

PLEXAGON

HYDRAULIC HOSES



Plexagon, LLC

Catalog - December 18th, 2013

The data reported in this catalog are not binding.
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without notice.

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1. HOSE SIZE

04 = 1/4"
 06 = 3/8"
 08 = 1/2"
 10 = 5/8"
 12 = 3/4"
 16 = 1"
 20 = 1-1/4"
 24 = 1-1/2"
 32 = 2"

2. FITTING SIZES

04 = 1/4"
 06 = 3/8"
 08 = 1/2"
 10 = 5/8"
 12 = 3/4"
 16 = 1"
 20 = 1-1/4"
 24 = 1-1/2"
 32 = 2"

3. SERIES

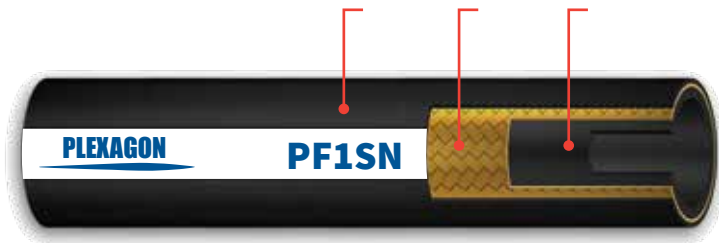
K
 J
 H
 HLZ

4. CONNECTION

FBSPORS FEMALE BRITISH STANDARD PIPE O-RING
 FBSPORS45 FEMALE BRITISH STANDARD PIPE O-RING-45
 FBSPORS90 FEMALE BRITISH STANDARD PIPE O-RING-90
 FDHORS FEMALE DIN HEAVY O-RING SWIVEL
 FDHORS45 FEMALE DIN HEAVY O-RING SWIVEL-45
 FDHORS90 FEMALE DIN HEAVY O-RING SWIVEL-90
 FDLORS FEMALE DIN LIGHT O-RING SWIVEL
 FDLORS90 FEMALE DIN LIGHT O-RING SWIVEL-90
 FFORS FEMALE FLAT-FACE O-RING
 FFORS45 FEMALE FLAT-FACE O-RING-45
 FFORS90 FEMALE FLAT-FACE O-RING-90
 FFORS90L FEMALE FLAT-FACE O-RING-90 LONG
 FJISS FEMALE JAPANESE INDUSTRIAL STANDARD SWIVEL
 FJS FEMALE JIC 37 FLARE SWIVEL
 FJS45 FEMALE JIC 37 FLARE SWIVEL-45
 FJS90 FEMALE JIC 37 FLARE SWIVEL-90
 FKS FEMALE KOMATSU SWIVEL
 FKS45 FEMALE KOMATSU SWIVEL-45
 FKS90 FEMALE KOMATSU SWIVEL-90
 FL FLANGE CODE 61
 FL22 FLANGE CODE 61-22
 FL30 FLANGE CODE 61-30
 FL45 FLANGE CODE 61-45
 FL90 FLANGE CODE 61-90
 FL90L FLANGE CODE 61-90L
 FLC FLANGE CAT
 FLC22 FLANGE CAT-22
 FLC30 FLANGE CAT-30
 FLC45 FLANGE CAT-45
 FLC90 FLANGE CAT-90
 FLH FLANGE CODE 62
 FLH45 FLANGE CODE 62-45
 FLH90 FLANGE CODE 62-90
 FPS FEMALE PIPE SWIVEL
 MB MALE O-RING BOSS
 MBS MALE O-RING BOSS SWIVEL
 MBSPP MALE BRITISH STD PARALLEL PIPE
 MBSPT MALE BRITISH STD PIPE TAPERED
 MFA SAE MALE FLARELESS ASSEMBLY
 MFFOR MALE FLAT-FACE O-RING
 MIS SAE MALE INVERTED SWIVEL
 MJ MALE JIC 37 FLARE
 MP MALE PIPE
 MPS MALE PIPE SWIVEL
 MPS90 MALE PIPE SWIVEL-90

Plex-Flex 1SN

EXCEEDS SAE 100R1AT



A. Construction

- 1 - Synthetic rubber tube
- 2 - One high tensile steel wire braid
- 3 - Synthetic rubber cover MSHA flame resistant approved

B. Application

Hydraulic oils, both mineral and biological
Polyglycol base oils, water-oil emulsions

C. Temperature range

Hydraulic oils: -40 °C to +100 °C (-40 °F to +212°F) occasional peaks up to +125 °C (+250 °F)
Polyglycol base oils, water-oil emulsions and water: up to +85 °C (+185 °F)

