

H290L WeatherFROST™

SAE 100R16 performance



| Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Min. Bend Radius | | Wt. Per 100 Ft. | | Avail. Lengths |
|-----------------------------------------|-----------|------|----------|-----------|------|----------|----------------------|-------|---------------------|--------|------------------|-------|-----------------|--------|------------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | feet |
| H290L04 H290L04-250R H290L04-500R | 6,4 | 0.25 | 1/4 | 14,2 | 0.56 | 9/16 | 350,0 | 5,000 | 1400,0 | 20,000 | 50,8 | 2.00 | 0,30 | 0.20 | 50 250 500 |
| H290L06 H290L06-250R H290L06-500R | 9,7 | 0.38 | 3/8 | 17,3 | 0.68 | 11/16 | 280,0 | 4,000 | 1120,0 | 16,000 | 63,5 | 2.50 | 0,40 | 0.27 | 50 250 500 |
| H290L08 H290L08-250R H290L08-500R | 12,7 | 0.50 | 1/2 | 20,8 | 0.82 | 53/64 | 245,0 | 3,500 | 980,0 | 14,000 | 88,9 | 3.50 | 0,58 | 0.39 | 50 250 500 |
| H290L10 H290L10-250R | 15,9 | 0.63 | 5/8 | 24,9 | 0.98 | 63/64 | 192,0 | 2,750 | 770,0 | 11,000 | 101,6 | 4.00 | 0,74 | 0.50 | 50 250 |
| H290L12 H290L12-250R | 19,1 | 0.75 | 3/4 | 28,4 | 1.12 | 1-1/8 | 157,0 | 2,250 | 630,0 | 9,000 | 120,7 | 4.75 | 0,92 | 0.62 | 50 250 |
| H290L16 H290L16-250R | 25,4 | 1.00 | 1 | 35,8 | 1.41 | 1-13/32 | 140,0 | 2,000 | 560,0 | 8,000 | 152,4 | 6.00 | 1,22 | 0.82 | 50 250 |
| H290L20 H290L20-150R | 31,8 | 1.25 | 1-1/4 | 43,4 | 1.71 | 1-23/32 | 113,0 | 1,625 | 455,0 | 6,500 | 209,6 | 8.25 | 1,60 | 1.07 | 50 150 |
| H290L24 H290L24-100R | 38,1 | 1.50 | 1-1/2 | 51,6 | 2.03 | 2-1/16 | 87,0 | 1,250 | 350,0 | 5,000 | 254,0 | 10.00 | 2,11 | 1.42 | 50 100 |
| H290L32 H290L32-100R | 50,8 | 2.00 | 2 | 63,8 | 2.51 | 2-1/2 | 78,0 | 1,125 | 315,0 | 4,500 | 317,5 | 12.50 | 2,80 | 1.88 | 50 100 |

Inner Tube: Nitrile**Reinforcement:**

2 Wire Braid

Cover: Neoprene**Temp. Range:**-57°C to +100°C
(-70°F to +212°F)**Typical Application:**

Low temperature flexing and hydraulic system service with petroleum and water-base fluids. For use in frigid environments on construction equipment and other mobile applications.

Hose End Reference

C-O-C

Page

'Z' Series (-4 to -32)

170-185

H421 WeatherJACK™
10,000 PSI Jack Hose

| Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Min. Bend Radius | | Wt. Per 100 Ft. | | Avail. Lengths |
|--------------------------------------|-----------|------|----------|-----------|------|----------|----------------------|--------|---------------------|--------|------------------|------|-----------------|--------|------------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | feet |
| H42104 H42104-250R H42104-500R | 6,4 | 0.25 | 1/4 | 13,5 | 0.53 | 17/32 | 700,0 | 10,000 | 1400,0 | 20,000 | 50,8 | 2.00 | 0,3 | 0.22 | 50 250 500 |
| H42106 H42106-250R H42106-500R | 9,7 | 0.38 | 3/8 | 17,5 | 0.69 | 11/16 | 700,0 | 10,000 | 1400,0 | 20,000 | 63,5 | 2.50 | 0,4 | 0.29 | 50 250 500 |

Inner Tube:

Synthetic Rubber

Reinforcement: 2 Wire Braid**Cover:** Synthetic Rubber**Temp. Range:**-40°F to +212°F
(-40°C to +100°C)**Typical Application:**

Hydraulic jacking system with petroleum and water-base fluids. Meets the performance requirements of the Material Handling Institute Specification IJ100.

Hose End Reference

C-O-C

Page

'Z' Series (-4 to -32)

170-185

H114 Hydraulic Hose



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Min. Bend Radius | | Wt. Per 100 Ft. | | Avail. Lengths |
|--------------------------------------|-----------|------|----------|-----------|------|----------|----------------------|-------|---------------------|--------|------------------|------|-----------------|--------|------------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | |
| H11404 H11404-250R H11404-500R | 6,4 | 0.25 | 1/4 | 12,7 | 0.50 | 1/2 | 206,9 | 3,000 | 827,4 | 12,000 | 101,6 | 4.00 | 5,0 | 11 | 50 250 500 |
| H11406 H11406-250R H11406-500R | 9,5 | 0.38 | 3/8 | 16,3 | 0.64 | 41/64 | 206,9 | 3,000 | 827,4 | 12,000 | 127,0 | 5.00 | 8,2 | 18 | 50 250 500 |
| H11408 H11408-250R H11408-500R | 12,7 | 0.50 | 1/2 | 20,6 | 0.81 | 13/16 | 206,9 | 3,000 | 827,4 | 12,000 | 177,8 | 7.00 | 11,3 | 25 | 50 250 500 |

Inner Tube: Hytrel
Reinforcement: 1 Steel Braid
Cover: Neoprene
Temp. Range:
 -40° F to +250° F
 (-40° C to +121° C)

Typical Application: 3,000 PSI continuous working pressure hose. Ideal for farm implement high temperature hydraulic lines. Will work with synthetic or petroleum-based fluids.

MSHA Accepted

| Hose End Reference | Page |
|------------------------|---------|
| C-O-C | |
| 'S' Series | 140 |
| 'U' Series (-4 to -10) | 141-158 |

H145 Hydraulic Hose

SAE 100R17



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Min. Bend Radius | | Wt. Per 100 Ft. | | Avail. Lengths |
|--------------------------------------|-----------|------|----------|-----------|------|----------|----------------------|-------|---------------------|--------|------------------|------|-----------------|--------|------------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | |
| H14504 H14504-250R H14504-500R | 6,4 | 0.25 | 1/4 | 12,7 | 0.50 | 1/2 | 15,5 | 3,045 | 137,9 | 12,180 | 38,1 | 2.00 | 3,2 | 15 | 50 250 500 |
| H14506 H14506-250R H14506-500R | 9,5 | 0.38 | 3/8 | 16,3 | 0.64 | 41/64 | 15,5 | 3,045 | 137,9 | 12,180 | 50,8 | 2.50 | 5,0 | 23 | 50 250 500 |
| H14508 H14508-250R H14508-500R | 12,7 | 0.50 | 1/2 | 20,6 | 0.81 | 13/16 | 15,5 | 3,045 | 137,9 | 12,180 | 58,7 | 3.50 | 6,4 | 32 | 50 250 500 |
| H14510 H14510-250R | 15,9 | 0.63 | 5/8 | 24,6 | 0.97 | 31/32 | 15,5 | 3,045 | 124,1 | 12,180 | 69,9 | 4.00 | 9,5 | 51 | 50 250 |
| H14512 H14512-250R | 19,1 | 0.75 | 3/4 | 29,4 | 1.16 | 1-5/32 | 15,5 | 3,045 | 124,1 | 12,180 | 82,6 | 4.75 | 12,2 | 63 | 50 250 |
| H14516 H14516-250R | 25,4 | 1.00 | 1 | 37,3 | 1.47 | 1-15/32 | 15,5 | 3,045 | 68,9 | 12,180 | 101,6 | 6.00 | 14,1 | 91 | 50 250 |

Inner Tube: Nitrile
Reinforcement:
 4-6 Size: 1 Steel Braid
 8-16 Size: 2 Steel Braids
Cover: Neoprene
Temp. Range:
 4-8 Size: -40° F to +250° F
 (-40° C to +121° C)
 10-16 Size: -40° F to +212° F
 (-40° C to +100° C)

Typical Application: Ideal for use in high pressure lines on off road construction equipment, farm equipment, and other high pressure applications where a small bend radius is needed.

¹See pages 25-26 for applicable service pressures, required fire sleeves and qualified hose ends.

