

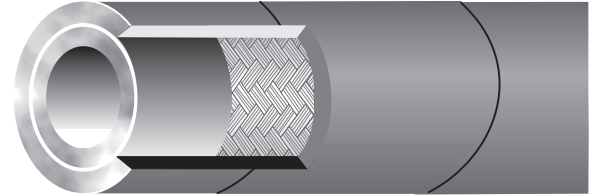
Wire Braid Hydraulic Hose



SAE 100R1 Type A NRP 1-Wire Braid

SPECIFICATIONS

Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
A001-03	3/16	.50	3,000	12,000	3.5	.14
A001-04	1/4	.62	2,750	11,000	4.0	.21
A001-05	5/16	.69	2,500	10,000	4.5	.23
A001-06	3/8	.78	2,250	9,000	5.0	.28
A001-08	1/2	.90	2,000	8,000	7.0	.35
A001-10	5/8	1.03	1,500	6,000	8.0	.42
A001-12	3/4	1.18	1,250	5,000	9.5	.50
A001-16	1	1.49	1,000	4,000	12.0	.73
1001-20	1-1/4	1.80	625	2,500	16.5	1.03
1001-24	1-1/2	2.06	500	2,000	20.0	1.18
1001-32	2	2.63	375	1,500	25.0	1.65



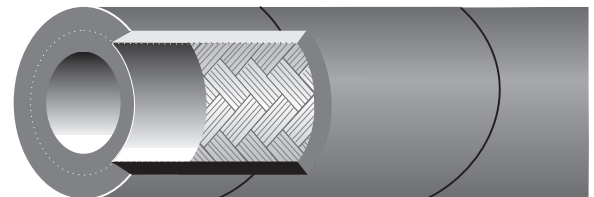
Recommended for: Medium pressure hydraulic oil lines.
Meets or exceeds requirements of SAE 100R1 Type A.

Tube: Black, oil resistant, Nitrile (NBR).
Reinforcement: One braid of higher tensile steel wire.
Cover: Black, oil and abrasion resistant Neoprene (CR).
MSHA accepted.
Temperature range: -40°F to +250°F.

SAE 100R1 Type AT NRP 1-Wire Braid Non-Skive

SPECIFICATIONS

Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
A101-03	3/16	.47	3,000	12,000	3.5	.13
A101-04	1/4	.53	2,750	11,000	4.0	.16
A101-05	5/16	.59	2,500	10,000	4.5	.17
A101-06	3/8	.68	2,250	9,000	5.0	.22
A101-08	1/2	.80	2,000	8,000	7.0	.28
A101-10	5/8	.93	1,500	6,000	8.0	.34
A101-12	3/4	1.09	1,250	5,000	9.5	.41
A101-16	1	1.41	1,000	4,000	12.0	.63
1101-20	1-1/4	1.72	625	2,500	16.5	.91
1101-24	1-1/2	2.00	500	2,000	20.0	1.07
1101-32	2	2.54	375	1,500	25.0	1.44



Recommended for: Medium pressure hydraulic oil lines.
Meets or exceeds requirements of SAE 100R1 Type AT.

Tube: Black, oil resistant, Nitrile (NBR).
Reinforcement: One braid of higher tensile steel wire.
Cover: Black, oil and abrasion resistant Neoprene (CR).
MSHA accepted.
Temperature range: -40°F to +250°F.

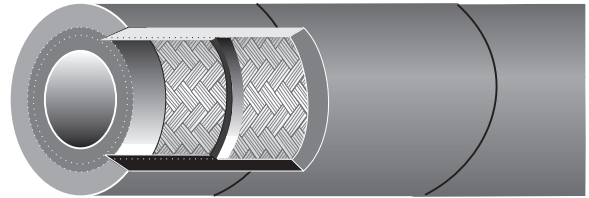


Wire Braid Hydraulic Hose

SAE 100R2A NRP 2-Wire Braid

SPECIFICATIONS

Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
A002-03	3/16	.61	5,000	20,000	3.5	.25
A002-04	1/4	.69	5,000	20,000	4.0	.31
A002-05	5/16	.74	4,250	17,000	4.5	.32
A002-06	3/8	.84	4,000	16,000	5.0	.39
A002-08	1/2	.95	3,500	14,000	7.0	.47
A002-10	5/8	1.09	2,750	11,000	8.0	.58
A002-12	3/4	1.26	2,250	9,000	9.5	.67
A002-16	1	1.55	2,000	8,000	12.0	.99
1002-20	1-1/4	2.00	1,625	6,500	16.5	1.65
1002-24	1-1/2	2.25	1,250	5,000	20.0	1.90
1002-32	2	2.75	1,125	4,500	25.0	2.34



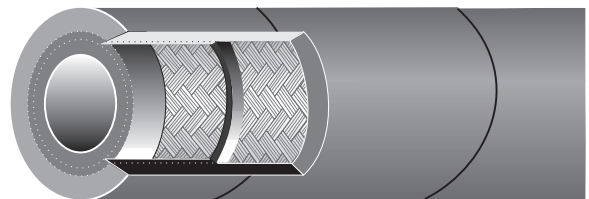
Recommended for: High pressure hydraulic oil lines.
Meets or exceeds requirements of SAE 100R2A.

Tube: Black, oil resistant, Nitrile (NBR).
Reinforcement: Two braids of high tensile steel wire.
Cover: Black, oil and abrasion resistant Neoprene (CR).
MSHA accepted.
Temperature range: -40°F to +250°F.

