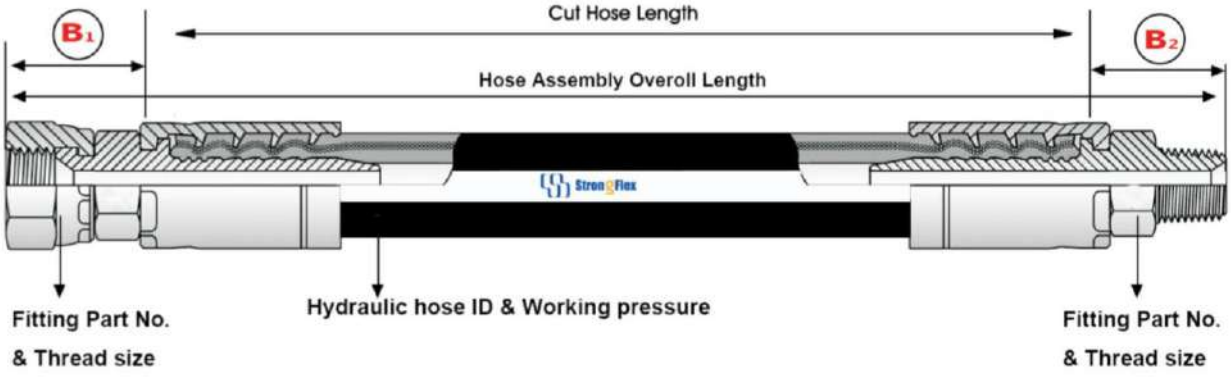
Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	mm
R14-04C	1/4"	6.3	12.9	14.0	2030	56.0	8120	32	1.00
R14-05C	5/16"	7.9	13.3	13.3	1929	53.2	7714	36	1.00
R14-06C	3/8"	9.7	14.9	12.7	1842	50.8	7366	59	1.00
R14-08C	1/2"	12.7	19.1	11.0	1595	44.0	6380	80	1.00
R14-10C	5/8"	15.8	25.5	7.3	1059	29.2	4234	92	1.25
R14-12C	3/4"	19.0	28.5	6.7	972	26.8	3886	105	1.25
R14-14C	7/8"	22.0	31.5	5.8	841	23.2	3364	120	1.50
R14-16C	1"	25.4	35.5	5.0	725	20.0	2900	135	1.50
R14-24C	1-1/2"	38.1	55.5	2.7	392	10.8	1566	135	1.50
R14-32C	2"	50.8	63.5	1.8	261	7.2	1044	165	2.00

ALFAGUMMA Hydraulic Hose SAE100 R4



Tube: Oil resistant synthetic rubber
Reinforcement: A ply piles of owen or braided textile fiber with a suitable of body steel wire.
Cover: Black, abrasion and weather resistant synthetic rubber, MSHA accepted.
Temperature: -40℃ to +100 ℃

Part No.	I.D.		O.D.	W.P		B.P		B.R	W.T
Dash	Inch	mm	mm	MPa	PSI	MPa	PSI	mm	kg/m
R4-12	3/4"	19.1	34.9	2.1	305	8	1218	125	0.920
R4-16	1"	25.4	41.3	1.7	246	7	986	150	1.100
R4-20	1-1/4"	31.8	50.8	1.4	203	6	812	255	1.660
R4-24	1-1/2"	38.1	57.2	1.1	152	4	609	255	2.000
R4-32	2"	50.8	69.9	0.7	101	3	406	300	2.580
R4-40	2-1/2"	63.5	82.6	0.4	58	2	232	355	3.180
R4-48	3"	76.2	95.3	0.4	58	2	232	460	3.700
R4-56	3-1/2"	88.9	107.9	0.4	58	2	232	530	4.300
R4-64	4"	101.6	120.7	0.4	58	2	232	610	4.900



Hose Cut Length = Hose Assembly Overoll Length - (B1+B2)

ALFAGUMMA PP Hydraulic Hose Protective Sleeve

Materials: PP (Polypropylene)
Character: Abrasion, aging, oil, chemical and Ultraviolet ozone resistant
Color : Black, Red, Yellow, Blue, White or other color as request.
Application: widely used to protect the hose for Excavators, loaders, road rollers, forklifts, cranes, mining machines and other construction machinery, as well as forest logging machinery, agricultural machinery.

Flat Surface



Cambered Surface



Flame Resistant



Part No.	I.D.	O.D.	Wall	Pitch	Recommended Usage Hose OD Range	Length
	mm	mm	mm	mm	mm	m/roll
HPS-8	8	9.4	1.2	8.0	8-12	2/20/50
HPS-10	10	13.0	1.3	10.0	10-14	2/20/50
HPS-12	12	15.0	1.5	12.0	12-16	2/20/50
HPS-14	14	17.0	1.5	14.0	14-18	2/20/50
HPS-16	16	20.0	2.0	16.0	16-20	2/20/50
HPS-18	18	22.0	2.0	18.0	18-22	2/20/50
HPS-20	20	25.0	2.5	18.0	20-25	2/20/50
HPS-22	22	27.0	2.5	18.0	22-27	2/20/50
HPS-25	25	30.0	2.5	23.0	25-30	2/20/50
HPS-28	28	34.0	3.0	24.0	28-32	2/20/50
HPS-30	30	36.0	3.0	25.0	30-35	2/20/50
HPS-32	32	38.0	3.0	25.0	32-38	2/10/20
HPS-35	35	42.0	3.5	25.0	35-40	2/10/20
HPS-38	38	45.0	3.5	28.0	38-43	2/10/20
HPS-42	42	49.0	3.5	28.0	42-50	2/10/20
HPS-45	45	52.0	3.5	28.0	45-60	2/10/20
HPS-50	50	57.4	4.0	35.0	50-70	2/10/20
HPS-60	60	68.0	4.0	38.0	60-80	2/10/20
HPS-74	74	82.0	4.5	47.0	74-90	2/10/20
HPS-80	80	89.0	4.5	50.0	80-100	2/10
HPS-88	88	97.0	4.5	53.0	88-110	2/10
HPS-100	100	110.0	5.0	58.0	100-140	2/10
HPS-130	130	140.0	5.0	58.0	130-180	2/10
HPS-150	150	162.0	6.0	69.0	150-210	2
HPS-200	200	214.0	7.0	100.0	200-300	2










Hose Cutting&Skiving Machine
ECO-Friendly









AIR HOSE WRAPPED SURFACE 300PSI

Tube: NR & SBR synthetic rubber, black color.
Reinforcement: 1ply or 2ply high tensile polyester thread braiding,Multi ply high tensile fabric
Cover: NR & SBR synthetic rubber,smooth or wrapped surface, black,yellow,red available
Application: Mainly used for conveying of air, inert gas and water in mining, construction, engineering, shipbuilding, steel production etc.
Temperature: -40℃ (-104 ℉)to 70℃ +158 ℉



Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
AW-005	3/16"	4.8	12	20	300	60	900	100	330
AW-006	1/4"	6.4	13	20	300	60	900	100	330
AW-008	5/16"	7.9	15	20	300	60	900	100	330
AW-010	3/8"	9.5	17	20	300	60	900	100	330
AW-012	1/2"	12.7	23	20	300	60	900	100	330
AW-019	3/4"	19.1	30	20	300	60	900	100	330
AW-025	1"	25.4	37	20	300	60	900	100	330
AW-032	1-1/4"	31.8	46	20	300	60	900	60	200
AW-038	1-1/2"	38.1	52	20	300	60	900	60	200
AW-050	2"	50.8	68	20	300	60	900	60	200
AW-064	2-1/2"	63.5	80	20	300	60	900	60	200
AW-076	3"	76.2	92	20	300	60	900	60	200
AW-102	4"	101.6	120	20	300	60	900	60	200

AIR HOSE SMOOTH SURFACE 300PSI

Tube and Cover: Rubber or TPR (NBR/PVC),smooth, oil resistance
Reinforcement: 1ply or 2ply polyester thread braiding
Application: For air, oil and medium grade fuels used in construction, shipyards, mining and agriculture.
Temperature: -30°C (- 22°F) to + 80°C (+ 176°F)



Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
AS-005	3/16"	4.8	12	20	300	60	900	100	330
AS-006	1/4"	6.4	13	20	300	60	900	100	330
AS-008	5/16"	7.9	15	20	300	60	900	100	330
AS-010	3/8"	9.5	17	20	300	60	900	100	330
AS-012	1/2"	12.7	21	20	300	60	900	100	330
AS-016	5/8"	15.9	26	20	300	60	900	100	330
AS-019	3/4"	19.1	29	20	300	60	900	100	330
AS-025	1"	25.4	36	20	300	60	900	100	330
AS-032	1-1/4"	31.8	44	15	225	45	675	60	200
AS-038	1-1/2"	38.1	54	15	225	45	675	60	200
AS-050	2"	50.8	66	15	225	45	675	60	200

