

HOSE SIZE				Working Pressure		Min. Bend Radius	
I.D.		O.D.		Psi	KG/CM ²	INCHES	MM
IN.	MM	IN.	MM				
3/16	4.8	1/2	12.7	3000	211	3.1/2	89
1/4	6.4	19/32	15.1	2750	193	4	102
5/16	7.9	11/16	17.5	2500	175	4.1/2	114
3/8	9.5	25/32	19.8	2250	158	5	127
1/2	12.7	29/32	23.0	2000	140	7	178
5/8	15.9	1.1/32	26.2	1500	105	8	203
3/4	19.0	1.3/16	30.1	1250	87	9.1/2	241
1	25.4	1.1/2	38.1	1000	70	12	305
1.1/4	31.8	1.13/16	46.0	625	44	16.1/2	419
1.1/2	38.1	2.1/16	52.4	500	35	20	508
2	50.8	2.5/8	66.7	375	26	25	635

R-1 SINGLE WIRE BRAID

Eqvt. SAE100 R1 & DIN 20022

APPLICATION :

Medium/High pressure hydraulic oil lines, fuel oil, gasoline, water.

CONSTRUCTION:

Tube : Black, oil-resistant synthetic rubber.

Reinforcement: One-ply braided high tensile steel wire.

Cover: Oil weather & abrasion-resistant synthetic rubber.

TEMPERATURE RANGE:

-40°F to +200°F,
-40°C to +93°C
Occasional use up to 120°C

(Max. Length 18 mtrs)



R-2 DOUBLE WIRE BRAID

Eqvt. SAE100 R2 & DIN 20022

APPLICATION :

High pressure hydraulic oil lines, fuel oil, gasoline water.

CONSTRUCTION:

Tube : Black, oil-resistant synthetic rubber.

Reinforcement: Two-ply braided high tensile steel wire.

Cover: Oil, weather & abrasion-resistant synthetic rubber.

TEMPERATURE RANGE:

-40°F to +200°F,
-40°C to +93°C
Occasional use up to 120°C

(Max. Length 18 mtrs)

HOSE SIZE				Working Pressure		Min. Bend Radius	
I.D.		O.D.		Psi	KG/CM ²	INCHES	MM
IN.	MM	IN.	MM				
3/16	4.8	5/8	15.9	5000	352	3.1/2	89
1/4	6.4	11/16	17.5	5000	352	4	102
5/16	7.9	3/4	19.0	4250	299	4.1/2	114
3/8	9.5	27/32	21.4	4000	281	5	127
1/2	12.7	31/32	24.6	3500	246	7	178
5/8	15.9	1.3/32	27.8	2750	193	8	203
3/4	19.0	1.1/4	31.8	2250	158	9.1/2	241
7/8	22.2	1.3/8	34.9	2000	140	11	279
1	25.4	1.9/16	39.7	2000	140	12	305
1.1/4	31.8	2	50.8	1625	114	16.1/2	419
1.1/2	38.1	2.1/4	57.2	1250	87	20	508
2	50.8	2.3/4	69.8	1125	79	25	635

HOSE SIZE				Working Pressure		Min. Bend Radius	
I.D.		O.D.		Psi	KG/CM ²	INCHES	MM
IN.	MM	IN.	MM				
3/16	4.8	1/2	12.7	150	10.5	3.1/2	89
1/4	6.4	19/32	15.1	150	10.5	4	102
5/16	7.9	11/16	17.5	150	10.5	4.1/2	114
3/8	9.5	25/32	19.8	150	10.5	5	127
1/2	12.7	29/32	23.0	150	10.5	7	178
5/8	15.9	1.1/32	26.2	150	10.5	8	203
3/4	19.0	1.3/16	30.1	150	10.5	9.1/2	241
7/8	22.2	1.5/16	35.4	150	10.5	11	279
1	25.4	1.1/2	38.1	150	10.5	15	381
1.1/4	31.8	1.13/16	46.0	150	10.5	16.1/2	419
1.1/2	38.1	2.1/16	52.2	150	10.5	20	508
2	50.8	2.5/8	66.7	150	10.5	25	635

R7-1 SINGLE WIRE BRAID

High Pressure Steam Eqvt. SAE 100

APPLICATION :

For usage on hi-temperature fluids and steam.

CONSTRUCTION :

Tube : Seamless synthetic heat resistant rubber

Reinforcement : One-ply H.T.S. braided wire.

Cover : Oil, weather and abrasion-resistant synthetic black rubber.

TEMPERATURE RANGE:

Upto +350°F. for pressure 150lbs. psi. of steam.