SAE 100R2 Type AT NRP 2-Wire Braid Non-Skive

SPECIFICATIONS

Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
A102-03	3/16	.53	5,000	20,000	3.5	.20
A102-04	1/4	.59	5,000	20,000	4.0	.25
A102-05	5/16	.65	4,250	17,000	4.5	.27
A102-06	3/8	.75	4,000	16,000	5.0	.32
A102-08	1/2	.86	3,500	14,000	7.0	.40
A102-10	5/8	1.00	2,750	11,000	8.0	.49
A102-12	3/4	1.16	2,250	9,000	9.5	.57
A102-16	1	1.49	2,000	8,000	12.0	.90
1102-20	1-1/4	1.90	1,625	6,500	16.5	1.47
1102-24	1-1/2	2.15	1,250	5,000	25.0	1.70
1102-32	2	2.66	1,125	4,500	25.0	2.34



Recommended for: High pressure hydraulic oil lines.
Meets or exceeds requirements of SAE 100R2 Type AT.

Tube: Black, oil resistant, Nitrile (NBR).
Reinforcement: Two braids of high tensile steel wire.
Cover: Black, oil and abrasion resistant, Neoprene (CR). MSHA accepted.
Temperature range: -40°F to +250°F.

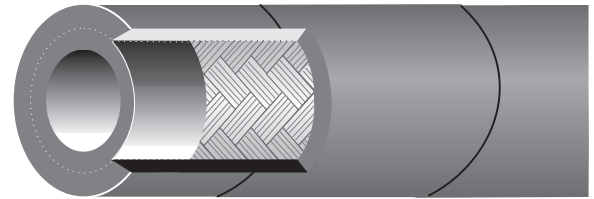
Wire Braid Hydraulic Hose



Hydra-Lite I SAE 100R17 NRP 1-Wire Braid Non-Skive

SPECIFICATIONS

Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
A151-04	1/4	.53	4,000	16,000	2.0	.16
A151-06	3/8	.68	3,000	12,000	2.5	.23
A151-08	1/2	.80	3,000	11,000	3.5	.28
A151-10	5/8	1.00	3,000	12,000	6.5	.49
A151-12	3/4	1.16	3,000	12,000	7.5	.57
A151-16	1	1.49	3,000	12,000	9.5	.90

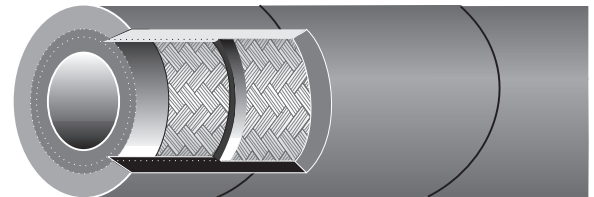


Recommended for: Medium pressure hydraulic applications. Meets or exceeds SAE 100R17 performance specifications.
Reinforcement: One wire high tensile steel braid in sizes 1/4 thru 1/2 and two wire high tensile steel braid in sizes 5/8 thru 1.
Cover: Black, oil and abrasion resistant Neoprene (CR). MSHA approved.
Temperature range: -40°F to 250°F.

Hydra-Lite II SAE 100R16 NRP 2-Wire Braid Non-Skive

SPECIFICATIONS

Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
A150-04	1/4	.57	5,500	22,000	2.0	.24
A150-06	3/8	.72	4,500	18,000	2.5	.30
A150-08	1/2	.84	4,000	16,000	3.5	.39
A150-10	5/8	.98	3,250	13,000	4.0	.47
A150-12	3/4	1.10	2,500	10,000	4.5	.55
A150-16	1	1.41	2,250	9,000	6.0	.82

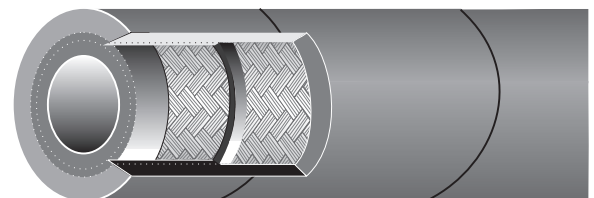


Recommended for: Medium pressure hydraulic applications. Meets or exceeds SAE 100R16 performance specifications.
Tube: Black, oil resistant, Nitrile (NBR).
Reinforcement: Two wire braid of high tensile steel.
Cover: Black, oil and abrasion resistant Neoprene (CR). MSHA approved.
Temperature range: -40°F to 250°F.

Hydra-Max DIN 20022-2SN NRP 2-Wire Braid Non-Skive

SPECIFICATIONS

Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Design Burst (psi)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
A750-04	1/4	.59	5,500	22,000	3.0	.25
A750-06	3/8	.75	5,000	20,000	4.0	.32
A750-08	1/2	.86	5,000	20,000	5.5	.40
A750-10	5/8	1.00	3,500	14,000	6.5	.49
A750-12	3/4	1.16	3,000	12,000	7.5	.57
A750-16	1	1.49	2,750	11,000	10.0	.90
1750-20	1-1/4	1.90	1,800	7,200	16.5	1.47
1750-24	1-1/2	2.15	1,300	5,200	20.0	1.70
1750-32	2	2.66	1,160	4,640	25.0	2.34

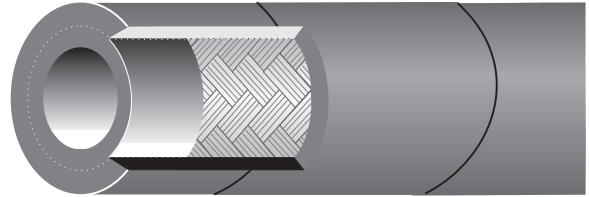


Recommended for: High pressure hydraulic applications. Meets or exceeds DIN 20022-2SN performance specifications.
Tube: Black, oil resistant, Nitrile (NBR).
Reinforcement: Two wire braid of high tensile steel.
Cover: Black, oil and abrasion resistant Neoprene (CR). MSHA approved.
Temperature range: -40°F to 250°F.



