

Diamond Advantage:

- Higher Pressures
- Improved Temperatures
- Improved Abrasion Resistance



EATON

Powering Business Worldwide

Raise Your Standards with Eaton's Weatherhead Diamond Advantage Hose Products

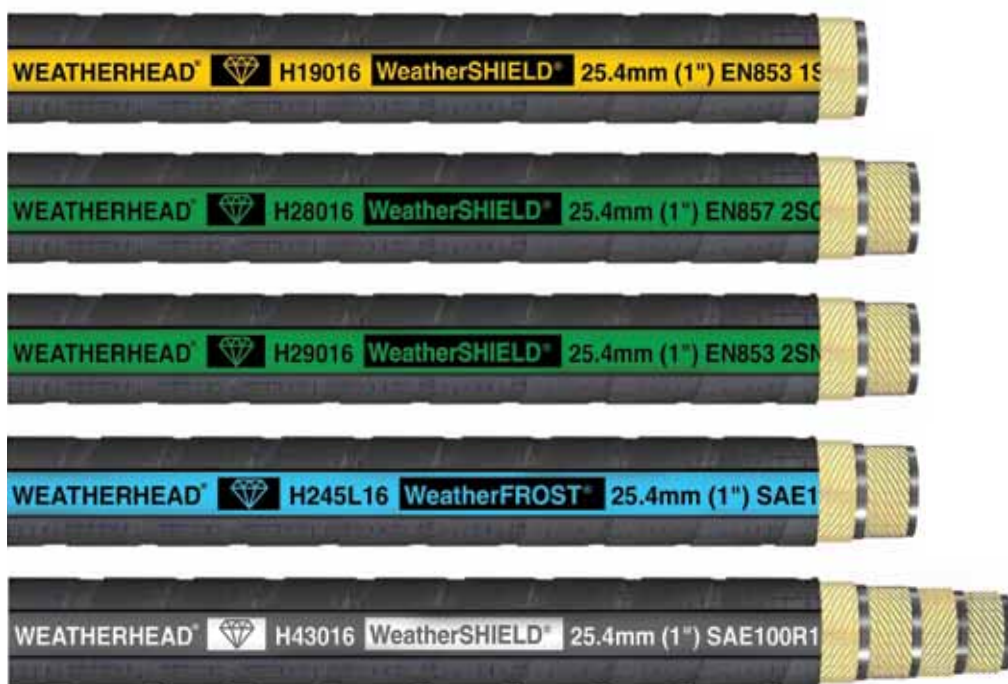
Our improved designs have enabled us to increase pressures on select Weatherhead hose styles by an average of +24% over the competition.

Improvements in higher hose operating temperatures are the direct result of Eaton's advancements in rubber technology. Eaton now has the highest temperature ratings compared to similar competitive products designed to meet EN specifications. Select Weatherhead braided and spiral hose part numbers now meet -40°C to +127°C (-40°F to +260°F).

Hose covers have been improved for better protection against abrasion, and are now more abrasion resistant than traditional rubber covers.

Benefits to you:

- Higher pressures and temperatures and better abrasion resistance can extend the life of a hydraulic hose in a typical application.
- Hose products to meet market needs with a better long-term value.
- Meet the requirements of today's higher pressure hydraulic systems being introduced into the market.



