

Worldwide Connections



Rubber Hose

**EURO**  
**power**

# 1SN



(Meets / Exceeds the requirements of EN 853, ISO 1436 & SAE 100R1AT)

### Construction

**Tube:**  
Oil resistant synthetic rubber

**Reinforcement:**  
One high tensile steel wire braid

**Cover:**  
Abrasion, ozone and weather resistant synthetic rubber

*MSHA approved cover available on request*

### Applications

Medium pressure hydraulic oil lines  
Water and water based fluid lines

### Temperature Range

-40°C to +100°C.  
Water & water-based fluids  
+70°C max

Hose Type	Nominal Inside Diameter	Working Pressure		Bend Radius	
		psi	bar	in	mm
1SN-03	3/16"	3,625	250	3.5	90
1SN-04	1/4"	3,260	225	3.9	100
1SN-05	5/16"	3,120	215	4.5	115
1SN-06	3/8"	2,610	180	5.1	130
1SN-08	1/2"	2,320	160	7.1	180
1SN-10	5/8"	1,885	130	7.9	200
1SN-12	3/4"	1,520	105	9.4	240
1SN-16	1"	1,275	88	11.8	300
1SN-20	1-1/4"	915	63	16.5	420
1SN-24	1-1/2"	725	50	19.7	500
1SN-32	2"	580	40	24.8	630

# 2SN



(Meets / Exceeds the requirements of EN 853, ISO 1436 & SAE 100R2AT)

### Construction

**Tube:**  
Oil resistant synthetic rubber

**Reinforcement:**  
Two high tensile steel wire braids

**Cover:**  
Abrasion, ozone and weather resistant synthetic rubber

*MSHA approved cover available on request*

### Applications

High pressure hydraulic oil lines  
Water and water based fluid lines

### Temperature Range

-40°C to +100°C.  
Water & water-based fluids  
+70°C max

Hose Type	Nominal Inside Diameter	Working Pressure		Bend Radius	
		psi	bar	in	mm
2SN-03	3/16"	6,020	415	3.5	90
2SN-04	1/4"	5,800	400	3.9	100
2SN-05	5/16"	5,075	350	4.5	115
2SN-06	3/8"	4,785	330	5.1	130
2SN-08	1/2"	3,990	275	7.1	180
2SN-10	5/8"	3,625	250	7.9	200
2SN-12	3/4"	3,120	215	9.4	240
2SN-16	1"	2,390	165	11.8	300
2SN-20	1-1/4"	1,810	125	16.5	420
2SN-24	1-1/2"	1,305	90	19.7	500
2SN-32	2"	1,160	80	24.8	630

# 2ST



(Meets / Exceeds the requirements of EN 853, ISO 1436 & SAE 100R2A)

### Construction

**Tube:**  
Oil resistant synthetic rubber

**Reinforcement:**  
Two high tensile steel wire braids

**Cover:**  
Abrasion, ozone and weather resistant synthetic rubber

*MSHA approved cover available on request*

### Applications

High pressure hydraulic oil lines  
Water and water based fluid lines

### Temperature Range

-40°C to +100°C.  
Water & water-based fluids  
+70°C max

Hose Type	Nominal Inside Diameter	Working Pressure		Bend Radius	
		psi	bar	in	mm
2ST-04	1/4"	5,800	400	3.9	100
2ST-05	5/16"	5,075	350	4.5	115
2ST-06	3/8"	4,785	330	5.1	130
2ST-08	1/2"	3,990	275	7.1	180
2ST-10	5/8"	3,625	250	7.9	200
2ST-12	3/4"	3,120	215	9.4	240
2ST-16	1"	2,390	165	11.8	300

# EH111



(Meets / Exceeds the Requirements of EN857 1SC & ISO 11237 1SC)

### Construction

**Tube:**  
Oil resistant synthetic rubber

**Reinforcement:**  
One high tensile steel wire braid

**Cover:**  
Abrasion, ozone and weather resistant synthetic rubber

*MSHA approved cover available on request*

### Applications

Medium pressure hydraulic oil lines where a tight bend radius is req'd  
Water and water based fluid lines