Wire Braid Hydraulic Hose

Mil-H-13531 Type I Class A SPECIFICATIONS



Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
A012-03	3/16	.50	3,000	12,000	3.5	.14
A012-04	1/4	.62	2,750	11,000	4.0	.21
A012-05	5/16	.69	2,500	10,000	4.5	.23
A012-06	3/8	.78	2,250	9,000	5.0	.28
A012-08	1/2	.90	2,000	8,000	7.0	.35
A012-10	5/8	1.03	1,500	6,000	8.0	.42
A012-12	3/4	1.18	1,250	5,000	9.5	.50
A012-16	1	1.49	1,000	4,000	12.0	.73
A012-20	1-1/4	1.80	625	2,500	16.5	1.03
A012-24	1-1/2	2.06	500	2,000	20.0	1.18
A012-32	2	2.63	375	1,500	25.0	1.65

Recommended for: Applications which meet or exceed SAE 100R1 Type A. Medium pressure hydraulic oil lines.

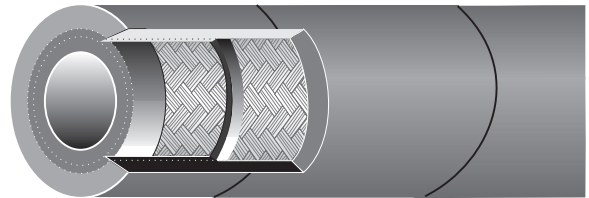
Tube: Black, oil resistant, Nitrile (NBR).

Reinforcement: One wire braid of high tensile steel.

Cover: Black, oil and abrasion resistant Neoprene (CR). MSHA approved.

Temperature range: -65°F to 250°F.

Mil-H-13531 Type II Class A SPECIFICATIONS



Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
A013-03	3/16	.61	5,000	20,000	3.5	.25
A013-04	1/4	.69	5,000	20,000	4.0	.31
A013-05	5/16	.74	4,250	17,000	4.5	.32
A013-06	3/8	.84	4,000	16,000	5.0	.39
A013-08	1/2	.95	3,500	14,000	7.0	.47
A013-10	5/8	1.09	2,750	11,000	8.0	.58
A013-12	3/4	1.26	2,250	9,000	9.5	.67
A013-16	1	1.55	2,000	8,000	12.0	.99
I013-20	1-1/4	2.00	1,625	6,500	16.5	1.65
I013-24	1-1/2	2.25	1,250	5,000	20.0	1.90
I013-32	2	2.75	1,125	4,500	25.0	2.34

Recommended for: Applications which meet or exceed SAE 100R2 Type A. Medium pressure hydraulic oil lines.

Tube: Black, oil resistant, Nitrile (NBR).

Reinforcement: Two wire braid of high tensile steel.

Cover: Black, oil and abrasion resistant Neoprene (CR). MSHA approved.

Temperature range: -65°F to 250°F.

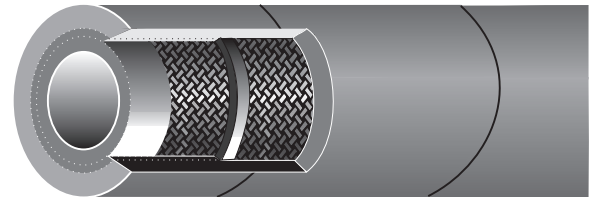
Textile Braid Hydraulic Hose



SAE 100R3 NRP 2-Textile Braid

SPECIFICATIONS

Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
B003-03	3/16	.50	1,500	6,000	3	.10
B003-04	1/4	.56	1,250	5,000	3	.12
B003-06	3/8	.75	1,125	4,500	4	.18
B003-08	1/2	.94	1,000	4,000	5	.29
B003-12	3/4	1.25	750	3,000	6	.45
B003-16	1	1.50	565	2,250	8	.57
2003-20	1-1/4	1.75	375	1,500	10	.65



Recommended for: Petroleum and water based hydraulic fluids, anti-freeze and water. Meets or exceeds requirements of SAE 100R3.

Tube: Black, oil resistant, Nitrile (NBR).

Reinforcement: Two textile braids, pre-treated for tube and cover adhesion.

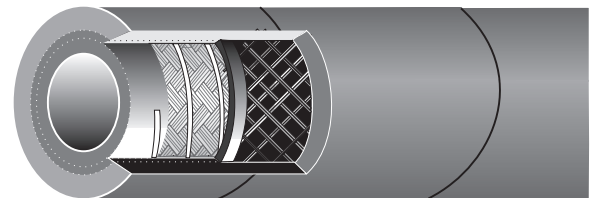
Cover: Black, oil and abrasion resistant Neoprene (CR). MSHA accepted

Temperature range: -40°F to +200°F.

SAE 100R4 NRP Suction & Return

SPECIFICATIONS

Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Rated Suction (in./hg.)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
2004-12	3/4	1.24	300	1,200	25	5.0	.42
2004-16	1	1.53	250	1,000	25	6.0	.57
2004-20	1-1/4	1.78	200	800	25	8.0	.67
2004-24	1-1/2	2.07	150	600	25	10.0	.84
2004-32	2	2.54	100	400	25	12.0	1.03
2004-40	2-1/2	3.12	62	250	25	14.0	1.70
2004-48	3	3.62	56	225	25	18.0	1.98
2004-56	3-1/2	4.14	45	180	25	21.0	2.34
2004-64	4	4.70	35	140	25	24.0	3.03



Recommended for: Petroleum and water based hydraulic fluids, in low pressure and vacuum service. Especially recommended for return lines in hydraulic control systems. Meets or exceeds requirements of SAE 100R4.

