



PETRO KOOSHESH PARS

**QUALITY
HYDRAULIC
PRODUCTS**

QUALITY HYDRAULIC PRODUCTS



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Hydraulic Hose Selection Guide

Industry Specifications	Part No.	Page NumbersDash Construction	Size and Working Pressure													
			Hose	Fittings	-3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40
SAE 100R15	1211	6 Wire Spiral High Impulse P.T.F.E. 4 & 6 Wire Spiral High Impulse 4 & 6 Wire Spiral	14	84-85			6000	6000			6000	6000	6000	6000	6000	6000
SAE 100R14	6014		18	67-68			2610	2540	2030	1740	1270	870	630	5000	5000	5000
SAE 100R13	1213		14	75-83							5000	5000	5000	5000	5000	5000
SAE 100R13	1313		13	75-83							5000	5000	5000	5000	5000	5000
SAE 100R12	1212	4 Wire Spiral High Impulse 4 Wire Spiral	12	75-83			4000	4000	4000	4000	4000	4000	3000	2500	2500	
SAE 100R12	1312		13	75-83				4000	4000	4000	4000	4000	3000	2500	2500	
DIN 20022-2SN SAE 100R16 SAE 100R2 NRP SAE 100R3 NRP	A750	2 Wire Braid Hydra-Max 2 Wire Braid Hydra-Lite II 2 Wire Braid Non-Skive 3 Wire Braid 2 Textile Braid Power Jack	7	40-49		5500	5000	5000	3500	3000	2750	1800	1300	1160		
	A150		6	40-49		5800	4800	4000	3625	3100	2400					
	A102		5	40-49	6000	5800	4800	4000	3625	3100	2400	1825	1300	1160		
	A003		12	69-74		7000	5500	5000	3000	2000	3000	375	2000	2000		
	B003		8	40-49	1500	1125	1000									
	A320		15	24-35	10,000							750	565			
SAE 100R17	A151	1 Wire Braid Hydra-Lite I 1 Wire Braid Non-Skive 1 Wire Braid Textile Cover 1 Wire Braid Rubber Cover 1 Wire Braid Textile Cover 2 Wire Braid Non-Skive	6	40-49		3000	3000	3000	1500	3000	3000	625	500	375		
SAE 100R1	A101		5	40-49	3000	2750	2500	2000	2000	1750	1250	1000	500	350		
SAE 100R5	A005		9	40-49		3000	3000	2000	2000	1750	1500	800	500	350		
100R5	A055		10	40-49		3000	3000	2000	2000	1750	1500	800	500	350		
ALL TEMP	A803		10	40-49		3000	3000	2000	2000	1750	1500	800	500	350		
HIGH TEMP II	A807		11	40-49		5000		4000	3500		2250	2000	1625	1250	1125	
SAE 100R4 NRP	2004	Suction & Return Line Suction & Return Line	8	21-35						300	250	200	150	100	62	
	2014		9	21-35							300	250	200	150	100	62
—	2231	Spiral Push-On	19	88		250	250	250	250	250						
SAE 100R7	3107	Thermoplastic	17	50-59		2750	2250	2050								
	3307															
SAE 100R8	3108	Thermoplastic	17	50-59		5000	4300	4000	3500							
	3308															

Wire Braid

Hydraulic Hose

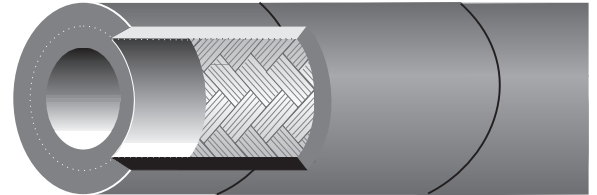
SAE 100R1 WearGuard 1-Wire Braid Non-Skive

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.

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.