### Temperature Range

-40°C to +100°C.  
Water & water-based fluids  
+70°C max

Hose Type	Nominal Inside Diameter	Working Pressure		Bend Radius	
		psi	bar	in	mm
EH111-04	1/4"	4,205	290	1.6	40
EH111-06	3/8"	3,335	230	2.6	65
EH111-08	1/2"	2,900	200	3.1	80
EH111-10	5/8"	2,175	150	4.1	105
EH111-12	3/4"	1,810	125	4.7	120
EH111-16	1"	1,600	110	6.3	160

# EH221



(Meets / Exceeds the Requirements of EN857 2SC & ISO 11237 2SC)

### Construction

**Tube:**  
Oil resistant synthetic rubber

**Reinforcement:**  
Two high tensile steel wire braids

**Cover:**  
Abrasion, ozone and weather resistant synthetic rubber

*MSHA approved cover available on request*

### Applications

High pressure hydraulic oil lines where a tight bend radius is req'd  
Water and water based fluid lines

### Temperature Range

-40°C to +100°C.  
Water & water-based fluids  
+70°C max

Hose Type	Nominal Inside Diameter	Working Pressure		Bend Radius	
		psi	bar	in	mm
EH221-04	1/4"	6,530	450	1.8	45
EH221-06	3/8"	5,515	380	2.8	70
EH221-08	1/2"	4,715	325	3.5	90
EH221-10	5/8"	4,205	290	5.1	130
EH221-12	3/4"	3,770	260	6.3	160
EH221-16	1"	2,755	190	8.3	210

## EURO HIGH TEMP (EHT)



### Construction

#### Tube:

Oil resistant synthetic rubber

#### Reinforcement:

One high tensile steel wire braid

#### Cover:

Abrasion, ozone and weather resistant synthetic rubber

*MSHA approved cover as standard*

### Applications

Medium pressure, high temperature oil lines, truck engine, compressors, oil and fuel services

#### Temperature Range

-40°C to +150°C.

Water & water-based fluids  
+70°C max

Hose Type	Nominal Inside Diameter	Working Pressure		Bend Radius	
		psi	bar	in	mm
EHT-04	1/4"	2,750	190	4.0	102
EHT-06	3/8"	2,250	155	5.0	127
EHT-08	1/2"	2,000	140	7.1	180
EHT-10	5/8"	1,500	105	8.9	226
EHT-12	3/4"	1,250	85	9.5	241
EHT-16	1"	1,000	70	12.0	305
EHT-20	1-1/4"	625	45	16.5	419
EHT-24	1-1/2"	500	35	20.0	508
EHT-32	2"	375	26	25.0	635

## EUROPULSE



(Meets / Exceeds the Requirements of EN857 2SC & ISO 11237 2SC)

### Construction

#### Tube:

Oil resistant synthetic rubber

#### Reinforcement:

Two high tensile steel wire braids

#### Cover:

Abrasion, ozone and weather resistant synthetic rubber

*MSHA approved cover available on request*

### Applications

High pressure hydraulic oil lines where a tight bend radius is required  
Water and water based fluid lines

#### Temperature Range

-40°C to +100°C.

Water & water-based fluids  
+70°C max

Hose Type	Nominal Inside Diameter	Working Pressure		Bend Radius	
		psi	bar	in	mm
EUROPULSE-04	1/4"	5,800	400	3.0	75
EUROPULSE-05	5/16"	5,450	375	3.3	85
EUROPULSE-06	3/8"	5,075	350	3.5	90
EUROPULSE-08	1/2"	4,350	300	5.1	130
EUROPULSE-10	5/8"	4,000	275	6.7	170
EUROPULSE-12	3/4"	3,400	235	7.9	200
EUROPULSE-16	1"	2,675	185	9.8	250

## EUROPULSE-BDB



(Meets / Exceeds the Requirements of EN857 2SC & ISO 11237 2SC)

### Construction

#### Tube:

Oil resistant synthetic rubber

#### Reinforcement:

Two high tensile steel wire braids

#### Cover:

High abrasion, ozone and weather resistant synthetic rubber

*MSHA approved cover as standard*

### Applications

High pressure hydraulic oil lines where a tight bend radius is required. Assemblies which require high abrasion resistance &/or an MSHA cover.  
Water & water based fluid lines

#### Temperature Range

-40°C to +100°C.

