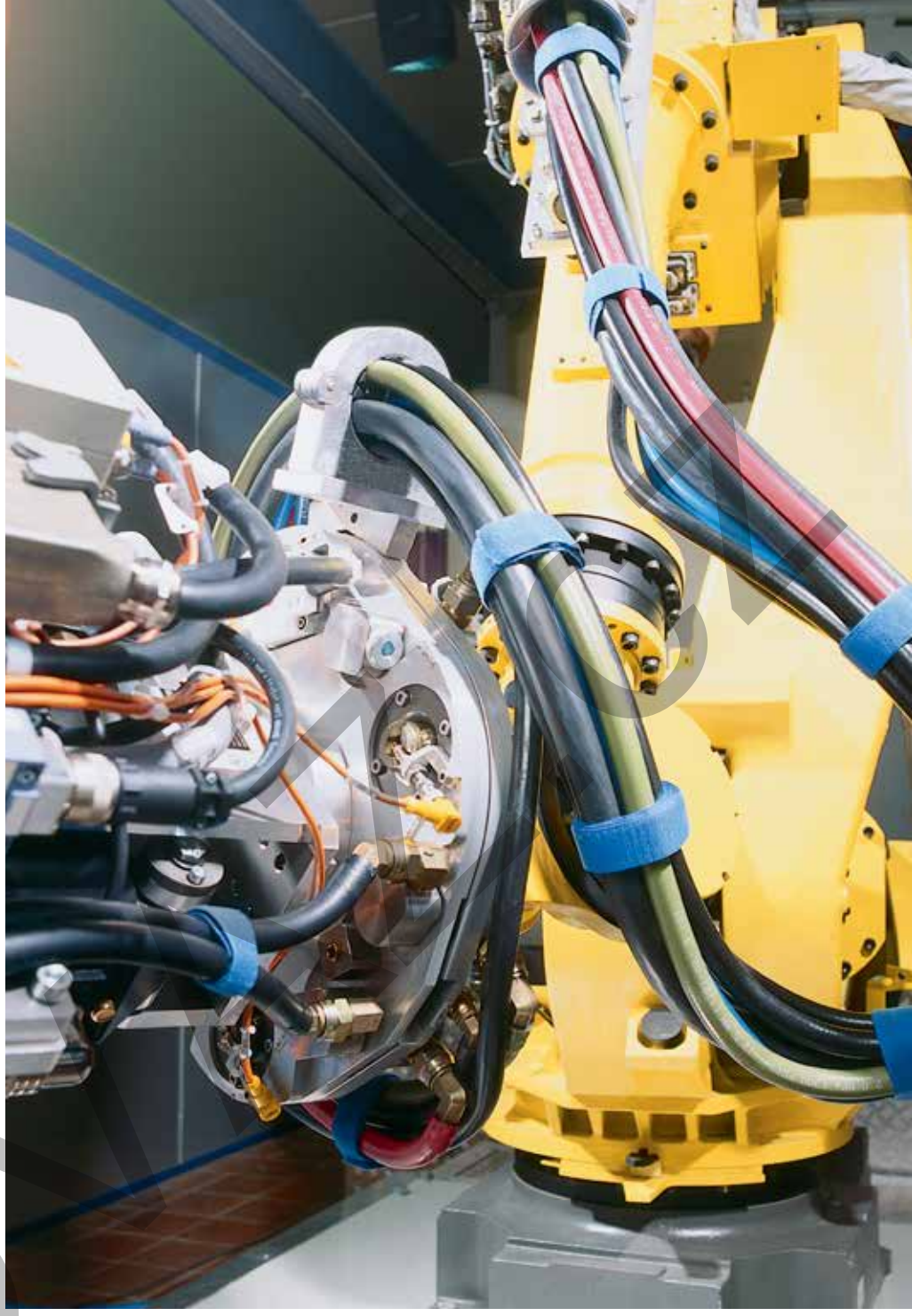


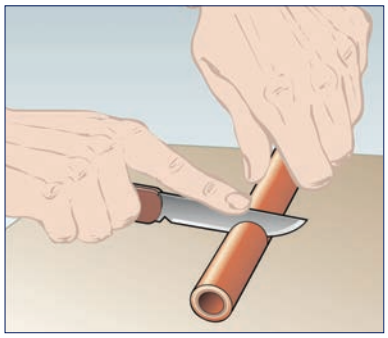
Hydraulic Hoses and Fittings

Low Pressure

Parker

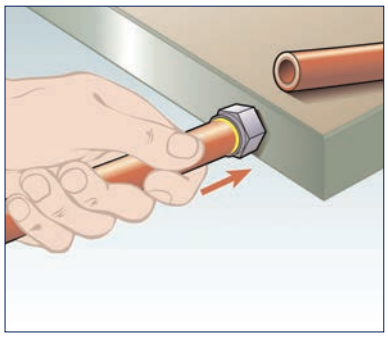
ENGINEERING YOUR SUCCESS.

Easy assembly – no tools or clamps required



Assembly Instructions

1. Cut the hose right angled with a sharp knife. If necessary it is possible to use a lubricant (water/soap solution with 5 % soap fluid and 95 % water) for easy assembly.



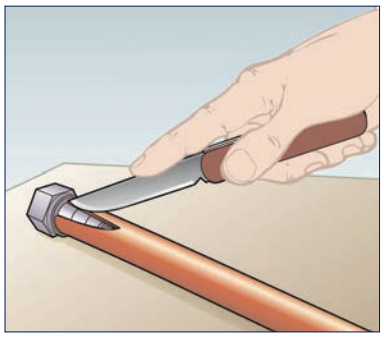
2. Insert fitting into hose until first barb is in hose. Place end of fitting against a flat object (bench, door, wall) and grip hose approximately 1" from end and push with a steady force until end of hose is covered by yellow plastic collar. Alternatively please use the Parker Assembly Tool No 611050G, 611050HV or TH1E-5.

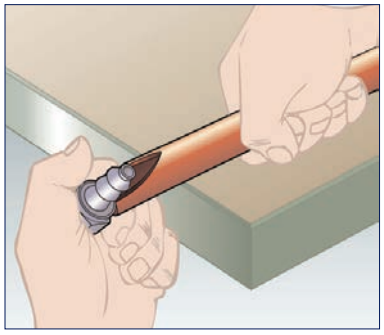
Attention!

During assembly, please keep in mind that Push-Lok fittings will provide an effective grip only when thePush-Lok hose is pushed fully on the insert, where the cropped end of the hose should be fully concealed by the plastic collar. **For easy assembly of hose 830M, 837BM and 837PU please use only Push-Lok Assembly Oil No. H896137.** Push-Lok Assembly Oil is free from wetting disturbing substances. Don't use oil, lubricant or soap fluids for this hose!

Disassembly Instructions

1. Cut lengthwise along a line at approximately a 20 angle from centre line of hose. The cut should be approximately 1" long.
   Be careful not to nick barbs when cutting the hose.