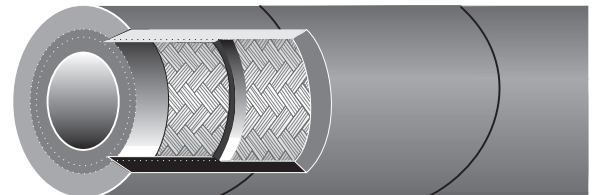
SAE 100R2 WearGuard 2-Wire Braid Non-Skive

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	6,000	24,000	3.5	.20
● A102-04	1/4	.59	5,800	23,200	4.0	.25
● A102-05	5/16	.65	5,050	20,200	4.5	.27
● A102-06	3/8	.75	4,800	19,200	5.0	.32
● A102-08	1/2	.86	4,000	16,000	7.0	.40
● A102-10	5/8	1.00	3,625	14,500	8.0	.49
● A102-12	3/4	1.16	3,100	12,400	9.5	.57
● A102-16	1	1.49	2,400	9,600	12.0	.90
● 1102-20	1-1/4	1.90	1,825	7,300	16.5	1.47
● 1102-24	1-1/2	2.15	1,300	5,200	25.0	1.70
● 1102-32	2	2.66	1,160	4,640	25.0	2.34

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

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.

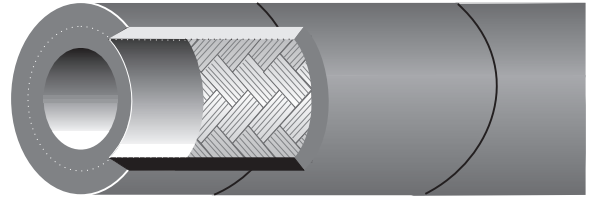


● Indicates change or new product.

Wire Braid Hydraulic Hose

SAE 100R17 WearGuard (Hydra-Lite I) 1 or 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)
A151-04	1/4	.53	3,000	12,000	2.00	.16
A151-06	3/8	.68	3,000	12,000	2.50	.23
A151-08	1/2	.80	3,000	12,000	3.50	.28
A151-10	5/8	1.00	3,000	12,000	4.00	.49
A151-12	3/4	1.16	3,000	12,000	4.75	.57
A151-16	1	1.49	3,000	12,000	6.00	.90



Recommended for: Applications which meet or exceed SAE 100R17. Medium pressure hydraulic oil lines.

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

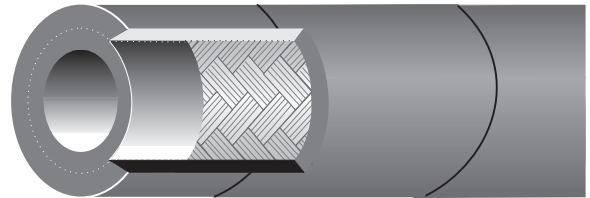
Reinforcement: One wire high tensile steel braid in sizes 1/4 thru 1/2 and two wire high tensile steel braid in sizes 5/8 thru 1.

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

Temperature range: -40°F to 250°F.

SAE 100R17 WearGuard Plus 1 or 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)
● A251-04	1/4	.53	3,000	12,000	2.00	.16
● A251-06	3/8	.68	3,000	12,000	2.50	.23
● A251-08	1/2	.80	3,000	12,000	3.50	.28
● A251-10	5/8	1.00	3,000	12,000	4.00	.49
● A251-12	3/4	1.16	3,000	12,000	4.75	.57
● A251-16	1	1.49	3,000	12,000	6.00	.90



Recommended for: Applications which meet or exceed SAE 100R17. Medium pressure hydraulic oil lines.

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

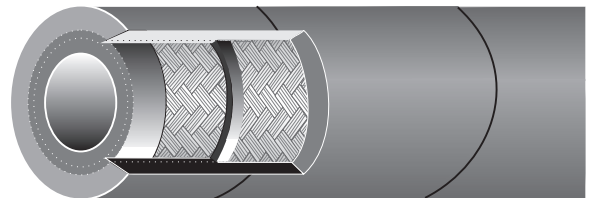
Reinforcement: One wire high tensile steel braid in sizes 1/4 thru 1/2 and two wire high tensile steel braid in sizes 5/8 thru 1.

Cover: Black, oil and **extreme abrasion resistant** Neoprene (CR).

Temperature range: -40°F to 250°F.