Tube: Black, oil resistant, Nitrile (NBR).

Reinforcement: Two textile braids, pre-treated for tube and cover adhesion. Helix wires are located between the braids to resist collapse under vacuum or bending.

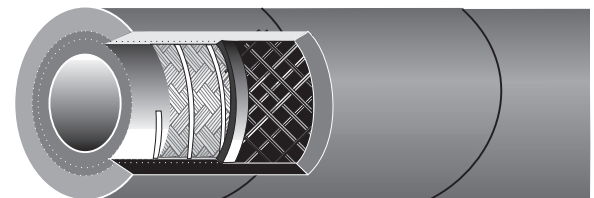
Cover: Black, oil and weather resistant Neoprene (CR). MSHA accepted

Temperature range: -40°F to +200°F.

SUPERFLEX No. 2014 NRP Suction & Return

SPECIFICATIONS

Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Rated Suction (in./hg.)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
2014-12	3/4	1.20	300	1,200	25	2.5	.40
2014-16	1	1.49	250	1,000	25	3.0	.54
2014-20	1 1/4	1.78	200	800	25	4.0	.66
2014-24	1 1/2	2.06	150	600	25	5.0	.87
2014-32	2	2.54	100	400	25	6.0	1.36
2014-40	2 1/2	3.02	62	250	25	7.0	1.72



Recommended for: Petroleum and water based hydraulic fluids, in low pressure and return line service. Minimum bend radius one half the bend radius of SAE 100R4

Tube: Black, oil resistant, Nitrile (NBR).

Reinforcement: Two textile braids, pre-treated for tube and cover adhesion. Helix wires are located between the braids to resist collapse under vacuum or bending.

Cover: Black, oil and weather resistant Neoprene (CR). MSHA accepted

Temperature range: -40°F to +212°F.

Branding: Green mylar "NRP Superflex Return Line"

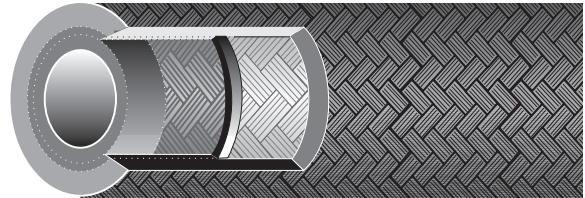


Wire-Textile Braid Hydraulic Hose

SAE 100R5 NRP 1-Wire Braid Textile Cover

SPECIFICATIONS

Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
A005-04	3/16	.52	3,000	12,000	3.00	.16
A005-05	1/4	.58	3,000	12,000	3.38	.18
A005-06	5/16	.67	2,250	9,000	4.00	.23
A005-08	13/32	.77	2,000	8,000	4.62	.27
A005-10	1/2	.92	1,750	7,000	5.50	.36
A005-12	5/8	1.08	1,500	6,000	6.50	.44
1005-16	7/8	1.23	800	3,200	7.38	.45
1005-20	1-1/8	1.50	625	2,500	9.00	.56
1005-24	1-3/8	1.75	500	2,000	10.50	.64
1005-32	1-13/16	2.22	350	1,400	13.25	.83
1005-40	2 3/8	2.88	350	1,400	24.00	1.30



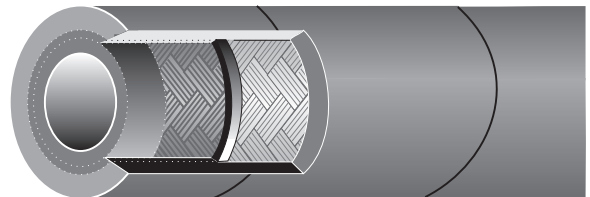
Recommended for: Medium pressure hydraulic applications using petroleum base hydraulic fluids. Also for gasoline, oil, water, air and truck air brake applications. Meets and exceeds the requirements of SAE 100R5 and SAE J1402 type AII for hydraulic service in all sizes. Meets and exceeds the requirements of DOT FMVSS 106 type AII for truck air brake applications in sizes 3/16" thru 5/8". Also is approved by AAMVA for air brake service.

Tube: Black, oil resistant, high temperature Nitrile (NBR).
Reinforcement: One high tensile steel wire braid over one polyester braid. Friction layers under and over wire braid improve tube and cover adhesion.
Cover: Oil resistant polyester braid impregnated with Neoprene (CR).
Temperature range: -40°F to +275°F.; +300°F intermittent.

NRP 100R5 1-Wire Braid Rubber Cover

SPECIFICATIONS

Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
A055-04	3/16	.52	3,000	12,000	3.00	.16
A055-05	1/4	.58	3,000	12,000	3.38	.19
A055-06	5/16	.67	2,250	9,000	4.00	.24
A055-08	13/32	.77	2,000	8,000	4.62	.27
A055-10	1/2	.92	1,750	7,000	5.50	.37
A055-12	5/8	1.08	1,500	6,000	6.50	.45
1055-16	7/8	1.23	800	3,200	7.38	.46
1055-20	1-1/8	1.50	625	2,500	9.00	.57
1055-24	1-3/8	1.75	500	2,000	10.50	.65
1055-32	1-13/16	2.22	350	1,400	13.25	.90
1055-40	2-3/8	2.87	350	1,400	24.00	1.36



Recommended for: Medium pressure hydraulic oil lines. gasoline, air, or water. Dimensions and working pressures same as SAE 100R5.