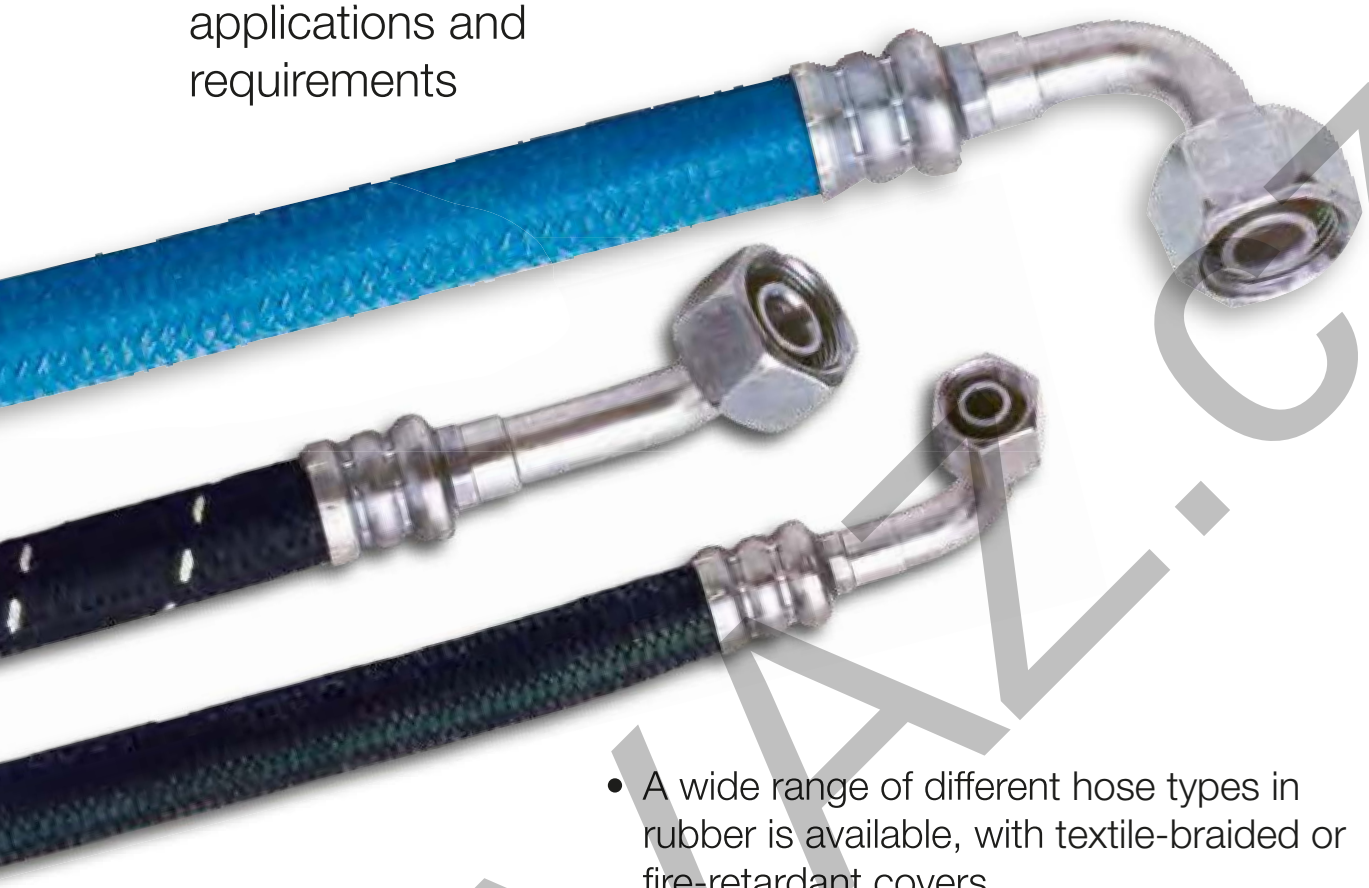
2. Grip hose and give a sharp down-ward tug to disengage from fitting.

Attention!

Before re-use of the nipple please check nipple for damage. Damaged nipples can cause leakage.

Low Pressure Transportation and Hydraulic Hose and Fittings

– the right solution for special applications and requirements



- A wide range of different hose types in rubber is available, with textile-braided or fire-retardant covers
- Proven, safe and easy self-assembly system
- Large bore sizes available
- High working temperatures
- One fitting series for all SAE 100 R5 and similar hoses

Applications

The definitive hose range for all special applications and requirements

Parkrimp® *No-Skive*

The system for fast and leak-free assemblies

The perfect match

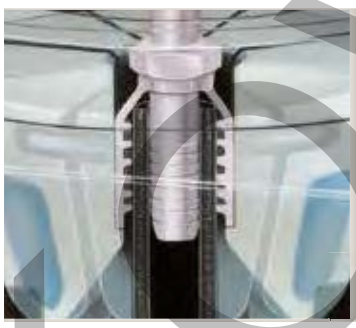
The complete system from one source. No-Skive hose, No-Skive fitting and crimping machine with world-wide guarantee and availability.

Parker's colour-coded die sets

No loose parts to mismatch or misplace – die set segments linked together.

Die sets provide 360° evenly applied crimping forces for an ideal crimp result.

Parkalign®



Parker's exclusive Parkalign® positions the fitting in the dies perfectly every time.

