



Hydraulic Hoses and Fittings

High Pressure



ENGINEERING YOUR SUCCESS.

High Pressure Hoses and Fittings

Three systems for heavy duty performers

Multispiral Parkrimp *No-skive*

Crimpable with Parkrimp System



Compact Spiral Interlock *No-skive*

Crimpable with Parkrimp System



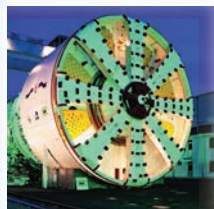
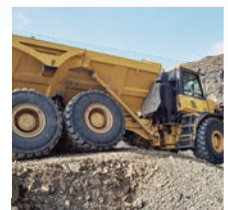
ParLock Interlock Skive

Crimpable with adjustable crimpers



Applications

The definitive hose range for all high pressure applications



Crimper systems you can trust

Parkrimp crimpers for *No-skive* one-piece fittings



KarryKrimp® 2



KarryKrimp® 2
Bench Mount



Parkrimp®

Adjustable crimpers for two-piece ParLock fittings



TH8E-530



TH 8E-380-CM



TH 8E-480-CM



Parkrimp *No-skive*
one-piece fittings



ParLock
two-piece skive fittings

High Pressure

Hoses		Page		
Parkrimp	371LT <i>No-Skive</i>	3-braids low temperature	Dab-1	
	372 <i>No-Skive</i>	3-braids standard	Dab-2	
	372RH <i>No-Skive</i>	3-braids railway	Dab-3	
	372TC <i>No-Skive</i>	3-braids high abrasion resistance	Dab-4	
	SX35LT <i>No-Skive</i>	Low temperature	Dab-5	
	SX42LT <i>No-Skive</i>	Low temperature	Dab-6	
	SR <i>No-Skive</i>	Standard	Dab-7	
	SRTC <i>No-Skive</i>	High abrasion resistance	Dab-8	
	SRI42 <i>No-Skive</i>	Standard	Dab-9	
	SRI42TC <i>No-Skive</i>	High abrasion resistance	Dab-10	
	797RH	Railway	Dab-11	
	F42 <i>No-Skive</i>	Phosphate Ester	Dab-12	
	H29	Standard	Dab-13	
	H29TC	High abrasion resistance	Dab-14	
H29ST	Extreme abrasion resistance	Dab-15		
H31	Standard	Dab-16		
H31TC	High abrasion resistance	Dab-17		
H31ST	Extreme abrasion resistance	Dab-18		
R35	Standard	Dab-19		
R35TC/RS35TC-48	High abrasion resistance	Dab-20		
R42	Standard	Dab-21		
R42TC	High abrasion resistance	Dab-22		
R42ST	Extreme abrasion resistance	Dab-23		
R50TC/R56TC	High abrasion resistance	Dab-24		
BPK	Water-Blasting	Dab-25		
FA35	Firearmor Blowout Preventer	Dab-26		
RD35TC	High abrasion resistance	Dab-27		
CEM69TC	Cementing hose	Dab-28		
ParLock				

Fittings Series	Parkrimp			ParLock			
	70	73	77	VS	V4/V6	V5	WB
Chapter	Db	Dc	Dd	De	Df	Dg	Dh
Shell				1	1	1	1
DIN – Metric	1–4	1–3	1–4	2–5	2–5	2–3	2
BSP	5–7	4–5	5–6	6–7	6–8		3
SAE	8–10	6–8	7–9	8–10	9–11		4
Flange	11–14	9–11	10–20	11–13	12–22		
ORFS	15–17		21–23	14–15	23–25		
French Standard			24				
Others	18						
Special Fittings			25				

Parker Hannifin assumes no liability for typographical errors or other errors

Parkrimp

3-braids standard



3-braids low temperature



3-braids high abrasion resistance



3-braids railway



Parkrimp

Standard

SR Dab-7  No-Skive Multispiral Exceeds ISO 3862 Type 4SP - EN 856 Type 4SP	SRI42 Dab-9  No-Skive Multispiral Exceeds ISO 3862 Type 4SH - EN 856 Type 4SH
--	---

Low temperature

SX35LT Dab-5  No-Skive Multispiral Parker Specification	SX42LT Dab-6  No-Skive Multispiral Parker Specification
--	--