H190 Hydraulic Hose meets and exceeds

SAE 100R1 AT Type S, EN 853 1SN, ISO 1436-1 Type 1SN Performance



Diamond Advantage

- Pressure
- Temperature
- Abrasion Resistance



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Pressure | | Minimum Burst Pressure | | Minimum Bend Radius | | Weight | | Available Lengths |
|-----------------------|-----------|------|----------|-----------|------|----------|------------------|-------|------------------------|--------|---------------------|-------|--------|--------|-------------------|
| | mm | in | Fraction | mm | in | Fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | |
| H19004 H19004-250R | 6,4 | 0.25 | 1/4 | 13,5 | 0.53 | 17/32 | 255 | 3,700 | 1,020 | 14,800 | 101,6 | 4.00 | 0,24 | 0.16 | 50 250 |
| H19006 H19006-250R | 9,5 | 0.38 | 3/8 | 17,5 | 0.69 | 11/16 | 235 | 3,400 | 940 | 13,600 | 127,0 | 5.00 | 0,37 | 0.25 | 50 250 |
| H19008 H19008-250R | 12,7 | 0.50 | 1/2 | 20,6 | 0.81 | 13/16 | 200 | 2,900 | 800 | 11,600 | 177,8 | 7.00 | 0,45 | 0.30 | 50 250 |
| H19010 H19010-250R | 15,9 | 0.63 | 5/8 | 23,8 | 0.94 | 15/16 | 130 | 1,885 | 520 | 7,540 | 203,2 | 8.00 | 0,52 | 0.35 | 50 250 |
| H19012 H19012-250R | 19,1 | .075 | 3/4 | 27,8 | 1.09 | 1-3/32 | 138 | 2,000 | 552 | 8,000 | 241,3 | 9.50 | 0,67 | 0.45 | 50 250 |
| H19016 H19016-250R | 25,4 | 1.00 | 1 | 35,7 | 1.41 | 1-13/32 | 103 | 1,500 | 412 | 6,000 | 304,8 | 12.00 | 1,01 | 0.68 | 50 250 |
| H19020 | 31,8 | 1.25 | 1-1/4 | 43,4 | 1.71 | 1-3/4 | 69 | 1,000 | 276 | 4,000 | 419,1 | 16.50 | 1,31 | 0.88 | 50 |
| H19024 | 38,1 | 1.50 | 1-1/2 | 50,6 | 1.99 | 2 | 52 | 750 | 208 | 3,000 | 508,0 | 20.00 | 1,56 | 1.05 | 50 |
| H19032 | 50,8 | 2.00 | 2 | 64,0 | 2.52 | 2-1/2 | 41 | 600 | 164 | 2,400 | 635,0 | 25.00 | 1,95 | 1.31 | 50 |

Inner Tube:

Synthetic rubber tube

Reinforcement:

1 Steel Braid

Cover:

WeatherSHIELD Synthetic rubber cover

Hose Ends:

Z Series

Typical Application:

Hydraulic system service with petroleum and water-based fluids, for general industrial service.

Temp. Range:

Petroleum Based Hydraulic Fluids:
-40°C to +127°C
(-40°F to +260°F)

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

Water:
0°C to 70°C
(+32°F to +158°F).