KarryKrimp® 1

KarryKrimp® 2

Parkrimp®

KarryKrimp® 2
Bench Mount

Parkrimp® *No-Skive*

- No skiving tool needed
- No need to remove the cover
- Crimps one-piece fittings
- Parkalign positions the fittings in the dies perfectly every time
- Quick and easy: no gauges to set on the machine
- Portable machines for field repair
- Meets EN safety regulations

Low Pressure Transportation and Hydraulic

High temperature

611HT
B2a-7

No-Skive
High-temperature textile hose

Railway

681DB
B2a-8

No-Skive **2TE**
EN 854-2TE
(with approvals for rail transportation)

Transportation

201
B2a-1

No-Skive **Airbrake**
SAE 100R5 - SAE J1402AII

206
B2a-2

No-Skive **Airbrake**
SAE 100R5 - SAE J1402AII

213
B2a-3

No-Skive **High Temperature**
For engines and compressed air systems

293
B2a-6

No-Skive **High Temperature**
Engine and air brake/truck hose

Fire retardant

221FR
B2a-4

No-Skive **Fire Retardant**
Marine fuel and engine hose

Refrigeration

285
B2a-5

Air Conditioning and Refrigeration
SAE J2064 Type C, Class 1

201

No-Skive Airbrake

SAE 100R5 - SAE J1402AII

- Textile braided cover
- *No-Skive* hose construction
- 150 °C working temperature

Primary Applications

Transportation: Air brake hose
General: Low pressure applications

Type Approvals

Details please find on pages ***Ab-16*** to ***Ab-19***

Applicable Specifications

SAE 100R5, SAE J1402AII, D. O. T. FMVSS 106-AII

Construction

Inner tube: Synthetic rubber
Reinforcement: One fibre braid
One high-tensile steel wire braid
Cover: Rubber layer and textile braided cover

Temperature Range ..... -40 °C up to +150 °C

Exception: Air ..... max. +70 °C
Water ..... max. +85 °C

Recommended Fluids

Petroleum based hydraulic fluids, water-glycol and water-oil emulsion hydraulic fluids, grease, lubricants, crude and fuel oils, air and water.
Consult the chemical compatibility section on pages ***Ab-26*** to ***Ab-34*** for more detailed information.

Fitting Series

26

Part Number	Hose I.D.			Hose O.D.	Pressure Rating: max. working pressure		Pressure Rating: min. burst pressure		Vaccum*	min. bend radius	weight
	Inch	Size	mm	mm	MPa	psi	MPa	psi	kPa	mm	kg
201-4	3/16	-4	5.0	12.2	20.7	3000	83.0	12000	95	75	0.22
201-5	1/4	-5	6.3	14.8	20.7	3000	83.0	12000	95	85	0.27
201-6	5/16	-6	8.0	17.2	15.5	2250	62.0	9000	95	100	0.34
201-8	13/32	-8	10.0	19.5	13.8	2000	55.0	8000	95	120	0.40
201-10	1/2	-10	12.5	23.4	12.0	1750	48.0	7000	95	140	0.55
201-12	5/8	-12	16.0	27.4	10.3	1500	41.0	6000	95	165	0.68
201-16	7/8	-16	22.0	31.4	5.5	800	22.0	3200	67	185	0.68
201-20	1 1/8	-20	29.0	38.1	4.3	625	17.0	2500	67	230	0.76
201-24	1 3/8	-24	35.0	44.5	3.5	500	14.0	2000	51	265	1.01
201-32	1 13/16	-32	46.0	56.4	2.4	350	10.0	1400	37	335	1.32

*1 = the vacuum values listed in the table are vacuum pressure values in kPa. For an absolute value subtract the table value from 101kPa.
The combination of high temperature and high pressure could reduce the hose life.
The maximum working pressures shown in the table are for service up to a maximum temperature of 100 ∞C.
For use at higher temperatures, consult the pressure/temperature curve in section A for the reduced maximum working pressure.

