

Hydraulic hose

Braided hose – Premium

SAE100R1, EN857,
SAE100R17, EN853

H180	B-6
H145R	B-7
H190H	B-8

SAE100R16, EN857,
SAE100R2, EN853

H280	B-9
H290H	B-10
H245L	B-11

Spiral hose – Premium

SAE100R12, EN856, DIN856

H430	B-12
H430R	B-13
EC525	B-14

SAE100R13, EN856

H471	B-15
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SAE100R15, EN856

EC600	B-16
EC810	B-17
EC850	B-18

Braided hose – Other

H190	B-19
H290	B-20
H145	B-21
H545	B-22
H400	B-23
H421 WeatherJACK	B-24
EC230	B-24
H345	B-25

Spiral hose – Other

H464	B-26
EC910	B-26

Suction hose – Specialty

H039	B-27
H039H	B-28

Thermoplastic hose

3130	B-29
3740	B-30
37AL	B-31
3R80	B-32
3E80	B-32
30CT	B-33
3V10	B-34
3VE0	B-35
3130, 37AL and 30CT	B-36



Hydraulic hose

Braided hose – Premium

B

Braided hose – Premium

SAE 100R1, SAE 100R17, EN853, EN857

H180 Premium B-6



H145R Premium abrasion B-7

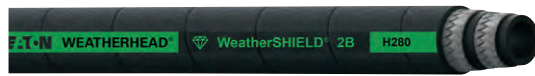


H190H Premium high temperature B-8

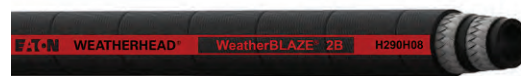


SAE 100R2, SAE 100R16, EN853, EN857

H280 Premium B-9



H290H Premium high temperature B-10



H245L Premium low temperature B-11



Spiral hose – Premium

SAE 100R12, EN856, DIN856

H430 Premium **B-12**



H430R Premium abrasion **B-13**



EC525 Premium high temperature **B-14**



SAE 100R13, EN856

H471 Premium **B-15**

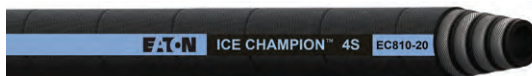


SAE 100R15, EN856

EC600 Premium **B-16**



EC810 Premium low temperature **B-17**



EC850 500 bar premium **B-18**



Hydraulic hose

Braided hose – Other, Spiral hose – Other, Suction hose

B

Braided hose – Other

H190 SAE 100R1, EN853 B-19



H290 SAE 100R2, EN853 B-20



H145 SAE 100R17 B-21



H545 Abrasion resistant B-22



H400 SAE 100R19 B-23



H421 Jack hose B-24



EC230 SAE 100R2 large bore B-24



H345 Pressure washer hose B-25



Spiral hose – Other

H464 EN856 Type 4SH B-26



EC910 Waterblast B-26



Suction hose

H039 SAE 100R4 B-27



H039H SAE 100R4 high temperature B-28



Thermoplastic hose

SAE 100R7

3130 Medium pressure **B-29**



3740 Medium pressure, non-conductive **B-30**



37AL Medium pressure, non-conductive **B-31**



SAE 100R8

3R80 High pressure **B-32**



3E80 High pressure, non-conductive **B-32**



SAE 100R18

30CT Constant pressure **B-33**



Extreme pressure

3V10 Very high pressure **B-34**



3VE0 Very high pressure, non-conductive **B-35**



3130, 37AL and 30CT Twin-line, tri-line, multi-line **B-36**

Hydraulic hose

Braided hose - Premium

B

H180

WeatherSHIELD

Exceeds SAE 100R1 Type S, EN857 1SC



Diamond advantage

- Pressure
- Temperature
- Abrasion resistance

#	Hose I.D.			Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Package length
	Part number	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
H18004 H18004-250R H18004-500R	6	6,4	0.25	12,9	0.51	255	3,700	1,020	14,800	50	1.97	0,14	0.09	50 250 500
H18006 H18006-250R H18006-500R	10	9,5	0.38	16,3	0.64	235	3,400	940	13,600	63	2.48	0,22	0.15	50 250 500
H18008 H18008-250R H18008-500R	12	12,7	0.50	19,9	0.78	221	3,200	883	12,800	90	3.54	0,29	0.20	50 250 500
H18010 H18010-250R	16	15,9	0.63	22,3	0.88	140	2,025	559	8,100	100	3.94	0,28	0.19	50 250
H18012 H18012-250R	19	19,0	0.75	26,0	1.02	138	2,000	552	8,000	120	4.72	0,37	0.25	50 250
H18016 H18016-250R	25	25,4	1.00	34,0	1.34	103	1,500	414	6,000	150	5.91	0,54	0.36	50 250
H18020	31	31,8	1.25	41,5	1.63	69	1,000	276	4,000	210	8.27	0,68	0.45	50
H18024	38	38,1	1.50	47,9	1.89	52	750	207	3,000	250	9.84	0,80	0.54	50
H18032	51	50,8	2.00	64,0	2.52	41	600	166	2,400	315	12.40	1,29	0.87	50

Construction

Tube: Nitrile

Reinforcement:

1 wire braid

Cover: WeatherSHIELD

Operating parameters

-46°C to +127°C
(-50°F to +260°F)

Application

- Low & medium pressure hydraulic systems, petroleum & water-based fluids
- Construction equipment, and agriculture equipment

For more information on agency listings, specific fluid applications and high temperature ratings see section A.

MSHA approved

Fitting reference	Page
Crimp	
"Z" series	H-29

H145R

RHINOHIDE II Abrasion resistant Constant pressure

Meets or exceeds: SAE 100R17



# Part number	Hose I.D.			Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Package length
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft	ft
H145R04 H145R04-250R	6	6,4	0.25	12,7	0.50	210	3,050	840	12,200	50	1.97	0,22	0.15	50 250
H145R06 H145R06-250R H14506-500R	10	9,5	0.38	16,6	0.65	210	3,050	840	12,200	65	2.56	0,34	0.23	50 250 500
H145R08 H145R08-250R	12	12,7	0.50	20,8	0.82	210	3,050	840	12,200	90	3.54	0,48	0.32	50 250
H145R10	16	15,9	0.62	24,9	0.98	210	3,050	840	12,200	100	3.94	0,71	0.48	50
H145R12 H145R12-250R	19	19,0	0.75	28,4	1.12	210	3,050	840	12,200	120	4.72	0,89	0.60	50 250
H145R16 H145R16-250R	25	25,4	1.00	37,1	1.46	210	3,050	840	12,200	150	5.91	1,43	0.96	50 250

Construction

Tube: Nitrile

Reinforcement:

4-8 size: 1 wire braid;
10-16 size: 2 wire braids

Cover: UHMWPE

Operating parameters

-40°C to +100°C
(-40°F to +212°F)

Application

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

For more information on agency listings, specific fluid applications and high temperature ratings see section A.