Tube: Black, oil resistant, Nitrile (NBR).
Reinforcement: One high tensile steel wire braid over one textile braid. Friction layers under and over wire braid improve tube and cover adhesion.
Cover: One textile braid covered with oil resistant Neoprene (CR). MSHA accepted.
Temperature range: -40°F to +200°F.

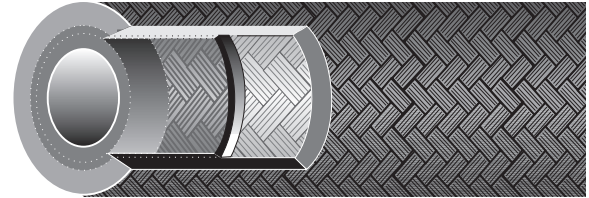
Wire-Textile Braid Hydraulic Hose



ALL TEMP 1-Wire Braid Textile Cover

SPECIFICATIONS

Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
A803-04	3/16	.52	3,000	12,000	3.00	.16
A803-05	1/4	.58	3,000	12,000	3.38	.18
A803-06	5/16	.67	2,250	9,000	4.00	.23
A803-08	13/32	.77	2,000	8,000	4.62	.27
A803-10	1/2	.92	1,750	7,000	5.50	.36
A803-12	5/8	1.08	1,500	6,000	6.50	.44
1803-16	7/8	1.23	800	3,200	7.38	.45
1803-20	1-1/8	1.50	625	2,500	9.00	.56
1803-24	1-3/8	1.75	500	2,000	10.50	.64
1803-32	1-13/16	2.22	350	1,400	13.25	.90
1803-40	2-3/8	2.87	350	1,400	24.00	1.36



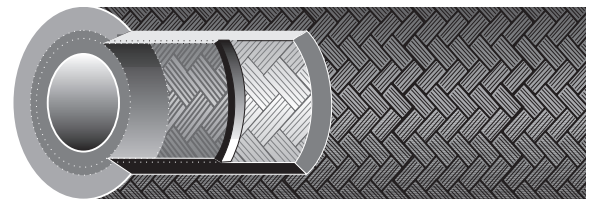
Recommended for: High temperature medium pressure hydraulic applications using petroleum base hydraulic fluids. Also for gasoline, oil, water and air. Dimensions and working pressures the same as SAE 100R5

Tube: Black, oil resistant, high temperature Nitrile (NBR).
Reinforcement: One high tensile steel wire braid over one polyester braid. Friction layers under and over wire braid improve tube and cover adhesion.
Cover: Blue, oil resistant polyester braid impregnated with Neoprene (CR).
Temperature range: -65°F to +250°F; +300°F intermittent.

HIGH TEMP 1-Wire Braid Textile Cover

SPECIFICATIONS

Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
A811-04	3/16	.52	3,000	12,000	3.00	.16
A811-05	1/4	.58	3,000	12,000	3.38	.19
A811-06	5/16	.67	2,250	9,000	4.00	.24
A811-08	13/32	.77	2,000	8,000	4.62	.27
A811-10	1/2	.92	1,750	7,000	5.50	.37
A811-12	5/8	1.08	1,500	6,000	6.50	.45
1811-16	7/8	1.23	800	3,200	7.38	.46
1811-20	1-1/8	1.50	625	2,500	9.00	.57
1811-24	1-3/8	1.75	500	2,000	10.50	.65
1811-32	1-13/16	2.22	350	1,400	13.25	.90
1811-40	2-3/8	2.87	350	1,400	24.00	1.36



Recommended for: High temperature medium pressure hydraulic applications using petroleum base or phosphate ester base hydraulic fluids. Also for diesel fuels and filtration lines, transmission coolant lines, hot oil, water and air. Dimensions and working pressures the same as SAE 100R5.

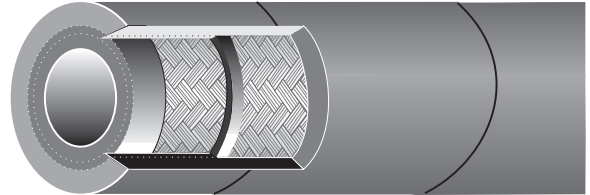
Tube: Black, oil and heat resistant, synthetic rubber (CPE).
Reinforcement: One high tensile steel wire braid over one polyester braid. Friction layers under and over wire braid improve tube and cover adhesion.
Cover: Blue, oil resistant polyester braid impregnated with Neoprene (CR).
Temperature range: -40°F to +300°F (petroleum based fluids); -40°F to +225°F (water/oil emulsions or water/glycol solutions); -40°F to +180°F (phosphate ester fluids).



Wire-Textile Braid Hydraulic Hose

HIGH TEMP II 2-Wire Braid Non-Skive SPECIFICATIONS

Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
A807-04	1/4	.53	5,000	20,000	4.00	.25
A807-06	3/8	.75	4,000	16,000	5.00	.32
A807-08	1/2	.86	3,500	14,000	7.00	.40
A807-12	3/4	1.16	2,250	9,000	9.50	.57
A807-16	1	1.49	2,000	8,000	12.00	.90
1807-20	1-1/4	1.90	1,625	6,500	16.50	1.47
1807-24	1-1/2	2.15	1,250	5,000	25.00	1.70
1807-32	2	2.66	1,125	4,500	25.00	2.34



Recommended for: High temperature medium pressure hydraulic applications using petroleum base or phosphate ester base hydraulic fluids. Also for diesel fuels and filtration lines, transmission coolant lines, hot oil, water and air. Dimensions and working pressures the same as SAE 100R2AT.