Water & water-based fluids  
+70°C max

Hose Type	Nominal Inside Diameter	Working Pressure		Bend Radius	
		psi	bar	in	mm
EUROPULSE-04-BDB	1/4"	5,800	400	3.0	75
EUROPULSE-06-BDB	3/8"	5,075	350	3.5	90
EUROPULSE-08-BDB	1/2"	4,350	300	5.1	130
EUROPULSE-10-BDB	5/8"	4,000	275	6.7	170
EUROPULSE-12-BDB	3/4"	3,400	235	7.9	200

## R16



(Meets / Exceeds the Requirements of SAE 100R16 & ISO 11237 R16)

### Construction

#### Tube:

Oil resistant synthetic rubber

#### Reinforcement:

Two high tensile steel wire braids

#### Cover:

Abrasion, ozone and weather resistant synthetic rubber

*MSHA approved cover as standard*

### Applications

High pressure hydraulic oil lines where a tight bend radius is required  
Water and water based fluid lines

#### Temperature Range

-40°C to +100°C.

Water & water-based fluids  
+70°C max

Hose Type	Nominal Inside Diameter	Working Pressure		Bend Radius	
		psi	bar	in	mm
R16-04	1/4"	5,000	345	2.0	50
R16-05	5/16"	4,250	293	2.2	55
R16-06	3/8"	4,000	276	2.6	65
R16-08	1/2"	3,500	241	3.5	90
R16-10	5/8"	2,750	190	3.9	100
R16-12	3/4"	2,250	155	4.7	120
R16-16	1"	2,000	138	5.9	150

## R17



(Meets / Exceeds the Requirements of SAE 100R17 & ISO 11237 R17)

### Construction

#### Tube:

Oil resistant synthetic rubber

#### Reinforcement:

1/4"-1/2" One high tensile steel wire braid  
5/8"-1" Two high tensile steel wire braids

#### Cover:

Abrasion, ozone and weather resistant synthetic rubber

*MSHA approved cover as standard*

### Applications

Hydraulic systems which operate at or below 210 bar and require a tight bend radius  
Water and water based fluid lines

#### Temperature Range

-40°C to +100°C.

Water & water-based fluids  
+70°C max

Hose Type	Nominal Inside Diameter	Working Pressure		Bend Radius	
		psi	bar	in	mm
R17-04	1/4"	3,000	210	2.0	50
R17-05	5/16"	3,000	210	2.2	55
R17-06	3/8"	3,000	210	2.6	65
R17-08	1/2"	3,000	210	3.5	90
R17-10	5/8"	3,000	210	3.9	100
R17-12	3/4"	3,000	210	4.7	120
R17-16	1"	3,000	210	5.9	150

## 174EHP-BDB



### Construction

#### Tube:

Oil resistant synthetic rubber

#### Reinforcement:

Two high tensile steel wire braids

#### Cover:

High abrasion, ozone and weather resistant

*MSHA approved cover as standard*

### Applications

BCC174 approved hose for mining applications  
Water and water based fluid lines

#### Temperature Range

-40°C to +100°C.