HOSE TYPE	INSIDE DIAMETER		REINFORCEMENT DIAMETER		OUTSIDE DIAMETER		WORKING PRESSURE		BURST PRESSURE		BEND RADIUS		WEIGHT	
	INCH	SIZE	[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[mm]	[in]	[kg/m]	[lb/ft]
PF1SN04	1/4"	04	11.1	0.437	13.4	0.528	225	3265	900	13060	100	3.94	0.21	0.14
PF1SN06	3/8"	06	15.1	0.594	17.4	0.685	180	2610	720	10440	115	4.53	0.33	0.22
PF1SN08	1/2"	08	18.3	0.720	20.6	0.811	160	2320	640	9280	180	7.09	0.41	0.28
PF1SN10	5/8"	10	21.4	0.843	23.7	0.933	130	1890	520	7540	200	7.87	0.45	0.30
PF1SN12	3/4"	12	25.4	1.000	27.7	1.091	105	1525	420	6100	240	9.45	0.58	0.39
PF1SN16	1"	16	33.3	1.311	35.6	1.402	88	1275	350	5100	300	11.81	0.88	0.59
PF1SN20	1 1/4"	20	40.5	1.594	43.5	1.713	63	915	250	3660	420	16.54	1.23	0.83
PF1SN24*	1 1/2"	24	46.8	1.843	50.6	1.992	50	725	200	2900	500	19.69	1.51	1.01
PF1SN32*	2"	32	60.2	2.370	64.0	2.520	40	580	160	2320	630	24.80	1.97	1.32

* Available upon request

COMPATIBILITY CHART BETWEEN THIS HOSE AND PLEXAGON APPROVED FITTINGS

PF1SN	-04	-06	-08	-10	-12	-16	-20	-24	-32
1 Piece 	No-skive: K series								
	0.657"	0.823"	0.953"	1.083"	1.252"	1.598"			
	No-skive: J series								
		0.854"	0.935"	1.220"	1.299"	1.626"	2.020"	2.362"	2.752"

Plex-Flex 2SN

2SN – 100R2S



A. Construction

- 1 - Synthetic rubber tube
- 2 - Two high tensile steel wire braids
- 3 - Synthetic rubber cover MSHA flame resistant approved

B. Application

Hydraulic oils both mineral and biological, polyglycol base oils, water-oil emulsions and water

C. Temperature range

Hydraulic oils: -40 °C to +100 °C (-40 °F to +212°F)

occasional peaks up to +125 °C (+250 °F)

Polyglycol base oils, water-oil emulsions and water: up to +85 °C (+185 °F)

HOSE TYPE	INSIDE DIAMETER		REINFORCEMENT DIAMETER		OUTSIDE DIAMETER		WORKING PRESSURE		BURST PRESSURE		BEND RADIUS		WEIGHT	
	INCH	SIZE	[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[mm]	[in]	[kg/m]	[lb/ft]
PF2SN04	1/4"	04	1.7	0.500	15.0	0.591	400	5800	1600	23200	100	3.94	0.33	0.22
PF2SN06	3/8"	06	16.7	0.657	19.0	0.748	330	4785	1320	19140	130	5.12	0.50	0.34
PF2SN08	1/2"	08	19.8	0.780	22.2	0.874	275	3990	1100	15960	180	7.09	0.59	0.40
PF2SN10	5/8"	10	23.0	0.906	25.4	1.000	250	3625	1000	14500	200	7.87	0.71	0.48
PF2SN12	3/4"	12	27.0	1.063	29.3	1.154	215	3120	860	12480	240	9.45	0.86	0.58
PF2SN16	1"	16	34.9	1.374	38.1	1.500	165	2395	660	9580	300	11.81	1.28	0.86
PF2SN20	1 1/4"	20	44.5	1.752	48.3	1.902	125	1815	500	7260	420	16.54	2.02	1.36
PF2SN24	1 1/2"	24	50.8	2.000	54.6	2.150	90	1305	360	5220	500	19.69	2.23	1.50
PF2SN32	2"	32	63.5	2.500	67.3	2.650	80	1160	320	4640	630	24.80	2.85	1.92

COMPATIBILITY CHART BETWEEN THIS HOSE AND PLEXAGON APPROVED FITTINGS

PF2SN	-04	-06	-08	-10	-12	-16	-20	-24	-32
1 Piece 	No-skive: K series								
	0.685"	0.866"	1.004"	1.134"	1.295"	1.638"			
	No-skive: J series								
		0.898"	0.980"	1.268"	1.343"	1.665"	2.063"	2.398"	2.870"