Hose layline example

Parker 201-6 AIR BRAKE DOT XXXXX AII 8 mm (5/16) SAE J1402 DOT XXXXX AII WP 15,7 MPa (2250 PSI) DOT XXXXX AII SAE 100R5-6 8/78 DOT XXXXX AII MADE IN XXXX

206

No-Skive Airbrake

SAE 100R5 - SAE J1402AII

- Blue textile braided cover
- *No-Skive* hose construction
- For very low (-48 °C) working temperature

Primary Applications

Transportation: Air brake hose
General: Low pressure applications

Type Approvals

Details please find on pages ***Ab-16*** to ***Ab-19***

Applicable Specifications

SAE 100R5, SAE J1402AII, D. O. T. FMVSS 106-AII

Construction

Inner tube: PKR synthetic rubber
Reinforcement: One fibre braid
One high-tensile steel wire braid
Cover: Rubber layer and
blue textile braided cover

Temperature Range ..... -48 °C up to +150 °C

Exception: Air ..... max. +100 °C
Water ..... max. +85 °C

Recommended Fluids

Petroleum based hydraulic fluids, water-glycol and water-oil emulsion hydraulic fluids, grease, lubricants, crude and fuel oils, air and water.
Consult the chemical compatibility section on pages ***Ab-26*** to ***Ab-34*** for more detailed information.

Fitting Series

Part Number	Hose I.D.			Hose O.D.	Pressure Rating: max. working pressure		Pressure Rating: min. burst pressure		Vaccum*	min. bend radius	weight
	Inch	Size	mm	mm	MPa	psi	MPa	psi	kPa	mm	kg
206-4	3/16	-4	5.0	13.2	20.7	3000	83.0	12000	95	75	0.22
206-5	1/4	-5	6.3	14.8	20.7	3000	83.0	12000	95	85	0.27
206-6	5/16	-6	8.0	17.1	15.5	2250	62.0	9000	95	90	0.34
206-8	13/32	-8	10.0	19.5	13.8	2000	55.0	8000	95	90	0.40
206-10	1/2	-10	12.5	23.4	12.0	1750	48.0	7000	95	100	0.55
206-12	5/8	-12	16.0	27.4	10.3	1500	41.0	6000	95	100	0.68
206-16	7/8	-16	22.0	31.4	5.5	800	22.0	3200	67	100	0.68
206-20	1 1/8	-20	29.0	38.1	4.3	625	17.0	2500	67	140	0.76
206-24	1 3/8	-24	35.0	44.5	3.5	500	14.0	2000	51	190	1.01
206-32	1 13/16	-32	46.0	56.4	2.4	350	10.0	1400	37	335	1.32

*1 = the vacuum values listed in the table are vacuum pressure values in kPa. For an absolute value subtract the table value from 101kPa.
The combination of high temperature and high pressure could reduce the hose life.
The maximum working pressures shown in the table are for service up to a maximum temperature of 100 ∞C.
For use at higher temperatures, consult the pressure/temperature curve in section A for the reduced maximum working pressure.

Hose layline example

Parker 206-16 WP 5,6 MPa (800 PSI) SAE 100R5-16 22 mm (7/8) 4Q81 MADE IN XXXX Parker 206-16 WP 5,6

213

No-Skive High Temperature

For engines and compressed air systems

- *No-Skive* hose construction
- Ideal for high-temperature and small bend radii applications
- Compatible with a large range of fluids

Primary Applications

Transportation: Air brake hose
Compressors: Compressed air hose

Type Approvals

Details please find on pages ***Ab-16*** to ***Ab-19***

Applicable Specifications

SAE J1402AI, D.O.T. FMVSS 106-AI

Construction

Inner tube: PKR synthetic rubber
Reinforcement: One fibre braid
One high-tensile steel wire braid
Cover: Rubber layer and
black textile braided cover
include 2 green strips

Recommended Fluids

Petroleum based hydraulic fluids, water-glycol and water-oil emulsion hydraulic fluids, grease, lubricants, crude and fuel oils, air and water.
Consult the chemical compatibility section on pages ***Ab-26*** to ***Ab-34*** for more detailed information.