Tube: Black, oil and heat resistant, synthetic rubber (CPE).
Reinforcement: Two high tensile steel wire braids.
Cover: Blue, oil and abrasion resistant, Neoprene (CR).
Temperature range: -40°F to +300°F (petroleum based fluids); -40°F to +225°F (water/oil emulsions or water/glycol solutions); -40°F to +180°F (phosphate ester fluids).

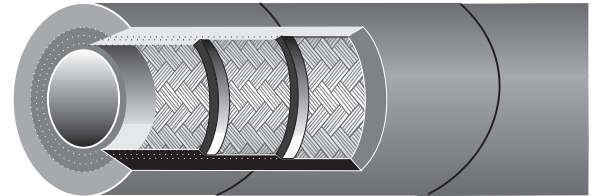
High Pressure Hydraulic Hose



3-Wire Braid NRP High Pressure

SPECIFICATIONS

Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
A003-04	1/4	.75	7,000	28,000	5	.42
A003-06	3/8	.91	5,500	22,000	6	.59
A003-08	1/2	1.10	5,000	20,000	8	.75
A003-12	3/4	1.32	4,000	16,000	11	1.02
1003-16	1	1.66	3,500	14,000	13	1.51
1003-20	1-1/4	2.06	3,000	12,000	17	1.96
1003-24	1-1/2	2.31	2,000	8,000	22	2.37
1003-32	2	2.75	2,000	8,000	28	2.80



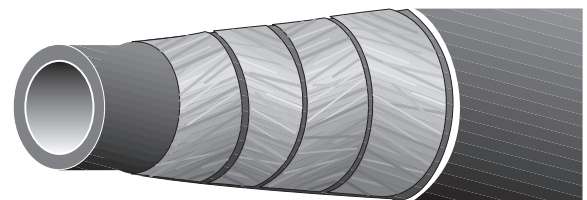
Recommended for: Extra high pressure hydraulic oil lines for heavy duty service applications.

Tube: Black, oil resistant, Nitrile (NBR).
Reinforcement: Three braids of high tensile steel wire.
Cover: Black, oil resistant and abrasion resistant, Neoprene (CR). MSHA accepted
Temperature range: -40°F to +250°F.

SAE 100R12 — High Impulse Jones "9-Lives" — 4-Spiral Gray Cover

SPECIFICATIONS

Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
1212-06	3/8	.797	4,000	16,000	5.0	.40
1212-08	1/2	.935	4,000	16,000	7.0	.54
1212-10	5/8	1.080	4,000	16,000	8.0	.74
1212-12	3/4	1.210	4,000	16,000	9.5	.94
1212-16	1	1.495	4,000	16,000	12.0	1.34
1212-20	1-1/4	1.850	3,000	12,000	16.5	1.74
1212-24	1-1/2	2.105	2,500	10,000	20.0	2.01
1212-32	2	2.626	2,500	10,000	25.0	2.75



Recommended for: High pressure hydraulic oil lines for heavy duty service applications with crude oils, fuel oils, lubricating oils and gasoline. Exceeds SAE 100R12.

Tube: Black, oil resistant, Neoprene (CR).
Reinforcement: Four plies of spirally-wrapped high tensile steel wire.
Cover: A synthetic rubber which is weather and temperature resistant. MSHA accepted.
Temperature range: -40°F to +250°F.
Lengths: Hose supplied in maximum 50' lengths with "MSHA" layline. 150' lengths available in sizes 12 and 16.

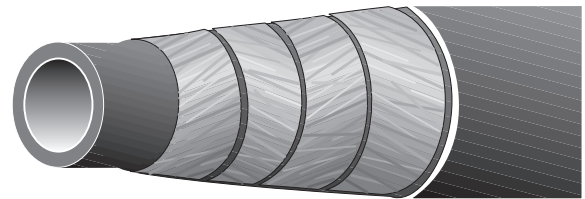


High Pressure Hydraulic Hose

SAE 100R12 — Jones 4-Spiral Black Cover

SPECIFICATIONS

Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
1312-06	3/8	.80	4,000	16,000	5.0	.44
1312-08	1/2	.94	4,000	16,000	7.0	.55
1312-10	5/8	1.08	4,000	16,000	8.0	.77
1312-12	3/4	1.21	4,000	16,000	9.5	.82
1312-16	1	1.50	4,000	16,000	12.0	1.28
1312-20	1-1/4	1.85	3,000	12,000	16.5	1.76
1312-24	1-1/2	2.10	2,500	10,000	20.0	2.18
1312-32	2	2.62	2,500	10,000	25.0	2.85



Recommended for: High pressure hydraulic oil lines for heavy duty service applications with crude oils, fuel oils, lubricating oils and gasoline. Meets or exceeds SAE 100R12.

Tube: Black, oil resistant, Neoprene (CR).

Reinforcement: Four plies of spirally-wrapped high tensile steel wire.

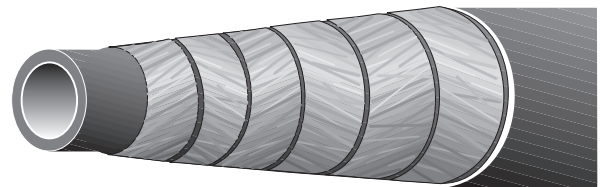
Cover: A synthetic rubber which is weather and temperature resistant. MSHA accepted.

Temperature range: -40°F to +250°F.