Phosphate Ester

F42
Dab-12

No-Skive Multispiral
For phosphate ester base fluids

High abrasion resistance

SRTC Dab-8  No-Skive Multispiral Tough Cover ISO 3862 Type 4SP - EN 856 Type 4SP	SRI42TC Dab-910  No-Skive Multispiral ISO 3862 Type 4SH - EN 856 Type 4SH
---	--

Railway

797RH
Dab-11

No-Skive Compact Spiral™
Fire-retardant cover

ParLock

Standard

<p>H29 Dab-13</p>  <p>ParLock Multispiral Exceeds ISO 3862 Type 4SH - EN 856 Type 4SH</p>	<p>H31 Dab-16</p>  <p>ParLock Multispiral Exceeds ISO 3862 Type 4SP - EN 856 Type 4SP</p>	<p>R35 Dab-19</p>  <p>ParLock Multispiral Exceeds ISO 3862 Type R13 - Parker Specifications</p>	<p>R42 Dab-21</p>  <p>ParLock Multispiral Exceeds ISO 3862 Type R15 - Parker Specifications</p>
--	--	---	--

High abrasion resistance

<p>H29TC Dab-14</p>  <p>ParLock Multispiral Exceeds ISO 3862 Type 4SH - EN 856 Type 4SH</p>	<p>H31TC Dab-17</p>  <p>ParLock Multispiral Exceeds ISO 3862 Type 4SP - EN 856 Type 4SP</p>	<p>R35TC/RS35TC-48 Dab-20</p>  <p>ParLock Multispiral Exceeds ISO 3862 Type R13 - Parker Specifications</p>	<p>R42TC Dab-22</p>  <p>ParLock Multispiral Exceeds ISO 3862 Type R15 - Parker Specifications</p>
<p>R50TC/R56TC Dab-24</p>  <p>ParLock Multispiral Exceeds ISO 3862 Type R15 - Parker Specifications</p>	<p>RD35TC Dab-27</p>  <p>ParLock Multispiral Drilling Application API 7K Grade D/ISO 14693</p>	<p>CEM69TC Dab-28</p>  <p>Parlock Multispiral Cementing Hose According to API 7K</p>	

Extreme abrasion resistance

<p>H29ST Dab-15</p>  <p>ParLock Multispiral Exceeds ISO 3862 Type 4SH - EN 856 Type 4SH</p>	<p>H31ST Dab-18</p>  <p>ParLock Multispiral Exceeds ISO 3862 Type 4SP - EN 856 Type 4SP</p>	<p>R42ST Dab-23</p>  <p>ParLock Multispiral Exceeds ISO 3862 Type R15 - Parker Specifications</p>
--	--	---

Water-Blasting

BPK
Dab-25



Blastopak ParLock Multispiral
DIN EN 1829-2

Firearmor Blowout Preventer

FA35
Dab-26



ParLock Multispiral Firearmor Blowout Preventer Application
Meets API 16D - Lloyd's 1000/499 fire test

371LT

No-Skive Compact

3-wire braid low-temperature compact hose with 4SP working pressures



- **No-Skive** hose construction – Compact design
- Excellent ozone resistance
- Temperature range from -50 °C up to +100 °C

Primary Applications

Mobile applications in low temperature environments:
Forestry machines, refrigerated warehouses

Applicable Specifications

Parker Specification

Construction

Inner tube: Synthetic rubber
Reinforcement: Three high-tensile steel wire braids
Cover: Synthetic rubber

Temperature Range -50 °C up to +100 °C

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

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. 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. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi		
371LT-6	10	3/8	-6	9.5	21.4	44.5	6500	178.0	25800	120	0.73
371LT-8	12	1/2	-8	12.7	24.6	41.5	6000	166.0	24000	160	0.90
371LT-10	16	5/8	-10	15.9	28.2	35.0	5000	140.0	20000	210	1.09
371LT-12	19	3/4	-12	19.1	32.2	35.0	5000	140.0	20000	260	1.36
371LT-16	25	1	-16	25.4	39.7	28.0	4000	112.0	16000	310	1.78

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



372

No-Skive Compact

3-wire braid compact hose with
4SP working pressures

Primary Applications

General high pressure small bending radii hydraulic applications

Type Approvals

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

Applicable Specifications

Parker Specification

Construction

Inner tube: Nitrile (NBR)
Reinforcement: Three high-tensile steel wire braids
Cover: Synthetic rubber