Water & water-based fluids  
+70°C max

Hose Type	Nominal Inside Diameter	Working Pressure		Bend Radius	
		psi	bar	in	mm
174EHP-04-BDB	1/4"	6,525	450	3.9	100
174EHP-06-BDB	3/8"	5,500	380	5.1	130
174EHP-08-BDB	1/2"	5,250	362	5.9	150
174EHP-12-BDB	3/4"	4,000	276	9.1	230
174EHP-16-BDB	1"	3,117	215	11.8	300
174EHP-24-BDB	1-1/2"	2,117	145	17.7	450

# 174 HOSE



**Construction**  
**Tube:**  
 Oil resistant synthetic rubber

**Reinforcement:**  
 Two high tensile steel wire braids

**Cover:**  
 Abrasion, ozone and weather resistant synthetic rubber

*MSHA approved cover as standard*

**Applications**  
 BCC174 approved hose for mining applications  
 Water and water based fluid lines

**Temperature Range**  
 -40°C to +100°C.  
 Water & water-based fluids  
 +70°C max

Hose Type	Nominal Inside Diameter	Working Pressure		Bend Radius	
		psi	bar	in	mm
20K13	1-1/4"	2,500	172	15.0	380
32NCB	2"	1,625	112	23.6	600

# EUROWASH PW1



(Meets / Exceeds the requirements of EN 853, ISO 1436 & SAE 100R1AT)

**Construction**  
**Tube:**  
 Synthetic rubber

**Reinforcement:**  
 One high tensile steel wire braid

**Cover:**  
 Abrasion, ozone and weather resistant synthetic rubber

*MSHA approved cover available on request*

**Applications**  
 Pressure washers using both hot and cold water with usual cleaning agents at the recommended concentration and application temperatures

**Temperature Range**  
 Up to +150°C.

Hose Type	Nominal Inside Diameter	Working Pressure		Bend Radius	
		psi	bar	in	mm
EUROWASH-B-06-PW1	3/8"	3,000	210	5.0	127
EUROWASH-BL-06-PW1	3/8"	3,000	210	5.0	127

Where 'B' denotes 'Black' outer cover  
 Where 'BL' denotes 'Blue' outer cover

# EUROWASH PW2



(Meets / Exceeds the requirements of EN 853, ISO 1436 & SAE 100R2AT)

**Construction**  
**Tube:**  
 Synthetic rubber

**Reinforcement:**  
 Two high tensile steel wire braids

**Cover:**  
 Abrasion, ozone and weather resistant synthetic rubber

*MSHA approved cover available on request*

**Applications**  
 Pressure washers using both hot and cold water with usual cleaning agents at the recommended concentration and application temperatures

**Temperature Range**  
 Up to +150°C.

Hose Type	Nominal Inside Diameter	Working Pressure		Bend Radius	
		psi	bar	in	mm
EUROWASH-B-06-PW2	3/8"	5,800	400	5.0	127
EUROWASH-BL-06-PW2	3/8"	5,800	400	5.0	127

Where 'B' denotes 'Black' outer cover  
 Where 'BL' denotes 'Blue' outer cover

# R4



(Meets / Exceeds the Requirements of SAE 100R4)

**Construction**  
**Tube:**  
 Oil resistant synthetic rubber

**Reinforcement:**  
 Textile layers, steel wire helix

**Cover:**  
 Abrasion, ozone and weather resistant synthetic rubber

**Applications**  
 Suction and low pressure return lines using oil, water and water based fluids

**Temperature Range**  
 -40°C to +100°C.  
 Water & water-based fluids  
 +70°C max

Hose Type	Nominal Inside Diameter	Working Pressure		Bend Radius	
		psi	bar	in	mm
R4-12	3/4"	300	21	5.0	127
R4-16	1"	250	17	6.0	152
R4-20	1-1/4"	200	14	8.0	203
R4-24	1-1/2"	150	10	10.0	254
R4-32	2"	100	7	12.0	305

# R6



(Meets / Exceeds the Requirements of SAE 100R6)

