

Diamond Advantage:

- Higher Pressures
- Improved Temperatures
- Improved Abrasion Resistance



EATON

Powering Business Worldwide

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

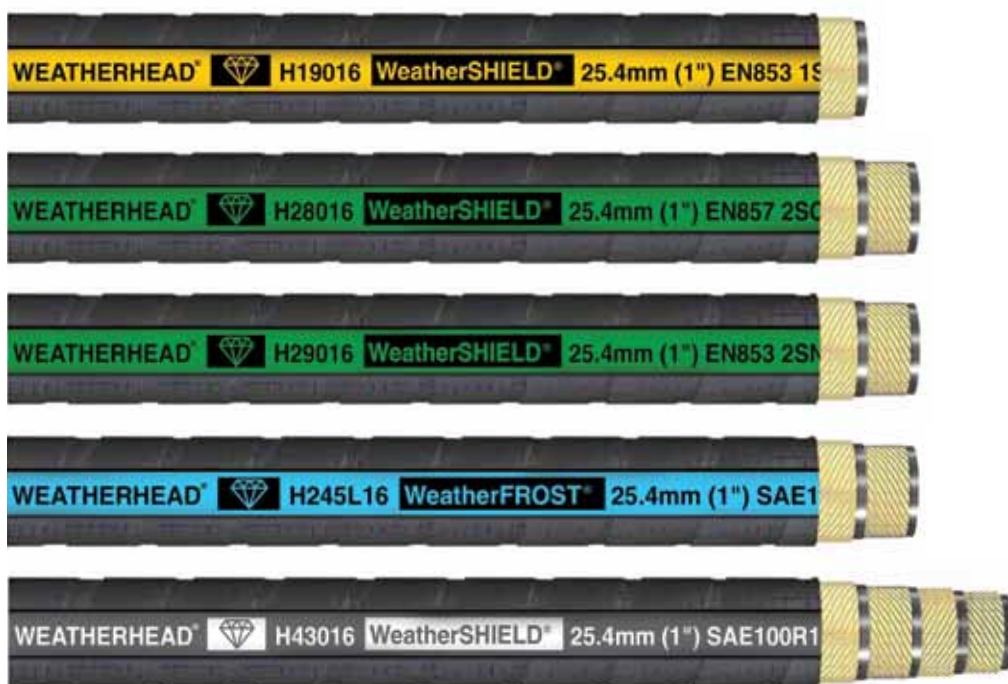
Our improved designs have enabled us to increase pressures on select Weatherhead hose styles by an average of +24% over the competition.

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**

Eaton
Hydraulics Group USA
14615 Lone Oak Road
Eden Prairie, MN 55344
USA
Tel: 952-937-9800
Fax: 952-294-7722
www.eaton.com/hydraulics

Eaton
Hydraulics Group Europe
Route de la Longeraie 7
1110 Morges
Switzerland
Tel: +41 (0) 21 811 4600
Fax: +41 (0) 21 811 4601

Eaton
Hydraulics Group Asia Pacific
Eaton Building
4th Floor, No. 3 Lane 280 Linhong Rd.
Changning District
Shanghai 200335
China
Tel: (+86 21) 5200 0099
Fax: (+86 21) 5200 0400