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

H280 Hydraulic Hose meets and exceeds

SAE 100R16 Type S, EN857 2SC, ISO 11237-1 Type 2SC Performance



Diamond Advantage

- Pressure
- Temperature
- Abrasion Resistance



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Pressure | | Minimum Burst Pressure | | Minimum Bend Radius | | Weight | | Available Lengths |
|------------------|-----------|------|----------|-----------|------|----------|------------------|-------|------------------------|--------|---------------------|-------|--------|--------|-------------------|
| | mm | in | Fraction | mm | in | Fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | feet |
| H28004 | 6,4 | 0.25 | 1/4 | 13,5 | 0.53 | 17/32 | 448 | 6,500 | 1792 | 26,000 | 50,8 | 2.00 | 0,33 | 0.22 | 50 |
| H28004-250R | | | | | | | | | | | | | | | 250 |
| H28004-500R | | | | | | | | | | | | | | | 500 |
| H28006 | 9,5 | 0.38 | 3/8 | 17,5 | 0.69 | 11/16 | 366 | 5,300 | 1464 | 21,200 | 63,5 | 2.50 | 0,43 | 0.29 | 50 |
| H28006-250R | | | | | | | | | | | | | | | 250 |
| H28006-500R | | | | | | | | | | | | | | | 500 |
| H28008 | 12,7 | 0.50 | 1/2 | 20,6 | 0.81 | 13/16 | 310 | 4,500 | 1240 | 18,000 | 88,9 | 3.50 | 0,58 | 0.39 | 50 |
| H28008-250R | | | | | | | | | | | | | | | 250 |
| H28008-500R | | | | | | | | | | | | | | | 500 |
| H28010 | 15,9 | 0.63 | 5/8 | 23,8 | 0.94 | 15/16 | 276 | 4,000 | 1104 | 16,000 | 101,6 | 4.00 | 0,65 | 0.44 | 50 |
| H28010-250R | | | | | | | | | | | | | | | 250 |
| H28012 | 19,1 | 0.75 | 3/4 | 27,8 | 1.09 | 1-3/32 | 241 | 3,500 | 964 | 14,000 | 120,7 | 4.75 | 0,79 | 0.53 | 50 |
| H28012-250R | | | | | | | | | | | | | | | 250 |
| H28016 | 25,4 | 1.00 | 1 | 35,7 | 1.41 | 1-13/32 | 207 | 3,000 | 828 | 12,000 | 152,4 | 6.00 | 1,07 | 0.72 | 50 |
| H28016-250R | | | | | | | | | | | | | | | 250 |
| H28020 | 31,8 | 1.25 | 1-1/4 | 41,9 | 1.65 | 1-13/20 | 172 | 2,500 | 688 | 10,000 | 209,6 | 8.25 | 1,62 | 1.09 | 50 |
| H28020-150 | | | | | | | | | | | | | | | 150 |
| H28024 | 38,1 | 1.50 | 1-1/2 | 51,6 | 2.03 | 2 | 138 | 2,000 | 552 | 8,000 | 254,0 | 10.00 | 2,08 | 1.40 | 50 |
| H28024-150 | | | | | | | | | | | | | | | 150 |
| H28032 | 50,8 | 2.00 | 2 | 64,3 | 2.53 | 2-1/2 | 110 | 1,600 | 440 | 6,400 | 317,5 | 12.50 | 2,83 | 1.90 | 50 |

Inner Tube:

Synthetic rubber tube

Reinforcement:

2 Steel Braids

Cover:

WeatherSHIELD Synthetic rubber cover

Hose Ends:

Z Series

Typical Application:

Hydraulic system service with petroleum and water-based fluids, for general industrial service.

Temp. Range:

Petroleum based Hydraulic Fluids:
-40°C to +127°C
(-40°F to +260°F)

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

MSHA Accepted, Marine Application J1942/1 - Hydraulic only

H290 Hydraulic Hose meets and exceeds

SAE 100R2AT Type S, EN853 2SN, ISO 1436-1 Type 2SN Performance



Diamond Advantage

- Pressure
- Temperature
- Abrasion Resistance



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Pressure | | Minimum Burst Pressure | | Minimum Bend Radius | | Weight | | Available Lengths |
|------------------|-----------|------|----------|-----------|------|----------|------------------|-------|------------------------|--------|---------------------|-------|--------|--------|-------------------|
| | mm | in | Fraction | mm | in | Fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | |
| H29004 | 6,4 | 0.25 | 1/4 | 15,1 | 0.59 | 19/32 | 448 | 6,500 | 1792 | 26,000 | 101,6 | 4.00 | 0,39 | 0.26 | 50 |
| H29004-250R | | | | | | | | | | | | | | | 250 |
| H29004-500R | | | | | | | | | | | | | | | 500 |
| H29006 | 9,5 | 0.38 | 3/8 | 19,1 | 0.75 | 3/4 | 400 | 5,800 | 1600 | 23,200 | 127,0 | 5.00 | 0,57 | 0.38 | 50 |
| H29006-250R | | | | | | | | | | | | | | | 250 |
| H29006-500R | | | | | | | | | | | | | | | 500 |
| H29008 | 12,7 | 0.50 | 1/2 | 22,2 | 0.88 | 7/8 | 345 | 5,000 | 1380 | 20,000 | 177,8 | 7.00 | 0,68 | 0.46 | 50 |
| H29008-250R | | | | | | | | | | | | | | | 250 |
| H29008-500R | | | | | | | | | | | | | | | 500 |
| H29010 | 15,9 | 0.63 | 5/8 | 25,4 | 1.00 | 1 | 276 | 4000 | 1104 | 16,000 | 203,2 | 8.00 | 0,80 | 0.54 | 50 |
| H29010-250R | | | | | | | | | | | | | | | 250 |
| H29012 | 19,1 | 0.75 | 3/4 | 29,4 | 1.16 | 1-5/32 | 241 | 3,500 | 964 | 14,000 | 241,3 | 9.50 | 0,98 | 0.66 | 50 |
| H29012-250R | | | | | | | | | | | | | | | 250 |
| H29016 | 25,4 | 1.00 | 1 | 38,1 | 1.50 | 1-1/2 | 207 | 3,000 | 828 | 12,000 | 304,8 | 12.00 | 1,50 | 1.01 | 50 |
| H29016-250R | | | | | | | | | | | | | | | 250 |
| H29020 | 31,8 | 1.25 | 1-1/4 | 48,8 | 1.92 | 1-7/8 | 172 | 2,500 | 688 | 10,000 | 419,1 | 16.50 | 2,29 | 1.54 | 50 |
| H29020-150 | | | | | | | | | | | | | | | 150 |
| H29024 | 38,1 | 1.50 | 1-1/2 | 54,6 | 2.15 | 2-5/32 | 138 | 2,000 | 552 | 8,000 | 508,0 | 20.00 | 2,50 | 1.68 | 50 |
| H29032 | 50,8 | 2.00 | 2 | 63,8 | 2.51 | 2-1/2 | 110 | 1,600 | 440 | 6,400 | 635,0 | 25.00 | 3,30 | 2.22 | 50 |

