

PH148 - MEDIUM PRESSURE HYDRAULIC HOSE - R7

Applicable Standard: SAE 100 R7 / DIN EN ISO 3949



Construction

- Core: Thermoplastic Elastomer
- Reinforcement: Single Braid of Synthetic Fiber
- Cover: Polyurethane, Black Colour, Pin pricked

Application: Medium Pressure Hydraulic Lines 70 to 210 bar. Suitable for hydraulic application with increased resistance to abrasion for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural machinery, Earthmoving, Articulating & Telescopic booms and Material handling equipments. Can be used for industrial gases and other applications

Note: Available Twin & Multi lines with different Hose combination and Size. Also special colours available on request.
Please specify our part nos. as PH151 for electrical non - conductive application - Orange colour cover

Item Code	Dash Size	DN	ID		OD		WP		BP		BR/r		W
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	g/m
PH148-02	-02	03	1/8	3.2	0.320	8.1	3,000	210	12,000	840	1.0	25	57.0
PH148-03	-03	05	3/16	4.8	0.405	10.3	3,000	210	12,000	840	1.0	25	80.0
PH148-04	-04	06	1/4	6.4	0.490	12.4	2,750	190	11,000	760	1.3	32	114.0
PH148-05	-05	08	5/16	8.0	0.560	14.2	2,500	175	10,000	700	1.8	45	142.0
PH148-06	-06	10	3/8	9.5	0.620	15.7	2,250	155	9,000	620	2.2	55	164.0
PH148-08	-08	12	1/2	12.7	0.760	19.3	2,050	140	8,200	560	3.0	77	229.0
PH148-10	-10	16	5/8	16.0	0.910	23.1	1,500	105	6,000	420	4.3	110	295.0
PH148-12	-12	20	3/4	19.0	1.040	26.4	1,300	90	5,200	360	5.5	140	356.0
PH148-16	-16	25	1	25.4	1.310	33.3	1,000	70	4,000	280	8.0	200	504.0
PH148-20	-20	32	1.1/4	31.8	1.654	42.0	1,000	70	4,000	280	12.0	300	737.0



Temperature Range: Continuous: -40°C to +100°C Temp. not to exceed +70°C for Air and Water based fluids

PH149 - HIGH PRESSURE HYDRAULIC HOSE - R8

Applicable Standard: SAE 100 R8 / DIN EN ISO 3949



Construction

- Core: Thermoplastic Elastomer
- Reinforcement: One or more Braids of Aramid Fiber
- Cover: Polyurethane, Black Colour, Pin pricked

Application: High Pressure Hydraulic Lines 100 to 420 bar compact, high pressure, light weight and low change in length. Suitable for hydraulic application with increased resistance to abrasion for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural machinery, Earthmoving, Safety, Rescue and Material handling equipments Can be used for industrial gases and other applications. Please consult manufacturer

Note: Available Twin & Multi lines with different Hose combination and Size. Also special colours available on request.
Please specify our part nos. as PH152 for electrical non - conductive application - Orange colour cover

Item Code	Dash Size	DN	ID		OD		WP		BP		BR/r		W
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	g/m
PH149-02	-02	03	1/8	3.2	0.320	8.1	6,000	420	24,000	1,680	1.0	25	57.0
PH149-03	-03	05	3/16	4.8	0.405	10.3	5,000	350	20,000	1,400	1.0	25	87.0
PH149-04	-04	06	1/4	6.4	0.490	12.4	5,000	350	20,000	1,400	1.3	32	118.0
PH149-05	-05	08	5/16	8.0	0.560	14.2	4,350	300	17,400	1,200	1.8	45	147.0
PH149-06	-06	10	3/8	9.5	0.620	15.7	4,000	280	16,000	1,120	2.2	55	170.0
PH149-08	-08	12	1/2	12.7	0.760	19.3	3,500	245	14,000	980	3.0	77	219.0
PH149-10	-10	16	5/8	16.0	0.910	23.1	2,900	200	11,600	800	4.3	110	295.0
PH149-12	-12	20	3/4	19.0	1.040	26.4	2,300	165	9,200	660	5.5	140	372.0
PH149-16	-16	25	1	25.4	1.310	33.3	2,000	140	8,000	560	8.0	200	511.0
PH149-20	-20	32	1.1/4	31.8	1.654	42.0	1,500	100	6,000	400	14.0	350	750.0