Fitting reference	Page
Crimp	
"Z" series	H-29

Hydraulic hose

Braided hose - Premium

B

H190H WeatherBLAZE

Meets or exceeds: SAE 100R1 Type S, EN853 1SN



# Part number	Hose I.D.			Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Package length
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft	feet
H190H04	6	6.4	0.25	13.5	0.53	225	3,250	900	13,000	100	4.00	0.25	0.17	50
H190H06	10	9.7	0.38	17.5	0.69	215	3,125	860	12,500	125	5.00	0.37	0.25	50
H190H08	12	12.7	0.50	20.6	0.81	175	2,550	700	10,200	180	7.00	0.45	0.30	50
H190H10	16	16.0	0.63	23.9	0.94	140	2,050	560	8,200	205	8.00	0.54	0.36	50
H190H12	19	19.1	0.75	27.7	1.09	125	1,800	500	7,200	240	9.50	0.68	0.46	50
H190H16	25	25.4	1.00	35.8	1.41	90	1,300	360	5,200	300	12.00	0.98	0.66	50
H190H20	31	31.8	1.25	43.9	1.73	65	950	260	3,800	420	16.50	1.26	0.85	50
H190H24	38	38.1	1.50	52.1	2.05	50	725	200	2,900	500	19.69	1.58	1.06	50
H190H32	51	50.8	2.00	65.5	2.58	40	580	160	2320	630	24.80	2.04	1.37	50

Construction

Tube: CPE

Reinforcement:
1 wire braid

Cover: CPE black

Operating parameters

-40°C to +150°C
(-40°F to +302°F)

Application

- Transfer of hydraulic fluid, water and air

MSHA accepted

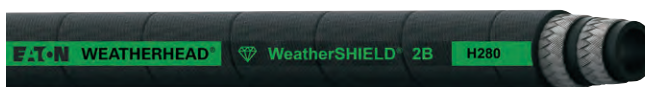
For more information on agency listings, specific fluid applications and high temperature ratings see section A.

Fitting reference	Page
Crimp	
"Z" Series	H-29

H280

WeatherSHIELD

Meets or exceeds: SAE 100R16 Type S, EN857 2SC, ISO 1436



Diamond advantage

- Pressure
- Temperature
- Abrasion resistance

#	Hose I.D.		Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Package length	
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft	feet
H28004 H28004-250R H28004-500R	6	6.4	0.25	14.1	0.56	448	6,500	1,792	26,000	50	1.96	0.33	0.22	50 250 500
H28006 H28006-250R H28006-500R	10	9.5	0.38	17.4	0.69	400	5,800	1,600	23,200	65	2.55	0.43	0.29	50 250 500
H28008 H28008-250R H28008-500R	12	12.7	0.50	20.8	0.82	345	5,000	1,380	20,000	90	3.54	0.58	0.39	50 250 500
H28010 H28010-250R	16	15.9	0.63	24.9	0.98	276	4,000	1,104	16,000	100	3.94	0.65	0.44	50 250
H28012 H28012-250R	19	19.0	0.75	28.4	1.12	241	3,500	964	14,000	120	4.72	0.79	0.53	50 250
H28016 H28016-250R	25	25.4	1.00	35.7	1.41	207	3,000	828	12,000	150	5.90	1.07	0.72	50 250
H28020 H28020-150	31	31.8	1.25	43.3	1.71	172	2,500	688	10,000	210	8.26	1.62	1.09	50 150
H28024 H28024-150	38	38.1	1.50	51.4	2.03	138	2,000	552	8,000	250	9.84	2.08	1.40	50 150
H28032	51	50.8	2.00	63.9	2.52	110	1,600	440	6,400	315	12.40	2.82	1.90	50

Construction

Tube: Nitrile

Reinforcement:
2 wire braids

Cover: WeatherSHIELD

Operating parameters

Petroleum based hydraulic fluids:

-46°C to +126°C
(-50°F to +260°F)

Water-based hydraulic fluids:

-46°C to +70°C
(-50°F to +158°F)

For water:

-0°C to +70°C
(-32°F to +158°F)

Application

- Hydraulic system service with petroleum and water-based fluids
- For general industrial service

For more information on agency listings, specific fluid applications and high temperature ratings see section A.

**MSHA approved,
ABS approved,
USCG approved**

Fitting reference	Page
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Crimp

"Z" series	H-29
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Hydraulic hose

Braided hose - Premium

B

H290H

WeatherBLAZE

Meets and exceeds: SAE100R2 Type AT, EN853 2SN



# Part number	Hose I.D.			Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Package length
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft	feet
H290H04	6	6.4	0.25	15.2	0.60	400	5,800	1,600	23,200	102	4.02	0.4	0.27	50
H290H06 H290H06-250R	10	9.5	0.38	19.1	0.75	345	5,000	1,380	20,000	125	4.92	0.58	0.39	50 250
H290H08 H290H08-250R	12	12.7	0.50	22.1	0.87	293	4,250	1,172	17,000	180	7.09	0.68	0.46	50 250
H290H10	16	15.9	0.62	25.2	0.99	250	3,650	1,000	14,600	205	8.07	0.8	0.54	50
H290H12 H290H12-250R	19	19.0	0.75	29.5	1.16	215	3,125	860	12,500	240	9.45	1	0.67	50 250
H290H16	25	25.4	1.00	37.9	1.49	175	2,550	700	10,200	300	11.81	1.44	0.97	50
H290H20	31	31.8	1.25	48.8	1.92	155	2,250	620	9,000	420	16.54	2.38	1.60	50
H290H24	38	38.1	1.50	54.6	2.15	125	1,800	500	7,200	500	19.68	2.59	1.74	50
H290H32	51	50.8	2.00	68.6	2.70	105	1525	420	6,100	630	24.80	3.38	2.27	50

Construction

Tube: CPE

Reinforcement:
2 wire braids

Cover: CPE black

Operating parameters

-40°C to +150°C
(-40°F to +302°F)

Application

- High pressure hose for hydraulic fluid applications

For more information on agency listings, specific fluid applications and high temperature ratings see section A.

**MSHA accepted,
USCG approved**

Fitting reference	Page
Crimp	
'Z' series	H-29

H245L

WeatherFROST

Meets and exceeds SAE 100R16 Type S, EN857 2SC



Diamond advantage

- Pressure
- Temperature
- Abrasion resistance

#	Hose I.D.		Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Package length	
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft	feet
H245L04 H245L04-250R	6	6,4	0.25	13,8	0.54	414	6,000	1656	24,025	51	2.00	0,30	0.20	50 250
H245L06 H245L06-250R	10	9,5	0.38	17,4	0.68	345	5,000	1380	20,025	64	2.50	0,40	0.27	50 250
H245L08 H245L08-250R	12	12,7	0.50	20,8	0.82	310	4,500	1240	18,000	89	3.50	0,58	0.39	50 250
H245L10 H245L10-250R	16	15,9	0.62	24,9	0.98	276	4,000	1104	16,000	102	4.00	0,74	0.50	50 250
H245L12 H245L12-250R	19	19,0	0.75	28,4	1.12	241	3,500	964	14,000	121	4.75	0,92	0.62	50 250
H245L16 H245L16-250R	25	25,4	1.00	35,7	1.41	193	2,800	772	11,200	152	6.00	1,22	0.82	50 250
H245L20	31	31,8	1.25	43,3	1.71	159	2,300	636	9,225	210	8.25	1,59	1.07	50
H245L24	38	38,1	1.50	51,5	2.03	138	2,000	552	8,000	254	10.00	2,11	1.42	50
H245L32	51	50,8	2.00	63,9	2.51	103	1,500	412	6,000	318	12.50	2,80	1.88	50

Construction

Tube: Low temperature Nitrile

Reinforcement:

2 wire braids

Cover: WeatherSHIELD

Operating parameters

-57°C to +100°C
(-70°F to +212°F)

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

For more information on agency listings, specific fluid applications and high temperature ratings see section A.