**Marine Application
 J1942/1 - Hydraulic only¹
 MSHA Accepted**

| Hose End Reference | Page |
|---------------------------------|---------|
| C-O-C | |
| 'Z' Series | 170-185 |
| 'S' Series (except -04 and -10) | 140 |
| 'U' Series (-6 thru -12 only) | 141-158 |
| 430 'U' Series (-16 only) | 159-169 |

APPLICATION DATA
 LOW & MEDIUM PRESSURE HOSE
 HIGH PRESSURE HOSE
 SPECIALTY HOSE
 ACCESSORIES & ASSEMBLY INSTRUCTIONS
 ADAPTERS & TUBE HOSE ENDS
 HOSE ASSEMBLY EQUIPMENT
 TECHNICAL DATA

H145R RhinoHide II™ Abrasion Resistant Constant Pressure Hydraulic Hose

SAE 100R17



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Min. Bend Radius | | Wt. Per 100 Ft. | | Avail. Lengths |
|-----------------------------------------|-----------|------|----------|-----------|------|----------|----------------------|-------|---------------------|--------|------------------|------|-----------------|--------|------------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | feet |
| H145R04 H145R04-250R H145R04-500R | 5,4 | 0.25 | 1/4 | 12,7 | 0.50 | 1/2 | 206,9 | 3,000 | 827,4 | 12,000 | 50,8 | 2.00 | 6,8 | 15 | 50 250 500 |
| H145R06 H145R06-250R H145R06-500R | 9,5 | 0.38 | 3/8 | 16,7 | 0.66 | 21/32 | 206,9 | 3,000 | 827,4 | 12,000 | 63,5 | 2.50 | 10,4 | 23 | 50 250 500 |
| H145R08 H145R08-250R H145R08-500R | 12,7 | 0.50 | 1/2 | 20,2 | 0.80 | 51/64 | 206,9 | 3,000 | 827,4 | 12,000 | 88,9 | 3.50 | 14,5 | 32 | 50 250 500 |
| H145R10 H145R10-250R | 15,9 | 0.63 | 5/8 | 25,0 | 0.98 | 63/64 | 206,9 | 3,000 | 827,4 | 12,000 | 101,6 | 4.00 | 23,1 | 51 | 50 250 |
| H145R12 H145R12-250R | 19,1 | 0.75 | 3/4 | 28,6 | 1.13 | 1-1/8 | 206,9 | 3,000 | 827,4 | 12,000 | 120,7 | 4.75 | 28,6 | 63 | 50 250 |
| H145R16 H145R16-250R | 25,4 | 1.00 | 1 | 37,3 | 1.47 | 1-15/32 | 206,9 | 3,000 | 827,4 | 12,000 | 152,4 | 6.00 | 37,6 | 83 | 50 250 |

Inner Tube: Nitrile**Temp. Range:****Reinforcement:**4-8 Size: 1 Steel Braid;
10-16 Size: 2 Steel Braids**Cover:** Abrasion resistant UHMW-40°F + 250°F
(-40°C to +121°C)

Typical Application: 3,000 PSI constant working pressure hose with abrasion resistant cover. Ideal for logging, construction, mining and other off highway applications.

Hose End Reference

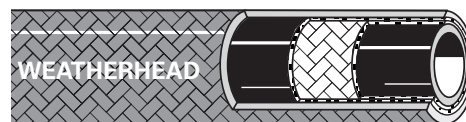
C-O-C

'Z' Series

Page

170-185

H146 3000 PSI Hydraulic Hose



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Min. Bend Radius | | Wt. Per 100 Ft. | | Avail. Lengths |
|-----------------------|-----------|------|----------|-----------|------|----------|----------------------|-------|---------------------|--------|------------------|------|-----------------|--------|----------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | feet |
| H14604 H14604-250R | 6,4 | 0.25 | 1/4 | 13,1 | 0.52 | 33/64 | 206,9 | 3,000 | 827,4 | 12,000 | 101,6 | 4.00 | 5,0 | 11 | 50 250 |
| H14604 H14604-250R | 9,5 | 0.38 | 3/8 | 17,1 | 0.67 | 43/64 | 206,9 | 3,000 | 827,4 | 12,000 | 127,0 | 5.00 | 8,2 | 18 | 50 250 |
| H14604 H14604-250R | 12,7 | 0.50 | 1/2 | 20,6 | 0.81 | 13/16 | 206,9 | 3,000 | 827,4 | 12,000 | 177,8 | 7.00 | 11,3 | 25 | 50 250 |

Inner Tube: Hytrel™**Reinforcement:** 1 Steel Braid**Cover:** Abrasion Resistant Fiber Braid**Temp. Range:**-65°F to +250°F
(-53°C to +121°C)

Typical Application: 3,000 PSI continuous working pressure hose. Ideal for Arctic cold weather hydraulic applications, as well as for farm implement high temperature hydraulic lines. Will work with synthetic or petroleum-based fluids.

Hytrel is a trademark of E.I. DuPont.

Hose End Reference

C-O-C

'U' Series

Page

141-185

H190 Hydraulic Hose

SAE 100R1 Type AT, EN 853 Type 1SN



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Min. Bend Radius | | Wt. Per 100 Ft. | | Avail. Lengths |
|--------------------------------------|-----------|------|----------|-----------|------|----------|----------------------|-------|---------------------|--------|------------------|-------|-----------------|--------|------------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | feet |
| H19004 H19004-250R H19004-500R | 6,4 | 0.25 | 1/4 | 13,5 | 0.53 | 17/32 | 225,1 | 3,265 | 900,5 | 13,060 | 101,6 | 4.00 | 6,8 | 15 | 50 250 500 |
| H19006 H19006-250R H19006-500R | 9,5 | 0.38 | 3/8 | 17,5 | 0.69 | 11/16 | 180,0 | 2,610 | 719,8 | 10,440 | 127,0 | 5.00 | 9,5 | 21 | 50 250 500 |
| H19008 H19008-250R H19008-500R | 12,7 | 0.50 | 1/2 | 20,6 | 0.81 | 13/16 | 160,0 | 2,320 | 639,9 | 9,280 | 177,8 | 7.00 | 12,7 | 28 | 50 250 500 |
| H19010 H19010-250R | 15,9 | 0.63 | 5/8 | 23,8 | 0.94 | 15/16 | 130,0 | 1,885 | 519,9 | 7,540 | 203,2 | 8.00 | 15,0 | 33 | 50 250 |
| H19012 H19012-250R | 19,1 | 0.75 | 3/4 | 27,8 | 1.09 | 1-3/32 | 105,1 | 1,525 | 420,6 | 6,100 | 241,3 | 9.50 | 18,6 | 41 | 50 250 |
| H19016 H19016-250R | 25,4 | 1.00 | 1 | 35,7 | 1.41 | 1-13/32 | 87,9 | 1,275 | 351,6 | 5,100 | 304,8 | 12.00 | 27,2 | 60 | 50 250 |
| H19020 H19020-150R | 31,8 | 1.25 | 1-1/4 | 43,4 | 1.71 | XXX | 66,0 | 950 | 260,0 | 3,770 | 419,1 | 16.50 | 1,31 | 0.88 | 50 150 |
| H19024 H19024-100R | 38,1 | 1.50 | 1-1/2 | 50,6 | 1.99 | XXX | 50,0 | 725 | 200,0 | 2,900 | 508,0 | 20.00 | 1,56 | 1.05 | 50 100 |
| H19032 H19032-100R | 50,8 | 2.00 | 2 | 64,0 | 2.52 | XXX | 40,0 | 580 | 160,0 | 2,320 | 635,0 | 25.00 | 1,95 | 1.31 | 50 100 |

Inner Tube: Nitrile

Reinforcement:
1 Steel Braid

Cover: Vinyl Nitrile

Typical Application:
Transfer of hydraulic fluid,
water and air.

Temp. Range:
Petroleum Based Hydraulic
Fluids: -40°F to +212°F
(-40°C to +100°C).
Water Based Hydraulic
Fluids: -40°F to +158°F
(40°C to +70°C).
Water: +32°F to 158°F
(0°C to 70°).

**MSHA Accepted
ISO 1436a
Marine Application
J1942/1 Hydraulic
Service¹**

| Hose End Reference | Page |
|--------------------|---------|
| C-O-C | |
| 'Z' Series | 170-185 |

¹See pages 25-26 for applicable service pressures, required fire sleeves and qualified hose ends.