Temperature Range: Continuous: -40°C to +100°C Temp. not to exceed +70°C for Air and Water based fluids

EF 148 - MEDIUM PRESSURE HYDRAULIC HOSE - R7

Applicable Standard: SAE 100 R7 / DIN EN ISO 3949



Construction

- Core** Thermoplastic Elastomer
- Reinforcement** Single Braid of Synthetic Fiber
- Cover** Polyurethane, Black Colour, Pin pricked

Application Medium Pressure Hydraulic Lines 70 to 210 bar. Suitable for hydraulic application with increased resistance to abrasion for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural machinery, Earthmoving, Articulating & Telescopic booms and Material handling equipments. Can be used for industrial gases and other applications

Note: Available Twin & Multi lines with different Hose combination and Size. Also special colours available on request. Please specify our part nos. as EF151 for electrical non - conductive application - Orange colour cover

Item Code	Dash Size	DN	ID		OD		WP		BP		BR/r		W
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	g/m
EF148-02	-02	03	1/8	3.2	0.320	8.1	3,000	210	12,000	840	1.0	25	57.0
EF148-03	-03	05	3/16	4.8	0.405	10.3	3,000	210	12,000	840	1.0	25	80.0
EF148-04	-04	06	1/4	6.4	0.490	12.4	2,750	190	11,000	760	1.3	32	114.0
EF148-05	-05	08	5/16	8.0	0.560	14.2	2,500	175	10,000	700	1.8	45	142.0
EF148-06	-06	10	3/8	9.5	0.620	15.7	2,250	155	9,000	620	2.2	55	164.0
EF148-08	-08	12	1/2	12.7	0.760	19.3	2,050	140	8,200	560	3.0	77	229.0
EF148-10	-10	16	5/8	16.0	0.910	23.1	1,500	105	6,000	420	4.3	110	295.0
EF148-12	-12	20	3/4	19.0	1.040	26.4	1,300	90	5,200	360	5.5	140	356.0
EF148-16	-16	25	1	25.4	1.310	33.3	1,000	70	4,000	280	8.0	200	504.0
EF148-20	-20	32	1.1/4	31.8	1.654	42.0	1,000	70	4,000	280	12.0	300	737.0



Temperature Range: Continuous: -40°C to +100°C Temp. not to exceed +70°C for Air and Water based fluids

EF 149 - HIGH PRESSURE HYDRAULIC HOSE - R8

Applicable Standard: SAE 100 R8 / DIN EN ISO 3949



Construction

- Core** Thermoplastic Elastomer
- Reinforcement** One or more Braids of Aramid Fiber
- Cover** Polyurethane, Black Colour, Pin pricked

Application High Pressure Hydraulic Lines 100 to 420 bar compact, high pressure, light weight and low change in length. Suitable for hydraulic application with increased resistance to abrasion for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural machinery, Earthmoving, Safety, Rescue and Material handling equipments Can be used for industrial gases and other applications. Please consult manufacturer

Note: Available Twin & Multi lines with different Hose combination and Size. Also special colours available on request. Please specify our part nos. as EF152 for electrical non - conductive application - Orange colour cover

Item Code	Dash Size	DN	ID		OD		WP		BP		BR/r		W
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	g/m
EF149-02	-02	03	1/8	3.2	0.320	8.1	6,000	420	24,000	1,680	1.0	25	57.0
EF149-03	-03	05	3/16	4.8	0.405	10.3	5,000	350	20,000	1,400	1.0	25	87.0
EF149-04	-04	06	1/4	6.4	0.490	12.4	5,000	350	20,000	1,400	1.3	32	118.0
EF149-05	-05	08	5/16	8.0	0.560	14.2	4,350	300	17,400	1,200	1.8	45	147.0
EF149-06	-06	10	3/8	9.5	0.620	15.7	4,000	280	16,000	1,120	2.2	55	170.0
EF149-08	-08	12	1/2	12.7	0.760	19.3	3,500	245	14,000	980	3.0	77	219.0
EF149-10	-10	16	5/8	16.0	0.910	23.1	2,900	200	11,600	800	4.3	110	295.0
EF149-12	-12	20	3/4	19.0	1.040	26.4	2,300	165	9,200	660	5.5	140	372.0
EF149-16	-16	25	1	25.4	1.310	33.3	2,000	140	8,000	560	8.0	200	511.0
EF149-20	-20	32	1.1/4	31.8	1.654	42.0	1,500	100	6,000	400	14.0	350	750.0