SAE 100R16 WearGuard (Hydra-Lite 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)
● A150-04	1/4	.57	5,800	23,200	2.00	.24
● A150-06	3/8	.72	4,800	19,200	2.50	.30
● A150-08	1/2	.84	4,000	16,000	3.50	.39
● A150-10	5/8	.98	3,625	14,500	4.00	.47
● A150-12	3/4	1.10	3,100	12,400	4.75	.55
● A150-16	1	1.41	2,400	9,600	6.00	.82



Recommended for: Applications which meet or exceed SAE 100R16. Medium pressure hydraulic oil lines.

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

Reinforcement: Two wire braid of high tensile steel.

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

Temperature range: -40°F to 250°F.

● Indicates change or new product.

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)
● A250-04	1/4	.57	5,800	23,200	2.00	.24
● A250-06	3/8	.72	4,800	19,200	2.50	.30
● A250-08	1/2	.84	4,000	16,000	3.50	.39
● A250-10	5/8	.98	3,625	14,500	4.00	.47
● A250-12	3/4	1.10	3,100	12,400	4.75	.55
● A250-16	1	1.41	2,400	9,600	6.00	.82

Recommended for: Applications which meet or exceed SAE 100R16. Medium pressure hydraulic oil lines.

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

Reinforcement: Two wire braid of high tensile steel.

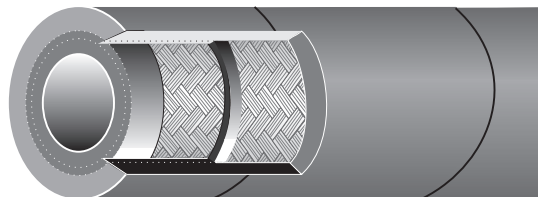
Cover: Black, oil and **extreme abrasion resistant** Neoprene (CR).

Temperature range: -40°F to 250°F.

DIN 20022-2SN Hydra-Max 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	4.00	.25
A750-06	3/8	.75	5,000	20,000	5.00	.32
A750-08	1/2	.86	5,000	20,000	7.00	.40
A750-10	5/8	1.00	3,500	14,000	8.00	.49
A750-12	3/4	1.16	3,000	12,000	9.50	.57
A750-16	1	1.49	2,750	11,000	12.00	.90
1750-20	1-1/4	1.90	1,800	7,200	16.50	1.47
1750-24	1-1/2	2.15	1,300	5,200	25.00	1.70
1750-32	2	2.68	1,160	4,640	25.00	2.34



Recommended for: High pressure hydraulic applications. Meets or exceeds DIN 20022-2SN performance specifications.

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

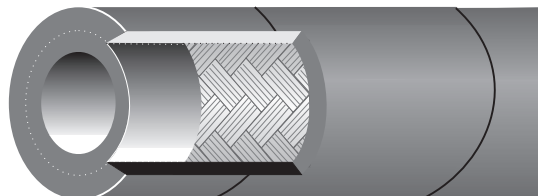
Reinforcement: Two wire braid of high tensile steel.

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

Temperature range: -40°F to 250°F.

Mil-H-13531 Type I Class A

SPECIFICATIONS

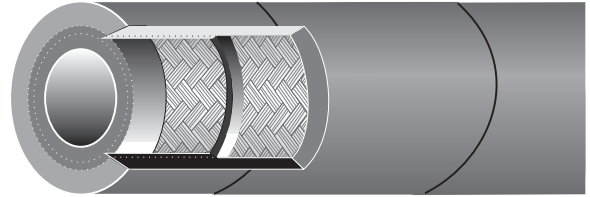


Min. Wt.

Wire-Textile Braid Hydraulic Hose

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).

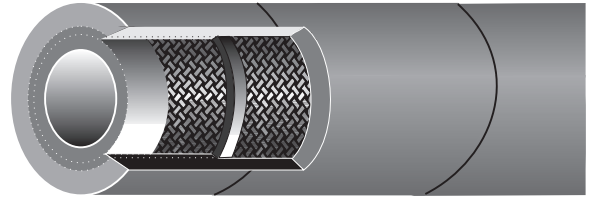
Reinforcement: Two wire braid of high tensile steel.