SAE 100R13 — Jones 4 & 6 Spiral Black Cover

SPECIFICATIONS

Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
1313-12	3/4	1.26	5,000	20,000	9.5	1.13
1313-16	1	1.52	5,000	20,000	12.0	1.35
1313-20	1-1/4	1.96	5,000	20,000	16.5	2.41
1313-24	1-1/2	2.26	5,000	20,000	20.0	3.21
1313-32	2	2.79	5,000	20,000	25.0	4.44



Recommended for: Extra high pressure hydraulic oil lines for heavy duty service applications with crude oils, fuel oils, lubricating oils and gasoline. Exceeds SAE 100R13.

Tube: Black, oil resistant, Neoprene (CR).

Reinforcement: Multiple plies of spirally-wrapped high tensile steel wire.

Cover: A synthetic rubber which is weather and temperature resistant. MSHA accepted.

Temperature range: -40°F to +250°F.

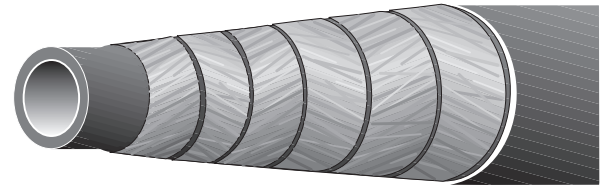
High Pressure Hydraulic Hose



SAE 100R13 — High Impulse Jones “9-Lives” — 4 & 6 Spiral Red Cover

SPECIFICATIONS

Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
1213-12	3/4	1.263	5,000	20,000	9.5	1.07
1213-16	1	1.524	5,000	20,000	12.0	1.48
1213-20	1-1/4	1.962	5,000	20,000	16.5	2.48
1213-24	1-1/2	2.256	5,000	20,000	20.0	3.22
1213-32	2	2.800	5,000	20,000	25.0	5.03



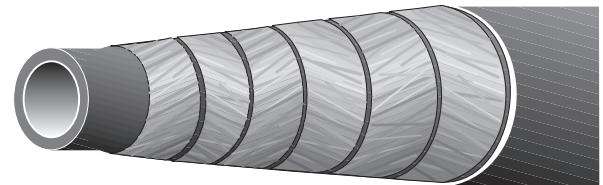
Recommended for: Extra high pressure hydraulic oil lines for heavy duty service applications with crude oils, fuel oils, lubricating oils and gasoline. Exceeds SAE 100R13.

Tube: Black, oil resistant, Neoprene (CR).
Reinforcement: Multiple plies of spirally-wrapped high tensile steel wire.
Cover: A synthetic rubber which is weather and temperature resistant. MSHA accepted.
Temperature range: -40°F to +250°F.
Lengths: Hose supplied in maximum 50' lengths with “MSHA” layline. 150' lengths available in sizes 12 and 16.

SAE 100R15 — Ultra-High Pressure Jones “9-Lives” — 6-Spiral Black Cover

SPECIFICATIONS

Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
1211-06	3/8	.888	6,000	24,000	6.0	.64
1211-08	1/2	1.024	6,000	24,000	8.0	.78
1211-12	3/4	1.378	6,000	24,000	10.5	1.55
1211-16	1	1.614	6,000	24,000	13.0	1.94
1211-20	1-1/4	1.969	6,000	24,000	17.5	2.68



Recommended for: Ultra-high pressure hydraulic oil lines for heavy duty service applications with crude oils, fuel oils, lubricating oils, and gasoline. Exceeds SAE 100R15.

Tube: Black, oil resistant, Neoprene (CR).
Reinforcement: 6 plies of spiral-wound high-tensile steel wire with elastomer cushion between wires to eliminate wire-to-wire contact.
Cover: Black synthetic rubber resistant to oil, weather and abrasion. MSHA accepted.
Temperature range: -40°F to +250°F.
Lengths: Hose supplied in maximum 50' lengths with “MSHA” layline.

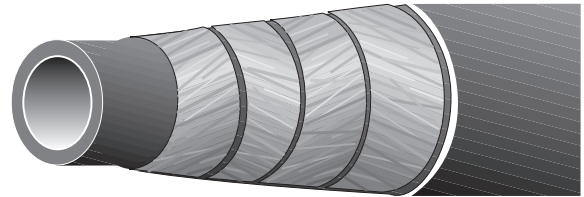


High Pressure Hydraulic Hose

DIN 20023 — High Pressure Jones “Spiral High Life” — 4-Spiral

SPECIFICATIONS

Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
1214-08SP	1/2	.97	6,000	24,100	9	.61
1214-12SP	3/4	1.27	5,000	20,000	12	1.02
1214-16SP	1	1.56	4,000	16,000	13.5	1.37
1215-20SH	1-1/4	1.79	4,700	18,800	18	1.71
1215-24SH	1-1/2	2.11	4,200	16,800	22	2.30
1215-32SH	2	2.68	3,650	14,600	27.5	3.31



Recommended for: Extremely high pressure hydraulic service with petroleum base fluids.

Tube: Oil resistant black synthetic rubber.

Reinforcement: Four plies of spirally-wrapped high tensile steel wire.

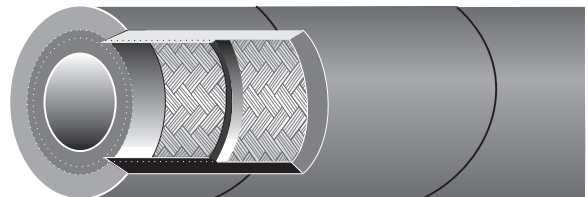
Cover: Synthetic black rubber which is oil, weather, ozone and abrasion resistant. MSHA accepted.