**Construction**  
**Tube:**  
 Oil resistant synthetic rubber

**Reinforcement:**  
 One layer textile braid

**Cover:**  
 Abrasion, ozone and weather resistant synthetic rubber

**Applications**  
 Low pressure hydraulic and pneumatic service lines

**Temperature Range**  
 -40°C to +100°C.  
 Water & water-based fluids  
 +70°C max

Hose Type	Nominal Inside Diameter	Working Pressure		Bend Radius	
		psi	bar	in	mm
R6-04	1/4"	400	28	2.5	64
R6-05	5/16"	400	28	3.0	76
R6-06	3/8"	400	28	3.0	76
R6-08	1/2"	400	28	4.0	102
R6-10	5/8"	350	24	5.0	127
R6-12	3/4"	300	21	6.0	152

## AIR BRAKE



(Meets / Exceeds the requirements of SAE J1402)

### Construction

**Tube:**  
Oil resistant synthetic rubber

**Reinforcement:**  
Textile layers

**Cover:**  
Abrasion, ozone and weather resistant synthetic rubber

### Applications

Air brake hose assemblies made from textile reinforced hose

**Temperature Range**  
-40°C to +93°C.  
Water & water-based fluids  
+70°C max

Hose Type	Nominal Inside Diameter	Working Pressure		Bend Radius	
		psi	bar	in	mm
AB-06-G	3/8"	145	10	3.5	89
AB-08-G	1/2"	145	10	4.0	102

## 4SP



(Meets / Exceeds the requirements of EN 856 & ISO 3862)

### Construction

**Tube:**  
Oil resistant synthetic rubber

**Reinforcement:**  
Four plies high tensile steel wire spiral

**Cover:**  
Abrasion, ozone and weather resistant synthetic rubber

*MSHA approved cover as standard*

### Applications

Pulsating pressure hydraulic applications greater than EN856 / SAE 100R12  
Pressures up to and including 1" size equal to/greater than R9R

**Temperature Range**  
-40°C to +100°C.  
Water & water-based fluids  
+70°C max

Hose Type	Nominal Inside Diameter	Working Pressure		Bend Radius	
		psi	bar	in	mm
4SP-04	1/4"	7,250	500	5.9	150
4SP-06	3/8"	6,670	460	7.1	180
4SP-08	1/2"	6,380	440	9.1	230
4SP-10	5/8"	5,800	400	9.8	250
4SP-12	3/4"	5,510	380	11.8	300
4SP-16	1"	4,715	325	13.4	340
4SP-20	1-1/4"	3,480	240	18.1	460
4SP-24	1-1/2"	3,045	210	22.0	560
4SP-32	2"	2,393	165	26.0	660

## R12T



(Meets / Exceeds the requirements of EN856, SAE100R12 & ISO 3862)

### Construction

**Tube:**  
Oil resistant synthetic rubber

**Reinforcement:**  
Four plies high tensile steel wire spiral

**Cover:**  
Abrasion, ozone and weather resistant synthetic rubber

*MSHA approved cover as standard*

### Applications

Pulsating pressure hydraulic applications which operate at temperatures up to 121°C

**Temperature Range**  
-40°C to +121°C.  
Water & water-based fluids  
+70°C max

Hose Type	Nominal Inside Diameter	Working Pressure		Bend Radius	
		psi	bar	in	mm
R12T-06	3/8"	4,000	276	5.1	130
R12T-08	1/2"	4,000	276	7.1	180
R12T-10	5/8"	4,000	276	7.9	200
R12T-12	3/4"	4,000	276	9.4	240
R12T-16	1"	4,000	276	11.8	300
R12T-20	1-1/4"	3,000	207	16.5	420
R12T-24	1-1/2"	2,500	172	19.7	500
R12T-32	2"	2,500	172	24.8	630

## 4SH



(Meets / Exceeds the requirements of EN856 & ISO 3862)