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

Exception: Air max. +70 °C

Water max. +85 °C



- **No-Skive** hose construction – Compact design
- Nitrile (NBR) inner tube for extended fluid compatibility

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. 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. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure		min. burst pressure			
						MPa	psi	MPa	psi		
372-6	10	3/8	-6	9.5	21.4	44.5	6500	178.0	25800	120	0.73
372-8	12	1/2	-8	12.7	24.6	41.5	6000	166.0	24000	160	0.90
372-10	16	5/8	-10	15.9	28.2	35.0	5000	140.0	20000	210	1.09
372-12	19	3/4	-12	19.1	32.2	35.0	5000	140.0	20000	260	1.36
372-16	25	1	-16	25.4	39.7	28.0	4000	112.0	16000	310	1.78

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



372RH

No-Skive Compact

3-wire braid with fire-retardant cover

Primary Applications

Dynamic and static high-pressure hydraulic systems

Type Approvals

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

Applicable Specifications

Parker Specification

Working pressure and O.D. to EN 856-4SP

Construction

Inner tube: Nitrile (NBR)

Reinforcement: Three high-tensile steel wire braids

Cover: Fire retardant synthetic rubber

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

Exception: Air max. +70 °C

Water max. +85 °C



- **No-skive** hose construction
- Nitrile (NBR) inner tube – high chemical resistance
- Small bend radii
- Fire-retardant cover
- Railway approved:
 - European Standard EN45545 HL3 for R22 (internal) and R23 (external)
 - ISO 15540

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. 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. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi		
372RH-6	10	3/8	-6	9.5	21.4	44.5	6500	178.0	25800	120	0.73
372RH-8	12	1/2	-8	12.7	24.6	41.5	6000	166.0	24000	160	0.90
372RH-10	16	5/8	-10	15.9	28.2	35.0	5000	140.0	20000	210	1.09
372RH-12	19	3/4	-12	19.1	32.2	35.0	5000	140.0	20000	260	1.36
372RH-16	25	1	-16	25.4	39.7	28.0	4000	112.0	16000	310	1.78

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



372TC

No-Skive Compact

3-wire braid compact hose with 4SP working pressures

Primary Applications

General high pressure hydraulic applications (typically in the mobile industry)

Type Approvals

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

Applicable Specifications

Parker Specification – working pressures and outside diameters according to EN 856-4SP

Construction

Inner tube: Nitrile (NBR)
Reinforcement: Three high-tensile steel wire braids
Cover: Highly abrasion resistance
MSHA approved synthetic rubber

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

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



- **No-Skive** hose construction – Compact design
- Nitrile (NBR) inner tube for greater fluid compatibility
- Highly abrasion resistant **TOUGH COVER**
- MSHA approved
- Hose is suitable for temporary immersion in mineral oil up to 70 °C with frequent inspections

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. 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. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi		
372TC-6	10	3/8	-6	9.5	21.4	44.5	6500	178.0	25800	120	0.73
372TC-8	12	1/2	-8	12.7	24.6	41.5	6000	166.0	24000	160	0.90
372TC-10	16	5/8	-10	15.9	28.2	35.0	5000	140.0	20000	210	1.09
372TC-12	19	3/4	-12	19.1	32.2	35.0	5000	140.0	20000	260	1.36
372TC-16	25	1	-16	25.4	39.7	28.0	4000	112.0	16000	310	1.78

Replace the hose when any deformation or damage on the hose cover are visible. The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



SX35LT

No-Skive Multispiral

Parker Specification



- **No-Skive** hose construction
- Superior performances in extreme cold conditions
- Reinforcement of four high tensile steel wires
- Constant working pressure of 35.0 MPa
- Low Temperature range up to -57 °C (-70 °F)

Primary Applications

General high pressure hydraulic applications for very low temperature environments

Applicable Specifications

Parker Specification

Construction

Inner tube: Synthetic rubber
Reinforcement: Four high-tensile steel wires
Cover: Synthetic rubber

Temperature Range -57 °C up to +100 °C

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

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

73 on request

Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi		
SX35LT-12	20	3/4	-12	19.1	32.4	35.0	5000	140.0	20000	240	1.72
SX35LT-16	25	1	-16	25.4	38.2	35.0	5000	140.0	20000	300	2.14
SX35LT-20	32	1 1/4	-20	31.5	46.3	35.0	5000	140.0	20000	420	2.96