Temperature range: -40°F to +212°F constant operation.

NRP No. A320 — Power Jack Hose

SPECIFICATIONS

Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
A320-04	1/4	.59	10,000	20,000	4.0	.25
A320-06	3/8	.75	10,000	20,000	5.0	.32



Recommended for: Hydraulic Jack applications. Meets Material Handling Institute specification IJ100 for hydraulic hose and assemblies for jacking systems.

Tube: Black, oil resistant nitrile (NBR).

Reinforcement: Two braids of high tensile steel wire.

Cover: Black, neoprene, compounded to resist abrasion, oil and weather.

Temperature range: -40°F to 250°F.

High Pressure Hydraulic Hose



Non-Conductive — Twin-Line Hydraulic Tool Assemblies

SPECIFICATIONS

Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)	Wt. Per Ft. (lbs)
B098-06	3/8	3/4	2,250	9,000	5	.19



Tube: Oil resistant nitrile (NBR).

Reinforcement: Non-conductive textile braid.

Cover: Orange oil, abrasion and weather resistant NBR/PVC.

Temperature range: -40°F to +200°F.

Assembly length: Per customer specification.

Assembly features: Factory made and certified non-conductive to 75,000 volts. Coupled with NPT male fittings and include vinyl bend restrictors.

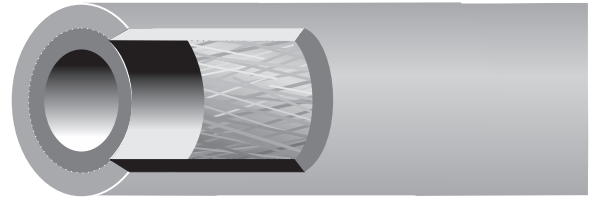


Push-On Hose

Push-On Hose Jones 2231

SPECIFICATIONS

Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Max O.P. (psi)	Wt. Per 100 Feet
2231-04	1/4	1/2	250	10
2231-06	3/8	5/8	250	13
2231-08	1/2	3/4	250	16
2231-10	5/8	29/32	250	23
2231-12	3/4	1-1/32	250	26



Recommended for: Air, water, oils, coolants, gasoline, etc.

Tube: Black, seamless oil resistant nitrile.

Reinforcement: One textile spiral.

Cover: Gray, oil and water resistant nitrile/PVC.

Temperature range: -40°F to +200°F.

MILITARY HOSE SPECIFICATIONS

Hose Specification	Description	Part Number
MIL-H-13531 TY I CL A	Low Temperature (-65°F) Hydraulic, One Braid	A012/1012
MIL-H-13531 TY II CL A	Low Temperature (-65°F) Hydraulic, Two Braid	A013/1013
MIL-H-17505 B	Oil Suction & Discharge	4218
MIL-H-2224OE TY A	Along Side Fueling Discharge	4140
MIL-H-2224OE TY B	Astern Fueling Discharge	4141
MIL-H-2224OE TY C	Along Side & Water Discharge	4142
MIL-H-3868C TY I GR A	Low Pressure Grease (-40°F)	A016/1016
MIL-H-3868C TY I GR B	Low Pressure Grease (-50°F)	A017/1017
MIL-H-3868C TY II GR A	High Pressure Grease (-40°F)	A018/1018
MIL-H-3868C TY II GR B	High Pressure Grease (-50°F)	A019/1019
MIL-H-370 TY I	Liquid Fuel Discharge	2081
MIL-H-370 TY II	Liquid Fuel Suction & Discharge	2073
MIL-H-4497	Fuel Suction & Discharge	2405
MIL-H-6615E TY I	Fuel & Water Electrical Bond	2095
MIL-H-6615E TY II	Fuel & Water Non-Electrical Bond	2444
ZZ-H-601 GR 3 CL II	Water Discharge	2442

Hose Accessories



ROUND SPRING GUARD



Rust resistant, zinc plated open wound spring guards prolong the life of the hose cover and reinforcement from abrasion, kinking and other damage incurred in severe working areas. Open wound spring guards are available for all types and sizes of hose.

Part Number	Spring I.D. (in.)	Length
-2 RSG	.550	20'
-3 RSG	.650	20'
-4 RSG	.750	20'
-5 RSG	.835	20'
-6 RSG	.900	20'
-7 RSG	.990	20'
-8 RSG	1.110	20'
-11 RSG	1.240	20'
-12 RSG	1.300	20'
-16 RSG	1.630	60'
-20 RSG	2.125	40'
-24 RSG	2.300	40'

FLAT SPRING GUARD



Rust resistant, black oxide finished flat armor spring guards protect heavy equipment hose assemblies from excessive wear due to cuts, abrasion, or accidental damage. Flat armor spring guards are available for all types and sizes of hose.

Part Number	Spring I.D. (in.)	Length
-4 FSG	.835	100'
-6 FSG	.990	100'
-8 FSG	1.055	100'
-10 FSG	1.110	100'
-12 FSG	1.240	100'
-14 FSG	1.380	60'
-16 FSG	1.630	60'
-20 FSG	2.125	40'
-24 FSG	2.300	40'

VINYL HOSE GUARDS - BEND RESTRICTOR FOR 1-WIRE BRAID HOSE

Part Number	Hose Size
HG-04	-4
HG-06	-6
HG-08	-8



CORDURA NYLON ABRASION GUARD

Part Number	Hose Size
F4	-4
F6	-6
F8	-8
F12	-12
F16	-16
F20	-20
F24	-24
F32	-32