MSHA accepted

Fitting reference	Page
Crimp	
'Z' series	H-29

Hydraulic hose

Spiral hose - Premium

B

H430

WeatherSHIELD

Meets and exceeds: SAE 100R12, EN856 R12, DIN856/4SP (sizes -8 thru -16)



Diamond advantage

- Pressure
- Temperature
- Abrasion resistance

#	Hose I.D.		Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Package length	
	Part number	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
H43006 H43006-100	10	9.5	0.38	20.2	0.80	448	6,500	1,792	26,000	62.5	2.46	0.71	0.48	50 100
H43008 H43008-100 H43008-150	12	12.7	0.50	23.6	0.93	415	6,000	1,660	24,000	90.0	3.54	0.87	0.59	50 100 150
H43010	16	15.9	0.62	27.4	1.08	415	6,000	1,660	24,000	100.0	3.94	1.00	0.68	50
H43012 H43012-100 H43012-150	19	19.0	0.75	30.7	1.21	380	5,500	1,520	22,000	120.0	4.72	1.34	0.90	50 100 150
H43016 H43016-100 H43016-150	25	25.4	1.00	37.9	1.49	350	5,100	1,400	20,400	150.0	5.91	1.78	1.20	50 100 150
H43020 H43020-100 H43020-150	31	31.8	1.25	46.6	1.84	310	4,500	1,240	18,000	210.0	8.27	2.41	1.62	50 100 150
H43024 H43024-100 H43024-150	38	38.1	1.50	53.9	2.12	275	4,000	1,100	16,000	250.0	9.84	3.00	2.01	50 100 150
H43032 H43032-100	51	50.8	2.00	66.8	2.63	275	4,000	1,100	16,000	320.0	12.60	4.37	2.94	50 100

Construction

Tube: Nitrile

Reinforcement:
4 wire spiral

Cover: WeatherSHIELD

Operating parameters

-40°C to +126°C
(-40°F to +260°F)

Application

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

For more information on agency listings, specific fluid applications and high temperature ratings see section A.

**MSHA accepted
Marine Application
J1942/1 - Hydraulic only,
ABS approved,
DNV approved,
USCG approved**

Fitting reference	Page
Crimp	
4S/6S series	H-55

H430R RhinoHide II

Exceeds: SAE 100R12, EN856 R12



# Part number	Hose I.D.			Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Package length
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft	feet
H430R06	10	9.5	0.38	20.2	0.80	280	4,050	1,120	16,200	125	4.92	0.74	0.50	50
H430R08	12	12.7	0.50	23.2	0.92	280	4,050	1,120	16,200	180	7.09	0.86	0.58	50
H430R10	16	15.9	0.62	27.4	1.08	280	4,050	1,120	16,200	200	7.87	1.04	0.70	50
H430R12	19	19.0	0.75	30.7	1.21	280	4,050	1,120	16,200	240	9.45	1.29	0.87	50
H430R16	25	25.4	1.00	38.0	1.50	280	4,050	1,120	16,200	300	11.81	2.08	1.40	50
H430R20	31	31.8	1.25	47.0	1.85	210	3,050	840	12,200	420	16.54	2.74	1.84	50
H430R24	38	38.1	1.50	53.5	2.11	175	2,550	700	10,200	500	19.69	3.12	2.10	50
H430R32	51	50.8	2.00	66.7	2.63	175	2,550	700	10,200	640	25.20	4.18	2.81	50

Construction

Tube: Nitrile

Reinforcement:

4 wire spiral

Cover: UHMWPE

Operating parameters

-40°C to +121°C
(-40°F to +250°F)

Application

- High abrasion applications
- Hydraulic system service with petroleum and water-base fluids
- For general industrial service

For more information on agency listings, specific fluid applications and high temperature ratings see section A.

ABS approved,
DNV approved

Fitting reference	Page
Crimp	
4S/6S series	H-55

Hydraulic hose

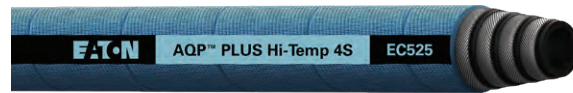
Spiral hose - Premium

B

EC525

High temperature

Exceeds: SAE100R12, EN856 R12



# Part number	Hose I.D.			Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight	
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC525-12	19	19,0	0.75	30,7	1.21	345	5,000	1380	20,000	241,3	9.50	1,28	0.86
EC525-16	25	25,4	1.00	37,9	1.49	345	5,000	1380	20,000	304,8	12.00	1,73	1.16
EC525-20	31	31,8	1.25	46,6	1.84	240	3,500	960	14,000	419,1	16.50	2,31	1.55
EC525-24	38	38,1	1.50	53,9	2.12	240	3,500	960	14,000	508,0	20.00	2,96	1.99
EC525-32	51	50,8	2.00	67,3	2.65	225	3,250	900	13,000	635,0	25.00	4,45	2.97

Construction

Tube: CPE

Reinforcement: 4 wire spiral

Cover: CPE blue

Operating parameters

-40°C to +149°C
(-40°F to +300°F)

-40°C to +82°C
(-40°F to +180°F)

phosphate-ester base fluids

Application

- Hydraulic system service with petroleum, fire-resistant and water-based fluids
- Fuel and lubricating systems

For more information on agency listings, specific fluid applications and high temperature ratings see section A.

For additional approved hydraulics fluids reference the fluid compatibility charts shown in Eaton catalogs.

**MSHA approved,
ABS approved,
DNV approved,
USCG approved**

Fitting reference	Page
Crimp	
4S/6S series	H-55

H471

WeatherFORCE - FLEX 5000

Exceeds: SAE 100R13, EN856 R13, 1/2 SAE bend radius



#	Hose I.D.			Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Package length
	Part number	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
H47112	19	19,0	0.75	31,0	1.22	350	5,100	1,400	20,400	121	4.75	1,28	0.86	50
H47116	25	25,4	1.00	38,4	1.51	350	5,100	1,400	20,400	152	6.00	1,85	1.24	50
H47120	31	31,8	1.25	45,5	1.79	350	5,100	1,400	20,400	210	8.25	2,50	1.68	50
H47124	31	38,1	1.50	53,5	2.11	350	5,100	1,400	20,400	254	10.00	3,38	2.27	50
H47132	51	50,8	2.00	71,8	2.83	350	5,100	1,400	20,400	476	18.75	6,07	4.08	50

Construction

Tube: Nitrile

Reinforcement:

-12 to -24 size: 4 wire spiral

-32 size: 6 wire spiral

Cover: Nitrile

Operating parameters

-40°C to +127°C
(-40°F to +260°F)

Application

- High pressure hydraulic system service with petroleum and water-base fluids

For more information on agency listings, specific fluid applications and high temperature ratings see section A.

For information on additional sizes, please contact your local Eaton sales representative.

**MSHA approved,
ABS approved,
DNV approved,
USCG approved**

Fitting reference	Page
Crimp	
4S/6S series	H-55

Hydraulic hose

Spiral hose - Premium

B

EC600

X-FLEX Spiral

Exceeds SAE 100R15 & ISO 18752-DC performance*,
1/2 SAE bend radius



#	Hose I.D.			Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight	
	Part number	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m
EC600-12	19	19,0	0.75	32,2	1.27	420	6,100	1,680	24,400	135	5.31	1,52	1.01
EC600-16	25	25,4	1.00	38,6	1.52	420	6,100	1,680	24,400	165	6.5	2,04	1.36
EC600-20	31	31,8	1.25	49,7	1.96	420	6,100	1,680	24,400	225	8.86	3,89	2.61

Construction

Tube: Nitrile

Reinforcement:

-12, -16 size: 4 wire spiral
-20 size: 6 wire spiral

Cover: WeatherSHIELD

Operating parameters

-40°C to +121°C
(-40°F to +250°F)

Application

- Hydraulic system service with petroleum and water-based fluids
- For general industrial service

For more information on agency listings, specific fluid applications and high temperature ratings see section A.