H190H Hydraulic Hose

SAE 100R1 Type AT, EN 853 Type 1SN



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Min. Bend Radius | | Wt. Per 100 Ft. | | Avail. Lengths |
|-----------------------------------------|-----------|------|----------|-----------|------|----------|----------------------|-------|---------------------|--------|------------------|-------|-----------------|--------|------------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | feet |
| H190H04 H190H04-250R H190H04-500R | 6,4 | 0.25 | 1/4 | 13,5 | 0.53 | 17/32 | 225,1 | 3,265 | 900,5 | 13,060 | 101,6 | 4.00 | 6,8 | 15 | 50 250 500 |
| H190H06 H190H06-250R H190H06-500R | 9,5 | 0.38 | 3/8 | 17,5 | 0.69 | 11/16 | 180,0 | 2,610 | 719,8 | 10,440 | 127,0 | 5.00 | 9,5 | 21 | 50 250 500 |
| H190H08 H190H08-250R H190H08-500R | 12,7 | 0.50 | 1/2 | 20,6 | 0.81 | 13/16 | 160,0 | 2,320 | 639,9 | 9,280 | 177,8 | 7.00 | 12,7 | 28 | 50 250 500 |
| H190H10 H190H10-250R | 15,9 | 0.63 | 5/8 | 23,8 | 0.94 | 15/16 | 130,0 | 1,885 | 519,9 | 7,540 | 203,2 | 8.00 | 15,0 | 33 | 50 250 |
| H190H12 H190H12-250R | 19,1 | 0.75 | 3/4 | 27,8 | 1.09 | 1-3/32 | 105,1 | 1,525 | 420,6 | 6,100 | 241,3 | 9.50 | 18,6 | 41 | 50 250 |
| H190H16 H190H16-250R | 25,4 | 1.00 | 1 | 35,7 | 1.41 | 1-13/32 | 87,9 | 1,275 | 351,6 | 5,100 | 304,8 | 12.00 | 27,2 | 60 | 50 250 |
| H190H20 H190H20-150R | 31,8 | 1.25 | 1-1/4 | 43,9 | 1.73 | XXX | 62,0 | 900 | 248,0 | 3,600 | 420,0 | 16.50 | 1,26 | 0.85 | 50 150 |

Inner Tube: CPE

Reinforcement: 1 Steel Braid

Cover: CPE

Temp. Range: -55°F to +302°F (-48°C to +155°C).

Typical Application:
Transfer of hydraulic fluid,
water and air.

**MSHA Accepted
ISO 1436a**

¹See pages 25-26 for applicable service pressures, required fire sleeves and qualified hose ends.

| Hose End Reference | Page |
|--------------------|---------|
| C-O-C | |
| 'Z' Series | 170-185 |

H245 High Pressure Hydraulic Hose

SAE 100R16, ABS



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Min. Bend Radius | | Wt. Per 100 Ft. | | Avail. Lengths |
|--------------------------------------|-----------|------|----------|-----------|------|----------|----------------------|-------|---------------------|--------|------------------|------|-----------------|--------|------------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | feet |
| H24504 H24504-250R H24504-500R | 6,4 | 0.25 | 1/4 | 13,5 | 0.53 | 17/32 | 344,8 | 5,000 | 1379,0 | 20,000 | 50,8 | 2.00 | 8,6 | 19 | 50 250 500 |
| H24506 H24506-250R H24506-500R | 9,5 | 0.38 | 3/8 | 17,5 | 0.69 | 11/16 | 275,8 | 4,000 | 1103,2 | 16,000 | 63,5 | 2.50 | 13,2 | 29 | 50 250 500 |
| H24508 H24508-250R H24508-500R | 12,7 | 0.50 | 1/2 | 20,6 | 0.81 | 13/16 | 241,3 | 3,500 | 965,3 | 14,000 | 88,9 | 3.50 | 16,3 | 36 | 50 250 500 |
| H24510 H24510-250R | 15,9 | 0.63 | 5/8 | 23,8 | 0.94 | 15/16 | 189,6 | 2,750 | 758,4 | 11,000 | 101,6 | 4.00 | 19,1 | 42 | 50 250 |
| H24512 H24512-250R | 19,1 | 0.75 | 3/4 | 27,8 | 1.09 | 1-3/32 | 155,1 | 2,250 | 620,6 | 9,000 | 120,7 | 4.75 | 24,5 | 54 | 50 250 |
| H24516 H24516-250R | 25,4 | 1.00 | 1 | 35,7 | 1.41 | 1-13/32 | 137,9 | 2,000 | 551,6 | 8,000 | 152,4 | 6.00 | 36,7 | 81 | 50 250 |
| H24520 H24520-150 | 31,8 | 1.25 | 1-1/4 | 45,2 | 1.78 | 1-25/32 | 112,0 | 1,625 | 448,2 | 6,500 | 209,6 | 8.25 | 51,7 | 114 | 50 150 |

Inner Tube: Nitrile Blend**Reinforcement:**

2 Steel Braids

Cover: Neoprene**Temp. Range:** -40°F to +212°F (-40°C to +100°C)

Typical Application: Most commonly used for high pressure lines on off road construction equipment, farm equipment and other high pressure applications. Compatible with water/glycol, water, generic hydraulic fluids, and diesel fuel.

¹See pages 25-26 for applicable service pressures, required fire sleeves and qualified hose ends.

MSHA Accepted, ABS¹
Marine Application J1942 - Fuel and Lube Service.¹

Hose End Reference Page**C-O-C**

| | |
|------------------------------------------|---------|
| 'Z' Series (sizes -4, -6, -8 & -10 only) | 170-185 |
|------------------------------------------|---------|

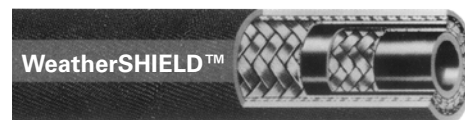
| | |
|------------------------------|-----|
| 'S' Series (except -10 size) | 140 |
|------------------------------|-----|

| | |
|------------|---------|
| 'U' Series | 141-158 |
|------------|---------|

| | |
|---------------------------------------|---------|
| 430 'U' Series (sizes -12, -16 & -20) | 159-169 |
|---------------------------------------|---------|

H280 Hydraulic Hose

100R16 EN 857 Type 2SC



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Min. Bend Radius | | Wt. Per 100 Ft. | | Avail. Lengths |
|--------------------------------------|-----------|------|----------|-----------|------|----------|----------------------|-------|---------------------|--------|------------------|-------|-----------------|--------|------------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | feet |
| H28004 H28004-250R H28004-500R | 6,4 | 0.25 | 1/4 | 13,5 | 0.53 | 17/32 | 399,9 | 5,800 | 1599,6 | 23,200 | 50,8 | 2.00 | 8,2 | 18 | 50 250 500 |
| H28006 H28006-250R H28006-500R | 9,5 | 0.38 | 3/8 | 17,5 | 0.69 | 11/16 | 331,0 | 4,800 | 1323,8 | 19,200 | 63,5 | 2.50 | 12,2 | 27 | 50 250 500 |
| H28008 H28008-250R H28008-500R | 12,7 | 0.50 | 1/2 | 20,6 | 0.81 | 13/16 | 275,8 | 4,000 | 1103,2 | 16,000 | 88,9 | 3.50 | 15,4 | 34 | 50 250 500 |
| H28010 H28010-250R | 15,9 | 0.63 | 5/8 | 23,8 | 0.94 | 15/16 | 250,3 | 3,630 | 1001,2 | 14,520 | 101,6 | 4.00 | 18,1 | 40 | 50 250 |
| H28012 H28012-250R | 19,1 | 0.75 | 3/4 | 27,8 | 1.09 | 1-3/32 | 215,1 | 3,120 | 860,5 | 12,480 | 120,7 | 4.75 | 24,4 | 54 | 50 250 |
| H28016 H28016-250R | 25,4 | 1.00 | 1 | 35,7 | 1.41 | 1-13/32 | 165,5 | 2,400 | 661,9 | 9,600 | 152,4 | 6.00 | 36,3 | 80 | 50 250 |
| H28020 H28020-150R | 31,8 | 1.25 | 1-1/4 | 41,9 | 1.65 | XXX | 157,0 | 2250 | 630,0 | 9000 | 209,6 | 8.25 | 1,62 | 1.09 | 50 150 |
| H28024 H28024-100 | 38,1 | 1.50 | 1-1/2 | 51,6 | 2.03 | XXX | 124,0 | 1800 | 497,0 | 7200 | 254,0 | 10.00 | 2,08 | 1.40 | 50 100 |
| H28032 H28032-100 | 50,8 | 2.00 | 2 | 64,3 | 2.53 | XXX | 90,0 | 1300 | 359,0 | 5200 | 317,5 | 12.50 | 2,83 | 1.90 | 50 100 |

Inner Tube: Nitrile**Reinforcement:**

2 Steel Braids

Cover: Vinyl Nitrile**Temp. Range:**

Petroleum based Hydraulic Fluids: -40°F to +212°F (-40°C to +100°C).

Water based Hydraulic Fluids: -40°F to +158°F (-40°C to +70°C)

Typical Application: High pressure hose for hydraulic fluid. Water transfer.