AIR HOSE WRAPPED SURFACE 400PSI

Tube and Cover: Rubber or TPR (NBR/PVC),smooth, oil resistance
Reinforcement: 1ply or 2ply polyester thread braiding
Application: For air, oil and medium grade fuels used in construction, shipyards, mining and agriculture.
Temperature: -30°C (- 22°F) to + 80°C (+ 176°F)



Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
AW44-005	3/16"	4.8	12	28	400	84	1200	100	330
AW44-006	1/4"	6.4	13	28	400	84	1200	100	330
AW44-008	5/16"	7.9	15	28	400	84	1200	100	330
AW44-010	3/8"	9.5	17	28	400	84	1200	100	330
AW44-012	1/2"	12.7	23	28	400	84	1200	100	330
AW44-019	3/4"	19.1	30	28	400	84	1200	100	330
AW44-025	1"	25.4	37	28	400	84	1200	100	330
AW44-032	1-1/4"	31.8	46	28	400	84	1200	60	200
AW44-038	1-1/2"	38.1	52	28	400	84	1200	60	200
AW44-050	2"	50.8	68	28	400	84	1200	60	200

MULTIPURPOSE RUBBER HOSE 300PSI

Tube and Cover: Rubber smooth, oil resistance
Reinforcement: 1ply or 2ply polyester thread braiding
Application: For air, oil and medium grade fuels used in construction, shipyards, mining and agriculture.
Temperature: -30°C (- 22°F) to + 80°C (+ 176°F)



Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
MPS-005	3/16"	4.8	12	20	300	60	900	100	330
MPS-006	1/4"	6.4	13	20	300	60	900	100	330
MPS-008	5/16"	7.9	15	20	300	60	900	100	330
MPS-010	3/8"	9.5	17	20	300	60	900	100	330
MPS-012	1/2"	12.7	21	20	300	60	900	100	330
MPS-016	5/8"	15.9	26	20	300	60	900	100	330
MPS-019	3/4"	19.1	29	20	300	60	900	100	330
MPS-025	1"	25.4	36	20	300	60	900	100	330
MPS-032	1-1/4"	31.8	44	15	225	45	675	60	200
MPS-038	1-1/2"	38.1	54	15	225	45	675	60	200
MPS-050	2"	50.8	66	15	225	45	675	60	200

TPR(RUBBER & PVC MIXED)MULTIPURPOSE HOSE 300PSI

Construction: Tube and Cover: Rubber or TPR (NBR/PVC), smooth, oil resistance
Reinforcement: 1ply or 2ply polyester thread braiding
Application: For air, oil and medium grade fuels used in construction, shipyards, mining and agriculture.
Temperature: -30°C (- 22°F) to + 80°C (+ 176°F)



Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
RTPR-06	1/4"	6	12	20	300	60	900	100	0.114
RTPR-08	5/16"	8	15	20	300	60	900	100	0.171
RTPR-10	3/8"	10	17	20	300	60	900	100	0.2
RTPR-13	1/2"	13	22	20	300	60	900	50	0.334
RTPR-16	5/8"	16	25	20	300	60	900	50	0.391
RTPR-19	3/4"	19	28	20	300	60	900	50	0.448
RTPR-25	1"	25	35	20	300	60	900	50	0.636

JACK HAMMER HOSE 300PS

Tube: NR & SBR synthetic rubber, black color.
Reinforcement:1ply or 2ply high tensile polyester thread braiding
Cover: NR & SBR synthetic rubber,smooth or wrapped surface, black,yellow,red available
Application: For jackhammer applications.
Temperature: -40℃ (-104 ℉)to 70℃ (+158 ℉)





Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
JA-019	3/4"	19.1	29	20	300	60	900	100	330
JA-025	1"	25.4	36	20	300	60	900	100	330

WIRE REINFORCED AIR HOSE 600 PSI

Tube: NR & SBR synthetic rubber, black color.
Reinforcement: High tensile steel wire braiding or spiral
Cover: NR & SBR synthetic rubber, black, yellow,grey available
Application: For heavy duty air supply where high temperature is required. For use with high-temperature compressors without an after-cooler, mining, quarries, construction, industrial air placement sand blasting and heavy duty equipment.
Temperature: - 30°C (-22°F) to + 80°C (+176°F)



Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
WA6-012	1/2"	12.7	23	42	600	126	1800	30.5	100
WA6-019	3/4"	19.1	30	42	600	126	1800	30.5	100
WA6-025	1"	25.4	37	42	600	126	1800	30.5	100
WA6-032	1- 1/4"	31.8	46	42	600	126	1800	30.5	100
WA6-038	1- 1/2"	38.1	52	42	600	126	1800	30.5	100
WA6-050	2"	50.8	68	42	600	126	1800	30.5	100
WA6-064	2- 1/2"	63.5	80	42	600	126	1800	30.5	100
WA6-076	3"	76.2	92	42	600	126	1800	30.5	100
WA6- 102	4"	101.6	123	42	600	126	1800	30.5	100
WA6- 152	6"	152	175	42	600	126	1800	30.5	100

HOT AIR BLOWER HOSE

Tube: Black EPDM
Reinforcement: Multiple plies of polyester tire cord with wire helix
Cover: Black heat resistant EPDM rubber
Application: Hot Air Blower flexible lightweight hose designed for transferring hot air to tanks on dry bulk material trucks.
Temperature: -30°F (-35°C) to +300°F (+149°C) up to 325°F (+177°C) on an intermittent basis. Not for steam service



Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
HAB038	1-1/2"	38	50	10	150	30	450	61	200
HAB050	2"	50.8	64	10	150	30	450	61	200
HAB064	2-1/2"	64	76	10	150	30	450	61	200
HAB076	3"	76.2	91	10	150	30	450	61	200
HAB089	3-1/2"	89	104	7	100	21	300	61	200
HAB102	4"	102	120	5	75	15	225	61	200
HAB127	5"	127	144	5	75	15	225	61	200
HAB152	6"	152	170	5	75	15	225	30.5	100

WATER DISCHARGE & DELIVERY HOSE 150 PSI

Tube: Black,smooth,NR,SBR rubber compound.
Reinforcement: Multi plies high strength synthetic fibre
Cover: Black,smooth,cloth impression, SBR rubber compound
Temperature:-40℃ (-104 ℉) +70℃ (+158 ℉)
Application: Designed for water and non-corrosive fluids used i and light duty industrial applications."



Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
WD1-005	3/16"	4.8	12	10	150	30	450	100	330
WD1-006	1/4"	6.4	13	10	150	30	450	100	330
WD1-008	5/16"	7.9	15	10	150	30	450	100	330
WD1-009	3/8"	9.5	16	10	150	30	450	100	330
WD1-012	1/2"	12.7	22	10	150	30	450	100	330
WD1-016	5/8"	15.9	26	10	150	30	450	100	330
WD1-019	3/4"	19.1	29	10	150	30	450	100	330
WD1-022	7/8"	22.2	32	10	150	30	450	100	330
WD1-025	1"	25.4	35	10	150	30	450	100	330
WD1-032	1-1/4"	31.8	42	10	150	30	450	60	200
WD1-038	1-1/2"	38.1	48	10	150	30	450	60	200
WD1-050	2"	50.8	62	10	150	30	450	60	200
WD1-063	2-1/2"	63.5	76	10	150	30	450	60	200
WD1-076	3"	76.2	89	10	150	30	450	60	200
WD1-089	3-1/2"	88.9	103	10	150	30	450	60	200
WD1-102	4"	101.6	116	10	150	30	450	60	200
WD1-127	5"	127	142	10	150	30	450	30	100
WD1-152	6"	152.4	167	10	150	30	450	30	100
WD1-203	8"	203.2	219	10	150	30	450	30	100
WD1-254	10"	254	274	10	150	30	450	12	40
WD1-305	12"	304.8	322	10	150	30	450	12	40

WATER SUCTION & DISCHARGE HOSE 150 PSI

Tube: Black,smooth,NR,SBR rubber compound.
Reinforcement: Multi plies High strength synthetic fibre and helix steel wire
Cover: Black,smooth,cloth impression,SBR rubber compound
Temperature: -30°C (- 22°F) to + 80°C (+ 176°F)
Application: Hardwall hose designed for suction and discharge of water,and non-corrosive fluids used in construction sites and light duty industrial applications.Ideal high pressure water discharge hose for rugged, tough operating conditions