MSHA approved,
ABS approved,
DNV approved,
USCG approved

Fitting reference	Page
Crimp 4S/6S**	H-55

* Approved at ISO 18752-DC performance with 1W fitting series

** Approved at ISO 18752-DC performance with 4S/6S fitting series

EC810

ICE CHAMPION premium low temperature

Exceeds: SAE 100R15, EN856 R15 performance



#	Hose I.D.		Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC810-12	19	19,0	0.75	32,2	1.27	420	6,100	1,680	24,360	280	11.02	1,61	1.08
EC810-16	25	25,4	1.00	39,0	1.54	420	6,100	1,680	24,360	340	13.39	2,02	1.36
EC810-20	31	31,8	1.25	49,4	1.95	420	6,100	1,680	24,360	420	16.54	3,55	2.39
EC810-24	38	38,1	1.50	57,3	2.26	420	6,100	1,680	24,360	510	20.08	4,74	3.19
EC810-32	51	50,8	2.00	71,1	2.80	420	5,100	1,490	21,610	630	24.80	6,70	4.50

Construction

Tube: Exclusive low temperature tube

Reinforcement:

-12, -16 size: 4 wire spiral
-20 to -32 size: 6 wire spiral

Cover: Nitrile

Operating parameters

-57°C to +100°C
(-70°F to +212°F)

Application

- Hydraulic system with petroleum based fluids for low temperature applications

For more information on agency listings, specific fluid applications and high temperature ratings see section A.

MSHA approved

Fitting reference	Page
Crimp	
4S/6S series	H-55

Hydraulic hose

Spiral hose - Premium

B

EC850 DYNAMAX

Exceeds: SAE 100R15



# Part number	Hose I.D.			Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight	
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC850-10	16	15,9	0.63	29,0	1.14	500	7250	2000	29000	200,0	7.87	1,23	0.82
EC850-12	19	19,0	0.75	33,3	1.31	500	7250	2000	29000	215,0	8.46	1,52	1.01
EC850-16	25	25,4	1.00	40,4	1.59	500	7250	2000	29000	270,0	10.63	2,31	1.54
EC850-20	31	31,8	1.25	50,9	2.00	500	7250	2000	29000	380,0	14.96	4,01	2.69

Construction

Tube: Nitrile

Reinforcement:

-10, -12, -16 size: 4 spiral wire
-20 size: 6 spiral wire

Cover: Nitrile

Operating parameters

-40°C to +100°C
(-40°F to +212°F)

Application

- Ultra high pressure
- Hydraulic systems with petroleum and water-glycol based fluids
- Lubricating oils and water

For more information on agency listings, specific fluid applications and high temperature ratings see section A.

MSHA IC-84, DIN 5510

Fitting reference

Crimp

Contact Eaton for approved Internal Skive fittings (1W series)

H190

WeatherSHIELD

Meets and exceeds: SAE 100R1 Type S, EN853 1SN, ISO 1436-1 Type 1SN Performance



Diamond advantage

- Pressure
- Temperature
- Abrasion resistance

#	Hose I.D.			Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Package length
	Part number	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	
H19004 H19004-250R	6	6,4	0.25	13,5	0.53	255	3,700	1,020	14,800	101,6	4.00	7,3	16	50 250
H19006 H19006-250R	10	9,5	0.38	17,5	0.69	235	3,400	940	13,600	127,0	5.00	11,4	25	50 250
H19008 H19008-250R	12	12,7	0.50	20,6	0.81	200	2,900	800	11,600	177,8	7.00	13,6	30	50 250
H19010	16	15,9	0.63	23,8	0.94	130	1,885	520	7,540	203,2	8.00	15,9	35	50 250
H19012 H19012-250R	19	19,0	0.75	27,8	1.09	138	2,000	552	8,000	241,3	9.50	20,5	45	50 250
H19016 H19016-250R	25	25,4	1.00	35,7	1.41	103	1,500	412	6,000	304,8	12.00	30,9	68	50 250
H19020	31	31,8	1.25	43,4	1.71	69	1,000	276	4,000	419,1	16.50	40,9	88	50
H19024	38	38,1	1.50	50,6	1.99	52	750	208	3,000	508,0	20.00	47,7	105	50
H19032	51	50,8	2.00	64,0	2.52	41	600	164	2,400	635,0	25.00	59,5	131	50

Construction

Tube: Nitrile

Reinforcement: 1 wire braid

Cover: WeatherSHIELD

Operating parameters

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)

Application

- Hydraulic system service with petroleum and water-based fluids
- For general industrial service

For more information on agency listings, specific fluid applications and high temperature ratings see section A.

MSHA accepted
ISO 1436a

Marine Application
J1942/1 hydraulic service

Fitting reference	Page
Crimp	
"Z" Series	H-29

Hydraulic hose

Braided hose - Other

B

H290

WeatherSHIELD

Meets and exceeds: SAE 100R2 Type S, EN853 2SN, ISO 1436-1 Type 2SN performance



Diamond advantage

- Pressure
- Temperature
- Abrasion resistance

# Part number	Hose I.D.			Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Package length
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft	feet
H29004 H29004-250R H29004-500R	6	6,4	0.25	15,1	0.59	448	6,500	1792	26,000	101,6	4.00	11,8	26	50 250 500
H29006 H29006-250R H29006-500R	10	9,5	0.38	19,0	0.75	400	5,800	1600	23,200	127,0	5.00	17,3	38	50 250 500
H29008 H29008-250R H29008-500R	12	12,7	0.50	22,2	0.88	345	5,000	1380	20,000	177,8	7.00	20,1	46	50 250 500
H29010 H29010-250R	16	15,9	0.63	25,4	1.00	276	4000	1104	16,000	203,2	8.00	24,5	54	50 250
H29012 H29012-250R	19	19,0	0.75	29,4	1.16	241	3,500	964	14,000	241,3	9.50	30,0	66	50 250
H29016 H29016-250R	25	25,4	1.00	38,1	1.50	207	3,000	828	12,000	304,8	12.00	45,9	101	50 250
H29020 H29020-150R	31	31,8	1.25	48,8	1.92	172	2,500	688	10,000	419,1	16.50	70,0	154	50 250
H29024	38	38,1	1.50	54,6	2.15	138	2,000	552	8,000	508,0	20.00	76,4	168	50
H29032	51	50,8	2.00	63,8	2.51	110	1,600	440	6,400	635,0	25.00	100,9	222	50

Construction

Tube: Nitrile

Reinforcement:
2 wire braids

Cover: WeatherSHIELD

Operating parameters

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)

Application

- Hydraulic system service with petroleum and water-based fluids
- For general industrial service

For more information on agency listings, specific fluid applications and high temperature ratings see section A.

MSHA accepted

Fitting reference	Page
Crimp	
'Z' series	H-29

H145

Constant pressure

Meets or exceeds: SAE 100R17



# Part number	Hose I.D.			Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Package length
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft	ft
H14504 H14504-250R H14504-500R	6	6,4	0.25	12,7	0.50	210,0	3,045	840,0	12,180	38,1	2.00	6,8	15	50 250 500
H14506 H14506-250R H14506-500R	10	9,5	0.38	16,3	0.64	210,0	3,045	840,0	12,180	50,8	2.50	10,5	23	50 250 500
H14508 H14508-250R H14508-500R	12	12,7	0.50	20,6	0.81	210,0	3,045	840,0	12,180	58,7	3.50	14,5	32	50 250 500
H14510 H14510-250R	16	15,9	0.63	24,6	0.97	210,0	3,045	840,0	12,180	69,9	4.00	23,2	51	50 250
H14512 H14512-250R	19	19,0	0.75	29,4	1.16	210,0	3,045	840,0	12,180	82,6	4.75	28,6	63	50 250
H14516 H14516-250R	25	25,4	1.00	37,3	1.47	210,0	3,045	840,0	12,180	101,6	6.00	41,4	91	50 250

Construction

Tube: Nitrile

Reinforcement:

4-8 size: 1 wire braid
10-16 size: 2 wire braids

Cover: Neoprene

Operating parameters

4-8 size: -40°C to +121°C
(-40°F to +250°F)

10-16 size: -40°C to +100°C
(-40°F to +212°F)

Application

- Ideal for use in high pressure lines on off-road construction equipment, farm equipment
- Other high pressure applications where a small bend radius is needed

For more information on agency listings, specific fluid applications and high temperature ratings see section A.