Inner Tube:

Synthetic rubber tube

Reinforcement:

2 Steel Braids

Cover:

WeatherSHIELD Synthetic rubber cover

Hose Ends:

Z Series

Typical Application:

Hydraulic system service with petroleum and water-based fluids, for general industrial service.

Temp. Range:

Petroleum based Hydraulic Fluids:
-40°C to +127°C
(-40°F to +260°F)

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

MSHA Accepted

Marine Application J1942/1 - Hydraulic only

Low Temperature Hose

H245L WeatherFROST™ meets and exceeds

SAE 100R16 Type S, EN857 Type 2SC



Diamond Advantage

- Pressure
- Temperature
- Abrasion Resistance



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Pressure | | Minimum Burst Pressure | | Minimum Bend Radius | | Weight | | Available Lengths |
|-------------------------|-----------|------|----------|-----------|------|----------|------------------|-------|------------------------|--------|---------------------|-------|--------|--------|-------------------|
| | mm | in | Fraction | mm | in | Fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | |
| H245L04 H245L04-250R | 6,4 | 0.25 | 1/4 | 14,2 | 0.56 | 9/16 | 414 | 6,000 | 1656 | 24,000 | 50,8 | 2.00 | 0,30 | 0.20 | 50 250 |
| H245L06 H245L06-250R | 9,7 | 0.38 | 3/8 | 17,3 | 0.68 | 11/16 | 345 | 5,000 | 1380 | 20,000 | 63,5 | 2.50 | 0,40 | 0.27 | 50 250 |
| H245L08 H245L08-250R | 12,7 | 0.50 | 1/2 | 20,8 | 0.82 | 53/64 | 310 | 4,500 | 1240 | 18,000 | 88,9 | 3.50 | 0,58 | 0.39 | 50 250 |
| H245L10 H245L10-250R | 15,9 | 0.63 | 5/8 | 24,9 | 0.98 | 63/64 | 276 | 4,000 | 1104 | 16,000 | 101,6 | 4.00 | 0,74 | 0.50 | 50 250 |
| H245L12 H245L12-250R | 19,1 | 0.75 | 3/4 | 28,4 | 1.12 | 1-1/8 | 241 | 3,500 | 964 | 14,000 | 120,7 | 4.75 | 0,92 | 0.62 | 50 250 |
| H245L16 | 25,4 | 1.00 | 1 | 35,7 | 1.41 | 1-13/32 | 193 | 2,800 | 772 | 11,200 | 152,4 | 6.00 | 1,22 | 0.82 | 50 |
| H245L20 | 31,8 | 1.25 | 1-1/4 | 43,4 | 1.71 | 1-23/32 | 159 | 2,300 | 636 | 9,200 | 209,6 | 8.25 | 1,60 | 1.07 | 50 |
| H245L24 | 38,1 | 1.50 | 1-1/2 | 51,6 | 2.03 | 2-1/16 | 138 | 2,000 | 552 | 8,000 | 254,0 | 10.00 | 2,11 | 1.42 | 50 |
| H245L32 | 50,8 | 2.00 | 2 | 63,8 | 2.51 | 2-1/2 | 103 | 1,500 | 412 | 6,000 | 317,5 | 12.50 | 2,80 | 1.88 | 50 |