Plex-Flex 100R16

SAE 100R16S



A. Construction

- 1 - Synthetic rubber tube
- 2 - Two high tensile steel wire braids
- 3 - Synthetic rubber cover MSHA flame resistant approved

B. Application

Hydraulic oils, both mineral and biological, polyglycol base oils, water-oil emulsions and water

C. Temperature range

Hydraulic oils: -40°C to +100°C (-40°F to +212°F)

Polyglycol base oils, water-oil emulsions and water: up to +85°C (+185°F)

HOSE TYPE	INSIDE DIAMETER		REINFORCEMENT DIAMETER		OUTSIDE DIAMETER		WORKING PRESSURE		BURST PRESSURE		BEND RADIUS		WEIGHT	
	INCH	SIZE	[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[mm]	[in]	[kg/m]	[lb/ft]
PFR1604	1/4"	04	12.3	0.484	14.4	0.567	400	5800	1600	23200	50	1.969	0.26	0.17
PFR1606	3/8"	06	15.8	0.622	18.8	0.740	330	4780	1320	19150	65	2.559	0.40	0.27
PFR1608	1/2"	08	19.0	0.748	21.9	0.862	275	3980	1100	15950	90	3.543	0.48	0.32
PFR1610*	5/8"	10	22.4	0.882	25.4	1.000	250	3620	1000	14500	100	3.937	0.55	0.37
PFR1612	3/4"	12	26.2	1.031	28.9	1.138	215	3110	860	12470	120	4.724	0.71	0.48
PFR1616	1"	16	34.0	1.339	36.5	1.437	165	2390	660	9570	150	5.906	1.00	0.67

* Available upon request

COMPATIBILITY CHART BETWEEN THIS HOSE AND PLEXAGON APPROVED FITTINGS

PFR16	-04	-06	-08	-10	-12	-16
1 Piece 	No-skive: K series					
	0.669"	0.839"	0.996"	1.114"	1.252"	1.598"
	No-skive: J series					
		0.866"	0.961"	1.220"	1.299"	1.602"

Plex-Flex 100R17

SAE 100R17



A. Construction

- 1 - Synthetic rubber tube
- 2 - Sizes -04 through -08 have one high tensile steel wire braid; sizes -10 and up have two high tensile steel wire braids
- 3 - Synthetic rubber cover MSHA flame resistant approved

B. Application

Hydraulic oils, both mineral and biological, polyglycol base oils, water-oil emulsions and water

C. Temperature range

Hydraulic oils: -40°C to +100°C (-40°F to +212°F)

Polyglycol base oils, water-oil emulsions and water: up to +85°C (+185°F)

HOSE TYPE	INSIDE DIAMETER		REINFORCEMENT DIAMETER		OUTSIDE DIAMETER		WORKING PRESSURE		BURST PRESSURE		BEND RADIUS		WEIGHT	
	INCH	SIZE	[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[mm]	[in]	[kg/m]	[lb/ft]
PFR1704	1/4"	04	10.5	0.413	12.5	0.492	210	3045	840	12183	50	1.97	0.19	0.13
PFR1706	3/8"	06	13.9	0.547	16.5	0.65	210	3045	840	12183	65	2.56	0.27	0.18
PFR1708	1/2"	08	17.6	0.693	19.7	0.776	210	3045	840	12183	90	3.54	0.46	0.31
PFR1710*	5/8"	10	21.9	0.862	24.0	0.945	210	3045	840	12183	100	3.94	0.57	0.38
PFR1712	3/4"	12	25.7	1.012	28.0	1.102	210	3045	840	12183	120	4.72	0.78	0.52
PFR1716	1"	16	33.8	1.330	36.2	1.425	210	3045	840	12183	150	5.91	1.40	0.94

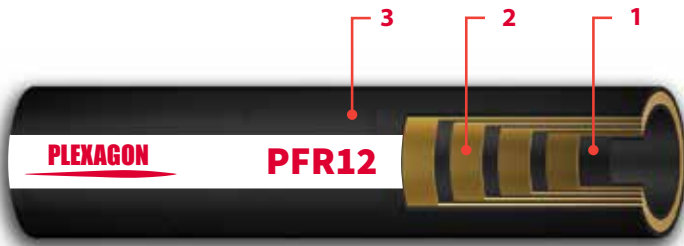
* Available upon request

COMPATIBILITY CHART BETWEEN THIS HOSE AND PLEXAGON APPROVED FITTINGS

PFR17	-04	-06	-08	-10	-12	-16
1 Piece 	No-skive: K series					
	0.630"	0.780"	0.917"	1.134"	1.252"	1.555"
	No-skive: J series					
				1.255"	1.299"	1.591"

