



# HP/HP8 H.P. Hoses - 8,000 - 10,000 psi

Engineering Bulletin



ENGINEERING YOUR SUCCESS.

# High Pressure Hydraulic/Pneumatic Hose

8,000 & 10,000 psi Working Pressure With 4:1 Burst Pressure

Parker's HP/HP8 Series hoses are designed for use in high pressure hydraulic and pneumatic applications and also work well with lubricating oils. The elastomeric core tube provides the cleanest method of fluid conveyance.

Parflex HP hose has a blue, perforated elastomeric cover and is designed for a wide range of hydraulic and pneumatic applications. HP8 has an orange, non-perforated cover and is designed for electrically non-conductive hydraulic applications. HP8 hoses meet SAE J517 specifications for less than 50 micro amps electrical current leakage after aging and test at 75,000 volts per foot. Both hoses are available in 3/16", 1/4", and 3/8" I.D. with a 4:1 burst pressure.



Meets or exceeds SAE J517 for less than 50 microamps leakage under 75,000 volts per foot

## Product Features:

- Superior kink resistance and abrasion resistance extend hose life, reducing maintenance and warranty cost
- Seamless thermoplastic elastomeric tube with specially bonded construction provide excellent service life
- Compact O.D. and tight bend radius allows for ease of handling, routing and installation in confined spaces
- Full 4:1 design factor
- Suitable for use on electric utility vehicles and with insulated tool requirements
- Twin-line or multi-line constructions available to simplify multiple hose routings
- Available for 3/16", 1/4", and 3/8" I.D. hose sizes

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## Markets

- Oil & Gas
- Hydraulic

NOTE: Not recommended for water blast applications or for use in static discharge applications (ie. airless paint spray).

### HP Hose

- High pressure tools
- Rigging jacks
- Test apparatus
- Oilfield pressure control devices
- Offshore oil applications

### HP8 Hose

- High pressure tools
- Utility line tools
- Aerial baskets
- Crimping Equipment
- Most applications served by HP Hose

Part Number	Jacket Color	Nominal I.D.			Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Fitting Series
#													
		DN	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	
HP-3	Blue	5	3/16	4.8	0.51	13.0	10,000	69.0	1.50	38	0.09	0.13	HP*
HP-4	Blue	6	1/4	6.4	0.58	14.7	10,000	69.0	2.50	64	0.11	0.16	HP*
HP-6	Blue	10	3/8	9.5	0.73	18.5	8,000	55.2	3.00	76	0.16	0.23	HP*
HP8-3	Orange	5	3/16	4.8	0.51	13.0	10,000	69.0	1.50	38	0.09	0.13	HP*
HP8-4	Orange	6	1/4	6.4	0.58	14.7	10,000	69.0	2.50	64	0.11	0.16	HP*
HP8-6	Orange	10	3/8	9.5	0.73	18.5	8,000	55.2	3.00	76	0.16	0.23	HP*

## Construction

Core Tube: Specially formulated thermoplastic elastomer

Reinforcement: High tensile strength aramid fiber

Cover: HP- perforated elastomeric cover

HP8- non-perforated elastomeric cover

## Temperature Range

-40°F to +150°F (-40°C to +66°C) for petroleum, synthetic or water-based hydraulic fluids, pneumatic and gas service, and with some solvents and chemicals

## Notes

Assembly working pressure is dependent on the lowest rated component. Therefore, if fittings have a lower pressure rating than the hose, the working pressure of the fittings is the working pressure of the assembly.

The above hoses are not intended for use in static discharge applications (i.e., airless paint spray).

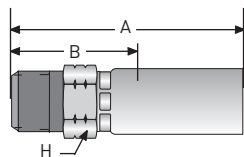
Required hose safety guards are available in 12" and 23" lengths.



## Fittings

USE ONLY SPECIAL HP FITTINGS, SWAGE DIES AND CRIMP DIES listed on these pages.