(Max. Length 18 mtrs)



HOSE SIZE				Working Pressure		Min. Bend Radius	
I.D.		O.D.		Psi	KG/CM ²	INCHES	MM
IN.	MM	IN.	MM				
3/16	4.8	1/2	12.7	1500	105	3	76
1/4	6.4	9/16	14.3	1250	88	3	76
5/16	7.9	11/16	17.5	1200	84	4	102
3/8	9.5	3/4	19.0	1125	79	4	102
1/2	12.7	15/16	23.8	1000	70	5	127
5/8	15.9	1.1/8	28.7	875	61	5.1/2	140
3/4	19.0	1.1/4	31.9	750	53	6	152
1	25.4	1.1/2	38.1	565	40	8	203
1.1/4	31.8	1.3/4	44.5	375	26.5	10	254
1.1/2	38.1	2	50.8	250	17.6	12	305

R-3 DOUBLE RAYON BRAID

(Equivalent to SAE-100R-3)

APPLICATION :
Hydraulic oil, fuel oil, anti-freeze solutions and water.

CONSTRUCTION :
Tube : Synthetic rubber.
Reinforcement : Two braids high tenacity rayon
Cover : Oil and abrasion resistant synthetic rubber.

TEMPERATURE RANGE
-40°F to +200°F,
-40°C to +93°C
Occasional use up to 120°C

(Max. length 30 mts)



R-6 SINGLE RAYON BRAID

(Equivalent to SAE-100R-6)

APPLICATION :
Hydraulic oil lines, fuel oil, anti-freeze solutions and water.

CONSTRUCTION :
Tube : Specially compounded synthetic rubber.
Reinforcement : Single braid tenacity rayon.
Cover : Oil and abrasion-resistant synthetic rubber.

TEMPERATURE RANGE
-40°F to +200°F,
-40°C to +93°C
Occasional use up to 120°C

(Max. Length 30 mtrs)



HOSE SIZE				Working Pressure		Min. Bend Radius	
I.D.		O.D.		Psi	KG/CM ²	INCHES	MM
IN.	MM	IN.	MM				
3/16	4.8	7/16	11.1	500	35	2	51
1/4	6.4	1/2	12.7	400	28	2.1/2	64
5/16	7.9	9/16	14.3	400	28	3	76
3/8	9.5	5/8	15.9	400	28	3	76
1/2	12.7	25/32	19.8	400	28	4	102
5/8	15.9	29/32	23.0	350	25	5	127
7/8	22.2	1.1/16	27.0	300	21	6	152

R7-2 DOUBLE WIRE BRAID

High Pressure Steam Eqvt. SAE 100

APPLICATION:
For usage on Hi-temperature fluids and steam.
Tube : Seamless synthetic heat resistant rubber.
Reinforcement: Two-ply H.T.S. braided wire
Cover : Oil, weather and abrasion-resistant synthetic black rubber,

TEMPERATURE RANGE :
Upto +350°F. for pressure 200 lbs. psi. of steam.

(Max. Length 18 mtrs)



HOSE SIZE				Working Pressure		Min. Bend Radius	
I.D.		O.D.		Psi	KG/CM ²	INCHES	MM
IN.	MM	IN.	MM				
3/8	9.5	27.32	21.4	200	14	5	127
1/2	12.7	31.52	24.6	200	14	7	178
5/8	15.9	1.3/32	27.8	200	14	8	203
3/4	19.0	1.1/4	31.8	200	14	9.1/2	241
7/8	22.2	1.3/8	34.9	200	14	11	279
1	25.4	1.9/16	39.7	200	14	15	381
1.1/4	31.8	2	50.8	200	14	16.1/2	419
1.1/2	38.1	2.1/4	57.2	200	14	20	508
2	50.8	2.3/4	69.8	200	14	25	635



Construction:
tube: seamless synthetic rubber
reinforcement: 4 spirals of high tensile steel wire
cover: synthetic rubber weather, oil and abrasion resistant.
Lengths: random

Water Blast 4 Spiral

inside Diameter		over cover Diameter		Max. working Pressure		min. burst Pressure		minimum bend. Radius		average Weight
inch	mm	inch	mm	PSI	BAR	PSI	BAR	inch	mm	Kg/100ml
1/2	12.7	1.141	29.0	14,600	1,000	36,500	2,500	8.00	203	136