### Construction

**Tube:**  
Oil resistant synthetic rubber

**Reinforcement:**  
Four plies high tensile steel wire spiral

**Cover:**  
Abrasion, ozone and weather resistant synthetic rubber

*MSHA approved cover as standard*

### Applications

Pulsating pressure hydraulic applications greater than 4SP

**Temperature Range**  
-40°C to +100°C.  
Water & water-based fluids  
+70°C max

Hose Type	Nominal Inside Diameter	Working Pressure		Bend Radius	
		psi	bar	in	mm
4SH-12	3/4"	6,090	420	11.0	280
4SH-16	1"	5,500	380	13.4	340
4SH-20	1-1/4"	4,700	325	18.1	460
4SH-24	1-1/2"	4,200	290	22.0	560
4SH-32	2"	3,625	250	27.6	700

## R13



Meets / Exceeds the requirements of EN856, SAE100R13 & ISO 3862)

### Construction

**Tube:**  
Oil resistant synthetic rubber

**Reinforcement:**  
3/4" & 1" Four plies high tensile steel wire spiral  
1-1/4" - 2" Six plies high tensile steel wire spiral

**Cover:**  
Abrasion, ozone and weather resistant synthetic rubber

*MSHA approved cover as standard*

### Applications

Pulsating pressure hydraulic applications requiring flexibility, superior strength and high temperature

**Temperature Range**  
-40°C to +121°C.  
Water & water-based fluids  
+70°C max

Hose Type	Nominal Inside Diameter	Working Pressure		Bend Radius	
		psi	bar	in	mm
R13-12	3/4"	5,000	345	9.4	240
R13-16	1"	5,000	345	11.8	300
R13-20	1-1/4"	5,000	345	16.5	420
R13-24	1-1/2"	5,000	345	19.7	500
R13-32	2"	5,000	345	24.8	630

### Notes:

For correct insert / ferrule combinations please refer to the latest revision of the Europower Swaging Document  
Hoses may be capable of working at below the above published minimum bend radius at a reduced working pressure

The following options are available on application and maybe subject to minimum order quantities - please contact Europower Sales department with your request:

- Pin-pricking of hose
- Special hose branding
- Special length requirements
- BDB cover available on request - hose with this must not go below minimum bend radius irrespective of working pressure

## Worldwide Connections

### Worldwide OEM Connections

VOLVO

KOMATSU

CNH

AGCO

INGERSOLL RAND

SCANIA

JCB

ACTUANT (ENERPAC)

MCCORMICK

CATERPILLAR

GOODYEAR



**EURO**  
power



#### UK

Europower Group Ltd  
Unit 15 Coal Road  
Seacroft Industrial Estate  
Leeds LS14 2AQ  
Telephone: +44 (0)113 3687100  
Fax: +44 (0)113 3687539  
info@europower-hyds.com

#### South Africa

Europower Africa Pty  
104 North Reef Road  
Sunny Rock  
Germiston 1400, Gauteng  
Telephone: +27 11450 2030  
Fax: +27 11455 2081  
info@europower-hyds.com

#### USA

Europower Inc.  
7621 Hub Parkway  
Valley View  
Ohio 44125  
Telephone: +1 216 447 0898  
Fax: +1 216 447 0933  
info@europower-hyds.com

#### France

Europower Hydraulics S.A.  
15/21 Rue Jean Pierre Timbaud  
Z.I. du Prunay  
78500 Sartrouville  
Telephone: +33 139 152627  
Fax: +33 139 152006  
info@europower-hyds.com

#### Czech Republic

Europower C.R. S.R.O.  
Sumperska 1345  
783 91 Unicov  
Czech Republic  
Telephone: +42 0585 093 247  
Fax: +42 0585 093 248  
info@europower-hyds.com

#### Poland

Europower Sp. Zo.o.  
ul. Zmigrodzka 91  
60-171 Poznan  
Polska  
Telephone: +48 616 616  
Fax: +48 616 616  
info@europower-hyds.com

#### Germany

Europower Group Ltd  
Ratingen Office  
Ratingen  
Germany  
Telephone: +49 2102 125 68 95  
Fax: +49 2102 125 68 96  
info@europower-hyds.com