### 101HP- NPT Male

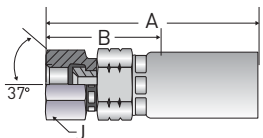


Material:

Nipple - Carbon steel, zinc-plated  
C - Stainless steel  
Shell - Carbon steel, zinc-plated  
C - Stainless steel

Part Number	Nominal I.D.				Thread Size	A Overall Length		B Cutoff Allowance		H Hex		Maximum Working Pressure	
#													
	DN	Size	inch	mm		inch	mm	inch	mm	inch	mm	psi	MPa
101HP-2-3	5	-03	3/16	4.8	1/8" - 27	1.94	49	1.19	30	0.560	14	10,000	69
101HP-4-3	5	-03	3/16	4.8	1/4" - 18	2.12	54	1.38	35	0.690	17	10,000	69
101HP-6-3	5	-03	3/16	4.8	3/8" - 18	2.22	56	1.50	38	0.750	19	10,000	69
101HP-2-4	6	-04	1/4	6.4	1/8" - 27	2.10	53	1.19	30	0.630	16	10,000	69
101HP-4-4	6	-04	1/4	6.4	1/4" - 18	2.28	58	1.38	35	0.690	17	10,000	69
101HP-6-4	6	-04	1/4	6.4	3/8" - 18	2.38	60	1.38	35	0.750	19	10,000	69
101HP-6-4C	6	-04	1/4	6.4	3/8" - 18	2.38	60	1.38	35	0.750	19	10,000	69
101HP-4-6	10	-06	3/8	9.5	1/4" - 18	2.70	69	1.50	38	0.750	19	8,000	55
101HP-6-6	10	-06	3/8	9.5	3/8" - 18	2.70	69	1.50	38	0.750	19	8,000	55
101HP-8-6	10	-06	3/8	9.5	1/2" - 14	2.96	75	1.75	44	0.940	24	8,000	55

### 106HP- JIC 37° Female Flare



Material:

Nipple - Carbon steel, zinc-plated  
C - Stainless steel  
Shell - Carbon steel, zinc-plated  
C - Stainless steel

Part Number	Nominal I.D.				Thread Size	A Overall Length		B Cutoff Allowance		J Hex		Maximum Working Pressure	
#													
	DN	Size	inch	mm		inch	mm	inch	mm	inch	mm	psi	MPa
106HP-4-3	5	-03	3/16	4.8	7/16" - 20	2.2	56	1.44	37	0.630	16	10,000	69
106HP-4-4	6	-04	1/4	6.4	7/16" - 20	2.49	63	1.56	40	0.630	16	10,000	69
106HP-4-4C	6	-04	1/4	6.4	7/16" - 20	2.49	63	1.56	40	0.630	16	10,000	69
106HP-6-4	6	-04	1/4	6.4	9/16" - 18	2.59	66	1.69	43	0.750	19	10,000	69
106HP-6-6	10	-06	3/8	9.5	9/16" - 18	2.91	74	1.63	41	0.750	19	8,000	55
106HP-6-6C	10	-06	3/8	9.5	9/16" - 18	2.91	74	1.63	41	0.750	19	8,000	55
106HP-8-6C	10	-06	3/8	9.5	3/4" - 16	3.10	79	1.80	46	0.938	24	8,000	55