MSHA Accepted, Marine Application J1942/1 - Hydraulic only¹

Hose End Reference Page**C-O-C**

| | |
|------------|---------|
| 'Z' Series | 170-185 |
|------------|---------|

¹See pages 25-26 for applicable service pressures, required fire sleeves and qualified hose ends.

H290 Hydraulic Hose

100R2, EN 853, Type 2SN



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Min. Bend Radius | | Wt. Per 100 Ft. | | Avail. Lengths |
|--------------------------------------|-----------|------|----------|-----------|------|----------|----------------------|-------|---------------------|--------|------------------|-------|-----------------|--------|------------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | feet |
| H29004 H29004-250R H29004-500R | 6,4 | 0.25 | 1/4 | 15,1 | 0.59 | 19/32 | 399,9 | 5,800 | 1599,6 | 23,200 | 101,6 | 4.00 | 10,9 | 24 | 50 250 500 |
| H29006 H29006-250R H29006-500R | 9,5 | 0.38 | 3/8 | 19,1 | 0.75 | 3/4 | 331,0 | 4,800 | 1323,8 | 19,200 | 127,0 | 5.00 | 15,0 | 33 | 50 250 500 |
| H29008 H29008-250R H29008-500R | 12,7 | 0.50 | 1/2 | 22,2 | 0.88 | 7/8 | 275,8 | 4,000 | 1103,2 | 16,000 | 177,8 | 7.00 | 19,1 | 42 | 50 250 500 |
| H29010 H29010-250R | 15,9 | 0.63 | 5/8 | 25,4 | 1.00 | 1 | 250,3 | 3,630 | 1001,2 | 14,520 | 203,2 | 8.00 | 22,7 | 50 | 50 250 |
| H29012 H29012-250R | 19,1 | 0.75 | 3/4 | 29,4 | 1.16 | 1-5/32 | 215,1 | 3,120 | 860,5 | 12,480 | 241,3 | 9.50 | 28,6 | 63 | 50 250 |
| H29016 H29016-250R | 22,2 | 0.88 | 7/8 | 38,1 | 1.50 | 1-1/2 | 165,5 | 2,400 | 661,9 | 9,600 | 304,8 | 12.00 | 40,8 | 90 | 50 250 |
| H29020 H29020-150R | 31,8 | 1.25 | 1-1/4 | 48,8 | 1.92 | 1-7/8 | 157,0 | 2250 | 630,0 | 9000 | 419,1 | 16.50 | 2,29 | 1.54 | 50 150 |
| H29024 H29024-100R | 38,1 | 1.50 | 1-1/2 | 54,6 | 2.15 | 2-5/32 | 124,0 | 1800 | 497,0 | 7200 | 508,0 | 20.00 | 2,50 | 1.68 | 50 100 |
| H29032 H29032-100R | 50,8 | 2.00 | 2 | 63,8 | 2.51 | 2-1/2 | 90,0 | 1300 | 359,0 | 5200 | 635,0 | 25.00 | 3,30 | 2.22 | 50 100 |

Inner Tube: Nitrile
Reinforcement: 2 Steel Braids
Cover: Vinyl Nitrile
Temp. Range:
 Petroleum based Hydraulic Fluids: -40°F to +212°F (-40°C to +100°C).

Water based Hydraulic Fluids: -40°F to +158°F (-40°C to +70°C)
Typical Application: High pressure hose for hydraulic fluid applications. Transfer water also.

¹See pages 25-26 for applicable service pressures, required fire sleeves and qualified hose ends.

MSHA Accepted
Marine Application J1942/1 - Hydraulic only¹

| Hose End Reference | Page |
|--------------------|---------|
| C-O-C | |
| 'Z' Series | 170-185 |

H290H WeatherBLAZE™

100R2, EN 853, Type 2SN



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Min. Bend Radius | | Wt. Per 100 Ft. | | Avail. Lengths |
|-----------------------------------------|-----------|------|----------|-----------|------|----------|----------------------|-------|---------------------|--------|------------------|-------|-----------------|--------|------------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | feet |
| H290H04 H290H04-250R H290H04-500R | 6,4 | 0.25 | 1/4 | 15,1 | 0.59 | 19/32 | 399,9 | 5,800 | 1599,6 | 23,200 | 101,6 | 4.00 | 10,9 | 24 | 50 250 500 |
| H290H06 H290H06-250R H290H06-500R | 9,5 | 0.38 | 3/8 | 19,1 | 0.75 | 3/4 | 331,0 | 4,800 | 1323,8 | 19,200 | 127,0 | 5.00 | 15,0 | 33 | 50 250 500 |
| H290H08 H290H08-250R H290H08-500R | 12,7 | 0.50 | 1/2 | 22,2 | 0.88 | 7/8 | 275,8 | 4,000 | 1103,2 | 16,000 | 177,8 | 7.00 | 19,1 | 42 | 50 250 500 |
| H290H10 H290H10-250R | 15,9 | 0.63 | 5/8 | 25,4 | 1.00 | 1 | 250,3 | 3,630 | 1001,2 | 14,520 | 203,2 | 8.00 | 22,7 | 50 | 50 250 |
| H290H12 H290H12-250R | 19,1 | 0.75 | 3/4 | 29,4 | 1.16 | 1-5/32 | 215,1 | 3,120 | 860,5 | 12,480 | 241,3 | 9.50 | 28,6 | 63 | 50 250 |
| H290H16 H290H16-250R | 22,2 | 0.88 | 7/8 | 38,1 | 1.50 | 1-1/2 | 165,5 | 2,400 | 661,9 | 9,600 | 304,8 | 12.00 | 40,8 | 90 | 50 250 |
| H290H20 H290H20-150 | 31,8 | 1.25 | 1-1/4 | 48,8 | 1.92 | XXX | 157,0 | 2250 | 630,0 | 9000 | 419,1 | 16.50 | 2,39 | 1.60 | 50 150 |
| H290H24 H290H24-100 | 38,1 | 1.50 | 1-1/2 | 54,6 | 2.15 | XXX | 122,0 | 1750 | 490,0 | 7000 | 508,0 | 20.00 | 2,60 | 1.74 | 50 100 |
| H290H32 H290H32-100 | 50,8 | 2.00 | 2 | 67,8 | 2.67 | XXX | 105,0 | 1500 | 420,0 | 6000 | 635,0 | 25.00 | 3,38 | 2.27 | 50 100 |

Inner Tube: CPE
Reinforcement: 2 Steel braids
Cover: CPE blue
Temp. Range: -55°F to +302°F (-48°C to +155°C).

Typical Application: High pressure hose for hydraulic fluid applications. Transfer water also.

¹See pages 25-26 for applicable service pressures, required fire sleeves and qualified hose ends.

MSHA Accepted

| Hose End Reference | Page |
|--------------------|---------|
| C-O-C | |
| 'Z' Series | 170-185 |

APPLICATION DATA
 LOW & MEDIUM PRESSURE HOSE
 HIGH PRESSURE HOSE
 SPECIALTY HOSE
 ACCESSORIES & ASSEMBLY INSTRUCTIONS
 ADAPTERS & TUBE HOSE ENDS
 HOSE ASSEMBLY EQUIPMENT
 TECHNICAL DATA

H325 SUB ZERO™ High Pressure Hydraulic Hose



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Min. Bend Radius | | Wt. Per 100 Ft. | | Avail. Lengths |
|------------------|-----------|------|----------|-----------|------|----------|----------------------|-------|---------------------|--------|------------------|-------|-----------------|--------|----------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | feet |
| H32504-250R | 6,4 | 0.25 | 1/4 | 15,1 | 0.59 | 19/32 | 344,8 | 5,000 | 1379,0 | 20,000 | 101,6 | 4.00 | 11,8 | 26 | 250 |
| H32506-250R | 9,5 | 0.38 | 3/8 | 19,1 | 0.75 | 3/4 | 275,8 | 4,000 | 1103,2 | 16,000 | 127,0 | 5.00 | 16,8 | 37 | 250 |
| H32508-250R | 12,7 | 0.50 | 1/2 | 22,2 | 0.88 | 7/8 | 241,3 | 3,500 | 965,3 | 14,000 | 177,8 | 7.00 | 20,4 | 45 | 250 |
| H32512-250R | 19,1 | 0.75 | 3/4 | 29,4 | 1.16 | 1-5/32 | 155,1 | 2,250 | 620,6 | 9,000 | 241,3 | 9.50 | 30,4 | 67 | 250 |
| H32516-250R | 25,4 | 1.00 | 1 | 38,1 | 1.50 | 1-1/2 | 137,9 | 2,000 | 551,6 | 8,000 | 304,8 | 12.00 | 44,5 | 98 | 250 |

Inner Tube: Oil and heat resistant black synthetic rubber

Reinforcement:
2 Steel Braids

Cover: Oil, abrasion and weather resistant synthetic rubber.