Marine Application
J1942/1 - Hydraulic only
MSHA accepted

Fitting reference	Page
Crimp	
'Z' Series	H-29

Hydraulic hose

Braided hose – Other

B

H545

RhinoHide abrasion resistant Constant pressure



# Part number	Hose I.D.			Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Package length
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft	feet
H54504 H54504-250R H54504-500R	6	6,4	0.25	13,5	0.53	206,9	3,000	827,4	12,000	50,8	2.00	6,4	14	50
H54506 H54506-250R H54506-500R	10	9,5	0.38	15,9	0.63	206,9	3,000	827,4	12,000	63,5	2.50	8,2	18	50
H54508 H54508-250R H54508-500R	12	12,7	0.50	20,6	0.81	206,9	3,000	827,4	12,000	88,9	3.50	14,5	32	50
H54510 H54510-250R	16	15,9	0.63	23,8	0.94	206,9	3,000	827,4	12,000	101,6	4.00	16,8	37	50
H54512 H54512-250R	19	19,0	0.75	28,6	1.13	206,9	3,000	827,4	12,000	120,7	4.75	24,4	54	50
H54516 H54516-250R	25	25,4	1.00	35,7	1.41	206,9	3,000	827,4	12,000	152,4	6.00	39,0	86	50

Construction

Tube: Nitrile

Reinforcement:

4-8 size: 1 wire braid;
10-16 size: 2 wire braids

Cover: Abrasion resistant woven nylon

Operating parameters

-40°C to +121°C
(-40°F to +250°F)

Application

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

For more information on agency listings, specific fluid applications and high temperature ratings see section A.

Fitting reference	Page
Crimp	
'Z' series (-04 thru -12)	H-29
4S/6S series (-16)	H-55

H400

Constant pressure

Meets or exceeds: SAE 100R19



# Part number	Hose I.D.			Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Package length
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft	feet
H40004 H40004-250R	6	6,4	0.25	15,2	0.60	280,0	4,000	1120,0	16,000	50,8	2.00	10,9	24	50 250
H40006 H40006-250R	10	9,7	0.38	19,3	0.76	280,0	4,000	1120,0	16,000	63,5	2.50	16,4	36	50 250
H40008 H40008-250R	12	12,7	0.50	22,6	0.89	280,0	4,000	1120,0	16,000	88,9	3.50	19,5	43	50 250
H40010 H40010-250R	16	16,0	0.63	25,7	1.01	280,0	4,000	1120,0	16,000	101,6	4.00	27,3	60	50 250
H40012 H400-250R	19	19,0	0.75	30,0	1.18	280,0	4,000	1120,0	16,000	120,7	4.75	32,7	72	50 250

Construction

Tube: Nitrile

Reinforcement: 2 wire braids

Cover: Nitrile

Operating parameters

-40°C to +100°C
(-40°F to +212°F)

Application

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

For more information on agency listings, specific fluid applications and high temperature ratings see section A.

Fitting reference	Page
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Crimp

"Z" series	H-29
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Hydraulic hose

Braided hose - Other

B

H421

WeatherJACK

10,000 psi Jack hose



#	Hose I.D.		Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Package length	
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft	feet
	H42104 H42104-250R	6	6,4	0.25	13,5	0.53	700,0	10,000	1400,0	20,000	50,8	2.00	10,0	22
H42106 H42106-250R	10	9,7	0.38	17,5	0.69	700,0	10,000	1400,0	20,000	63,5	2.50	13,2	29	50 250

Construction

Tube: Nitrile

Reinforcement:
2 wire braid

Cover: Nitrile

Operating parameters

-40°C to +100°C
(-40°F to +212°F)

Application

- Hydraulic jacking system with petroleum and water-based fluids

For more information on agency listings, specific fluid applications and high temperature ratings see section A.

Fitting reference	Page
Crimp	
"Z" series	H-29

EC230

Large bore

Meets: SAE 100R2 Type S



#	Hose I.D.		Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
	EC230-40	63	63,5	.50	80,2	3.16	79,0	1150	316,0	4600	660,0	26.00	3,88

Construction

Tube: Nitrile

Reinforcement:
2 wire braid

Cover: Nitrile

Operating parameters

-40°C to +100°C
(-40°F to +212°F)

Application

- Hydraulic system service with petroleum and water-based fluids
- For general industrial service

For more information on agency listings, specific fluid applications and high temperature ratings see section A.

Fitting reference
For fitting information, refer to Eaton bulletin E-HOBR-BB001-E

H345 Pressure washer hose



B

# Part number	Hose I.D.			Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Package length
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft	feet
H34504 H34504-100 H34504-250R H34504-500R	6	6,4	0.25	12,3	0.48	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	6	6,4	0.38	16,3	0.64	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	12,7	0.50	19,8	0.78	206,9	3,000	827,4	12,000	88,9	3.50	12,7	28	50* 100* 250 500

*50 and *100 are one continuous length.

Construction

Tube: Nitrile

Reinforcement:

1 wire braid

Cover: Blue Nitrile

Operating parameters

Pressure washer service up to
180°C to +93°C
(-0°F to +200°F)

Hydraulic Service
-40°C to +121°C
(-40°F to +250°F)

Application

- Pressure washer hose for cold and hot water
- Resistant to usual detergents

Not for use with steam applications.

MSHA accepted, IC-46/10

For more information on agency listings, specific fluid applications and high temperature ratings see section A.

Fitting reference	Page
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Crimp

"Z" Series	H-29
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Hydraulic hose

Spiral hose - Other

B

H464 4S

Meets EN856 Type 4SH



#	Hose I.D.			Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Package length
	Part number	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
H46412	19	19,0	0.75	32,5	1.27	420,0	6,090	1679,6	24,360	279,4	11.00	45,4	100	50
H46416	25	25,4	1.00	38,1	1.50	385,0	5,510	1519,7	22,040	339,9	13.38	62,6	138	50
H46420	31	31,8	1.25	42,2	1.79	350,0	5,075	1399,7	20,300	460,0	18.11	77,6	171	50
H46424	38	38,1	1.50	54,0	2.11	300,0	4,350	1199,7	17,400	560,1	22.05	99,8	220	50
H46432	51	50,8	2.00	68,3	2.68	250,0	3,625	999,8	14,500	700,0	27.5	139,7	308	50

Construction

Tube: Nitrile

Reinforcement:
4 spiral wire plies

Cover: Nitrile

Operating parameters

-40°C to +100°C
(-40°F to +212°F)

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

For more information on agency listings, specific fluid applications and high temperature ratings see section A.

Fitting reference	Page
Crimp	
4S/6S series	H-55

EC910

SAFESHIELD Waterblast

Meets: ISO 7751, EN1829-2 (impulse)



#	Hose I.D.			Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight	
	Part number	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m
EC910-08C50	12	12,7	0.50	24,6	0.97	1100,0	16000	2750,0	40000	228,6	9.00	1,12	0.75
EC910-12C50	19	19,0	0.75	32,8	1.29	1000,0	14500	2500,0	36250	279,4	11.00	1,74	1.17
EC910-16C50	25	25,4	1.00	39,9	1.57	690,0	10000	1725,0	25000	304,8	12.00	2,23	1.50

Construction

Tube: Nitrile

Reinforcement: Heavy
4 spiral wire

Cover: Nitrile cover with color coded lay lines in accordance with WJTA (Water Jetting Technology Association)

Operating parameters

-40°C to +93°C
(-40°F to +200°F)
Continuous service temperature range
-10°C to +80°C
(-14°F to +176°F)

Application

- Waterblast service with water, water-soap emulsion

For more information on agency listings, specific fluid applications and high temperature ratings see section A.