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

Temperature range: -65°F to 250°F.

SAE 100R3 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).

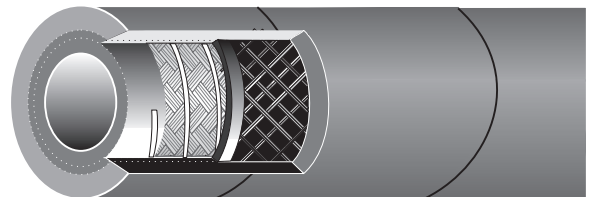
Reinforcement: Two textile braids, pre-treated for tube and cover adhesion.

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

Temperature range: -40°F to +200°F.

SAE 100R4 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.

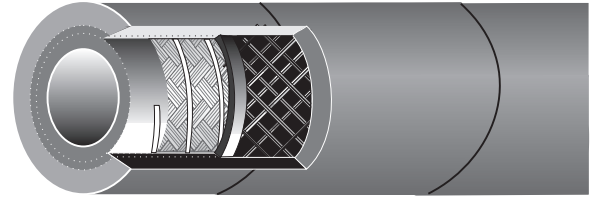
Cover: Black, oil and weather resistant Neoprene (CR).
MSHA accepted

Temperature range: -40°F to +200°F.

Wire-Textile Braid Hydraulic Hose

SUPERFLEX No. 2014 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.

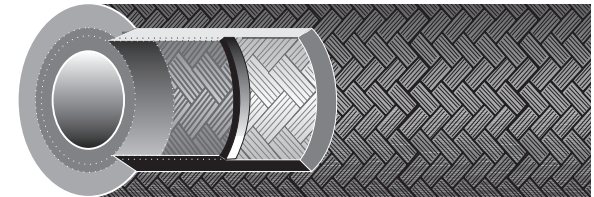
Cover: Black, oil and weather resistant Neoprene (CR). MSHA accepted

Temperature range: -40°F to +212°F.

Branding: Green mylar "Superflex Return Line"

SAE 100R5 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.

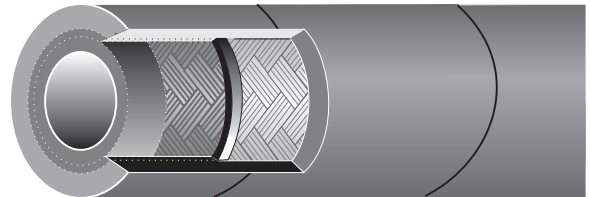
Wire-Textile Braid Hydraulic Hose

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.

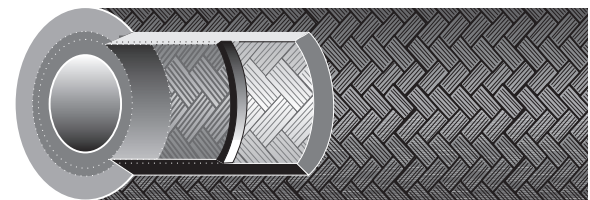
Temperature range: -40°F to +200°F.

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, diesel fuel, oil, water and air. Meets SAE 100R5 and SAE J1402 type A11 for hydraulic service in all sizes. Meets the requirements of DOT FMVSS 106 type A11 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: Blue, oil resistant polyester braid impregnated with Neoprene (CR).

Temperature range: -65°F to +300°F.

Wire-Textile Braid

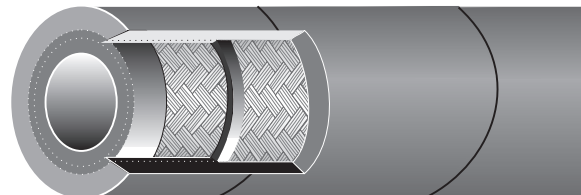
Hydraulic Hose

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	.59	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



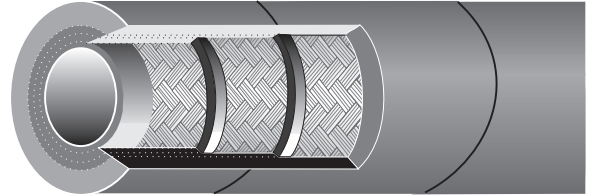
Recommended for: High temperature medium pressure hydraulic applications using petroleum base hydraulic fluids. Also for gasoline, diesel fuel, oil water and air. Dimensions and working pressures the same as SAE 100R2AT.