Temp. Range:

-67° to +175°F
(-55°C to +80°C)

Typical Application: For non-impulse, high pressure hydraulic service, specifically designed for use in frigid environment, where temperatures to -67°F are encountered.

Hose End Reference

C-O-C

'U' Series

Page

141-158

H345 Pressure Washer Hose



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Min. Bend Radius | | Wt. Per 100 Ft. | | Avail. Lengths |
|----------------------------------------------------|-----------|------|----------|-----------|------|----------|----------------------|-------|---------------------|--------|------------------|------|-----------------|--------|---------------------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | feet |
| H34504 H34504-100 H34504-250R H34504-500R | 6,4 | 0.25 | 1/4 | 12,3 | 0.48 | 31/64 | 206,9 | 3,000 | 827,4 | 12,000 | 50,8 | 2.00 | 5,9 | 13 | 50* 100* 250 500 |
| H34506 H34506-100 H34506-250R H34506-500R | 9,5 | 0.38 | 3/8 | 16,3 | 0.64 | 41/64 | 206,9 | 3,000 | 827,4 | 12,000 | 63,5 | 2.50 | 8,2 | 18 | 50* 100* 250 500 |
| H34508 H34508-100 H34508-250R H34508-500R | 12,7 | 0.50 | 1/2 | 19,8 | 0.78 | 25/32 | 206,9 | 3,000 | 827,4 | 12,000 | 88,9 | 3.50 | 12,7 | 28 | 50* 100* 250 500 |

Inner Tube: Nitrile

Reinforcement:
1 Steel Braid

Cover: Vinyl Nitrile

Temp. Range:

Pressure Washer Service up to 0°F to +200°F
(-180°C to +93°C);
Hydraulic Service -40°F to +250°F (-40°C to +121°C)

Typical Application:

Pressure washer hose for cold and hot water. Resistant to usual detergents. Not for use with steam applications.

MSHA Accepted, IC - 46/10

*50 and *100 are one continuous length.

Hose End Reference

C-O-C

'Z' Series

Page

170-185

H350 High Pressure Hydraulic Hose



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Min. Bend Radius | | Wt. Per 100 Ft. | | Avail. Lengths |
|-----------------------|-----------|------|----------|-----------|------|----------|----------------------|-------|---------------------|--------|------------------|-------|-----------------|--------|----------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | |
| H35006 H35006-250R | 9,5 | 0.38 | 3/8 | 17,5 | 0.69 | 11/16 | 241,3 | 3,500 | 965,3 | 14,000 | 63,5 | 2.50 | 13,2 | 29 | 50 250 |
| H35008 H35008-250R | 12,7 | 0.50 | 1/2 | 20,6 | 0.81 | 13/16 | 241,3 | 3,500 | 965,3 | 14,000 | 88,9 | 3.50 | 16,3 | 36 | 50 250 |
| H35010 H35010-250R | 15,9 | 0.63 | 5/8 | 25,4 | 1.00 | 1 | 241,3 | 3,500 | 965,3 | 14,000 | 101,6 | 4.00 | 27,2 | 60 | 50 250 |
| H35012 H35012-250R | 19,1 | 0.75 | 3/4 | 29,4 | 1.16 | 1-5/32 | 241,3 | 3,500 | 965,3 | 14,000 | 120,7 | 4.75 | 31,8 | 70 | 50 250 |
| H35016 H35016-250R | 25,4 | 1.00 | 1 | 38,1 | 1.50 | 1-1/2 | 241,3 | 3,500 | 965,3 | 14,000 | 304,8 | 12.00 | 63,5 | 140 | 50 250 |

Inner Tube: Nitrile

Reinforcement:

6-12 sizes - 2 Steel Braids,
16 size - 4 Spiral-Steel Plies

Cover: Neoprene

Temp. Range: -40°F to
+212°F (-40°C to +100°C)

Typical Application: Most commonly used for high pressure lines on off road equipment, farm equipment and other high pressure applications. Compatible with water/glycol, water and hydraulic fluids.

| Hose End Reference | Page |
|---------------------------------------|---------|
| C-O-C | |
| 'Z' Series (sizes -6 to -10 only) | 170-185 |
| 'U' Series (sizes -6 & -8 only) | 141-158 |
| 430 'U' Series (sizes -12 & -16 only) | 159-169 |

H425 High Pressure Hydraulic Hose

SAE 100R2 TYPE AT



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Min. Bend Radius | | Wt. Per 100 Ft. | | Avail. Lengths |
|--------------------------------------|-----------|------|----------|-----------|------|----------|----------------------|-------|---------------------|--------|------------------|-------|-----------------|--------|------------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | |
| H42504 H42504-250R H42504-500R | 6,4 | 0.25 | 1/4 | 15,1 | 0.59 | 19/32 | 344,8 | 5,000 | 1379,0 | 20,000 | 101,6 | 4.00 | 12,7 | 28 | 50 250 500 |
| H42506 H42506-250R H42506-500R | 9,5 | 0.38 | 3/8 | 19,1 | 0.75 | 3/4 | 275,8 | 4,000 | 1103,2 | 16,000 | 127,0 | 5.00 | 17,2 | 38 | 50 250 500 |
| H42508 H42508-250R H42508-500R | 12,7 | 0.50 | 1/2 | 22,2 | 0.88 | 7/8 | 241,3 | 3,500 | 965,3 | 14,000 | 177,8 | 7.00 | 20,4 | 45 | 50 250 500 |
| H42510 H42510-250R | 15,9 | 0.63 | 5/8 | 25,4 | 1.00 | 1 | 189,6 | 2,750 | 758,4 | 11,000 | 203,2 | 8.00 | 23,1 | 51 | 50 250 |
| H42512 H42512-250R | 19,1 | 0.75 | 3/4 | 29,4 | 1.16 | 1-5/32 | 155,1 | 2,250 | 620,6 | 9,000 | 241,3 | 9.50 | 29,9 | 66 | 50 250 |
| H42516 H42516-250R | 25,4 | 1.00 | 1 | 38,1 | 1.50 | 1-1/2 | 137,9 | 2,000 | 551,6 | 8,000 | 304,8 | 12.00 | 43,1 | 95 | 50 250 |
| H42520 H42520-100 | 31,8 | 1.25 | 1-1/4 | 47,6 | 1.88 | 1-7/8 | 112,0 | 1,625 | 448,2 | 6,500 | 419,1 | 16.50 | 64,4 | 142 | 50 100 |
| H42524 H42524-100 | 38,1 | 1.50 | 1-1/2 | 54,8 | 2.16 | 2-5/32 | 86,2 | 1,250 | 344,8 | 5,000 | 501,0 | 20.00 | 79,8 | 176 | 50 100 |
| H42532 | 50,8 | 2.00 | 2 | 67,5 | 2.66 | 2-21/32 | 77,6 | 1,125 | 310,3 | 4,500 | 635,0 | 25.00 | 94,3 | 208 | 50 |

Inner Tube: Nitrile
(Neoprene -4 only)

Reinforcement:

2 Steel Braids

Cover: Neoprene

Temp. Range: -40°F to
+212°F (-40°C to +100°C)

Typical Application: Most commonly used for high pressure lines on off road construction equipment, farm equipment and other high pressure applications.

¹See pages 25-26 for applicable service pressures, required fire sleeves and qualified hose ends.

**MSHA Accepted
Marine Application
J1942/¹ - Hydraulic
(-4 thru -32) Fuel
(-4 through -20).¹
ABS¹**

| Hose End Reference | Page |
|------------------------------------------|---------|
| C-O-C | |
| 'S' Series (except sizes -10, -24 & -32) | 140 |
| 'U' Series (except sizes -24 & -32) | 141-158 |
| 'Z' Series | 170-185 |
| 430 'U' Series (sizes -12 thru -32) | 159-169 |
| Field Attachable | |
| 425 'N' Series (except size -10) | 211-213 |

APPLICATION DATA
LOW & MEDIUM PRESSURE HOSE
HIGH PRESSURE HOSE
SPECIALTY HOSE
ACCESSORIES & ASSEMBLY INSTRUCTIONS
ADAPTERS & TUBE HOSE ENDS
HOSE ASSEMBLY EQUIPMENT
TECHNICAL DATA