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



SX42LT

No-Skive Multispiral

Parker Specification



- **No-Skive** hose construction
- Superior performances in extreme cold conditions
- Reinforcement of four or six high tensile steel wires
- Constant working pressure of 42.0 MPa
- Low Temperature range up to -57 °C (-70 °F)

Primary Applications

General high pressure hydraulic applications for very low temperature environments

Applicable Specifications

Parker Specification

Construction

Inner tube: Synthetic rubber
Reinforcement: Four or six spiral high-tensile steel wires
Cover: Synthetic rubber

Temperature Range -57 °C up to +100 °C

Exception: Air max. +70 °C

Water max. +85 °C

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

Size -12

73 on request

Size -16 and -20



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure		min. burst pressure			
						MPa	psi	MPa	psi		
SX42LT-12	20	3/4	-12	19.1	32.4	42.0	6000	168.0	24000	260	1.72
SX42LT-16	25	1	-16	25.4	38.2	42.0	6000	168.0	24000	330	1.74
SX42LT-20	32	1 1/4	-20	31.5	46.3	42.0	6000	168.0	24000	400	2.98

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



SR Range

No-Skive Multispiral

Primary Applications

General high pressure hydraulic applications

Applicable Specifications

ISO 18752 Type CC (BC for only size 6)
ISO 3862 / EN 856 4SP (size 6, 10, 12, 16)
ISO 3862 / EN 846 4SH (size 20, 24, 32)

Construction

Inner tube: Synthetic rubber
Reinforcement: Four spiral high-tensile steel wire
Cover: Synthetic rubber

Temperature Range -40 °C up to +120 °C

(+100 °C only for Size 6)

Exception: Air max. +70 °C

Water max. +85 °C



- **No-skive** hose construction
- High performance
- Reinforcement of four spiral high-tensile steel wire
- Temperature range up to +120 °C

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

Series 70 for size - 6

Series 77 for sizes -8 up to -20

Series 73 for sizes -24 up to -32



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure		min. burst pressure			
						MPa	psi	MPa	psi		
SR45-6	10	3/8	-6	9.5	17.1	45.0	6500	180.0	26000	180	0.46
SR35-8	12	1/2	-8	12.7	21.1	35.0	5000	140.0	20000	180	0.67
SR35-10	16	5/8	-10	15.9	23.8	35.0	5000	140.0	20000	210	0.80
SR35-12	19	3/4	-12	19.1	28.1	35.0	5000	140.0	20000	240	1.16
SR35-16	25	1	-16	25.4	35.7	35.0	5000	140.0	20000	280	1.74
SR35-20	31	1 1/4	-20	31.8	43.8	35.0	5000	140.0	20000	380	2.41
SR29-24	38	1 1/2	-24	38.1	53.1	29.0	4200	116.0	16800	500	3.20
SR25-32	51	2	-32	50.8	66.5	25.0	3625	100.0	14500	630	4.60

The combination of high temperature and high pressure could reduce the hose life.

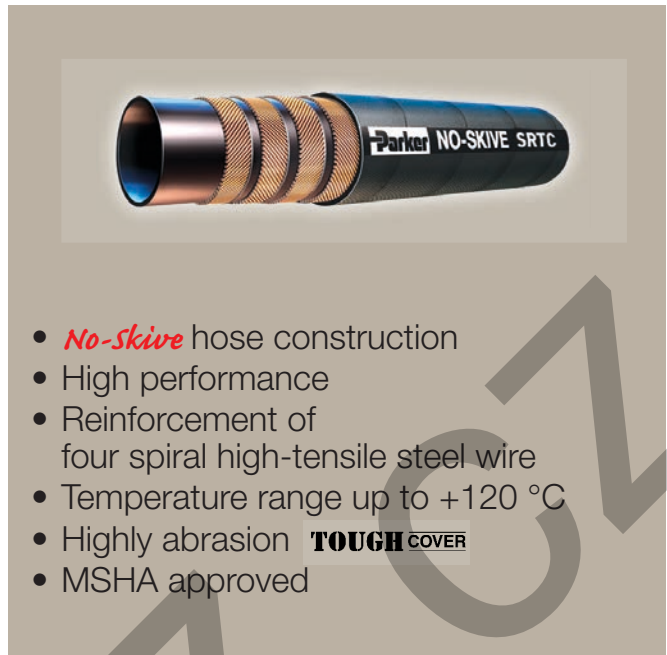
Hose layline example

SR35-12 WP 35,0 MPa (5000 PSI) 1" 19 mm (3/4") -40°C TO +120°C ISO 18752 CC exceed ISO 3862/EN 856-4SP MADE IN ITALY