Tube: Black, oil and heat resistant, synthetic Nitrile (NBR).
Reinforcement: Two high tensile steel wire braids.
Cover: Blue, oil and abrasion resistant, Neoprene (CR).
Temperature range: -40°F to +300°F.

3-Wire Braid 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.

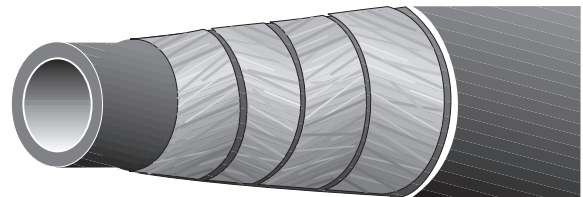
SAE 100R12 — FLEX PLUS 4 Spiral Jones 9-Lives SPECIFICATIONS

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	2.50	.40
1212-08	1/2	.935	4,000	16,000	3.50	.54
1212-10	5/8	1.080	4,000	16,000	4.00	.74
1212-12	3/4	1.210	4,000	16,000	4.75	.94
1212-16	1	1.495	4,000	16,000	6.00	1.34
1212-20	1-1/4	1.850	3,000	12,000	8.25	1.74
1212-24	1-1/2	2.105	2,500	10,000	10.00	2.01
1212-32	2	2.626	2,500	10,000	12.50	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 performance and half bend radius.

Premium Features:

1. Ultra high abrasion cover.
2. Half bend radius flexibility.
3. High impulse life.



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

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

Cover: Black ultra high abrasion hypalon compound which is weather and oil resistant. MSHA accepted. Yellow layline.

Temperature range: -40°F to +250°F.

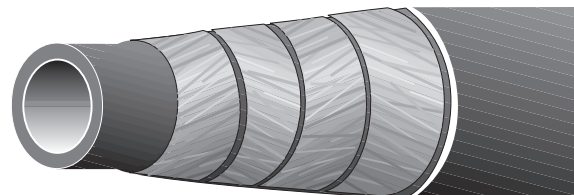
Lengths: Hose supplied in random lengths.

High Pressure Hydraulic Hose

SAE 100R12 — Jones 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)
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.

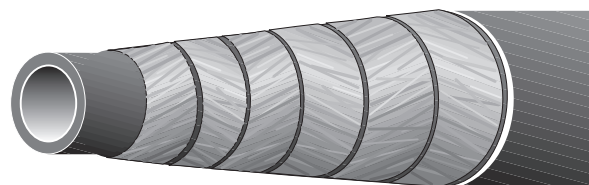
Cover: A synthetic rubber which is weather and temperature resistant. MSHA accepted.

Temperature range: -40°F to +250°F.

SAE 100R13 — Jones 4 & 6 Spiral 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).

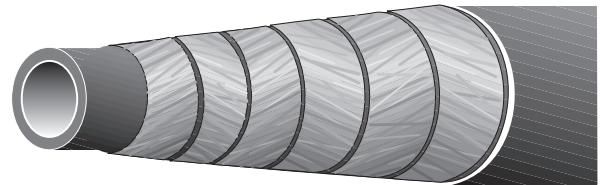
Reinforcement: Multiple plies of spirally-wrapped high tensile steel wire.

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

Temperature range: -40°F to +250°F.

SAE 100R13 — FLEX PLUS 4 & 6 Spiral Jones 9-Lives 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	4.75	1.07
1213-16	1	1.524	5,000	20,000	6.00	1.48
1213-20	1-1/4	1.962	5,000	20,000	8.25	2.48
1213-24	1-1/2	2.256	5,000	20,000	10.00	3.22
1213-32	2	2.800	5,000	20,000	12.50	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 performance and half bend radius.