Temperature Range: Continuous: -40°C to +100°C Temp. not to exceed +70°C for Air and Water based fluids

VE8

OIL-PROOF COVER



Caratteristiche principali

- Pressione da 145 a 420 bar - rapporto sicurezza 1:4
- Pressione da 193 a 560 bar - rapporto sicurezza 1:3
- Soluzione ultra compatta e leggera
- Per la conduzione ad alta pressione di polioli, solventi, vernici e gas compatibili

Main Features

- Pressure from 145 to 420 bar - safety ratio 1:4
- Pressure from 193 to 560 bar - safety ratio 1:3
- Extremely compact and light solution
- High pressure solution for polyols, solvents, paints and compatible gases

Caratteristiche tecniche

- **Caratteristiche tecnico-costruttive:**
Anima interna in poliammide, rinforzo in fibre tessili ad alta tenacità e rivestimento esterno in poliuretano antiabrasione, microperforato per passaggio aria e gas compatibili. Queste tubazioni non sono in grado di disperdere le cariche elettrostatiche che possono accumularsi nel caso di passaggio di fluidi non conduttivi.
- **Temperature di utilizzo:**
Da -40°C a +100°C Da -40°F a +212°F
Per aria, acqua e fluidi a base acquosa la temperatura massima di esercizio è + 70°C (+158°F).
- **Pressioni d'esercizio:**
Rapporto di sicurezza 1:4 per pressione DINAMICA (in conformità alle norme SAE)
Rapporto di sicurezza 1:3 per pressione STATICA
- **Valore max. di vuoto:**
0,93 bar; 700 mm Hg
- **Specifiche:**
Tubazioni conformi o superiori alle norme SAE J517 sez. SAE 100R8 - ISO 3949.

Technical Features

- **Technical-constructive features:**
Inner core in polyamide, high toughness textile fiber and exterior covering in antiabrasion polyurethane, micro perforated for the conduction of air and compatible gases. These hoses are not able to dissipate electrostatic charges that may build up in case non-conductive fluids are conveyed.
- **Working temperatures:**
from -40°C to +100°C from -40°F to +212°F.
Max. working temperature of air, water and water-based fluids is + 70°C (+158°F).
- **Working pressure:**
Safety ratio 1:4 for DYNAMIC pressure (according to SAE norm)
Safety ratio 1:3 for STATIC pressure
- **Vacuum rating:**
0.93 bar; 700 mm Hg
- **Specifications:**
Hoses meet or exceed SAE J517 sect. SAE 100R8 – ISO 3949 Standards.

Scheda tecnica - Data Sheet



CODE	inch	-dash	mm	DN	inch	mm	bar	psi	bar	psi	mm	inch	g/m	lbs/ft	FERRULE CODE
VE810100	1/8"	-2	3.5	3	0.280	7.1	420	6090	560	8122	30	1.18	31	0.021	BP180L5
VE820100	3/16"	-3	4.8	5	0.394	10.0	350	5075	467	6773	35	1.38	88	0.059	BP316R7
VE830100	1/4"	-4	6.4	6	0.465	11.8	350	5075	467	6773	50	1.97	83	0.056	BP14R7
VE840100 (**)	5/16"	-5	8.0	8	0.563	14.3	325	4712	433	6280	60	2.36	122	0.082	BP516R7V
VE850100	3/8"	-6	9.7	10	0.630	16.0	280	4060	373	5410	70	2.76	140	0.094	BP38R7V
VE860100	1/2"	-8	13.0	12	0.799	20.3	245	3552	327	4743	95	3.74	218	0.146	BP12R7V
VE870100	5/8"	-10	16.0	16	0.925	23.5	195	2827	260	3771	125	4.92	285	0.192	BP58R7V
VE880100	3/4"	-12	19.2	19	1.043	26.5	165	2392	220	3191	150	5.91	341	0.229	BP34R7V
VE890100	1"	-16	25.6	25	1.366	34.7	145	2100	193	2799	200	7.87	475	0.319	BP1R1TV

** Tubazione non prevista dalla normativa SAE 100R8.

** Hose not provided for by SAE 100R8 Standard.