SRTC Range

No-Skive Multispiral

ISO 3862 Type R13 - Parker Specifications



- **No-Skive** hose construction
- High performance
- Reinforcement of four spiral high-tensile steel wire
- Temperature range up to +120 °C
- Highly abrasion **TOUGH COVER**
- MSHA approved

Primary Applications

General high pressure hydraulic applications

Applicable Specifications

ISO 18752 Type CC (BC for only size 6)

ISO 3862 / EN 856 4SP (size 6, 10, 12, 16)

ISO 3862 / EN 846 4SH (size 20, 24, 32)

Construction

Inner tube: Synthetic rubber

Reinforcement: Four spiral high-tensile steel wire

Cover: Highly abrasion resistance
MSHA approved synthetic rubber

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Temperature Range -40 °C up to +120 °C
(+100 °C only for Size 6)

Exception: Air max. +70 °C

Water max. +85 °C

Fitting Series

Series 70 for size - 6

Series 77 for sizes from -8 up to -20

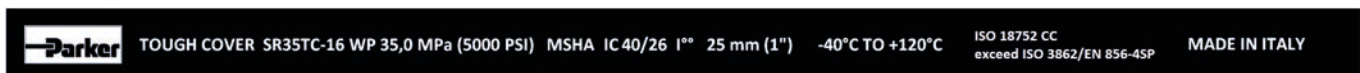
Series 73 for sizes from -24 up to -32



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi		
SR45TC-6	10	3/8	-6	9.5	17.1	45.0	6500	180.0	26000	180	0.46
SR35TC-8	12	1/2	-8	12.7	21.1	35.0	5000	140.0	20000	180	0.67
SR35TC-10	16	5/8	-10	15.9	23.8	35.0	5000	140.0	20000	210	0.80
SR35TC-12	19	3/4	-12	19.1	28.1	35.0	5000	140.0	20000	240	1.16
SR35TC-16	25	1	-16	25.4	35.7	35.0	5000	140.0	20000	280	1.74
SR35TC-20	31	1 1/4	-20	31.8	43.8	35.0	5000	140.0	20000	380	2.41
SR29TC-24	38	1 1/2	-24	38.1	53.1	29.0	4200	116.0	16800	500	3.20
SR25TC-32	51	2	-32	50.8	66.5	25.0	3625	100.0	14500	630	4.60

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



SRI42

No-Skive Multispiral

ISO 18752 type CC
ISO 3862 / EN 856 4SP (size 8)
ISO 3862 / EN 856 4SH (size 12, 16)

Primary Applications

General high pressure hydraulic applications

Applicable Specifications

ISO 18752 type CC
ISO 3862 / EN 846 4SP (size 8)
ISO 3862 / EN 846 4SH (size 12, 16)

Construction

Inner tube: Synthetic rubber
Reinforcement: Four or six spiral high-tensile steel wire
Cover: Synthetic rubber

Temperature Range -40 °C up to +120 °C
Exception: Air max. +70 °C
Water max. +85 °C



- **No-Skive** hose construction
- High performance
- Reinforcement of four or six spiral high-tensile steel wire
- Constant working pressure of 42.0 MPa
- Temperature range up to +120 °C

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

All sizes



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi		
SRI42-8	12	1/2	-8	12.7	21.1	42.0	6000	168.0	24000	180	0.67
SRI42-10	16	5/8	-10	15.9	23.8	42.0	6000	168.0	24000	210	0.80
SRI42-12	19	3/4	-12	19.1	28.1	42.0	6000	168.0	24000	265	1.16
SRI42-16	25	1	-16	25.4	35.7	42.0	6000	168.0	24000	300	1.74
SRI42-20	31	1 1/4	-20	31.8	45.4	42.0	6000	168.0	24000	400	2.89