H400 General Purpose High Pressure Hose



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Min. Bend Radius | | Wt. Per 100 Ft. | | Avail. Lengths |
|--------------------------------------|-----------|------|----------|-----------|------|----------|----------------------|-------|---------------------|--------|------------------|------|-----------------|--------|------------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | feet |
| H40004 H40004-250R H40004-500R | 6,4 | 0.25 | 1/4 | 15,2 | 0.60 | 19/32 | 4000 | 280,0 | 16000 | 1120,0 | 50,8 | 2.00 | 0,36 | 0.24 | 50 250 500 |
| H40006 H40006-250R H40006-500R | 9,7 | 0.38 | 3/8 | 19,3 | 0.76 | 49/64 | 4000 | 280,0 | 16000 | 1120,0 | 63,5 | 2.50 | 0,54 | 0.36 | 50 250 500 |
| H40008 H40008-250R H40008-500R | 12,7 | 0.50 | 1/2 | 22,6 | 0.89 | 57/64 | 4000 | 280,0 | 16000 | 1120,0 | 88,9 | 3.50 | 0,64 | 0.43 | 50 250 500 |
| H40010 H40010-250R | 16,0 | 0.63 | 5/8 | 25,7 | 1.01 | 1 | 4000 | 280,0 | 16000 | 1120,0 | 101,6 | 4.00 | 0,90 | 0.60 | 50 250 |
| H40012 H400-250R | 19,1 | 0.75 | 3/4 | 30,0 | 1.18 | 1-3/16 | 4000 | 280,0 | 16000 | 1120,0 | 120,7 | 4.75 | 1,07 | 0.72 | 50 250 |

Inner Tube: Nitrile

Reinforcement:

2 Steel Braids

Cover: Neoprene

Temp. Range:

-40°F to +212°F

(-40°C to +100°C)

Typical Application:

High pressure lines on off-road equipment, farm equipment and other high pressure applications.

Hose End Reference

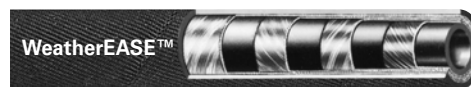
C-O-C

'Z' Series (-12 to -32)

Page

170-185

H430 Very High Pressure Hydraulic Hose



SAE 100R12, ABS, 1/2 SAE Bend Radius*

| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Min. Bend Radius | | Wt. Per 100 Ft. | | Avail. Lengths |
|------------------------------------|-----------|------|----------|-----------|------|----------|----------------------|-------|---------------------|--------|------------------|-----------------|-----------------|--------|------------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | feet |
| H43006 H43006-100 | 9,5 | 0.38 | 3/8 | 20,1 | 0.79 | 53/64 | 275,8 | 4,000 | 1103,2 | 16,000 | 127,0 62,5* | 5.00 2.50* | 21,3 | 47 | 50 100 |
| H43008 H43008-100 H43008-150 | 12,7 | 0.50 | 1/2 | 23,4 | 0.92 | 15/16 | 275,8 | 4,000 | 1103,2 | 16,000 | 177,8 90,0* | 7.00 350* | 25,9 | 57 | 50 100 150 |
| H43010 H43010-100 H43010-150 | 15,9 | 0.63 | 5/8 | 28,2 | 1.11 | 1-7/64 | 275,8 | 4,000 | 1103,2 | 16,000 | 203,2 100,0* | 8.00 4.00* | 31,8 | 70 | 50 100 150 |
| H43012 H43012-100 H43012-150 | 19,1 | 0.75 | 3/4 | 30,5 | 1.20 | 1-7/32 | 275,8 | 4,000 | 1103,2 | 16,000 | 241,3 120,0* | 9.50 4.75* | 40,8 | 90 | 50 100 150 |
| H43016 H43016-100 H43016-150 | 25,4 | 1.00 | 1 | 37,6 | 1.48 | 1-33/64 | 275,8 | 4,000 | 827,4 | 12,000 | 304,8 150,0* | 12.00 6.00* | 54,9 | 121 | 50 100 150 |
| H43020 H43020-100 H43020-150 | 31,8 | 1.25 | 1-1/4 | 46,5 | 1.83 | 1-7/8 | 206,9 | 3,000 | 689,5 | 10,000 | 419,1 210,0* | 16.50 8.25* | 73,9 | 163 | 50 100 150 |
| H43024 H43024-100 H43024-150 | 38,1 | 1.50 | 1-1/2 | 55,0 | 2.18 | 2-1/8 | 172,4 | 2,500 | 689,5 | 10,000 | 501,0 250,0* | 20.00 10.00* | 93,4 | 206 | 50 100 150 |
| H43032 H43032-100 H43032-150 | 50,8 | 2.00 | 2 | 68,3 | 2.69 | 2-21/32 | 172,4 | 2,500 | 689,5 | 10,000 | 635,0 320,0* | 25.00 12.50* | 135,6 | 299 | 50 100 150 |

Inner Tube: Nitrile

Reinforcement: 4 Spiral Steel Plies

Cover: Neoprene

Temp. Range:

-40°F to +250°F
(-40°C to +121°C)

Typical Application: For very high pressure hydraulic lines subjected to pressure surges and flexing. Typical applications include construction, mining, farming and high performance industrial equipment.

MSHA Accepted

**Marine Application
J1942/1 - Hydraulic only¹,
ABS¹**

* Black covered hose only (Q1 2006)

¹See pages 25-26 for applicable service pressures, required fire sleeves and qualified hose ends.

Hose End Reference

C-O-C

430 'U' Series
No Skive

Page

159-169

H430R RhinoHide II™ Very High Pressure Hydraulic Hose



SAE 100R12

| Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Min. Bend Radius | | Wt. Per 100 Ft. | | Avail. Lengths |
|---------------------------------------|-----------|------|----------|-----------|------|----------|----------------------|-------|---------------------|--------|------------------|-------|-----------------|--------|------------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | feet |
| H430R06 H430R06-100 | 9,5 | 0.38 | 3/8 | 20,1 | 0.79 | 53/64 | 275,8 | 4,000 | 1103,2 | 16,000 | 127,0 | 5.00 | 21,3 | 47 | 50 100 |
| H430R08 H430R08-100 H430R08-150 | 12,7 | 0.50 | 1/2 | 23,4 | 0.92 | 15/16 | 275,8 | 4,000 | 1103,2 | 16,000 | 177,8 | 7.00 | 26,8 | 59 | 50 100 150 |
| H430R10 H430R10-100 H430R10-150 | 15,9 | 0.63 | 5/8 | 28,2 | 1.11 | 1-7/64 | 275,8 | 4,000 | 1103,2 | 16,000 | 203,2 | 8.00 | 36,3 | 80 | 50 100 150 |
| H430R12 H430R12-100 H430R12-150 | 19,1 | 0.75 | 3/4 | 30,5 | 1.20 | 1-7/32 | 275,8 | 4,000 | 1103,2 | 16,000 | 241,3 | 9.50 | 41,7 | 92 | 50 100 150 |
| H430R16 H430R16-100 H430R16-150 | 25,4 | 1.00 | 1 | 37,6 | 1.48 | 1-33/64 | 275,8 | 4,000 | 827,4 | 12,000 | 304,8 | 12.00 | 55,3 | 122 | 50 100 150 |
| H430R20 H430R20-100 H430R20-150 | 31,8 | 1.25 | 1-1/4 | 46,5 | 1.83 | 1-7/8 | 206,9 | 3,000 | 689,5 | 10,000 | 419,1 | 16.50 | 74,4 | 164 | 50 100 150 |
| H430R24 H430R24-100 H430R24-150 | 38,1 | 1.50 | 1-1/2 | 55,1 | 2.17 | 2-1/8 | 172,4 | 2,500 | 689,5 | 10,000 | 501,0 | 20.00 | 91,2 | 201 | 50 100 150 |
| H430R32 H430R32-100 H430R32-150 | 50,8 | 2.00 | 2 | 68,3 | 2.69 | 2-21/32 | 172,4 | 2,500 | 689,5 | 10,000 | 635,0 | 25.00 | 133,4 | 294 | 50 100 150 |

Inner Tube: Nitrile

Reinforcement:
Steel Plies

Cover: UHMW

Temp. Range:

-40°F to +250°F
(-40°C to +121°C)

MSHA Accepted

Typical Application:

High abrasion applications. Hydraulic system service with petroleum and water-base fluids, for general industrial service.