Inner Tube:

Weatherhead brand exclusive low temperature compound tube

Reinforcement:

2 Wire Braid

Cover:

WeatherSHIELD Synthetic rubber cover

Hose Ends:

Z Series

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.

Temp. Range:

-57°C to +100°C
(-70°F to +212°F)

MSHA Accepted

High Pressure Spiral Hose

H430 Hydraulic Hose meets and exceeds

SAE 100R12, EN856 Type R12, DIN856/4SP Performance (sizes -8 thru -16)



Diamond Advantage

- Pressure
- Temperature
- Abrasion Resistance



| # Part Number | Hose I.D. | | | Hose O.D. | | | Working Pressure | | Minimum Burst Pressure | | Minimum Bend Radius | | Weight | | Available Lengths |
|------------------------------------|-----------|------|----------|-----------|------|----------|------------------|-------|------------------------|--------|---------------------|-------|--------|--------|-------------------|
| | mm | in | Fraction | mm | in | Fraction | bar | psi | bar | psi | mm | in | Kg/m | lbs/ft | |
| H43006 H43006-100 | 9,5 | 0.38 | 3/8 | 20,1 | 0.79 | 53/64 | 448 | 6,500 | 1792 | 26,000 | 62,5 | 2.50 | 0,70 | 0.47 | 50 100 |
| H43008 H43008-100 H43008-150 | 12,7 | 0.50 | 1/2 | 23,4 | 0.92 | 15/16 | 414 | 6,000 | 1656 | 24,000 | 90,0 | 3.50 | 0,88 | 0.59 | 50 100 150 |
| H43010 H43010-100 H43010-150 | 15,9 | 0.63 | 5/8 | 28,2 | 1.11 | 1-7/64 | 414 | 6,000 | 1656 | 24,000 | 100,0 | 4.00 | 1,03 | 0.69 | 50 100 150 |
| H43012 H43012-100 H43012-150 | 19,1 | 0.75 | 3/4 | 30,5 | 1.20 | 1-7/32 | 379 | 5,500 | 1516 | 22,000 | 120,0 | 4.75 | 1,37 | 0.92 | 50 100 150 |
| H43016 H43016-100 H43016-150 | 25,4 | 1.00 | 1 | 37,6 | 1.48 | 1-33/64 | 352 | 5,100 | 1408 | 20,400 | 150,0 | 6.00 | 1,82 | 1.22 | 50 100 150 |
| H43020 H43020-100 H43020-150 | 31,8 | 1.25 | 1-1/4 | 46,5 | 1.83 | 1-7/8 | 310 | 4,500 | 1240 | 18,000 | 210,0 | 8.25 | 2,44 | 1.64 | 50 100 150 |
| H43024 H43024-100 H43024-150 | 38,1 | 1.50 | 1-1/2 | 55,0 | 2.18 | 2-1/8 | 276 | 4,000 | 1104 | 16,000 | 250,0 | 10.00 | 3,12 | 2.10 | 50 100 150 |
| H43032 H43032-100 | 50,8 | 2.00 | 2 | 68,3 | 2.69 | 2-21/32 | 276 | 4,000 | 1104 | 16,000 | 320,0 | 12.50 | 4,18 | 2.81 | 50 100 |

Inner Tube:
Synthetic rubber tube

Reinforcement:
4 Spiral Steel Plies

Cover:
WeatherSHIELD Synthetic rubber cover

Hose Ends:
430U Series

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.

Temp. Range:
-40°C to +127°C
(-40°F to +260°F)

**MSHA Accepted
Marine Application J1942/1
Hydraulic Only, ABS**

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