Fitting reference
Contact Eaton for approved Internal skive fittings and sockets.

** Refer to Eaton bulletin E-HOHP-MS003-E

H039

Suction hose

Meets: SAE 100R4, 1/2 SAE bend radius



B

# Part number	Hose I.D.			Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Vacuum Service		Weight		Package length
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kPa	lbs/ft	kg/m	lbs/ft	feet
H03912 H03912-100 H03912-150	19	19,0	0.75	32,5	1.28	20,1	300	82,7	1,200	63,5	2.50	94,8	28.0	20,0	0.44	50 100 150
H03916 H03916-100 H03916-150	25	25,4	1.00	38,1	1.50	17,2	250	69,0	1,000	76,2	3.00	94,8	28.0	23,6	0.52	50 100 150
H03920 H03920-100 H03920-150	31	31,8	1.25	46,4	1.83	113,8	200	55,2	800	101,6	4.00	94,8	28.0	34,0	0.75	50 100 150
H03924 H03924-100 H03924-150	38	38,1	1.50	52,8	2.08	10,3	150	41,4	600	127,0	5.00	94,8	28.0	38,6	0.85	50 100 150
H03932 H03932-100 H03932-150	51	50,8	2.00	66.3	2.61	6,9	100	27,6	400	152,4	6.00	94,8	28.0	52,6	0.116	50 100 150

Construction

Tube: CPE

Reinforcement:

1 helical cable wire between two textile layers, 1 fiber braid

Cover: Neoprene

Operating parameters

-40°C to +135°C
(-40°F to +275°F)

Application

- Hydraulic suction hose

MSHA accepted

Marine Application
J1942/1 - Hydraulic only.

ABS approved

For more information on agency listings, specific fluid applications and high temperature ratings see section A.

Fitting reference	Page
Crimp	
"Z" Series	H-29

Hydraulic hose

Suction hose - Specialty

B

H039H

WeatherBLAZE suction hose

Meets: SAE 100R4



# Part number	Hose I.D.			Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Vacuum Service		Weight		Package length
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kPa	in/Hg	kg/m	lbs/ft	feet
H039H12 H039H12-100 H039H12-150	19	19,0	0.75	32,5	1.28	20,1	300	82,7	1,200	125,0	5.00	94,8	28.0	20,0	44	50 100 150
H039H16 H039H16-100 H039H16-150	25	25,4	1.00	38,1	1.50	17,2	250	69,0	1,000	150,0	6.00	94,8	28.0	23,6	52	50 100 150
H039H20 H039H20-100 H039H20-150	31	31,8	1.25	46,4	1.83	13,8	200	55,2	800	200,0	8.00	94,8	28.0	34,0	75	50 100 150
H039H24 H039H24-100 H039H24-150	38	38,1	1.50	52,8	2.08	10,3	150	41,4	600	255,0	10.00	94,8	28.0	38,6	85	50 100 150
H039H32 H039H32-100 H039H32-150	51	50,8	2.00	66,3	2.61	6,9	100	27,6	400	300,0	12.00	94,8	28.0	52,6	116	50 100 150

Construction

Tube: CPE

Reinforcement:

1 helical wire between
2 textile layers, 1 fiber braid

Cover: CPE blue

Operating parameters

-40°F to +302°F
(-40°C to +150°C)

Application

- Hydraulic suction hose

For more information on agency listings, specific fluid applications and high temperature ratings see section A.

Fitting reference	Page
Crimp	
"Z" Series	H-29

3130

Synflex medium pressure

Meets or exceeds: SAE 100R7



#	Hose size	Hose I.D.		Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Package length		
		DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft	mtr	ft
3130-02-250BX	-02	3	3,2	0.13	8,5	0.34	172	2,500	689	10,000	13,0	0.50	0,04	0.03	76,2	250
3130-03-250BX	-03	5	4,8	0.19	10,8	0.43	207	3,000	827	12,000	19,0	0.75	0,07	0.05	76,2	250
3130-04-250BX	-04	6	6,4	0.25	13,0	0.51	207	3,000	759	11,000	32,0	1.25	0,09	0.06	76,2	250
3130-04-500R	-04	6	6,4	0.25	13,0	0.51	207	3,000	759	11,000	32,0	1.25	0,09	0.06	152,4	500
3130-05-250BX	-05	8	7,9	0.31	15,1	0.59	172	2,500	689	10,000	44,0	1.75	0,12	0.08	76,2	250
3130-06-250BX	-06	10	9,5	0.38	17,0	0.67	155	2,250	620	9,000	51,0	2.00	0,12	0.08	76,2	250
3130-06-500R	-06	10	9,5	0.38	17,0	0.67	155	2,250	620	9,000	51,0	2.00	0,12	0.08	152,4	500
3130-08-250BX	-08	12	12,7	0.50	20,7	0.82	138	2,000	620	9,000	76,0	3.00	0,16	0.11	76,2	250
3130-08-500R	-08	12	12,7	0.50	20,7	0.82	138	2,000	620	9,000	76,0	3.00	0,16	0.11	152,4	500
3130-12-200BX	-12	19	19,0	0.75	27,1	1.07	86	1,250	345	5,000	127,0	5.00	0,27	0.18	60,9	200
3130-16-200BX	-16	25	25,4	1.00	34,0	1.34	69	1,000	276	4,000	203,0	8.00	0,46	0.31	60,9	200

SAE100R7 does not apply to 0.125" size. The nylon core tube is a single wall and not bonded to the reinforcement.

BX = Box part numbers, and R = Reel part numbers.

Construction

Tube: Nylon-lined

Reinforcement: Spiral or braided synthetic fiber

Cover: Black perforated polyurethane

Operating parameters

-40°C to +100°C
(-40°F to +212°F) or

-40°C to +66°C
(-40°F to +150°F)
with water-based, or fire-resistant fluids

Change in working length at working PSI ±2%

Application

- General hydraulics
- Material handling
- Forklifts
- Chemical transfer
- Marine steering

Features

- Low elongation

Fitting reference

For hose fittings details refer to Synflex catalog E-HOOV-MC001-E.

Hydraulic hose

Thermoplastic hose

B

3740

Synflex medium pressure, non-conductive

Meets or exceeds: SAE 100R7



# Part number	Hose size	Hose I.D.		Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Package length	
		DN	mm in	mm in	bar psi	bar psi	mm in	kg/m lbs/ft	mtr ft						
3740-04-250BX 3740-04-250RC 3740-04-500R	-04	6	6,4 .25	12,9 .51	192 2800	768 11,200	31,8 1.25	0,11 0.07	76,2 250 76,2 250 152,4 500						
3740-05-250BX 3740-05-250RC 3740-05-250R	-05	8	7,9 .31	15,0 .59	175 2550	700 10200	44,4 1.75	1,29 0.87	76,2 250 76,2 250 152,4 500						
3740-06-250BX 3740-06-250RC 3740-06-500R	-06	10	9,5 .38	16,9 .67	157 2300	628 9,200	50,8 2.00	0,15 0.10	76,2 250 76,2 250 152,4 500						
3740-08-250BX 3740-08-250RC 3740-08-500R	-08	12	12,7 .50	20,8 .82	140 2050	560 8,200	76,2 3.00	0,21 0.14	76,2 250 76,2 250 152,4 500						
3740-12-200BX 3740-12-200RC	-12	19	19,0 0.75	27,2 1.07	86 1250	348 5,000	127,0 5.00	0,29 0.19	60,9 200						
3740-16-050BX	-16	25	25,4 1.00	34,1 1.34	70 1000	280 4,000	203,2 8.00	0,39 0.26	15,2 50						

BX = Box part numbers, R = Random length reel part numbers, RC= Continuous length reel

Construction

Tube: Nylon-lined

Reinforcement:
Braided synthetic fiber reinforcement (-08)

Cover: Orange non-perforated polyurethane

Operating parameters

-40°C to +100°C
(-40°F to +212°F) for petroleum or synthetic based hydraulic fluids

-40°C to +66°C
(-40°F to +150°F) for water-based, or fire-resistant fluids

Change in working length at working PSI ±2%

Application

- General hydraulic systems that may contact high voltage sources
- Aerial equipment
- Mobile hydraulics
- Rescue apparatus and tools

Features

- SAE J517 non-conductive hose construction
- Less than 50 micro-amperes leakage when subjected to 75,000 volts/ft for five minutes

Fitting reference

For hose fittings details refer to Synflex catalog E-HOOV-MC001-E.