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example

SRI42-16 WP 42,0 MPa (6000 PSI) 1° 25 mm (1") -40°C TO +120°C
-40°F TO +248°F
ISO 18752 CC
exceed ISO 3862/EN 856-4SH
MADE IN ITALY



SRI42TC

No-Skive Multispiral



- **No-Skive** hose construction
- High performance
- Reinforcement of four or six spiral high-tensile steel wire
- Constant working pressure of 42.0 MPa
- Temperature range up to +120 °C
- Highly abrasion **TOUGH COVER**
- MSHA approved

Primary Applications

General high pressure hydraulic applications

Applicable Specifications

ISO 18752 type CC

ISO 3862 / EN 846 4SP (size 8)

ISO 3862 / EN 846 4SH (size 12, 16)

ISO 3862 type R15 (size 20)

Construction

Inner tube: Synthetic rubber

Reinforcement: Four or six spiral high-tensile steel wire

Cover: Highly abrasion resistance
MSHA approved synthetic rubber

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Temperature Range -40 °C up to +120 °C

Exception: Air max. +70 °C

Water max. +85 °C

Fitting Series

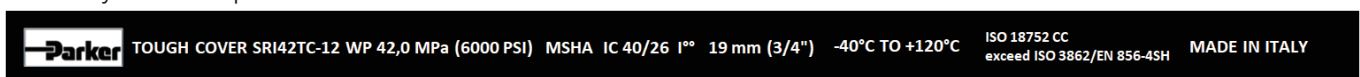
All sizes



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure		min. burst pressure			
						MPa	psi	MPa	psi		
SRI42TC-8	12	1/2	-8	12.7	21.1	42.0	6000	168.0	24000	180	0.67
SRI42TC-10	16	5/8	-10	15.9	23.8	42.0	6000	168.0	24000	210	0.80
SRI42TC-12	19	3/4	-12	19.1	28.1	42.0	6000	168.0	24000	265	1.16
SRI42TC-16	25	1	-16	25.4	35.7	42.0	6000	168.0	24000	300	1.74
SRI42TC-20	31	1 1/4	-20	31.8	45.4	42.0	6000	168.0	24000	400	2.89

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



797RH

No-Skive Compact Spiral™

Fire-retardant cover

Primary Applications

General high pressure hydraulic circuits for railway applications.

Type Approvals

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

Applicable Specifications

Exceed SAE 100R15 - ISO 3862 Type R15 - ISO 18752-DC

Construction

Inner tube: Proprietary synthetic rubber
Reinforcement: Four spiral high-tensile steel wire
Cover: Fire retardant synthetic rubber

Temperature Range -40 °C up to +125 °C

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



- 1/2 the bend radius of SAE 100R15
- Constant working pressure of 42.0 MPa
- Reduced O.D. and new construction lead to superior flexibility
- 1/3 less effort to bend
- Weight reduction – up to 26 %
- Railway approved:
 - European Standard EN45545 HL2 for R22 (internal) and R23 (external)

Recommended Fluids

Petroleum base hydraulic fluids and lubricating oils.
Wide Compatibility exceeding Column III, with additional chemical resistance, especially for diesel and biodiesel.
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. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi		
797RH-8	12	1/2	-8	12.7	21.1	42.0	6000	168.0	24000	100	0.67
797RH-10	16	5/8	-10	15.9	23.9	42.0	6000	168.0	24000	115	0.80
797RH-12	19	3/4	-12	19.1	27.9	42.0	6000	168.0	24000	135	1.16
797RH-16	25	1	-16	25.4	35.7	42.0	6000	168.0	24000	165	1.74

Replace the hose when any deformation or damage on the hose cover are visible.
The combination of high temperature and high pressure could reduce the hose life.

Hose layline example

797RH-12 WP 42,0 MPa (6000 PSI) 1" 19 mm (3/4") ISO 18752 - EN 45545 - MADE IN ITALY

F42

No-Skive Multispiral

For phosphate ester base fluids

Primary Applications

Test stands for aerospace, foundries, steel mills, high pressure hydraulic applications with phosphate ester fluids

Applicable Specifications

Parker Specification

Restrictions

Do not allow tube to contact any petroleum base fluids. Use liquid soap as hose lubricant.