Premium Features:

1. Ultra high abrasion cover.
2. Half bend radius flexibility.
3. High impulse life.

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

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

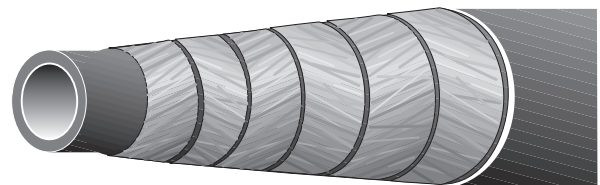
Cover: Black ultra high abrasion hypalon compound which is weather and oil resistant. MSHA accepted. Red layline.

Temperature range: -40°F to +250°F.

Lengths: Hose supplied in random lengths.

SAE 100R15 — FLEX PLUS 6 Spiral Jones 9-Lives 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	3.0	.64
1211-08	1/2	1.024	6,000	24,000	4.0	.78
1211-12	3/4	1.378	6,000	24,000	5.25	1.55
1211-16	1	1.614	6,000	24,000	6.50	1.94
1211-20	1-1/4	1.969	6,000	24,000	8.75	2.68
1211-24	1-1/2	2.290	6,000	24,000	10.5	3.61
1211-32	2		6,000	24,000	26.0	



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.

Premium Features:

1. Ultra high abrasion cover.
2. Half bend radius flexibility.
3. High impulse life.

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

Reinforcement: 4 or 6 plies of spiral-wound high-tensile steel wire with elastomer cushion between wires to eliminate wire-to-wire contact.

Cover: Black hypalon compound which is weather and oil resistant. MSHA accepted. White layline.

Temperature range: -40°F to +250°F.

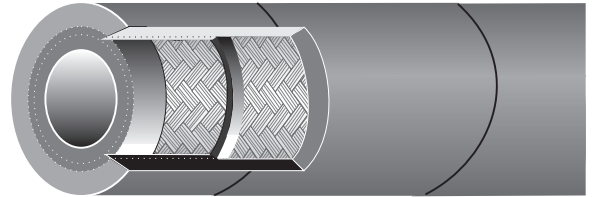
Lengths: Hose supplied in random lengths.

High Pressure Hydraulic Hose

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.

Non-Conductive 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.

Thermoplastic Hydraulic Hose

SAE 100R7 Medium Pressure Thermoplastic Hydraulic Hose



Black Part Number	Black Twin-Line Part Number	Orange Non-Conductive Part Number	Orange Non-Conductive Twin-Line Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)
● 3107-04	3307-04	3207-04	3407-04	1/4	.490	2,750	11,000	1.3
● 3107-05	3307-05	3207-05	3407-05	5/16	.560	2,500	10,000	1.8
● 3107-06	3307-06	3207-06	3407-06	3/8	.620	2,250	9,000	2.2
● 3107-08	3307-08	3207-08	3407-08	1/2	.760	2,050	8,200	3.1

Recommended for: Petroleum, synthetic and water based fluid in medium pressure hydraulic applications. Meets or exceeds requirements of SAE 100R7.

Tube: Thermoplastic elastomer.

Reinforcement: One synthetic fibre braid.

Cover: Black or orange oil and abrasion resistant polyurethane.

Temperature range: -40°F to +248°F.

SAE 100R8 High Pressure Thermoplastic Hydraulic Hose



Black Part Number	Black Twin-Line Part Number	Orange Non-Conductive Part Number	Orange Non-Conductive Twin-Line Part Number	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)
● 3108-04	3308-04	3208-04	3408-04	1/4	.490	5,000	20,000	1.3
● 3108-05	3308-05	3208-05	3408-05	5/16	.560	4,300	17,200	1.8
● 3108-06	3308-06	3208-06	3408-06	3/8	.620	4,000	16,000	2.2
● 3108-08	3308-08	3208-08	3408-08	1/2	.760	3,500	14,000	3.1

Recommended for: Petroleum, synthetic and water based fluid in high pressure hydraulic applications. Meets or exceeds requirements of SAE 100R8.

Tube: Thermoplastic elastomer.

Reinforcement: One aramid fibre braid.