Hose End Reference

C-O-C

430 'U' Series
No Skive

Page

159-169

APPLICATION
DATA

LOW & MEDIUM
PRESSURE HOSE

HIGH PRESSURE HOSE

SPECIALTY HOSE

ACCESSORIES &
ASSEMBLY INSTRUCTIONS

ADAPTERS & TUBE
HOSE ENDS

HOSE ASSEMBLY
EQUIPMENT

TECHNICAL DATA

H464 Very High Pressure Hydraulic Hose

EN856 Type 4SH



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Min. Bend Radius | | Wt. Per 100 Ft. | | Avail. Lengths |
|----------------------|-----------|------|----------|-----------|------|----------|----------------------|-------|---------------------|--------|------------------|-------|-----------------|--------|----------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | feet |
| H46412 H46412-100 | 19,1 | 0.75 | 3/4 | 32,5 | 1.27 | 1-9/32 | 15,5 | 6,090 | 1679,6 | 24,360 | 279,4 | 11.00 | 45,4 | 100 | 50 100 |
| H46416 H46416-100 | 25,4 | 1.00 | 1 | 38,1 | 1.50 | 1-1/2 | 15,5 | 5,510 | 1519,7 | 22,040 | 339,9 | 13.38 | 62,6 | 138 | 50 100 |
| H46420 H46420-100 | 31,8 | 1.25 | 1-1/4 | 42,2 | 1.79 | 1-25/32 | 15,5 | 5,075 | 1399,7 | 20,300 | 460,0 | 18.11 | 77,6 | 171 | 50 100 |
| H46424 H46424-100 | 38,1 | 1.50 | 1-1/2 | 54,0 | 2.11 | 2-1/8 | 15,5 | 4,350 | 1199,7 | 17,400 | 560,1 | 22.05 | 99,8 | 220 | 50 100 |
| H46432 H46432-100 | 50,8 | 2.00 | 2 | 68,3 | 2.68 | 2-11/16 | 15,5 | 3,625 | 999,8 | 14,500 | 700,0 | 27.56 | 139,7 | 308 | 50 100 |

Inner Tube: Nitrile**Reinforcement:**
4 Spiral Steel Plies**Cover:** Nitrile**Temp. Range:**-40°F to +212°F
(-40°C to +100°C)

Typical Application: Perfect for hydraulic system service with petroleum and water-based fluids requiring premium pressure performance and durability.

This hose is well suited for injection mold and drill rig applications.

MSHA Accepted

| Hose End Reference | Page |
|------------------------|---------|
| C-O-C | |
| 4SP Series No Skive | 350-359 |

H470 Very High Pressure Hydraulic Hose

SAE 100R13



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Min. Bend Radius | | Wt. Per 100 Ft. | | Avail. Lengths |
|------------------|-----------|------|----------|-----------|------|----------|----------------------|-------|---------------------|--------|------------------|-------|-----------------|--------|----------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | feet |
| H47008 | 12,7 | 0.50 | 1/2 | 24,6 | 0.97 | 31/32 | 344,8 | 5,000 | 1379,0 | 20,000 | 177,8 | 7.00 | 29,5 | 65 | 50 |
| H47012 | 19,1 | 0.75 | 3/4 | 31,8 | 1.26 | 1-1/4 | 344,8 | 5,000 | 1379,0 | 20,000 | 241,3 | 9.50 | 49,4 | 105 | 50 |
| H47016 | 25,4 | 1.00 | 1 | 38,9 | 1.52 | 1-17/32 | 344,8 | 5,000 | 1379,0 | 20,000 | 304,8 | 12.00 | 64,4 | 132 | 50 |
| H47020 | 31,8 | 1.25 | 1-1/4 | 50,0 | 1.96 | 1-31/32 | 344,8 | 5,000 | 1379,0 | 20,000 | 419,1 | 16.50 | 114,3 | 246 | 50 |
| H47024 | 38,1 | 1.50 | 1-1/2 | 57,2 | 2.26 | 2-1/4 | 344,8 | 5,000 | 1379,0 | 20,000 | 501,0 | 20.00 | 147,4 | 316 | 50 |
| H47032 | 50,8 | 2.00 | 2 | 71,4 | 2.80 | 2-13/16 | 344,8 | 5,000 | 1379,0 | 20,000 | 635,0 | 25.00 | 229,1 | 478 | 50 |

Inner Tube: Nitrile**Reinforcement:** Multi-Spiral Steel (8,12,16=4 plies)
(20,24,32=6 plies)**Cover:** Black Vinyl Nitrile**Temp. Range:**-40°F to +250°F
(-40°C to +121°C)

Typical Application: For very high pressure hydraulic lines subjected to pressure surges and flexing. Typical applications include construction, mining, farming and high performance industrial equipment

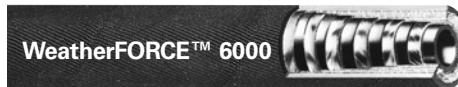
Black covered hose only (Q3 2006)

MSHA Accepted**Marine Application
J1942/1 (-12 thru -20)**

| Hose End Reference | Page |
|--------------------------------------------------------------|---------|
| C-O-C | |
| 470 'E' Series - Black cover only - Sizes -12 thru -32 | 121-125 |
| 4SP Series No Skive | 350-359 |

H485 Very High Pressure Hydraulic Hose

SAE 100R15



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Min. Bend Radius | | Wt. Per 100 Ft. | | Avail. Lengths |
|----------------------|-----------|------|----------|-----------|------|----------|----------------------|-------|---------------------|--------|------------------|-------|-----------------|--------|----------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | |
| H48516 H48516-100 | 25,4 | 1.00 | 1 | 16,7 | 0.66 | 21/32 | 413,7 | 6,000 | 1654,8 | 24,000 | 304,8 | 12.00 | 81,2 | 179 | 50 100 |
| H48520 H48520-100 | 31,8 | 1.25 | 1-1/4 | 49,2 | 1.95 | 1-15/16 | 413,7 | 6,000 | 1654,8 | 24,000 | 419,1 | 16.50 | 110,2 | 243 | 50 100 |
| H48524 H48524-100 | 38,1 | 1.50 | 1-1/2 | 58,7 | 2.30 | 2-5/16 | 413,7 | 6,000 | 1654,8 | 24,000 | 501,0 | 20.00 | 143,8 | 317 | 50 100 |

Inner Tube: Nitrile

Reinforcement:

Multi-Spiral Steel
(-16 4 plies),
(-20, -24 6 plies)

Cover: Vinyl Nitrile

Temp. Range:

-40°F to +250°F
(-40°C to +121°C)

Typical Application:

High-pressure hydraulics, hydrostatic transmissions. For more information on specific fluid applications and high temperature ratings, see pages 349-355.

| Hose End Reference | Page |
|----------------------------|---------|
| C-O-C | |
| 4SP/6SP Series No Skive | 350-359 |

H545 RhinoHide™ Abrasion Resistant Constant Pressure Hydraulic Hose



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Min. Bend Radius | | Wt. Per 100 Ft. | | Avail. Lengths |
|--------------------------------------|-----------|------|----------|-----------|------|----------|----------------------|-------|---------------------|--------|------------------|------|-----------------|--------|------------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | |
| H54504 H54504-250R H54504-500R | 6,4 | 0.25 | 1/4 | 13,5 | 0.53 | 17/32 | 206,9 | 3,000 | 827,4 | 12,000 | 50,8 | 2.00 | 6,4 | 14 | 50 250 500 |
| H54506 H54506-250R H54506-500R | 9,5 | 0.38 | 3/8 | 15,9 | 0.63 | 5/8 | 206,9 | 3,000 | 827,4 | 12,000 | 63,5 | 2.50 | 8,2 | 18 | 50 250 500 |
| H54508 H54508-250R H54508-500R | 12,7 | 0.50 | 1/2 | 20,6 | 0.81 | 13/16 | 206,9 | 3,000 | 827,4 | 12,000 | 88,9 | 3.50 | 14,5 | 32 | 50 250 500 |
| H54510 H54510-250R | 15,9 | 0.63 | 5/8 | 23,8 | 0.94 | 15/16 | 206,9 | 3,000 | 827,4 | 12,000 | 101,6 | 4.00 | 16,8 | 37 | 50 250 |
| H54512 H54512-250R | 19,1 | 0.75 | 3/4 | 28,6 | 1.13 | 1-1/8 | 206,9 | 3,000 | 827,4 | 12,000 | 120,7 | 4.75 | 24,4 | 54 | 50 250 |
| H54516 H54516-250R | 25,4 | 1.00 | 1 | 35,7 | 1.41 | 1-13/32 | 206,9 | 3,000 | 827,4 | 12,000 | 152,4 | 6.00 | 39,0 | 86 | 50 250 |

Inner Tube: Nitrile

Reinforcement:

4-8 Size: 1 Steel Braid;
10-16 Size: 2 Steel Braids

Cover: Abrasion resistant
(woven nylon)

Temp. Range:

-40°F to +250°F
(-40°C to +121°C)

Typical Application: 3,000 PSI constant working pressure hose with abrasion resistant cover. Ideal for logging, construction, mining and other off highway applications.

| Hose End Reference | Page |
|---------------------------------------------|---------|
| C-O-C | |
| 'S' Series (sizes -4, -6, -8 & -12 only) | 140 |
| 'U' Series (-4 to -12 only) | 141-158 |
| 430 'U' Series (size -16 only) | 159-169 |