Plex-Force 100R12

EXCEEDS SAE 100R12



A. Construction

- 1 - Synthetic rubber tube
- 2 - Four high tensile steel wire spirals
- 3 - Synthetic rubber cover MSHA flame resistant approved

B. Application

High pressure hydraulic system with extreme high pressure peaks for use with hydraulic oils, both mineral and biological, polyglycol base oils, water-oil emulsions and water

C. Temperature range

Hydraulic oils: -40°C to +100°C (-40°F to +212°F) occasional peaks up to +125°C (+250°F)
Polyglycol base oils, water-oil emulsions and water: up to +85°C (+185°F)

HOSE TYPE	INSIDE DIAMETER		REINFORCEMENT DIAMETER		OUTSIDE DIAMETER		WORKING PRESSURE		BURST PRESSURE		BEND RADIUS		WEIGHT	
	INCH	SIZE	[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[mm]	[in]	[kg/m]	[lb/ft]
PFR1206	3/8"	06	17.5	0.689	19.5	0.768	450	6500	1800	26000	180	7.09	0.69	0.46
PFR1208	1/2"	08	20.3	0.799	22.3	0.878	420	6000	1680	24000	230	9.06	0.80	0.54
PFR1210	5/8"	10	23.8	0.937	25.8	1.016	350	5000	1400	20000	250	9.84	0.96	0.64
PFR1212	3/4"	12	28.2	1.110	30.2	1.189	350	5000	1400	20000	300	11.81	1.42	0.95
PFR1216	1"	16	35.1	1.382	37.3	1.469	280	4000	1120	16000	300	11.81	1.85	1.24
PFR1220	1 1/4"	20	43.6	1.717	45.8	1.803	210	3000	840	12000	420	16.54	2.53	1.70
PFR1224	1 1/2"	24	50.1	1.972	52.3	2.059	210	3000	840	12000	500	19.69	2.96	1.99
PFR1232	2"	32	63.6	2.504	66.7	2.626	210	3000	840	12000	630	24.80	4.30	2.89

COMPATIBILITY CHART BETWEEN THIS HOSE AND PLEXAGON APPROVED FITTINGS

PFR12	-06	-08	-10	-12	-16	-20	-24	-32
1 Piece 	No-skive: J series							
	0.921"	1.000"	1.260"	1.386"	1.630"	2.043"	2.374"	2.945"

Plex-Force 100R13

EN 856 / SAE 100R13



A. Construction

- 1 - Synthetic rubber tube
- 2 - Four high tensile steel wire spirals for sizes 12 and 16 and six high tensile steel wire spirals for other sizes
- 3 - Synthetic rubber cover MSHA flame resistant approved

B. Application

High pressure hydraulic system with extreme high pressure peaks for use with hydraulic oils, both mineral and biological, polyglycol base oils, water-oil emulsions and water

C. Temperature range

Hydraulic oils: -40°C to +121°C (-40°F to +250°F) occasional peaks up to +125°C (+257°F)

Polyglycol base oils, water-oil emulsions and water: up to +85°C (+185°F)

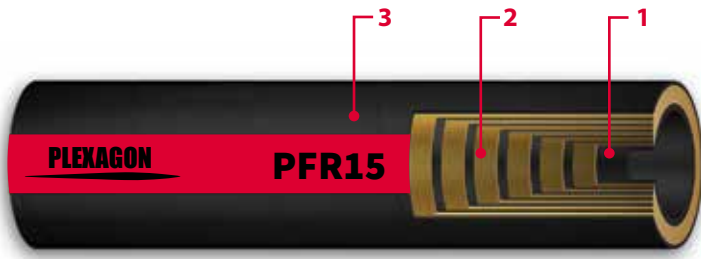
HOSE TYPE	INSIDE DIAMETER		REINFORCEMENT DIAMETER		OUTSIDE DIAMETER		WORKING PRESSURE		BURST PRESSURE		BEND RADIUS		WEIGHT	
	INCH	SIZE	[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[mm]	[in]	[kg/m]	[lb/ft]
PFR1312	3/4"	12	29.0	1.142	32.1	1.264	350	5000	1400	20000	241	9.49	1.60	1.08
PFR1316	1"	16	35.1	1.382	38.4	1.512	350	5000	1400	20000	300	11.81	2.13	1.43
PFR1320	1 1/4"	20	46.8	1.843	49.8	1.961	350	5000	1400	20000	420	16.54	4.40	2.96
PFR1324	1 1/2"	24	54.3	2.138	57.3	2.256	350	5000	1400	20000	500	19.69	4.80	3.23
PFR1332	2"	32	68.1	2.681	71.1	2.799	350	5000	1400	20000	635	25.00	7.20	4.84