Item Code	I.D		O.D	W.P		B.P		vacuum	L	
	inch	mm	mm	bar	psi	bar	psi	bar	m	ft
WSD1-019	3/4"	19.1	30	10	150	30	450	0.8	60	200
WSD1-025	1"	25.4	36	10	150	30	450	0.8	60	200
WSD1-032	1- 1/4"	31.8	44	10	150	30	450	0.8	60	200
WSD1-038	1- 1/2"	38.1	51	10	150	30	450	0.8	60	200
WSD1-050	2"	50.8	64	10	150	30	450	0.8	60	200
WSD1-063	2- 1/2"	63.5	77	10	150	30	450	0.8	60	200
WSD1-076	3"	76.2	90	10	150	30	450	0.8	60	200
WSD1-089	3- 1/2"	88.9	104	10	150	30	450	0.8	60	200
WSD1- 102	4"	101.6	118	10	150	30	450	0.8	30	200
WSD1- 127	5"	127	145	10	150	30	450	0.8	30	100
WSD1- 152	6"	152.4	170	10	150	30	450	0.8	30	100
WSD1-203	8"	203.2	224	10	150	30	450	0.8	30	100
WSD1-276	10"	254	276	10	150	30	450	0.8	12	40
WSD1-326	12"	304	326	10	150	30	450	0.8	12	40
WSD1-378	14"	350	378	10	150	30	450	0.8	12	40

WATER DISCHARGE & DELIVERY HOSE 300PSI

Tube: Black,smooth,NR,SBR rubber compound.
Reinforcement: Multi plies high strength synthetic fibre
Cover: Black,smooth,cloth impression, SBR rubber compound,
Application: Designed for water and non-corrosive fluids used in construction ,mines and light duty industrial.
Temperature: -40℃ (-104 ℉)to+70℃ (+158 ℉)



Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
WD3-005	3/16"	4.8	12	20	300	60	900	100	330
WD3-006	1/4"	6.4	13	20	300	60	900	100	330
WD3-008	5/16"	7.9	15	20	300	60	900	100	330
WD3-009	3/8"	9.5	16	20	300	60	900	100	330
WD3-012	1/2"	12.7	22	20	300	60	900	100	330
WD3-016	5/8"	15.9	26	20	300	60	900	100	330
WD3-019	3/4"	19.1	29	20	300	60	900	100	330
WD3-025	1"	25.4	36	20	300	60	900	100	330
WD3-032	1- 1/4"	31.8	44	17	250	51	750	60	200
WD3-038	1- 1/2"	38.1	51	17	250	51	750	60	200
WD3-050	2"	50.8	65	17	250	51	750	60	200
WD3-063	2- 1/2"	63.5	78	17	250	51	750	60	200
WD3-076	3"	76.2	91	17	250	51	750	60	200
WD3-089	3- 1/2"	88.9	108	17	250	51	750	60	200
WD3- 102	4"	101.6	120	17	250	51	750	60	200
WD3- 127	5"	127	148	17	250	51	750	30	100
WD3- 152	6"	152.4	173	17	250	51	750	30	100
WD3-203	8"	203.2	228	17	250	51	750	30	100
WD3-254	10"	254	280	17	250	51	750	12	40
WD3-304	12"	304.8	330	17	250	51	750	12	40

WATER SUCTION & DISCHARGE HOSE 300 PSI

Tube: Black,smooth,NR,SBR rubber compound.
Reinforcement: Multi plies High strength synthetic fibre and helix steel wire
Cover: Black,smooth,cloth impression,SBR rubber compound
Temperature: -30°C (- 22°F) to + 80°C (+ 176°F)
Application: Hardwall hose designed for suction and discharge of water,and non-corrosive fluids used in construction,mines,and light duty industrial



Item Code	I.D		O.D	W.P		B.P		vacuum	L	
	inch	mm	mm	bar	psi	bar	psi	bar	m	ft
WS3-019	3/4"	19.1	31	20	300	60	900	0.8	60	200
WS3-025	1"	25.4	38	20	300	60	900	0.8	60	200
WS3-032	1- 1/4"	31.8	47	20	300	60	900	0.8	60	200
WS3-038	1- 1/2"	38.1	53	20	300	60	900	0.8	60	200
WS3-050	2"	50.8	67	20	300	60	900	0.8	60	200
WS3-063	2- 1/2"	63.5	82	20	300	60	900	0.8	60	200
WS3-076	3"	76.2	94	20	300	60	900	0.8	60	200
WS3-089	3- 1/2"	88.9	110	20	300	60	900	0.8	60	200
WS3- 102	4"	101.6	122	20	300	60	900	0.8	60	200
WS3- 127	5"	127	150	20	300	60	900	0.8	30	100
WS3- 152	6"	152.4	176	20	300	60	900	0.8	30	100
WS3-203	8"	203.2	232	20	300	60	900	0.8	12	40
WS3-254	10"	254	290	20	300	60	900	0.8	12	40
WS3-304	12"	304	340	20	300	60	900	0.8	12	40

FUEL OIL RUBBER HOSE SMOOTH SURFACE 300 PSI

Tube: Black,smooth,NR,SBR rubber compound.
Reinforcement: Multi plies High strength synthetic fibre and helix steel wire
Cover: Black,smooth,cloth impression,SBR rubber compound
Temperature: -30°C (- 22°F) to + 80°C (+ 176°F)
Application: Hardwall hose designed for suction and discharge of water,and non-corrosive fluids used in construction,mines,and light duty industrial



Item Code	I.D		O.D	W.P		B.P		L	Weight
	inch	mm	mm	bar	psi	bar	psi	m	kg/m
OS-05	3/16"	5	12	20	300	60	900	100	0.15
OS-06	1/4"	6	13	20	300	60	900	100	0.17
OS-08	5/16"	8	15	20	300	60	900	100	0.22
OS-10	3/8"	10	17	20	300	60	900	100	0.25
OS-13	1/2"	13	22	20	300	60	900	100	0.46
OS-16	5/8"	16	25	20	300	60	900	50	0.52
OS-19	3/4"	19	29	20	300	60	900	50	0.64
OS-25	1"	25	36	20	300	60	900	50	0.85
OS-32	1-1/4"	32	43	10	150	30	450	50	1.2
OS-38	1-1/2"	38	50	10	150	30	450	50	1.39
OS-51	2"	51	65	10	150	30	450	50	1.8

FUEL OIL HOSE WRAPPED SURFACE 300 PSI

Tube: Black,smooth,NR,SBR rubber compound.
Reinforcement: Multi plies High strength synthetic fibre and helix steel wire
Cover: Black,smooth,cloth impression,SBR rubber compound
Temperature: -30°C (- 22°F) to + 80°C (+ 176°F)
Application: Hardwall hose designed for suction and discharge of water,and non-corrosive fluids used in construction sites and light duty industrial applications.Ideal high pressure water discharge hose for rugged, tough operating conditions



Part No.	ID		OD	Working Pressure		Burst Pressure		Length
	inch	mm	mm	Bar	psi	Bar	psi	M
FW300-04	1/4"	6.4	15	20	300	60	900	100
FW300-05	5/16"	7.9	17	20	300	60	900	100
FW300-06	3/8"	9.5	19	20	300	60	900	100
FW300-08	1/2"	12.7	22	20	300	60	900	100
FW300-10	5/8"	15.9	26	20	300	60	900	100
FW300-12	3/4"	19.1	30	20	300	60	900	100
FW300-16	1"	25.4	36	20	300	60	900	100
FW300-20	1.1/4"	31.8	44	20	300	60	900	100
FW300-24	1.1/2"	38.1	52	20	300	60	900	100
FW300-32	2"	66	66	20	300	60	900	100

FUEL OIL DISCHARGE & DELIVERY HOSE 150 PSI

Tube: Black,smooth,NR,SBR rubber compound.
Reinforcement: Multi plies high strength synthetic fibre
Cover: Black,smooth,cloth impression, SBR rubber compound,
Application: Designed for water and non-corrosive fluids used in construction ,mines and light duty industrial.
Temperature: -40℃ (-104 ℉)to+70℃ (+158 ℉)



Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
OD012	1/2	12.7	21	10	150	30	450	61	200
OD016	5/8	15.9	25	10	150	30	450	61	200
OD019	3/4	19.1	29	10	150	30	450	61	200
OD022	7/8	22.2	31	10	150	30	450	61	200
OD025	1	25.4	35	10	150	30	450	61	200
OD032	1-1/4	31.8	42	10	150	30	450	61	200
OD038	1-1/2	38.1	51	10	150	30	450	61	200
OD050	2	50.8	64	10	150	30	450	61	200
OD064	2-1/2	63.5	76	10	150	30	450	61	200
OD076	3	76.2	89	10	150	30	450	61	200
OD089	3-1/2	88.9	103	10	150	30	450	61	200
OD100	4	101.6	116	10	150	30	450	61	200
OD125	5	127	142	10	150	30	450	30.5	100
OD150	6	152.4	167	10	150	30	450	30.5	100
OD200	8	203.2	223	10	150	30	450	30.5	100

FUEL OIL DISCHARGE & DELIVERY HOSE 300 PSI

Tube: NR & SBR synthetic rubber, black color.
Reinforcement: 1ply or 2ply high tensile polyester thread braiding,Multi ply high tensile fabric
Cover: NR & SBR synthetic rubber,smooth or wrapped surface, black,yellow,red available
Application: Mainly used for conveying of air, inert gas and water in mining, construction, engineering, shipbuilding, steel production etc.
Temperature: -40℃ (-104 ℉)to 70℃ +158 ℉



Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
OD3-012	1/2	12.7	22	20	300	60	900	61	200
OD3-016	5/8	15.9	26	20	300	60	900	61	200
OD3-019	3/4	19.1	31	20	300	60	900	61	200
OD3-022	7/8	22.2	32	20	300	60	900	61	200
OD3-025	1	25.4	36	20	300	60	900	61	200
OD3-032	1-1/4	31.8	45	20	300	60	900	61	200
OD3-038	1-1/2	38.1	51	20	300	60	900	61	200
OD3-050	2	50.8	65	20	300	60	900	61	200
OD3-064	2-1/2	63.5	79	20	300	60	900	61	200
OD3-076	3	76.2	91	20	300	60	900	61	200
OD3-089	3-1/2	88.9	107	20	300	60	900	61	200
OD3-100	4	101.6	120	20	300	60	900	61	200
OD3-125	5	127	148	20	300	60	900	30.5	100
OD3-150	6	152.4	173	20	300	60	900	30.5	100
OD3-200	8	203.2	228	20	300	60	900	30.5	100

FUEL OIL SUCTION & DISCHARGE HOSE150 PSI

Tube: NR & SBR synthetic rubber, black color.
Reinforcement: 1ply or 2ply high tensile polyester thread braiding,Multi ply high tensile fabric
Cover: NR & SBR synthetic rubber,smooth or wrapped surface, black,yellow,red available
Application: Mainly used for conveying of air, inert gas and water in mining, construction, engineering, shipbuilding, steel production etc.
Temperature: -40℃ (-104 ℉)to 70℃ +158 ℉



Item Code	I.D		O.D	W.P		B.P		vacuum	L	
	inch	mm	mm	bar	psi	bar	psi	bar	m	ft
OSD019	3/4	19.1	31	10	150	0.8	6	152	61	200
OSD025	1	25.4	37	10	150	0.8	6	152	61	200
OSD032	1-1/4	31.8	44	10	150	0.8	8	200	61	200
OSD038	1-1/2	38.1	51	10	150	0.8	9	230	61	200
OSD050	2	50.8	64	10	150	0.8	10	254	61	200
OSD064	2-1/2	63.5	76	10	150	0.8	15	380	61	200
OSD076	3	76.2	91	10	150	0.8	18	460	61	200
OSD089	3-1/2	88.9	107	10	150	0.8	22	550	61	200
OSD100	4	101.6	120	10	150	0.8	24	610	61	200
OSD125	5	127	147	10	150	0.8	30	760	30.6	100
OSD150	6	152.4	172	10	150	0.8	36	916	30.5	100
OSD200	8	203.2	229	10	150	0.8	48	1200	30.5	100
OSD254	10	254	282	10	150	0.8	50	1250	11.8	39
OSD300	12	304.8	329	10	150	0.8	60	1520	11.8	39

FUEL OIL SUCTION & DISCHARGE HOSE 300 PSI

Tube: NR & SBR synthetic rubber, black color.
Reinforcement: 1ply or 2ply high tensile polyester thread braiding,Multi ply high tensile fabric
Cover: NR & SBR synthetic rubber,smooth or wrapped surface, black,yellow,red available
Application: Mainly used for conveying of air, inert gas and water in mining, construction, engineering, shipbuilding, steel production etc.
Temperature: -40℃ (-104 ℉)to 70℃ +158 ℉



Item Code	I.D		O.D	W.P		B.P		vacuum	L	
	inch	mm	mm	bar	psi	bar	psi	bar	m	ft
OSD3-019	3/4	19.1	32	20	300	0.8	6	152	61	200
OSD3-025	1	25.4	37	20	300	0.8	6	152	61	200
OSD3-032	1-1/4	31.8	47	20	300	0.8	8	200	61	200
OSD3-038	1-1/2	38.1	54	20	300	0.8	9	230	61	200
OSD3-050	2	50.8	67	20	300	0.8	10	254	61	200
OSD3-064	2-1/2	63.5	80	20	300	0.8	15	380	61	200
OSD3-076	3	76.2	92	20	300	0.8	18	460	61	200
OSD3-089	3-1/2	88.9	110	20	300	0.8	22	550	61	200
OSD3-100	4	101.6	122	20	300	0.8	24	610	61	200
OSD3-125	5	127	153	20	300	0.8	30	760	30.5	100
OSD3-150	6	152.4	176	20	300	0.8	36	916	30.5	100
OSD3-200	8	203.2	228	20	300	0.8	48	1200	30.5	100
OSD3-254	10	254	288	20	300	0.8	50	1250	11.8	39
OSD3-304	12	304.8	340	20	300	0.8	60	1520	11.8	39

FUEL OIL SUCTION & DISCHARGE HOSE 400 PSI

Tube: NR & SBR synthetic rubber, black color.
Reinforcement: 1ply or 2ply high tensile polyester thread braiding,Multi ply high tensile fabric
Cover: NR & SBR synthetic rubber,smooth or wrapped surface, black,yellow,red available
Application: Mainly used for conveying of air, inert gas and water in mining, construction, engineering, shipbuilding, steel production etc.
Temperature: -40℃ (-104 ℉)to 70℃ +158 ℉



Code	I.D		O.D	W.P		VACUUM	R		L	
	inch	mm	mm	bar	psi	bar	inch	mm	m	ft
OSD4-050	2	50.8	67	27.6	400	0.8	10	254	61	200
OSD4-064	2-1/2	63.5	80	27.6	400	0.8	15	380	61	200
OSD4-076	3	76.2	92	27.6	400	0.8	18	460	61	200
OSD4-089	3-1/2	88.9	110	27.6	400	0.8	22	550	61	200
OSD4-100	4	101.6	122	27.6	400	0.8	24	610	61	200

TANK TRUCK OIL HOSE 150PSI

Tube: Black,smooth,Nitrile rubber
Reinforcement: High strength synthetic fabric and helix wire,with anti-static wire
Cover: Black or Red,smooth or corrugated ,oil,fuel,and weathering resistant synthetic rubber
Application: Hardwall hose designed for suction and delivery of a wide range of petroleum fuel with aromatic content up to 50% for tank trucks.
Temperature: -32°C (-90°F) to +82°C (+180°F)



Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
OTT-050	2"	50.8	63	10	150	30	450	61	200
OTT-064	2-1/2"	63.5	76	10	150	30	450	61	200
OTT-076	3"	76.2	89	10	150	30	450	61	200
OTT-089	3-1/2"	88.9	103	10	150	30	450	61	200
OTT-100	4"	101.6	120	10	150	30	450	61	200
OTT-125	5"	127	147	10	150	30	450	30.5	100
OTT-150	6"	152.4	172	10	150	30	450	30.5	100

FUEL OIL SUCTION & DISCHARGE HOSE600 PSI



Tube: NR/SBR synthetic rubber.
Reinforcement: four or six plies of synthetic textile with a static wire.
Cover:NR/SBR synthetic rubber,black,cloth impression.
Application: Used for spraying plaster, grout, sand.

Code	I.D		O.D	W.P		VACUUM	R		L	
	inch	mm	mm	bar	psi	bar	inch	mm	m	ft
OPS050	2"	50.8	71	40	600	0.8	12	305	61	200
OPS063	2-1/2"	63.5	87.6	40	600	0.8	15	381	61	200
OPS076	3"	76.2	99.6	40	600	0.8	18	457.2	61	200
OPS088	3-1/2"	88.9	112.2	40	600	0.8	21	533	61	200
OPS101	4"	101.6	128.4	40	600	0.8	24	610	61	200
OPS152	6"	152	183.4	40	600	0.8	36	915	30.5	100

DOCK OIL TRANSFER HOSE/BUNKERING HOSE

Tube: Black,smooth,Nitrile synthetic rubber,suitable for up to 50% aromatic content
Reinforcement: Multiply heavy duty synthetic tire cord supported with helix wire, anti-static wires
Cover: Black,wrapped finish,synthetic rubber for high abrasion ,ozone & weather resistance
Temperature: -40°C to +100°C (+180°F)
Application: Heavy duty suction and discharge dock hose designed for transferring petroleum product up to 50%aromatic content from tankers and barges,bunkering service and industrial applications.



Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
DOT076	3"	76.2	96	20	300	60	900	61	200
DOT100	4"	101.6	126	20	300	60	900	61	200
DOT125	5"	127	155	20	300	60	900	30.5	100
DOT150	6"	152.4	185	20	300	60	900	30.5	100
DOT200	8"	203.2	242	20	300	60	900	11.8	39
DOT250	10"	254	298	20	300	60	900	11.8	39

FUEL OIL/GASOLINE DISPENSER PUMP HOSE

Tube: Nitrile synthetic rubber,smooth
Reinforcement: steel wire braid
Cover: Nitrile synthetic rubber,black,green,red,blue or yellow
Application: Designed for general refueling equipment to convey aviation kerosene,gasoline,diesel oil and other mineral oil.
Temperature: -40°C(-104°F) to 121°C (+250°F)



Code	I.D		O.D	W.P		B.P		L	Weight
	inch	mm	mm	bar	psi	bar	psi	mm	kg/m
FDH016	5/8"	15.9	25.4	18	258	72	1032	160	0.59
FDH019	3/4"	19.1	28.7	18	258	72	1032	190	0.67
FDH025	1"	25.4	35.1	18	258	72	1032	240	0.89

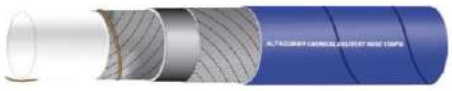
HOT TAR & ASPHALT SUCTION HOSE 150PSI

Tube: Black,smooth,special elastmoer compound
Reinforcement:2 or 4 layers high tensile cord with steel wire helix, anti-static wires
Cover: Black,wrapped finish,synthetic elastomer compound for high abrasion ,ozone & weather resistance
Application: Hot tar and alphalt suction hose is specially designed for conveying hot tar and asphalt.
Temperature: -40°C(-22°F) to 180°C (+356°F)



Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
HTSH051	2"	50.8	69	10	150	30	450	61	200
HTSH076	3"	76.2	96	10	150	30	450	61	200
HTSH102	4"	101.6	122	10	150	30	450	61	200

CHEMICAL DISCHARGE HOSE 150Psi





Tube: White,Smooth Ultra High Molecular Weight Polyethylene (UHMWPE),EPDM.
Reinforcement: Multi plies high strength synthetic fabric
Cover:EPDM resistant to chemical,weathering and ozone,blue,green wrapped.
Application: Designed for in-plant or tank truck use to transfer chemicals and solvents.
Temperature: -40℃ (-72 ℉) to + 120℃ (+248 ℉)

Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
UCDH019	3/4"	19.1	31	10	150	40	600	61	200
UCDH025	1"	25.4	37	10	150	40	600	61	200
UCDH032	1-1/4"	31.8	44	10	150	40	600	61	200
UCDH038	1-1/2"	38.1	51	10	150	40	600	61	200
UCDH050	2"	50.8	67	10	150	40	600	61	200
UCDH064	2-1/2"	63.5	79	10	150	40	600	61	200
UCDH076	3"	76.2	92	10	150	40	600	61	200
UCDH089	3-1/2"	88.9	105	10	150	40	600	61	200
UCDH102	4"	101.6	118	10	150	40	600	61	200
UCDH152	6"	152	175	10	150	40	600	30.5	100

CHEMICAL DISCHARGE HOSE 250Psi

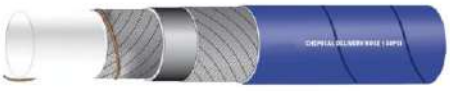




Tube: White,Smooth Ultra High Molecular Weight Polyethylene (UHMWPE),EPDM.
Reinforcement: Multi plies high strength synthetic fabric
Cover:EPDM resistant to chemical,weathering and ozone,blue,green wrapped.
Application: Designed for in-plant or tank truck use to transfer chemicals and solvents.
Temperature: -40℃ (-72 ℉) to + 120℃ (+248 ℉)

Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
UCDH2019	3/4"	19.1	31	17	250	68	1000	61	200
UCDH2025	1"	25.4	37	17	250	68	1000	61	200
UCDH2032	1-1/4"	31.8	44	17	250	68	1000	61	200
UCDH2038	1-1/2"	38.1	51	17	250	68	1000	61	200
UCDH2050	2"	50.8	67	17	250	68	1000	61	200
UCDH2064	2-1/2"	63.5	79	17	250	68	1000	61	200
UCDH2076	3"	76.2	92	17	250	68	1000	61	200
UCDH2089	3-1/2"	88.9	105	17	250	68	1000	61	200
UCDH2102	4"	101.6	118	17	250	68	1000	61	200
UCDH2152	6"	152	175	17	250	68	1000	30.5	100

CHEMICAL SUCTION & DISCHARGE HOSE 150Ps





Tube: White,Smooth Ultra High Molecular Weight Polyethylene (UHMWPE), EPDM.
Reinforcement: Multi plies high strength synthetic fabric and helix wire
Cover:EPDM resistant to chemical,weathering and ozone,blue, green wrapped or corrugated
Application: Designed for in-plant or tank truck use ,suction and discharge of chemicals and solvents.
Temperature: -40℃ (-72 ℉) to + 120℃ (+248 ℉)

Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
UCSH019	3/4"	19.1	30	10	150	40	600	61	200
UCSH025	1"	25.4	36	10	150	40	600	61	200
UCSH032	1-1/4"	31.8	44	10	150	40	600	61	200
UCSH038	1-1/2"	38.1	51	10	150	40	600	61	200
UCSH050	2"	50.8	64	10	150	40	600	61	200
UCSH064	2-1/2"	63.5	79	10	150	40	600	61	200
UCDH076	3"	76.2	92	10	150	40	600	61	200
UCDH089	3-1/2"	88.9	105	10	150	40	600	61	200
UCDH102	4"	101.6	120	10	150	40	600	61	200
UCDH152	6"	152	172	10	150	40	600	30.5	100

CHEMICAL SUCTION & DISCHARGE HOSE 250Psi





Tube: White,Smooth Ultra High Molecular Weight Polyethylene (UHMWPE), EPDM.
Reinforcement: Multi plies high strength synthetic fabric and helix wire
Cover:EPDM resistant to chemical,weathering and ozone,blue, green wrapped or corrugated
Application: Designed for in-plant or tank truck use ,suction and discharge of chemicals and solvents.
Temperature: -40℃ (-72 ℉) to + 120℃ (+248 ℉)

Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
UCSH2019	3/4"	19.1	31	17	250	68	1000	61	200
UCSH2025	1"	25.4	38	17	250	68	1000	61	200
UCSH2032	1-1/4"	31.8	47	17	250	68	1000	61	200
UCSH2038	1-1/2"	38.1	53	17	250	68	1000	61	200
UCSH2050	2"	50.8	67	17	250	68	1000	61	200
UCSH2064	2-1/2"	63.5	82	17	250	68	1000	61	200
UCDH2076	3"	76.2	94	17	250	68	1000	61	200
UCDH2089	3-1/2"	88.9	108	17	250	68	1000	61	200
UCDH2102	4"	101.6	122	17	250	68	1000	61	200
UCDH2152	6"	152	175	17	250	68	1000	30.5	100

FOOD DISCHARGE HOSE 150Psi

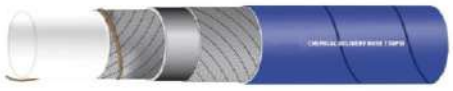




Tube: White,smooth,NR,NBR or EPDM food quality rubber
Reinforcement: High strength synthetic fabric
Cover: smooth(wrapped finish),synthetic rubber, blue or white,weathering resistant.
Application: FDA approved food hose designed for the delivery c foods such as milk,Juice,beer,edible oil,dairy products etc.
Temperature: -32℃ (-90 ℉) to 80℃ (+176 ℉)

Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
FDH012	1/2"	12.7	22	10	150	30	450	61	200
FDH019	3/4"	19.1	29	10	150	30	450	61	200
FDH025	1"	25.4	37	10	150	30	450	61	200
FDH032	1-1/4"	31.8	43	10	150	30	450	61	200
FDH038	1-1/2"	38.1	50	10	150	30	450	61	200
FDH050	2"	50.8	64	10	150	30	450	61	200
FDH064	2-1/2"	63.5	78	10	150	30	450	61	200
FDH076	3"	76.2	90	10	150	30	450	61	200
FDH089	3-1/2"	89	104	10	150	30	450	61	200
FDH102	4"	101.6	116	10	150	30	450	61	200

FOOD DISCHARGE HOSE 250Psi

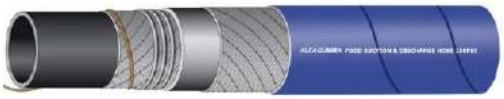




Tube: White,smooth,NR,NBR or EPDM food quality rubber
Reinforcement: High strength synthetic fabric
Cover: smooth(wrapped finish),synthetic rubber, blue or white,weathering resistant.
Application: FDA approved food hose designed for the delivery o foods such as milk,Juice,beer,edible oil,dairy products etc.
Temperature: -32℃ (-90 ℉) to 80℃ (+176 ℉)

Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
FDH2012	1/2"	12.7	22	17	250	51	750	61	200
FDH2019	3/4"	19.1	31	17	250	51	750	61	200
FDH2025	1"	25.4	38	17	250	51	750	61	200
FDH2032	1-1/4"	31.8	45	17	250	51	750	61	200
FDH2038	1-1/2"	38.1	51	17	250	51	750	61	200
FDH2050	2"	50.8	68	17	250	51	750	61	200
FDH2064	2-1/2"	63.5	79	17	250	51	750	61	200
FDH2076	3"	76.2	91	17	250	51	750	61	200
FDH2089	3-1/2"	89	106	17	250	51	750	61	200
FDH2102	4"	101.6	120	17	250	51	750	61	200

FOOD SUCTION & DISCHARGE HOSE 150Psi

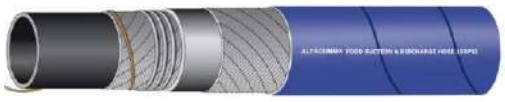




Tube: White,smooth,NR,NBR or EPDM food quality rubber
Reinforcement: Multi plies high strength synthetic fabric and hel wire
Cover:smooth(wrapped finish),synthetic rubber, blue or white, weathering resistant.
Application: FDA approved food hose designed for the suction and delivery of foods such as milk,Juice,beer,edible oil,dairy products etc.
Temperature: -32℃ (-90 ℉) to 80℃ (+176 ℉)

Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
FSH019	3/4"	19.1	31	10	150	30	450	61	200
FSH025	1"	25.4	37	10	150	30	450	61	200
FSH032	1-1/4"	31.8	44	10	150	30	450	61	200
FSH038	1-1/2"	38.1	51	10	150	30	450	61	200
FSH050	2"	50.8	64	10	150	30	450	61	200
FSH064	2-1/2"	63.5	80	10	150	30	450	61	200
FSH076	3"	76.2	92	10	150	30	450	61	200
FSH089	3-1/2"	89	105	10	150	30	450	61	200
FSH102	4"	101.6	120	10	150	30	450	61	200
FSH125	5"	125	145	10	150	30	450	30.5	100
FSH152	6"	152	172	10	150	30	450	30.5	100

FOOD SUCTION & DISCHARGE HOSE 250Psi





Tube: White,smooth,NR,NBR or EPDM food quality rubber
Reinforcement: Multi plies high strength synthetic fabric and heli wire
Cover:smooth(wrapped finish),synthetic rubber, blue or white, weathering resistant.
Application: FDA approved food hose designed for the suction and delivery of foods such as milk,Juice,beer,edible oil,dairy products etc.
Temperature: -32℃ (-90 ℉) to 80℃ (+176 ℉)

Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
FSH2019	3/4"	19.1	32	17	250	51	750	61	200
FSH2025	1"	25.4	38	17	250	51	750	61	200
FSH2032	1-1/4"	31.8	46	17	250	51	750	61	200
FSH2038	1-1/2"	38.1	53	17	250	51	750	61	200
FSH2050	2"	50.8	67	17	250	51	750	61	200
FSH2064	2-1/2"	63.5	81	17	250	51	750	61	200
FSH2076	3"	76.2	93	17	250	51	750	61	200
FSH2089	3-1/2"	89	107	17	250	51	750	61	200
FSH2102	4"	101.6	122	17	250	51	750	61	200
FSH2125	5"	125	147	17	250	51	750	30.5	100
FSH2152	6"	152	174	17	250	51	750	30.5	100

OXYGEN HOSE 300PSI

Tube: Black, smooth, synthetic rubber
Reinforcement: High strength synthetic plies
Cover: Blue/green/red, smooth, synthetic rubber
Application: Designed for welding, cutting and allied processes. Specific welding hose cartering for oxygen, carbon dioxide, nitrogen, argon and fuel gases including acetylene, natural gas, methane and propane available upon request.
Temperature: -32℃ (-90 ℉) to 80℃ (+176 ℉)



Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
OXYH005	3/16"	4.8	12	20	300	60	900	100	330
OXYH006	1/4"	6.4	13	20	300	60	900	100	330
OXYH008	5/16"	7.9	15	20	300	60	900	100	330
OXYH010	3/8"	9.5	17	20	300	60	900	100	330
OXYH012	1/2"	12.7	21	20	300	60	900	100	330
OXYH016	5/8"	15.9	26	20	300	60	900	100	330
OXYH019	3/4"	19.1	29	20	300	60	900	100	330
OXYH025	1"	25.4	36	20	300	60	900	100	330

ACETYLENE HOSE 300PSI

Tube: Black, smooth, synthetic rubber
Reinforcement: High strength synthetic plies
Cover: Blue/green/red, smooth, synthetic rubber
Application: Designed for welding, cutting and allied processes. Specific welding hose cartering for oxygen, carbon dioxide, nitrogen, argon and fuel gases including acetylene, natural gas, methane and propane available upon request.
Temperature: -32℃ (-90 ℉) to 80℃ (+176 ℉)



Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
ACEH005	3/16"	4.8	12	20	300	60	900	100	330
ACEH006	1/4"	6.4	13	20	300	60	900	100	330
ACEH008	5/16"	7.9	15	20	300	60	900	100	330
ACEH010	3/8"	9.5	17	20	300	60	900	100	330
ACEH012	1/2"	12.7	21	20	300	60	900	100	330
ACEH016	5/8"	15.9	26	20	300	60	900	100	330
ACEH019	3/4"	19.1	29	20	300	60	900	100	330
ACEH025	1"	25.4	36	20	300	60	900	100	330

RUBBER TWIN WELDING HOSE 300 PSI



Tube : Black, smooth, synthetic rubber
Reinforcement: High strength synthetic yarn braiding
Cover: Blue/green/red, smooth, synthetic rubber
Application: Designed for welding, cutting and allied processes. Specific welding hose cartering for oxygen, carbon dioxide, nitrogen argon and fuel gases including acetylene, natural gas, methane and propane available upon request.
Temperature: -32℃ (-90 ℉) to 80℃ (+176 ℉)

Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
TWH005	3/16"	4.8+4.8	12+12	20	300	60	900	100	330
TWH006	1/4"	6.4+6.4	13+13	20	300	60	900	100	330
TWH008	5/16"	7.9+7.9	15+15	20	300	60	900	100	330
TWH810	5/16"+3/8"	7.9+9.5	15+17	20	300	60	900	100	330
TWH010	3/8"	9.5+9.5	17+17	20	300	60	900	100	330

RUBBER LPG/ PROPAN/GAS HOSE 300 PSI



Inner Tube: Black Extruded SBR & NR synthetic rubber
Reinforcement: High tensile synthetic polyester yarn multi-spiral.
Cover: High tensile synthetic abrasion and weather resistant rubber, smooth blue, red, or green Cover.
Working Pressure: Constant Pressure 20 Bar / 300 psi
Temperature Range: -25℃～+70℃ (-13°F～158°F)
Application: Mainly used to convey gas for household fuel gas system

Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
GASH005	3/16"	4.8	12	20	300	60	900	100	330
GASH006	1/4"	6.4	13	20	300	60	900	100	330
GASH008	5/16"	7.9	15	20	300	60	900	100	330
GASH010	3/8"	9.5	17	20	300	60	900	100	330
GASH012	1/2"	12.7	21	20	300	60	900	100	330

RUBBER SANDBLAST HOSE 12BAR



Tube: Black,smooth, NR synthetic rubber
Reinforcement: Multi ply High strength synthetic fabric
Cover: Black, smooth(wrapped), abrasion resistant NR synthetic rubber
Application: Softwall abrasion resistant hose designed for the delivery of steel shots, sand, bead blasting application
Temperature: -40℃ to +70℃ (-40 ℉ to +158 ℉)

Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
SBH012	1/2"	12.7	25	12	174	36	522	40	131
SBH016	5/8"	15.9	30	12	174	36	522	40	131
SBH019	3/4"	19.1	34	12	174	36	522	40	131
SBH025A	1"	25.4	38	12	174	36	522	40	131
SBH025B	1"	25.4	47	12	174	36	522	40	131
SBH032	1-1/4"	31.8	48	12	174	36	522	40	131
SBH038	1-1/2"	38.1	54	12	174	36	522	40	131
SBH051	2"	50.8	69	12	174	36	522	40	131
SBH064	2-1/2"	64	84	12	174	36	522	40	131
SBH076	3"	76.2	96	12	174	36	522	40	131
SBH102	4"	102	124	12	174	36	522	40	131
SBH127	5"	127	149	12	174	36	522	40	131
SBH152	6"	152	177	12	174	36	522	40	131

BULK MATERIAL SUCTION HOSE 150PSI

Tube: Pure gum compound
Reinforcement: Multi ply synthetic fabric with steel wire helix
Cover: Black synthetic rubber, fabric impression, corrugated or smooth.
Application: For suction, discharge or gravity flow of abrasives ,dry cement,sand,gravel etc from manufacturing, sandblast recovery, mineral processing, power plants.
Temperature: -40°C to +82°C(-40°F to +180°F)



Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
BMSH032	1 1/4"	31.8	46	10	150	30	300	61	200
BMSH038	1 1/2"	38	53	10	150	30	300	61	200
BMSH051	2"	50	69	10	150	30	300	61	200
BMSH064	2-1/2"	64	83	10	150	30	300	61	200
BMSH076	3"	76	98	10	150	30	300	61	200
BMSH089	3-1/2"	89	113	10	150	30	300	61	200
BMSH102	4"	102	126	10	150	30	300	61	200
BMSH127	5"	127	153	10	150	30	300	30.5	100
BMSH152	6"	152	180	10	150	30	300	30.5	100
BMSH203	8"	203	235	10	150	30	300	12	40
BMSH254	10"	254	287	10	150	30	300	12	40
BMSH304	12"	304.8	335	10	150	30	300	12	40

BULK MATERIAL DISCHARGE HOSE

Tube: Black, smooth, synthetic rubber
Reinforcement: High strength synthetic cord
Cover: Black, smooth(wrapped finish), synthetic rubber, weathering and ozone resistant.
Application: Specially designed softwall hose for delivery of dry cement, sand, gravel, etc. Equipped with excellent rebound, durability and abrasion resistant properties.



Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
BMDH050	2"	50.8	68	10	150	30	450	60	200
BMDH057	2-1/4"	57.2	74	10	150	30	450	60	200
BMDH060	1-3/8"	60.3	77	10	150	30	450	60	200
BMDH063	2-1/2"	63.5	81	10	150	30	450	60	200
BMDH066	2-5/8"	66.7	84	10	150	30	450	40	130
BMDH069	2-3/4"	69.9	88	10	150	30	450	40	130
BMDH076	3"	76.2	94	10	150	30	450	60	100
BMDH089	3-1/2"	88.9	107	10	150	30	450	60	100
BMDH102	4"	101.6	120	10	150	30	450	30	100
BMDH114	4-1/2"	114.3	134	10	150	30	450	30	100
BMDH127	5"	127	148	10	150	30	450	30	100
BMDH152	6"	152.4	175	10	150	30	450	30	100
BMDH203	8"	203.2	230	10	150	30	450	30	100
BMDH254	10"	254	281	10	150	30	450	12	40
BMDH304	12"	304.8	334	10	150	30	450	12	40

CONCRETE PLACEMENT HOSE 800PSI

Tube: Black NR/SBR rubber compound
Reinforcement: Multi ply synthetic fabric or steel wire braiding
Cover: Black,smooth cloth impression,NR/SBR rubber compound
Application: These concrete hoses are high pressure pumping components designed to pump concrete and other abrasive mixtures such as plaster and wet cement at a pressure up to 800psi
Temperature: -40℃ to +70℃ (-40 ℉ to +158 ℉)



Code	I.D		O.D	W.P		L	
	mm	inch	mm	psi	bar	ft	m
CPH5551	51	2	74	800	55	200	61
CPH5576	76	3	100	800	55	200	61
CPH55102	102	4	132	800	55	200	61

CONCRETE PLACEMENT HOSE 85BAR/1230PSI

Tube: Black,smooth,Abrasion resistant NR/SBR compound
Reinforcement: 2"-3" : two steel wire braiding,
3 1/2"-6" four layers steel cords
Cover: Black,smooth cloth impression,NR/SBR compound abrasion cover,resistant to abrasion, cutting, gouging and weather.
Application: High pressure concrete placement application.
Temperature: -40℃ to +70℃ (-40 ℉ to +158 ℉)



Code	I.D		O.D		W.P		B.P		R		Weight
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	kg/m
CPH8551	2	50.8	2.75	69.8	1230	8.5	3000	20	10.83	275	3.03
CPH8564	2 1/2	63.5	3.46	88	1230	8.5	3000	20	11.81	300	4.48
CPH8576	3	76.2	3.81	96.7	1230	8.5	3000	20	13.78	350	5.46
CPH85102	4	101.6	5.12	130	1230	8.5	3000	20	15.75	400	8.46
CPH85127	5	127	6.1	155	1230	8.5	3000	20	19.69	500	9.63
CPH85152	6	152.4	7.09	180	1230	8.5	3000	20	25.59	600	10.99

LAYFLAT CEMENT DISCHARGE HOSE 60PSI

Tube: Black,smooth,NR/SBR rubber compound
Reinforcement: 2 ply high tensile synthetic fabric
Cover: Black,smooth,cloth impression NR/SBR rubber compound, abrasion and weather resistant
Application: Layflat delivery hose for concrete sand,gravel and general abrasive dry materials
Temperature: -40℃ to +70℃ (-40 ℉ to +158 ℉)



Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
	3	76	86	4	60	12	180	20	65
LCDH089	3-1/2"	89	100	4	60	12	180	20	65
LCDH102	4	102	112	4	60	12	180	20	65
LCDH127	5	127	137	4	60	12	180	20	65
LCDH152	6	152	162	4	60	12	180	20	65
LCDH203	8	203	213	4	60	12	180	20	65

DISCHARGE DREDGING HOSE

Tube: Synthetic abrasive resistant rubber with high strength breaker plies coated with high grade synthetic rubber to achieve maximum adhesion of the lining to the hose carcass.

Reinforcement: Multiple layers of high tensile reinforcing materials with outstanding resistance to fatigue. Fully embedded steel wire coils are incorporated to achieve kink, crush and local load resistance.
Cover: Synthetic rubber, resistant to abrasion, weathering, sea water and oil. The cover, which incorporates reinforcing breaker plies is black with a bright orange spiral stripe or coated in a tough bright orange polyurethane.



Application: The discharge dredging hose is used to transport sediments along with dredging ships at port and dock,it is used for discharging of seawater, silt, sand and other dredging materials,it can be connected with pipeline well,and reduce sway for wave,so that medium can flow more smoothly.

Temperature: -25℃ to +80℃ (-13 ℉ to +176 ℉)

Code	ID		W.P.	B.P.	Wear layer Thickness	Cover Thickness	Length
	inch	mm	bar	bar	mm	mm	m
DDH300	12	300	5-15	15-45	12-15	5	1.5-2.0
DDH400	16	400	5-15	15-45	12-15	5	1.5-2.0
DDH450	18	450	5-15	15-45	12-15	5	1.5-2.0
DDH500	20	500	10-20	30-60	15-20	5	1.5-2.0
DDH550	22	550	10-20	30-60	15-20	5	1.5-2.0
DDH600	24	600	15-25	45-75	15-20	5	1.5-2.0
DDH650	26	650	15-25	45-75	15-20	5	1.5-2.0
DDH700	28	700	15-25	45-75	20-25	5	1.5-2.0
DDH750	30	750	15-25	45-75	20-25	5	1.5-2.0
DDH800	32	800	15-25	45-75	25-50	5-8	1.5-2.0
DDH900	36	900	20-30	60-90	25-50	5-8	2.0-3.0
DDH1000	40	1000	25-30	75-90	25-50	5-8	2.0-3.0
DDH1100	44	1100	25-30	75-90	25-50	5-8	2.0-3.0

EPDM STEAM HOSE 230℃



Tube: Synthetic rubber EPDM
Reinforcement: high tensile wire braiding
Cover: Red or blue, pin pricked smooth (wrapped finish) ,EPDM rubber
Application: The steam hose is used for the saturated steam in chemical industry, petroleum industry, shipbuilding industry

Code	I.D		O.D	W.P		B.P		L	
	inch	mm	mm	bar	psi	bar	psi	m	ft
RSTH2010	10	3/8"	21	17	250	170	2500	50	0.45
RSTH2012	12	1/2"	25	17	250	170	2500	60	0.53
RSTH2016	16	5/8"	28	17	250	170	2500	70	0.6
RSTH2019	19	3/4"	32	17	250	170	2500	80	0.68
RSTH2025	25	1"	39	17	250	170	2500	110	0.9
RSTH2032	32	1 1/4"	46	17	250	170	2500	150	1.3
RSTH2038	38	1 1/2"	54	17	250	170	2500	180	1.6
RSTH2051	51	2"	67	17	250	170	2500	245	2.2
RSTH2064	64	2 1/2"	83	17	250	170	2500	300	3.8
RSTH2076	76	3"	95	17	250	170	2500	400	4.6
RSTH2089	89	3 1/2"	110	17	250	170	2500	500	5.2
RSTH2102	102	4"	124	17	250	170	2500	600	6.5

SAE J1401 HYDRAULIC BRAKE HOSE

Applications: Brake hose SAE J1401 Designed for pressure transmission for auto, truck and trailer hydraulic pressure brake systems.Truck and trailer manufacturers,aftermarket packagers and wholesalers use this hose. It is certified to meet SAEJ1401 requirements.