Construction

Inner tube: Phosphate ester resistant EPDM synthetic rubber
Reinforcement: Four or six spiral high-tensile steel wire
Cover: EPDM synthetic rubber, green, phosphate ester and weather resistant

Temperature Range -40 °C up to +80 °C
Exception: Air max. +70 °C
Water max. +85 °C



- **No-skive** hose construction
- Phosphate ester and weather resistant, green, EPDM synthetic rubber cover
- Constant working pressure of 42.0 MPa

Recommended Fluids

Phosphate ester based hydraulic fluids, water-glycol based fluids, air and water. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

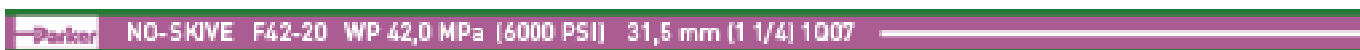
Fitting Series



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi		
F42-8	12	1/2	-8	12.7	25.0	42.0	6000	168.0	24000	200	0.83

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



H29

ParLock Multispiral

Exceeds ISO 3862 Type 4SH -
EN 856 Type 4SH



- Interlock technology
- Reinforcement of four spiral high-tensile steel wire

Primary Applications

General high pressure hydraulic applications

Type Approvals

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

Applicable Specifications

Exceed ISO 3862 Type 4SH – EN 856 Type 4SH

Construction

- Inner tube: Synthetic rubber
- Reinforcement: Four spiral high-tensile steel wire
- Cover: Synthetic rubber

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

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

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

Internal and external skiving



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi		
H29-12	19	3/4	-12	19.1	32.2	43.0	6250	172.0	25000	280	1.7
H29-16	25	1	-16	25.4	38.7	40.0	5800	160.0	23200	340	2.2
H29-20	31	1 1/4	-20	31.8	45.5	35.0	5000	140.0	20000	460	2.6
H29-24	38	1 1/2	-24	38.1	53.5	31.0	4500	124.0	18000	560	3.4
H29-32	51	2	-32	50.8	68.1	28.0	4050	112.0	16200	700	4.8

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



H29TC

ParLock Multispiral

Exceeds ISO 3862 Type 4SH -
EN 856 Type 4SH



- Interlock technology
- Reinforcement of four spiral high-tensile steel wire
- Highly abrasion resistant **TOUGH COVER**
- MSHA approved
- Hose is suitable for temporary immersion in mineral oil up to 70 °C with frequent inspections

Primary Applications

General high pressure hydraulic applications

Type Approvals

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

Applicable Specifications

Exceed ISO 3862 Type 4SH – EN 856 Type 4SH

Construction

Inner tube: Synthetic rubber
Reinforcement: Four spiral high-tensile steel wire
Cover: Highly abrasion resistance
MSHA approved synthetic rubber

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

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

Exception: Air max. +70 °C

Water max. +85 °C

Fitting Series

Internal and external skiving



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi		
H29TC-12	19	3/4	-12	19.1	32.2	43.0	6250	172.0	25000	280	1.7
H29TC-16	25	1	-16	25.4	38.7	40.0	5800	160.0	23200	340	2.2
H29TC-20	31	1 1/4	-20	31.8	45.5	35.0	5000	140.0	20000	460	2.6
H29TC-24	38	1 1/2	-24	38.1	53.5	31.0	4500	124.0	18000	560	3.4
H29TC-32	51	2	-32	50.8	68.1	28.0	4050	112.0	16200	700	4.8

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



H29ST

ParLock Multispiral

Exceeds ISO 3862 Type 4SH -
EN 856 Type 4SH



- Interlock technology
- Extreme abrasion resistant **SUPER TOUGH** cover
- Reinforcement of four spiral high-tensile steel wire

Primary Applications

General high pressure hydraulic applications

Type Approvals

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

Applicable Specifications

Exceed ISO 3862 Type 4SH – EN 856 Type 4SH

Construction

Inner tube: Synthetic rubber
Reinforcement: Four spiral high-tensile steel wire
Cover: Synthetic rubber
with a special polyethylene coating

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

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

Exception: Air max. +70 °C

Water max. +85 °C

Fitting Series

Internal and external skiving



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi		
H29ST-12	19	3/4	-12	19.1	32.2	43.0	6250	172.0	25000	280	1.7
H29ST-16	25	1	-16	25.4	38.7	40.0	5800	160.0	23200	340	2.2
H29ST-20	31	1 1/4	-20	31.8	45.5	35.0	5000	140.0	20000	460	2.6
H29ST-24	38	1 1/2	-24	38.1	53.5	31.0	4500	124.0	18000	560	3.4
H29ST-32	51	2	-32	50.8	68.1	28.0	4050	112.0	16200	700	4.8

Replace the hose when any deformation or damage on the hose cover are visible.
The combination of high temperature and high pressure could reduce the hose life.