Temperature Range ..... -45 °C up to +150 °C

Exception: Air ..... max. +100 °C
Water ..... max. +85 °C

Fitting Series

26

Part Number	Hose I.D.			Hose O.D.	Pressure rating: max. working pressure		Pressure rating: min. burst pressure		min. bend radius	weight
	Inch	Size	mm	mm	MPa	psi	MPa	psi	mm	kg
213-4	3/16	-4	5.0	12.5	14.0	2000	55.0	8000	20	0.18
213-5	1/4	-5	6.3	14.0	10.5	1500	41.0	6000	25	0.21
213-6	5/16	-6	8.0	16.0	10.5	1500	41.0	6000	30	0.25
213-8	13/32	-8	10.0	19.0	8.7	1250	34.0	5000	45	0.30
213-10	1/2	-10	12.5	21.0	7.0	1000	28.0	4000	55	0.33
213-12	5/8	-12	16.0	24.0	5.2	750	21.0	3000	70	0.36
213-16	7/8	-16	22.0	31.0	2.8	400	11.0	1600	90	0.45
213-20	1 1/8	-20	29.0	38.0	2.1	300	8.0	1200	115	0.65
213-24	1 3/8	-24	35.0	44.0	2.1	300	8.0	1200	190	0.77
213-32	1 13/16	-32	46.0	54.0	1.4	200	5.5	800	355	1.00

The combination of high temperature and high pressure could reduce the hose life.
The maximum working pressures shown in the table are for service up to a maximum temperature of 100 ∞C.
For use at higher temperatures, consult the pressure/temperature curve in section A for the reduced maximum working pressure.

Hose layline example

PARKER 213-16 WP 2,8 MPa (400 PSI) 22 mm (7/8) 3Q88 ——— PARKER 213-16 WP 2,8

221FR

No-Skive Fire Retardant

Marine fuel and engine hose

- Fire retardant hose cover
- *No-Skive* hose construction
- Marine approvals

Primary Applications

Marine: Marine fuel hose
General: Where fire retardance is an issue

Type Approvals

Details please find on pages ***Ab-16*** to ***Ab-19***

Applicable Specifications

SAE J1527 R3, USCG Type AI, SAE J1942, ISO 7840

Construction

Inner tube: Fuel and oil-resistant rubber
Reinforcement: One high-tensile steel wire braid
Cover: Flame retardant special fibre outer cover

Temperature Range ..... -20 °C up to +100 °C

Exception: Air ..... max. +70 °C
Water ..... max. +85 °C

Recommended Fluids

Petroleum based hydraulic fluids, water-glycol and water-oil emulsion hydraulic fluids, grease, lubricants, crude, fuel oils and water.
Consult the chemical compatibility section on pages ***Ab-26*** to ***Ab-34*** for more detailed information.

Fitting Series

26

Part Number	Hose I.D.			Hose O.D.	Pressure Rating: max. working pressure		Pressure Rating: min. burst pressure		Vaccum*	min. bend radius	weight
	Inch	Size	mm	mm	MPa	psi	MPa	psi	kPa	mm	kg
221FR-5	1/4	-5	6.3	15	3.5	500	14.0	2000	81	25	0.28
221FR-6	5/16	-6	8.0	17	3.5	500	14.0	2000	81	30	0.34
221FR-8	13/32	-8	10.0	20	3.5	500	14.0	2000	81	45	0.42
221FR-10	1/2	-10	12.5	23	3.5	500	14.0	2000	68	55	0.58
221FR-12	5/8	-12	16.0	27	3.5	500	14.0	2000	68	70	0.61
221FR-16	7/8	-16	22.0	31	3.5	500	14.0	2000	68	90	0.70

* The vacuum values listed in the table are vacuum pressure values in kPa. For an absolute value subtract the table value from 101kPa.
The combination of high temperature and high pressure could reduce the hose life.

Hose layline example

PARKER 221FR-10 SAE J1527 USCG TYPE A1 CE 1085 ISO 7840-A1 WITH 26 SERIES CRIMP FITTINGS ONLY

285

Air Conditioning and Refrigeration

SAE J2064 Type C, Class 1

- *No-Skive* hose construction
- Usable for main refrigerant fluids
- Compatible with modern refrigerants

Primary Applications

Air Conditioning: For industrial and mobile applications

Applicable Specifications

SAE J2064 Type C, Class 1

Construction

Inner tube: Nylon barrier between two elastomeric layers
Reinforcement: One textile braid
Cover: Heat, moisture and ozone resistant rubber

Recommended Fluids

For use with Freon refrigerants 12, 134a and 22. Consult the chemical compatibility section on pages ***Ab-26*** to ***Ab-34*** for more detailed information.