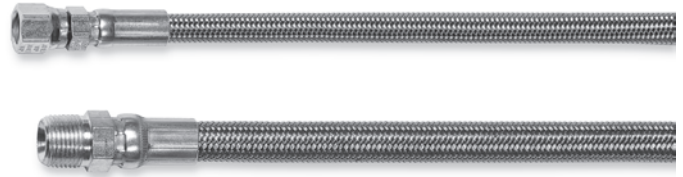
Cover: Black or orange oil and abrasion resistant polyurethane.

Temperature range: -40°F to +212°F. Temp not to exceed +158°F for air and water based fluids.

- Indicates change or new product.

P.T.F.E. Hydraulic Hose

SAE 100R14 P.T.F.E. Type A



Part Number	Dash Size	Hose I.D. (in.)	Hose O.D. (in.)	Rated W.P. (psi)	Min. Burst (psi)	Min. Bend Radius (in.)
● 6014-04	4	3/16	0.30	2,750	11,000	2.00
● 6014-05	5	1/4	0.35	2,610	10,440	3.00
● 6014-06	6	5/16	0.43	2,540	10,160	4.00
● 6014-07	7	3/8	0.48	2,390	9,560	5.00
● 6014-08	8	13/32	0.54	2,030	8,120	5.40
● 6014-10	10	1/2	0.64	1,740	6,960	6.60
● 6014-12	12	5/8	0.74	1,270	5,080	8.00
● 6014-14	14	3/4	0.91	1,010	4,040	9.20
● 6014-16	16	7/8	1.03	870	3,480	9.20
● 6014-18	18	1	1.15	870	3,480	12.00
● 6014-20	20	1-1/8	1.30	630	2,520	16.40

Recommended for: High and low temperature applications with excellent chemical resistant properties.
Meets or exceeds requirements of SAE 100R14 Type A.

Tube: Polytetrafluoroethylene (P.T.F.E.)

Reinforcement: Single braid of 303/304 series stainless steel wire.

Temperature range: Continuous -65°F to +500°F.

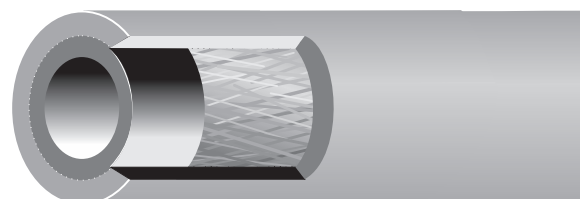
Note: For specific technical data refer to SAE 100R14 specifications.

Push-On and Military 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.

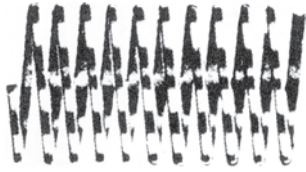
Tube: Black, seamless oil resistant nitrile.
Reinforcement: One textile spiral.
Cover: Gray, oil and water resistant nitrile/PVC.
Temperature range: -40°F to +200°F.

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' to 100'
-3 RSG	.650	20' to 100'
-4 RSG	.750	20' to 100'
-5 RSG	.835	20' to 100'
-6 RSG	.900	20' to 100'
-7 RSG	.990	20' to 100'
-8 RSG	1.110	20' to 100'
-11 RSG	1.240	20' to 100'
-12 RSG	1.300	20' to 100'
-16 RSG	1.630	20' to 60'
-20 RSG	2.125	10' to 40'
-24 RSG	2.300	10' to 40'

FLAT SPRING GUARD

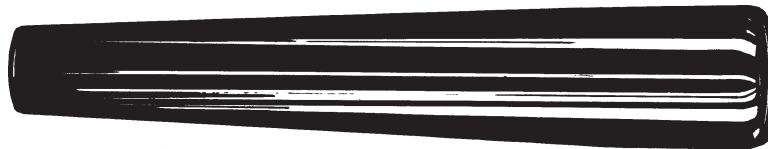


Rust resistant, black oxide finished flat armor spring guards protect heavy equipment hose assemblies from excessive wear due to cuts, abrasion, or accidental damage. Flat armor spring guards are available for all types and sizes of hose.

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