Hose Size inch(")	MM/ NW	Corresponding Thread				Stand Pipe	
		BSP	NPT	SAE	METRIC	Pipe dia	Length
3/16	4	1/4"	1/4"	7/16"-20UNF	M12x1.5 M12X1.5	6mm 8mm	20mm 22mm
1/4	6	1/4"	1/4"	7/16"-20UNF 1/2"-20UNF 9/16"-18UNF 5/8"-18UNF	M14x1.5 M16x1.5 M18x1.5	8mm 10mm 12mm	22mm 24mm 25mm
5/16	8	3/8"	3/8"	1/2"-20UNF 9/16"-18UNF 5/8"-18UNF	M16x1.5 M20x1.5	10mm 12mm	24mm 25mm
3/8	10	3/8" 1/2"	3/8" 1/2"	1/2"-20UNF 9/16"-18UNF 3/4"-16UNF 7/8"-14UNF	M18x1.5 M22x1.5	12mm 14mm 10mm	25mm 27mm 24mm
1/2	13	1/2"	1/2"	9/16"-18UNF 3/4"-16UNF 7/8"-14UNF 1.1/16"-12UNF	M22x1.5 M24x1.5 M26x1.5	15mm 16mm 18mm 20mm	25mm 30mm 25mm 32mm
5/8	16	5/8" 3/4"	3/4"	3/4"-16UNF 7/8"-14UNF 1.1/16"-12UNF	M26x1.5	18mm 20mm	25mm 32mm
3/4	20	3/4" 1"	3/4" 1"	7/8"-14UNF 1.1/16"-12UNF 1.3/16"-12UNF 1.5/16"-12UNF	M30x1.5 M30x2 M36x2	22mm 25mm	25mm 34mm
1	25	1" 1 1/4"	1" 1 1/4"	1.5/16"-12UNF 1.5/8"-12UNF	M38x1.5 M42x2	28mm 30mm	25mm 40mm 36mm 40mm
1 1/4	32	1 1/4" 1 1/2"	1 1/4" 1 1/2"	1.5/8"-12UNF 1.7/8"-12UNF	M45x1.5 M52x1.5	38mm 30mm 35mm	38mm 35mm 30mm
1 1/2	38	1 1/2" 2"	1 1/2" 2"	1.7/8"-12UNF 2 1/4"-12UNF 2 1/2"-12UNF	M52x1.5 M52x2	42mm 50mm	36mm 70mm
2	50	2" 2 1/2"	2" 2 1/2"	2 1/2"-12UNF	M65x2	—	—
2 1/2	63	2 1/2" 3"	2 1/2" 3"	3"-12UNF	M78x2	—	—
3	76	3"	3"	—	M100x2	—	—

END FITTING SPECIFICATION

Hose With Built-in Fittings

- (i) Ends
 - (a) Threaded (type of thread)
 - (b) Grooved
 - (c) Beveled for welding
 - (d) Integral flange
- (ii) Flanges
 - (a) Type (threaded, slip-on, welding neck, lap joint)
 - (b) Pressure rating
 - (c) Drilling
- (iii) Materials and Dimensions
 - (a) ANSI (or SAE or ASTM) metal composition specs.
 - (b) Treatment for specific services

Coupled Hose, length

- (i) Factory applied
- (ii) Field applied
- (iii) Type of fitting
 - (a) Type of thread
 - (b) Male or female
 - (c) Reusable
 - (d) Non-reusable
- (iv) Material for fittings
 - (a) ANSI (or SAE or ASTM) metal composition specs.

PROVIDE BEND

COUDE FOURNI * SUMINISTRAR ÁNGULO * CURVA FORNECIDA * Aufbiegung lass eh * TOEVOER BOCHT

The hose when subjected to pressure changes in length from -4% to +2% in general and as such bend in the hose must be provided to compensate for any change in length that may occur.

FLEXING

SOUPLEMENT * DOBLACIÓN * FLEXIBILIDADE * die faltung

* BUIGZAAMHEID

The metal hose fittings should not form a part of the flexible portion, whenever the hose assembly is subject to severe flexing or vibration.

PROPER TWIST

TORTILLON ADÉQUAT * TORCIMENTO ADECUADO

* CONTRAÇÃO APROPRIADA * richtige Torsion * EIGENLIJKE DRAAIINGE

High operation pressure should not be applied to a twisted hose else the hose may fail or the attaching nut will become loose.

MAINTAIN HIGH BEND RADIUS

MAINTENIR LE RAYON DE COUDE GRAND

* MANTENGA RADIO DE ANGULO ALTO * MANTER RAO DE CURVA GRANDE

* starken Biegungsradius aufrechterhalten * BEHOVDEN HOGE BVIGZAAM HEIO R
The bend radius of the hose should be kept as large as possible which will help proper flow to fluids & thus obviate collapsing of line.

USE ADAPTORS & ELBOWS

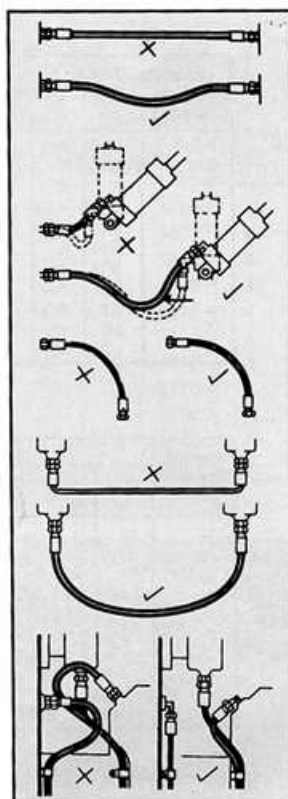
PRISE MULTIPLE À USAGE/ADAPTATEUR À

USAGE ET COUDE * UTILICE ADAPTADORES Y CODOS * ADAPTADOR A USO/

APLICAÇÃO E CURVA EM COTOVELO * use Anpaßstücke und Winkelstücke benutzen

* TOEPASSING VAN TUSSENSTUKKEN EN ELLE BOGEN

Adaptors & elbows are strongly recommended for easy maintenance & prompt inspection.



Uncoupled Hose

- (i) Bulk or cut to length
- (ii) Ends

- (a) Straight or enlarged
- (b) Capped or raw (uncapped)
- (c) Soft ends or wire to end