Temperature Range ..... -30 °C up to +125 °C

Fitting Series

26

Part Number	Hose I.D.			Hose O.D.	Pressure Rating: max. working pressure		Pressure Rating: min. burst pressure		Vaccum*	min. bend radius	weight
	Inch	Size	mm	mm	MPa	psi	MPa	psi	kPa	mm	kg
285-4-RL	3/16	-4	5.0	12.4	3.4	500	17.2	2500	95	25	0.14
285-6-RL	5/16	-6	8.0	15.7	3.4	500	17.2	2500	95	38	0.19
285-8-RL	13/32	-8	10.0	18.8	3.4	500	17.2	2500	95	51	0.25
285-10-RL	1/2	-10	12.5	21.1	3.4	500	17.2	2500	95	64	0.27
285-12-RL	5/8	-12	16.0	24.4	3.4	500	17.2	2500	95	76	0.34

*1 = the vacuum values listed in the table are vacuum pressure values in kPa. For an absolute value subtract the table value from 101kPa.
For size -16 a hose 285-16 is available on request.
RL = only available on reels.

Hose layline example

PARKER 285-10 WP 3,4 MPa (500 PSI) SAE J2064 TYPE C CLASS I 12,5 mm (1/2) 10-4Q09

293

No-Skive High Temperature

Engine and air brake/truck hose

- High temperature
  – high flex hose performance
- *No-Skive* hose construction
- Wide temperature range

Primary Applications

Truck Market: Air brake hose
Engine cooling circuit

Type Approvals

Details please find on pages ***Ab-16*** to ***Ab-19***

Applicable Specifications

SAE J1402AI, D.O.T. FMVSS 106

Construction

Inner tube: PKR synthetic rubber
Reinforcement: One fibre braid
Cover: Black nylon braid

Temperature Range ..... -50 °C up to +150 °C

Exception: Air ..... max. +100 °C
Water ..... max. +85 °C

Recommended Fluids

Petroleum-based hydraulic fluids and lubrication oils, diesel fuels and antifreeze solutions; water-, water-oil- and water-glycol emulsion hydraulic fluids.
Consult the chemical compatibility section on pages ***Ab-26*** to ***Ab-34*** for more detailed information.

Fitting Series

Part Number	Hose I.D.			Hose O.D.	Pressure rating: max. working pressure		Pressure rating: min. burst pressure		min. bend radius	weight
	Inch	Size	mm	mm	MPa	psi	MPa	psi	mm	kg
293-4-RL	3/16	-4	5.0	12.5	3.5	500	13.8	2000	15	0.15
293-6-RL	5/16	-6	8.0	15.7	3.5	500	13.8	2000	25	0.22
293-8-RL	13/32	-8	10.0	18.7	3.5	500	13.8	2000	40	0.27
293-10-RL	1/2	-10	12.5	21.1	3.1	450	12.4	1800	50	0.30
293-12-RL	5/8	-12	16.0	24.3	3.1	450	12.4	1800	65	0.33
293-16-RL	7/8	-16	22.0	30.6	3.1	450	12.4	1800	80	0.37

The combination of high temperature and high pressure could reduce the hose life.
RL = only available on reels.

Hose layline example

PARKER 293-6 AIR BRAKE 8 mm (5/16) SAE J1402 W.P. 3,5 MPa (500 PSI) ——— PARKER 293-6

611HT

No-Skive

High-temperature textile hose

- For high demand applications, such as diesel fuel lines, water cooling or high-temp lines up to +150 °C
- MSHA approved
- According to EN 854-R6
- *No-Skive* hose construction for 2-piece fittings

Primary Applications

General Market: Low pressure hydraulic applications/ high temperature applications

Engine Applications: Diesel fuel lines, engine cooling circuits

Type Approvals

Details please find on pages ***Ab-16*** to ***Ab-19***

Applicable Specifications

EN 854-R6

Construction

Inner tube: PKR synthetic rubber

Reinforcement: One fibre braid

Cover: MSHA approved synthetic rubber

Temperature Range ..... -40 °C up to +150 °C

Exception: Air ..... max. +100 °C

Water ..... max. +85 °C

Recommended Fluids

Petroleum-based hydraulic fluids and lubrication oils, diesel fuels and antifreeze solutions; water-glycol and water-oil emulsion, air and water.