H6008 Boston Yellow Jack®

BOSTON CONCORD YELLOW JACK AIR



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Wt. Per 100 Ft. | | Avail. Lengths |
|--------------------------|-----------|------|----------|-----------|------|----------|----------------------|-------|---------------------|-------|-----------------|--------|----------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | Kg/m | lbs/ft | feet |
| H600816 H600816-100 | 25,4 | 1.00 | 1 | 46,0 | 1.81 | 1-13/16 | 69,0 | 1,000 | 275,8 | 4,000 | 38,6 | 85 | 50 100 |
| H600824* H600824-100* | 38,1 | 1.50 | 1-1/2 | 54,0 | 2.13 | 2-1/8 | 41,4 | 600 | 165,5 | 2,400 | 75,3 | 166 | 50 100 |
| H600832* H600832-100* | 50,8 | 2.00 | 2 | 67,5 | 2.66 | 2-21/32 | 41,4 | 600 | 165,5 | 2,400 | 93,4 | 206 | 50 100 |
| H600840* H600840-100* | 63,5 | 2.50 | 2-1/2 | 80,1 | 3.16 | 3-5/32 | 27,6 | 400 | 110,3 | 1,600 | 108,8 | 240 | 50 100 |
| H600848* H600848-100* | 76,2 | 3.00 | 3 | 94,4 | 3.72 | 3-23/32 | 27,6 | 400 | 110,3 | 1,600 | 140,6 | 310 | 50 100 |

Inner Tube: Nitrile (RMA Class A)

Reinforcement: 1 or 2 Steel Braids

Cover: Yellow Neoprene/
Perforated MSHA Accepted

Temp. Range:
-40°F to +200°F
(-40°C to +93°C)

Typical Application: On air operated construction equipment (jack-hammer, etc.) drills, boring and mining equipment.

* 2 Braids

Hose End Reference

C-O-C

430 'U' Series

Page

159-169

H6009 Boston Bulldog Gold®



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Wt. Per 100 Ft. | | Avail. Lengths |
|------------------------|-----------|------|----------|-----------|------|----------|----------------------|-----|---------------------|-------|-----------------|--------|----------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | Kg/m | lbs/ft | feet |
| H600920 H600920-100 | 25,4 | 1.00 | 1 | 46,0 | 1.81 | 1-13/16 | 55,2 | 800 | 220,6 | 3,200 | 51,7 | 114 | 50 100 |
| H600924 H600924-100 | 38,1 | 1.50 | 1-1/2 | 54,0 | 2.13 | 2-1/8 | 41,4 | 600 | 165,5 | 2,400 | 66,2 | 146 | 50 100 |
| H600932 H600932-100 | 50,8 | 2.00 | 2 | 67,5 | 2.66 | 2-21/32 | 41,4 | 600 | 165,5 | 2,400 | 95,3 | 210 | 50 100 |
| H600940 H600940-100 | 63,5 | 2.50 | 2-1/2 | 80,1 | 3.16 | 3-5/32 | 41,4 | 600 | 165,5 | 2,400 | 113,4 | 250 | 50 100 |
| H600948 H600948-100 | 76,2 | 3.00 | 3 | 94,4 | 3.72 | 3-23/32 | 41,4 | 600 | 165,5 | 2,400 | 142,9 | 315 | 50 100 |
| H600964 H600964-100 | 101,6 | 4.00 | 4 | 127,0 | 5.00 | 5 | 34,5 | 500 | 137,9 | 1,000 | 241,3 | 532 | 50 100 |

Inner Tube: Nitrile (RMA Class A)

Reinforcement: 1 or 2 Steel Braids

Cover: Carboxylated Nitrile/
Perforated

Temp. Range:
-40°F to +250°F
(-40°C to +121°C)

Typical Application: On air operated construction equipment (jack-hammer, etc.) drills, boring and mining equipment, abrasion-resistant cover..

Hose End Reference

C-O-C

430 'U' Series

Page

159-169

H9622 Boston Contractors Air®



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Wt. Per 100 Ft. | | Avail. Lengths |
|------------------------|-----------|------|----------|-----------|------|----------|----------------------|-------|---------------------|-------|-----------------|--------|----------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | Kg/m | lbs/ft | feet |
| H962208 H962208-100 | 12,7 | 0.50 | 1/2 | 23,8 | 0.94 | 15/16 | 69,0 | 1,000 | 275,8 | 4,000 | 15,4 | 34 | 50 100 |
| H962212 H962212-100 | 19,1 | 0.75 | 3/4 | 30,2 | 1.19 | 1-3/16 | 69,0 | 1,000 | 275,8 | 4,000 | 20,0 | 44 | 50 100 |
| H962216 H962216-100 | 25,4 | 1.00 | 1 | 38,1 | 1.50 | 1-1/2 | 58,6 | 850 | 234,4 | 3,400 | 27,7 | 61 | 50 100 |
| H962220 H962220-100 | 31,8 | 1.25 | 1-1/4 | 43,7 | 1.72 | 1-23/32 | 34,5 | 500 | 137,9 | 2,000 | 36,8 | 81 | 50 100 |
| H962224 H962224-100 | 38,1 | 1.50 | 1-1/2 | 54,0 | 2.13 | 2-1/8 | 34,5 | 500 | 137,9 | 2,000 | 68,1 | 150 | 50 100 |
| H962232 H962232-100 | 50,8 | 2.00 | 2 | 67,5 | 2.66 | 2-21/32 | 34,5 | 500 | 137,9 | 2,000 | 92,7 | 204 | 50 100 |

Inner Tube: Nitrile (RMA Class A)

Reinforcement: 1 or 2 Steel Braids

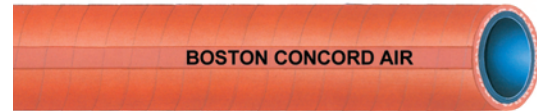
Cover: Neoprene/Perforated

Temp. Range:
-40°F to +200°F
(-40°C to +93°C)

Typical Application: On air operated construction equipment (jack-hammer, etc.) drills, boring and mining equipment.

| Hose End Reference | Page |
|--------------------|---------|
| C-O-C | |
| 430 'U' Series | 159-169 |

H6002 Boston Concord Air®



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Press. (PSI) | | Min. Burst Pressure | | Wt. Per 100 Ft. | | Avail. Lengths |
|------------------------|-----------|------|----------|-----------|------|----------|----------------------|-----|---------------------|-------|-----------------|--------|----------------|
| | mm | in | fraction | mm | in | fraction | bar | psi | bar | psi | Kg/m | lbs/ft | feet |
| H600208 H600208-100 | 12,7 | 0.50 | 1/2 | 23,1 | 0.91 | 29/32 | 27,6 | 400 | 110,3 | 1,600 | 14,1 | 31 | 50 100 |
| H600212 H600212-100 | 19,1 | 0.75 | 3/4 | 31,2 | 1.19 | 1-3/16 | 27,6 | 400 | 110,3 | 1,600 | 20,9 | 46 | 50 100 |
| H600216 H600216-100 | 25,4 | 1.00 | 1 | 38,1 | 1.50 | 1-1/2 | 27,6 | 400 | 110,3 | 1,600 | 30,4 | 67 | 50 100 |
| H600220 H600220-100 | 31,8 | 1.25 | 1-1/4 | 46,0 | 1.81 | 1-13/16 | 27,6 | 400 | 110,3 | 1,600 | 39,0 | 86 | 50 100 |
| H600224 H600224-100 | 38,1 | 1.50 | 1-1/2 | 52,4 | 2.06 | 2-1/16 | 27,6 | 400 | 110,3 | 1,600 | 44,9 | 99 | 50 100 |
| H600232 H600232-100 | 50,8 | 2.00 | 2 | 66,7 | 2.63 | 2-5/8 | 20,1 | 300 | 82,7 | 1,200 | 57,6 | 127 | 50 100 |

Inner Tube: Nitrile

Reinforcement: Fiber, 2 Braid or 2 Plies

Cover: 1/2", 3/4" & 1" Perforated Neoprene
1-1/4", 1-1/2" & 2" Perforated Vinyl Nitrile

Temp. Range:
-40°F to +200°F
(-40°C to +93°C)

Typical Application: On air operated construction equipment (jack-hammer, etc.) drills, boring and mining equipment. Can be used to transfer water.

| Hose End Reference | Page |
|-----------------------------|---------|
| C-O-C | |
| 'U' Series (-08 & -20) | 141-158 |
| 430 'U' Series (-24 to -32) | 159-169 |

APPLICATION DATA
LOW & MEDIUM PRESSURE HOSE
HIGH PRESSURE HOSE
SPECIALTY HOSE
ACCESSORIES & ASSEMBLY INSTRUCTIONS
ADAPTERS & TUBE HOSE ENDS
HOSE ASSEMBLY EQUIPMENT
TECHNICAL DATA