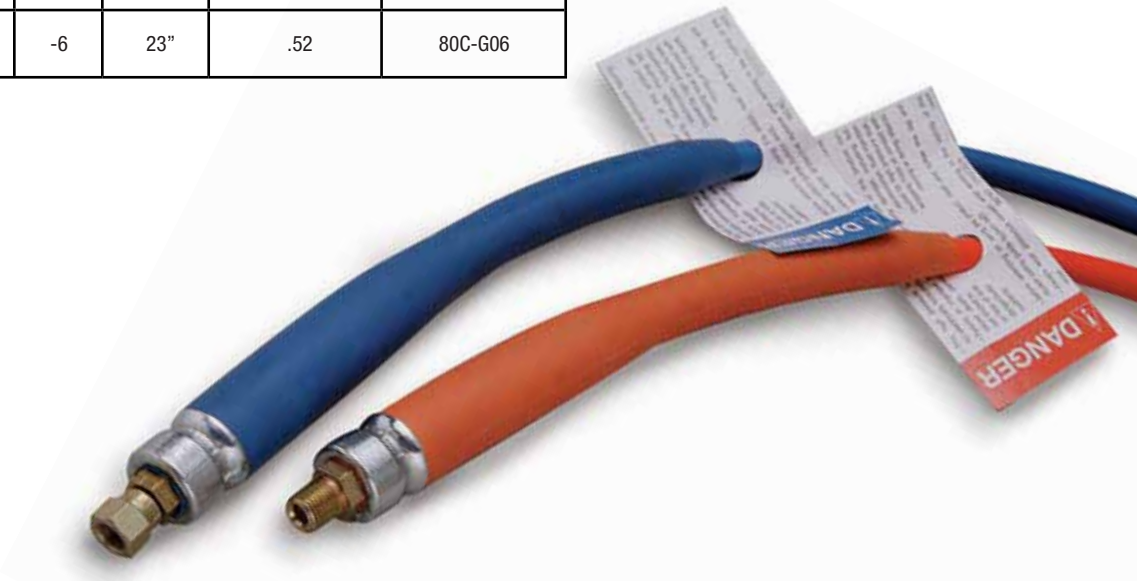
# HPG - Safety Guard Kits

All Parflex HP assemblies come equipped with specially designed blue or orange elastomeric safety guards.

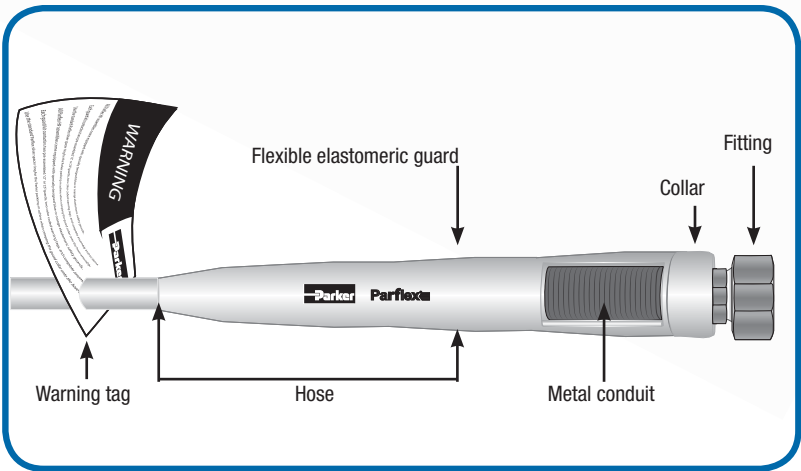
Each guard kit contains two pre-assembled 12" or 23"guards, two color coded warning tags, and complete assembly instructions.

Use the standard Parflex silver spacer ring for the Parker Parkrimp machine when crimping the guard collar onto the hose assembly.

Hose Part Number	Guard Kit Part Number	Hose Size	Guard Length	Weight per Guard (lbs.)	Guard Crimp Die Part Number
HP-3 HP8-3	HPG3-12K HPG3-12K-ORG	-3	12"	.27	80C-G03
	HPG3-23K HPG3-23K-ORG	-3	23"	.37	80C-G03
HP-4 HP8-4	HPG4-12K HPG4-12K-ORG	-4	12"	.32	80C-G04
	HPG4-23K HPG4-23K-ORG	-4	23"	.42	80C-G04
HP-6 HP8-6	HPG6-12K HPG6-12K-ORG	-6	12"	.40	80C-G06
	HPG6-23K HPG6-23K-ORG	-6	23"	.52	80C-G06



HPG - Safety Guard Kit





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