Consult the chemical compatibility section on pages ***Ab-26*** to ***Ab-34*** for more detailed information.

Fitting Series

56*

Part Number	Hose I.D.				Hose O.D.	Pressure Rating: max. working pressure		Pressure Rating: min. burst pressure		min. bend radius	weight
	DN	Inch	Size	mm	mm	MPa	psi	MPa	psi	mm	kg
611HT-4	6	1/4	-4	6.4	12.8	2.8	400	11.2	1600	65	0.13
611HT-6	10	3/8	-6	9.5	16.0	2.8	400	11.2	1600	75	0.16
611HT-8	12	1/2	-8	12.7	20.0	2.8	400	11.2	1600	100	0.27
611HT-10	16	5/8	-10	15.9	23.2	2.4	350	9.6	1400	125	0.28
611HT-12	19	3/4	-12	19.1	26.2	2.1	300	8.4	1200	150	0.36

The combination of high temperature and high pressure could reduce the hose life.
* see Thermoplastic catalogue 4460

Hose layline example

PARKER 611HT-4 HI-TEMP WP 2,8 MPa (400 PSI) MSHA IC-40/10 I • • SAE 100R6-4 6,3 mm (1/4) X 1F EN854/R6/6

681DB

No-Skive 2TE

EN 854-2TE
(with approvals for rail transportation)

- One layer of fabric braid
- *No-Skive* hose construction
- Small bend radii
- Flame retardant rubber cover
- Railway approved:
  - European Standard EN45545 HL2 for R22 (internal) and R23 (external)
  - ISO 15540 (FS-F-Fire Sleeve needed)

Primary Applications

General Market: Low pressure hydraulic application
Rail Transportation Market:
Hydraulic applications around train vehicles

Type Approvals

Details please find on pages ***Ab-16*** to ***Ab-19***

Applicable Specifications

EN 854-2TE

Construction

Inner tube: Synthetic rubber
Reinforcement: One fibre braid
Cover: Flame retardant synthetic rubber

Temperature Range ..... -40 °C up to +100 °C

Exception: Air ..... max. +70 °C
Water ..... max. +85 °C

Recommended Fluids

Petroleum based hydraulic fluids, water-glycol and water-oil emulsion hydraulic fluids, grease, lubricants, crude and fuel oils, air and water.
Consult the chemical compatibility section on pages ***Ab-26*** to ***Ab-34*** for more detailed information.

Fitting Series

56*

Part Number	Hose I.D.				Hose O.D.	Pressure Rating: max. working pressure		Pressure Rating: min. burst pressure		min. bend radius	weight
	DN	Inch	Size	mm	mm	MPa	psi	MPa	psi	mm	kg
681DB-4	6	1/4	-4	6.4	13.6	7.5	1090	30.0	4360	40	0.15
681DB-5	8	5/16	-5	7.9	14.8	6.8	980	27.0	3920	50	0.16
681DB-6	10	3/8	-6	9.5	16.6	6.3	910	25.0	3640	60	0.19
681DB-8	12	1/2	-8	12.7	19.6	5.8	840	23.0	3360	70	0.24
681DB-10	16	5/8	-10	15.9	23.9	5.0	725	20.0	2900	90	0.35
681DB-12	19	3/4	-12	19.1	27.0	4.5	650	18.0	2600	110	0.39
681DB-16	25	1	-16	25.4	34.4	4.0	580	16.0	2320	150	0.59

The combination of high temperature and high pressure could reduce the hose life.
* see Thermoplastic catalogue 4460

Hose layline example

PARKER 681DB-6 WP 6,3 MPa (910 PSI) 1" 10 mm (3/8) EN854/2TE/10/DIN MADE IN ITALY