Temperature range -40~+100°C Construction
External layer:CR/EPDM
Reinforcement :PET
Middle layer :NBR
Reinforcement :PET
Internal layer:EPDM

Hose Type	I.D.	O.D.	Wall Thickness	Wall Diff Max	Expansion ml/Max.mm		Burst pressure
Dash	mm	mm	mm	Bar	6.9mpa	10.3mpa	Mini mpa
1	3.3 +0.2 -0.1	10.5 +0.3 -0.2	3.65	<0.25	<1.08	<1.38	>70
2	4.8±0.2	13±0.3	4.35	<0.3	<1.81	<2.36	>60
3	6.3±0.2	15±0.3	3.75	<0.3	<2.69	<3.84	>50

AIR BRAKE HOSE

Structure:EPDM tube + ployester fiber spiral line + EPDM cover

Appearance:mill finish, black

Applicable temperature:-40 to 100°c

Application: This type of rubber hose is applied to vehicle air brake system.

The application includes the flexible connection between frame and axle, tractor and trailer and between trailers, as well as unprotected air circuit with air pressure coming to 1.0Mpa when the air circuit is possibly to be dragged or bumped.It's forbidden to use this type of hose when the temperature inside and outside hose falls outside the range -40°c ~ 100°c



Hose Type	I.D.	O.D.	Wall Thickness	Wall Diff Max	Working pressure	Burst pressure
Dash	mm	mm	mm	Bar	MPa	Mini mpa
1	5.0±0.2	14.0±0.2	4.50	0.3	1.4	>12
2	6.0±0.2	15.0±0.4	4.50	0.3	1.4	>12
3	8.0±0.2	15.0±0.3	3.50	0.3	1.4	>12
4	10.0±0.4	17.0±0.4	3.75	0.3	1.4	>12
5	13.0±0.4	23.0±0.4	3.50	0.4	1.4	>12
6	16.0±0.5	24.0±0.5	4.00	0.4	1.4	>12

VACUUM BRAKE HOSE

Ozone-resistant EPDM cover

Textile reinforcement

Meets SAE 1403 Type L and complies with DOT FMVSS 106VL

Temperature Range: -40 Deg. F to +257 Deg. F (-40 Deg. C to +125 Deg. C)



Hose Type	I.D.	O.D.	Wall Thickness	Wall Diff Max	Vacuum Degree	Burst pressure
Dash	mm	mm	mm	Bar	Max Mpa	Mini mpa
1	8.0±0.2	14.0±0.4	3.00	0.3	>66.7	>2.4
2	9.0±0.2	17.0±0.4	4.00	0.3	>66.7	>2.4
3	10.0±0.2	17.0±0.3	3.50	0.3	>66.7	>2.4
4	11.0±0.4	19.0±0.4	4.00	0.3	>66.7	>2.4
5	12.0±0.4	19.0±0.4	3.50	0.3	>66.7	>2.4
6	16.0±0.5	24.0±0.5	4.00	0.4	>66.7	>2.4

POWER STEERING HOSE



Tube: Oil resistance synthetic rubber (CSM)

Reinforcement:high tensile fiber braided,high tensile fiber wire braided

Cover: Synthetic rubber with excellent aging resistance and weather ability(CPE/CSM)

Surface treatment:Smooth surface and cloth wrapped.

Temperature: -40℃ (-40 ℉)to +250℃ (+250 ℉)

Hose Type	Diamension		O.D.	Wall Thickness	Wall Diff Max mm.	Working Pressure	Bursting Pressure
Dash	mm	Inch	mm	mm	mm	mpa	mpa
1	9.8±0.3	3/8"	19.8±0.5	5.0	0.4	10.3	58
2	9.8±0.3	3/8"	18.2±0.5	4.2	0.4	10.3	55

AIR CONDITION HOSE R134a TYPE C 5 LAYERS

Tube: CSM/EPDM Barrier: Nylon alloy **Buffer:**EPDM/NBR Reinforcement: PVA **Cover:** EPDM

Application temperature: -40°C ~ +135°C **Length:** 50m or as requested

Certificate: ISO/TS 16949:2009 **Refrigerant applied:** R12,R134a

Features: Pulse resistance, aging resistance, ozone resistance, shock resistance, and low permeability.

Application: Air Conditioning Hose is widely used in the air conditioning system of vehicles, cars, and domestic air conditioning



Hose Type	Diamension		I.D.	O.D.	Wall Thicknes	Wall Diff Max mm.	Working Pressure	Bursting Pressure	Bend Radius	Weigh	Premeability
Dash	mm	Inch	mm	mm	mm	mm	mpa	mpa	mm	g/m	Kg/㎡
C8.0	8.0	5/16"	8.0±0.4	15.2±0.5	3.6	0.4	3.5	23.0	55	146	1.6
C10.0	10.0	13/32"	10.2±0.3	17.2±0.4	3.5	0.4	3.5	22.0	65	178	1.6
C11.5	11.4	13/32"	11.4±0.4	18.4±0.5	3.5	0.4	3.5	22.0	70	196	1.6
C13.0	13.0	1/2"	13.2±0.4	21.0±0.5	4.0	0.4	3.5	20.0	75	231	1.6
C15.2	15.2	5/8"	15.2±0.4	23.0±0.5	3.9	0.4	3.5	21.0	85	257	1.6
CH8.0	8.2	5/16"	8.2±0.4	19.0±0.5	5.4	0.4	3.5	21.0	70	285	1.6
CH10.5	10.5	13/32"	10.5±0.4	23.0±0.5	6.3	0.4	3.5	21.0	85	393	1.6
CH13a	13.0	1/2"	13.0±0.4	25.4±0.5	6.2	0.4	3.5	22.0	85	332	1.6
CH13b	13.0	1/2"	13.0±0.4	23.0±0.5	5.0	0.4	3.5	22.0	95	441	1.6
CH16	16.1	5/8"	16.1±0.4	28.6±0.5	6.3	0.4	3.5	18.0	105	470	1.6
C19	19.0	3/4"	19.0±0.5	28.5±0.6	4.8	0.4	1.5	18.0	105	428	1.6
C22	22.2	7/8"	22.2±0.5	33.3±0.7	5.6	0.5	1.5	16.0	125	671	1.6
C28.5	28.5	9/8"	28.7±0.5	39.7±0.8	5.5	0.5	1.5	12.0	150	831	1.6

AIR CONDITION HOSE R134a TYPE E 4 LAYERS

Barrier: Nylon alloy Buffer:EPDM/NBR **Reinforcement:** PVC Cover: EPDM

Application temperature: -40°C ~ +135°C **Certificate:** ISO/TS 16949:2009



Refrigerant applied: R12, R134a, R404a

Features: Pulse resistance, aging resistance, ozone resistance, shock resistance, and low permeability.

Application: Air Conditioning Hose is widely used in the air conditioning system of vehicles, cars, and domestic air conditioning.

Hose Type	Diamension		I.D.	O.D.	Wall Thickne	Wall Diff Max mm.	Working Pressure	Bursting Pressure	Bend Radius	Weigh	Premeab il ity
Dash	mm	Inch	mm	mm	mm	mm	mpa	mpa	mm	g/m	Kg/㎡
BH8.0	8.2	5/16"	8.2±0.4	18.7±0.5	5.3	0.4	3.5	20.0	55	261	1.6
BH10.5	10.5	13/32"	10.5±0.4	22.5±0.5	6.0	0.4	3.5	23.0	85	411	1.6
BH13	13.0	1/2"	13.0±0.4	23.0±0.5	5.0	0.4	3.5	22.0	90	485	1.6
BH16	16.0	5/8"	16.0±0.5	28.0±0.6	6.0	0.4	3.5	21.0	105	558	1.6
A8.0	8.2	5/16"	8.0±0.3	15.2±0.4	3.5	0.4	3.5	23.0	55	155	1.6
A10.0	10.0	13/32"	10.2±0.3	17.2±0.4	3.5	0.4	3.5	22.0	65	178	1.6
A10.5	10.5	13/32"	10.5±0.3	18.7±0.4	4.1	0.4	3.5	22.0	75	195	1.6
A11.5	11.5	13/32"	11.5±0.3	18.5±0.4	3.5	0.4	3.5	23.0	75	201	1.6
A13	13.0	1/2"	13.0±0.3	20.6±0.4	3.8	0.4	3.5	22.0	75	241	1.6
A13.2	13.2	1/2"	13.2±0.3	20.8±0.4	3.8	0.4	3.5	22.0	75	241	1.6
A15.2	15.2	5/8"	15.5±0.4	22.8±0.4	3.8	0.4	3.5	20.0	85	271	1.6
A15.5	15.5	5/8"	15.3±0.4	22.8±0.5	4.0	0.4	3.5	20.0	90	284	1.6
A19	19.0	3/4"	19.5±0.5	28.5±0.6	4.8	0.4	1.5	18.0	105	428	1.6
A22	22.2	7/8"	22.2±0.5	33.3±0.7	5.6	0.5	1.5	16.0	125	671	1.6
A28.5	28.5	9/8"	28.7±0.6	39.7±0.8	5.5	0.5	1.5	12.0	150	831	1.6