COMPATIBILITY CHART BETWEEN THIS HOSE AND PLEXAGON APPROVED FITTINGS

PFR13	-06	-08	-10	-12	-16	-20	-24	-32
1 Piece 	No-skive: J series							
	0.929"	1.008"	1.276"	1.398"	1.646"			
						No-skive: H series		
						2.244"	2.508"	3.102"

Plex-Force 100R15

SAE 100R15



A. Construction

- 1 - Synthetic rubber tube
- 2 - Four high tensile steel wire spirals for size 12 and 16 and six high tensile steel wire spirals for other sizes
- 3 - Synthetic rubber cover MSHA flame resistant approved

B. Application

High pressure hydraulic system with extreme high pressure peaks for use with hydraulic oils, both mineral and biological, polyglycol base oils, water-oil emulsions and water

C. Temperature range

Hydraulic oils: -40°C to +121°C (-40°F to +250°F) occasional peaks up to +125°C (+257°F)

Polyglycol base oils, water-oil emulsions and water: up to +85°C (+185°F)

HOSE TYPE	INSIDE DIAMETER		REINFORCEMENT DIAMETER		OUTSIDE DIAMETER		WORKING PRESSURE		BURST PRESSURE		BEND RADIUS		WEIGHT	
	INCH	SIZE	[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[mm]	[in]	[kg/m]	[lb/ft]
PFR1516	1"	16	35.2	1.386	38.3	1.508	420	6000	1680	24000	340	13.39	2.00	1.34
PFR1520	1 1/4"	20	46.8	1.843	49.4	1.945	420	6000	1680	24000	420	16.54	3.48	2.34
PFR1524*	1 1/2"	24	53.4	2.102	57.3	2.256	420	6000	1680	24000	510	20.08	4.63	3.11
PFR1532*	2"	32	67.3	2.65	71.7	2.823	420	6000	1680	24000	630	24.80	6.70	4.50

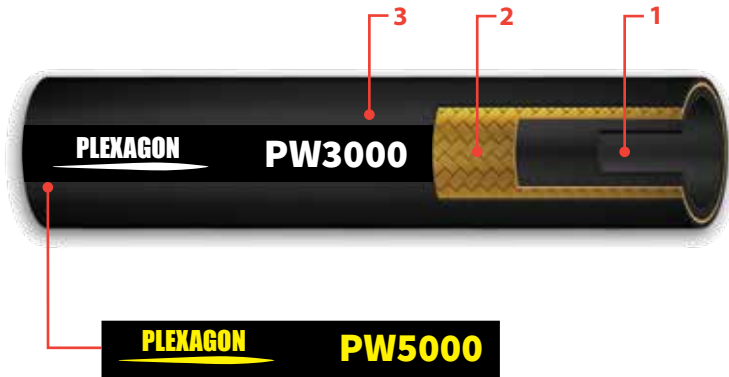
* Available upon request

COMPATIBILITY CHART BETWEEN THIS HOSE AND PLEXAGON APPROVED FITTINGS

PFR15	-06	-08	-10	-12	-16	-20	-24	-32
1 Piece 	No-skive: J series							
	0.929"	1.008"	1.276"	1.398"	1.646"			
						No-skive: H series		
						2.244"	2.508"	
								No-skive: HLZ series
								3.102"

Power Wash

PW3000 & PW5000



A. Construction

- 1 - Synthetic rubber tube
- 2 - PW3000 has one high tensile steel wire braid & PW5000 has two high tensile steel wire braids
- 3 - Synthetic rubber cover

B. Application

Very high constant pressure hose for water and water emulsions scaling systems

C. Temperature range

-40°C to +80°C (-40°F to +176°F)

HOSE TYPE	INSIDE DIAMETER		REINFORCEMENT DIAMETER		OUTSIDE DIAMETER		WORKING PRESSURE		BURST PRESSURE		BEND RADIUS		WEIGHT	
	INCH	SIZE	[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]	[mm]	[in]	[kg/m]	[lb/ft]
PW3000	3/8"	06	13.9	0.55	16	0.63	210	3000	620	9000	75	2.95	0.27	0.18
PW5000	3/8"	06	15.2	0.59	17.2	0.68	350	5000	1034	15000	90	3.50	0.40	0.27

COMPATIBILITY CHART BETWEEN THIS HOSE AND PLEXAGON APPROVED FITTINGS

PW3000		-06
1 Piece		No-skive: K Series 0.779"
PW5000		-06
1 Piece		No-skive: K Series 0.811"