37AL

Synflex medium pressure, non-conductive

Meets: SAE 100R7 conductive requirements



#	Hose size	Hose I.D.		Hose O.D.		Maximum operating pressure ANSI A92.2 SAE 100R7		Minimum burst pressure		Minimum bend radius		Weight		Package length	
		DN	mm in	mm in	bar psi	bar psi	bar psi	mm in	kg/m lbs/ft	mtr ft					
37AL-03-250BX	-03	5	4,8 0.19	10,8 0.43	207 3,000	207 3,000	827 12,000	19,1 0.4	0,07 0.05	76,2 250					
37AL-04-250BX	-04	6	6,4 0.25	12,3 0.49	207 3,000	190 2,750	759 11,000	32,0 1.3	0,09 0.06	76,2 250					
37AL-04-500RC	-04	6	6,4 0.25	12,3 0.49	207 3,000	190 2,750	759 11,000	32,0 1.3	0,09 0.06	152,4 500					
37AL-05-250BX	-05	8	7,9 0.31	14,7 0.58	207 3,000	172 2,500	689 10,000	44,0 1.8	0,11 0.08	76,2 250					
37AL-05-500RC	-05	8	7,9 0.31	14,7 0.58	207 3,000	172 2,500	689 10,000	44,0 1.8	0,11 0.08	152,4 500					
37AL-06-250BX	-06	10	9,5 0.38	16,1 0.64	207 3,000	155 2,250	620 9,000	51,0 2.0	0,14 0.10	76,2 250					
37AL-06-500RC	-06	10	9,5 0.38	16,1 0.64	207 3,000	155 2,250	620 9,000	51,0 2.0	0,14 0.10	152,4 500					
37AL-08-250BX	-08	12	12,7 0.50	20,7 0.82	207 3,000	155 2,250	620 9,000	76,0 3.0	0,21 0.14	76,2 250					
37AL-08-500RC	-08	12	12,7 0.50	20,7 0.82	207 3,000	155 2,250	620 9,000	76,0 3.0	0,21 0.14	152,4 500					

BX = Box part numbers, RC= Continuous length reel

Construction

Tube: Polyester

Reinforcement: Braided synthetic fiber

Cover: Orange, non-perforated, non-stick polyurethane

Operating parameters

-54°C to +100°C
(-65°F to +212°F) or

-40°C to +60°C
(-40°F to +140°F)
with water-based, or fire-resistant fluids

Change in working length at working PSI ±2%

Application

- Electric utility truck
- Hydraulic systems
- Mobile equipment (pickers, utility vehicles)

Features

- SAE J517 non-conductive hose construction
- Complies with ANSI A92.2 for vehicle-mounted, aerial devices (i.e., AL)
- Less than 50 micro-amperes leakage when subjected to 75,000 volts/ft for five minutes

Fitting reference

For hose fittings details refer to Synflex catalog E-HOOV-MC001-E.

Hydraulic hose

Thermoplastic hose

B

3R80

Synflex High pressure

Meets: SAE 100R8



#	Hose size	Hose I.D.		Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Package length		
		DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft	mtr	ft
3R80-03-250BX	-03	5	4,8	0.19	13,1	0.52	350	5,100	1,400	20,400	38,0	1.50	0,11	0.08	76,2	250
3R80-04-250BX	-04	6	6,4	0.25	15,9	0.63	350	5,100	1,400	20,400	51,0	2.00	0,18	0.12	76,2	250
3R80-06-250BX	-06	10	9,5	0.38	19,4	0.77	280	4,050	1,120	16,200	64,0	2.50	0,22	0.15	76,2	250
3R80-08-250BX	-08	12	12,7	0.50	22,7	0.90	245	3,550	980	14,200	102,0	4.00	0,28	0.19	76,2	250
3R80-12-200BX	-12	19	19,0	0.75	28,9	1.14	157	2,300	628	9,200	165,0	6.50	0,38	0.26	60,9	200
3R80-16-200BX	-16	25	25,4	1.00	37,3	1.47	140	2,050	560	8,200	254,0	10.00	0,57	0.39	60,9	200

BX = Box part numbers

Construction

Tube: Nylon

Reinforcement: Braided synthetic fiber

Cover: Black perforated polyurethane

Operating parameters

-40°C to +100°C
(-40°F to +212°F) or

-40°C to +66°C
(-40°F to +150°F)
with water-based, or
fire-resistant fluids

Change in working length at
working PSI ±2%

Application

- General hydraulic systems
- Hydraulic tools
- Mobile equipment
- High-pressure chemical transfer

Fitting reference

For hose fittings details refer to
Synflex catalog E-HOOV-MC001-E.

3E80

Synflex High pressure, non-conductive

Meets: SAE 100R8



#	Hose size	Hose I.D.		Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Package length		
		DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft	mtr	ft
3E80-03-050BX	-03	5	4,8	0.19	13,1	0.52	350	5,100	1,400	20,400	38,0	1.50	0,11	1.50	15,2	50
3E80-04-250BX	-04	6	6,4	0.25	15,9	0.63	350	5,100	1,400	20,400	51,0	2.00	0,18	0.12	76,2	250
3E80-06-250BX	-06	10	9,5	0.38	19,4	0.77	280	4,050	1,120	16,200	64,0	2.50	0,22	0.15	76,2	250
3E80-08-250BX	-08	12	12,7	0.50	22,7	0.90	245	3,550	980	14,200	102,0	4.00	0,28	0.19	76,2	250

BX = Box part numbers

Contact your Eaton customer service representative for details.

Construction

Tube: Nylon

Reinforcement: Braided synthetic fiber

Cover: Orange, non-perforated polyurethane

Operating parameters

-54°C to +100°C
(-65°F to +212°F) or

-40°C to +66°C
(-40°F to +150°F)
with water-based, or
fire-resistant fluids

Change in working length at
working PSI ±2%

Application

- General hydraulic systems that may contact high voltage sources
- Aerial equipment
- Mobile machinery
- Rescue tools

Features

- SAE J517 non-conductive hose construction
- Less than 50 micro-amperes leakage when subjected to 75,000 volts/ft for five minutes

Fitting reference

For hose fittings details refer to
Synflex catalog E-HOOV-MC001-E.

30CT

Synflex Constant pressure

Meets: SAE 100R18



B

#	Hose size	Hose I.D.		Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Package length		
		DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft	mtr	ft
30CT-03-250BX	-03	5	4,8	0.19	10,7	0.42	210	3,050	840	12,200	25,4	1.00	0,08	0.05	15,2	50
30CT-04-250BX	-04	6	6,4	0.25	12,1	0.48	210	3,050	840	12,200	31,8	1.25	0,09	0.06	76,2	250
30CT-05-250BX	-05	8	7,9	0.31	15,5	0.61	210	3,050	840	12,200	38,1	1.50	0,15	0.10	76,2	250
30CT-06-250BX	-06	10	9,5	0.38	16,8	0.66	210	3,050	840	12,200	50,8	2.00	0,18	0.12	76,2	250
30CT-08-250BX	-08	12	12,7	0.50	21,6	0.85	210	3,050	840	12,200	88,9	3.50	0,25	0.17	76,2	250
30CT-10-250BX	-10	16	16,0	0.63	27,0	1.06	210	3,050	840	12,200	101,6	4.00	0,41	0.28	76,2	250

BX = Box part numbers

Construction

Tube: Polyester

Reinforcement: Braided synthetic fiber

Cover: Black perforated, non-stick polyester

Operating parameters

-54°C to +94°C
(-65°F to +200°F) or

-54°C to +66°C
(-65°F to +150°F)
with water-based, or fire-resistant fluids

Change in working length at working PSI \pm 2%

Application

- Forklifts
- Construction
- General hydraulics
- Chemical and gas transfer
- Agricultural equipment
- Material handling
- Freezer applications
- Machine tools and robotics
- Lubrication equipment
- Portable hydraulic tools

Features

- Highly flexible, even in cold temperatures
- Small outside diameter
- Lightweight, yet rugged construction

Fitting reference

For hose fittings details refer to Synflex catalog E-HOOV-MC001-E.

Hydraulic hose

Thermoplastic hose

B

3V10

Synflex Very high pressure



# Part number	Hose size	Hose I.D.		Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Package length		
		DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft	mtr	ft
3V10-03-250BX	-03	5	4,8	0.19	13,2	0.52	689	10,000	2,758	40,000	38,0	1.50	0,11	0.08	76,2	250
3V10-04-250BX	-04	6	6,4	0.25	15,1	0.60	689	10,000	2,758	40,000	64,0	2.50	0,16	0.11	76,2	250
3V10-06-250BX	-06	10	9,5	0.38	19,8	0.78	552	8,000	2,205	32,000	76,0	3.00	0,23	0.16	76,2	250

Construction

Tube: Nylon-lined

Reinforcement: Spiral, high-tensile aramid fiber

Cover: Black, perforated polyurethane

Operating parameters

-40°C to +66°C
(-40°F to +150°F)

Change in working length at working PSI ±2%

Application

- High pressure hydraulic tools
- Rescue equipment and tools
- High pressure test equipment

Features

- Compact size
- Lightweight
- Low elongation

Fitting reference

For hose fittings details refer to Synflex catalog E-HOOV-MC001-E.



3V10 hose assembly includes:

- 3V10 hose
- 90V permanent steel fitting
- 45J0 hose guard
- Warning tag

3V10 Kit chart

Warning Tags and Guard Part Numbers

Hose	Tag Number	Hose Guard Kits for Assemblies 30-60 Inches*	Hose Guard Kits for Assemblies over 60 Inches*
3V10-03	0112-23170	45J0-01113	45J0-01107
3V10-04	0112-23170	45J0-01114	45J0-01108
3V10-06	0112-23047	45J0-01115	45J0-01109

*Each kit contains 2 hose guards.



3VE0

Synflex Very high pressure, non-conductive



# Part number	Hose size	Hose I.D.		Hose O.D.		Maximum operating pressure		Minimum burst pressure		Minimum bend radius		Weight		Package length		
		DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft	mtr	ft
3VE0-03-250BX	-03	5	4,8	0.19	13,2	0.52	689	10,000	2,758	40,000	38,0	1.50	0,11	0.08	76,2	250
3VE0-04-250BX	-04	6	6,4	0.25	15,1	0.60	689	10,000	2,758	40,000	64,0	2.50	0,16	0.11	76,2	250
3VE0-06-250BX	-06	10	9,5	0.38	19,8	0.78	551	8,000	2,206	32,000	76,0	3.00	0,23	0.16	76,2	250

Synflex 3VE0 hose is available only as completed assemblies through the factory or Eaton Synflex authorized assemblers.

Construction

Tube: Nylon-lined

Reinforcement: Spiral high-tensile aramid fiber

Cover: Orange, non-perforated polyurethane

Operating parameters

-40°C to +66°C
(-40°F to +150°F)

Change in working length at working PSI ±2%

Application

- General hydraulic systems that may contact high voltage sources
- Rescue equipment and tools
- Mobile machinery
- Aerial equipment

Features

- SAE J517 non-conductive hose construction. Less than 50 micro-amperes leakage when subjected to 75,000 volts/ft for five minutes
- Compact size
- Low elongation

Fitting reference

For hose fittings details refer to Synflex catalog E-HOOV-MC001-E.



3VE0 hose assembly includes:

- 3VE0 hose
- 90V permanent steel fitting
- 45J0 hose guard
- Warning tag

3VE0 Kit chart

Warning Tags and Guard Part Numbers

Hose	Tag Number	Hose Guard Kits for Assemblies 30-60 Inches*	Hose Guard Kits for Assemblies over 60 Inches*
3VE0-03	0112-23171	45J0-01113	45J0-01107
3VE0-04	0112-23171	45J0-01114	45J0-01108
3VE0-06	0112-23045	45J0-01115	45J0-01109

*Each kit contains 2 hose guards.



Hydraulic hose

Thermoplastic hose

B

3130, 37AL and 30CT

Twin-line thermoplastic hose

3130 Medium pressure hose

Meets: SAE 100R7



# Part number	Hose size	Number of hose	Hose I.D.		Package length	
			mm	in	mtr	ft
3130-04-2-250BX*	3130-04	2	6,3	0.25	76,2	250
3130-05-2-250BX*	3130-05	2	7,9	0.31	76,2	250
3130-06-2-250BX*	3130-06	2	9,7	0.38	76,2	250
3130-08-2-250BX*	3130-08	2	12,7	0.50	76,2	250

* 3130 Twin-line hose is a stock item. Other 3130 multi-line hoses are built to order. See 3130 series hose on page B-29 for specification details. Please contact Eaton customer service for twin-line, tri-line, and multi-line configuration options.

37AL Medium pressure hose, non-conductive

Meets: SAE 100R7



# Part number	Hose size	Number of hose	Hose I.D.		Package length	
			mm	in	mtr	ft
37AL-04-2-250BX*	37AL-04	2	6,3	0.25	76,2	250
37AL-06-2-250BX*	37AL-06	2	9,7	0.38	76,2	250
37AL-08-2-250BX*	37AL-08	2	12,7	0.50	76,2	250

* 37AL Twin-line hose is a stock item. Other 37AL multi-line hoses are built to order. See 37AL series hose on page B-31 for specification details. Please contact Eaton customer service for twin-line, tri-line, and multi-line configuration options.

30CT Constant pressure hose

Meets: SAE 100R18



# Part number	Hose size	Number of hose	Hose I.D.		Package length	
			mm	in	mtr	ft
30CT-04-2-250BX*	30CT-04	2	6,3	0.25	76,2	250
30CT-05-2-250BX*	30CT-05	2	7,9	0.31	76,2	250
30CT-06-2-250BX*	30CT-06	2	9,7	0.38	76,2	250
30CT-08-2-250BX*	30CT-08	2	12,7	0.50	76,2	250

* 30CT Twin-line hose is a stock item. Other 30CT multi-line hoses are built to order. See 30CT series hose on page B-33 for specification details. Please contact Eaton customer service for twin-line, tri-line, and multi-line configuration options.

Twin-Line and multi-line hose separating tool and instructions are in the Synflex Thermoplastic Hose and Fittings catalog E-HOOV-MC001-E.

Fitting reference

For hose fittings details refer to Synflex catalog E-HOOV-MC001-E.