Hose layline example

Parker SUPER TOUGH H29ST-12 WP 43,0 MPa (6250 PSI) | • • EXCEED ISO3862 - EN856 4S

H31

ParLock Multispiral

Exceeds ISO 3862 Type 4SP -
EN 856 Type 4SP



- Interlock technology
- Reinforcement of four spiral high-tensile steel wire

Primary Applications

General high pressure hydraulic applications

Type Approvals

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

Applicable Specifications

Exceed ISO 3862 Type 4SP – EN 856 Type 4SP

Construction

Inner tube: Synthetic rubber
Reinforcement: Four spiral high-tensile steel wire
Cover: Synthetic rubber

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

Exception: Air max. +70 °C

Water max. +85 °C

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

External skiving (size -4 up to -8)

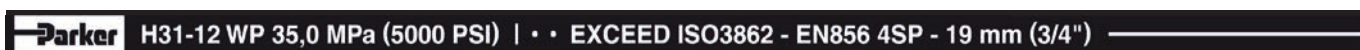
Internal and external skiving (size -10 up to -16)



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi		
H31-4	6	1/4	-4	6.4	17.8	50.0	7250	200.0	29000	120	0.73
H31-6	10	3/8	-6	9.5	21.4	44.5	6450	178.0	25800	130	0.91
H31-8	12	1/2	-8	12.7	24.6	41.5	6000	166.0	24000	180	1.08
H31-10	16	5/8	-10	15.9	28.5	39.0	5650	156.0	22600	225	1.39
H31-12	19	3/4	-12	19.1	32.0	35.0	5000	140.0	20300	280	1.73
H31-16	25	1	-16	25.4	39.7	31.0	4500	124.0	18000	355	2.31

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



H31TC

ParLock Multispiral

Exceeds ISO 3862 Type 4SP -
EN 856 Type 4SP



- Interlock technology
- Reinforcement of four spiral high-tensile steel wire
- Highly abrasion resistant **TOUGH COVER**
- MSHA approved
- Hose is suitable for temporary immersion in mineral oil up to 70 °C with frequent inspections

Primary Applications

General high pressure hydraulic applications

Type Approvals

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

Applicable Specifications

Exceed ISO 3862 Type 4SP – EN 856 Type 4SP

Construction

Inner tube: Synthetic rubber
Reinforcement: Four spiral high-tensile steel wire
Cover: Highly abrasion resistance
MSHA approved synthetic rubber

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

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

Exception: Air max. +70 °C

Water max. +85 °C

Fitting Series

External skiving (size -4 up to -8)

Internal and external skiving (size -10 up to -16)



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi		
H31TC-4	6	1/4	-4	6.4	17.8	50.0	7250	200.0	29000	120	0.73
H31TC-6	10	3/8	-6	9.5	21.4	44.5	6450	178.0	25800	130	0.91
H31TC-8	12	1/2	-8	12.7	24.6	41.5	6000	166.0	24000	180	1.08
H31TC-10	16	5/8	-10	15.9	28.5	39.0	5650	156.0	22600	225	1.39
H31TC-12	19	3/4	-12	19.1	32.0	35.0	5000	140.0	20300	280	1.73
H31TC-16	25	1	-16	25.4	39.7	31.0	4500	124.0	18000	355	2.31

Replace the hose when any deformation or damage on the hose cover are visible.
The combination of high temperature and high pressure could reduce the hose life.

Hose layline example

Parker TOUGH COVER H31TC-6 WP 44,5 MPa (6450 PSI) MSHA IC 40/26 | • • EXCEED ISO3862 - EN856 4S

H31ST

ParLock Multispiral

Exceeds ISO 3862 Type 4SP -
EN 856 Type 4SP

Primary Applications

General high pressure hydraulic applications

Type Approvals

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

Applicable Specifications

Exceed ISO 3862 Type 4SP – EN 856 Type 4SP

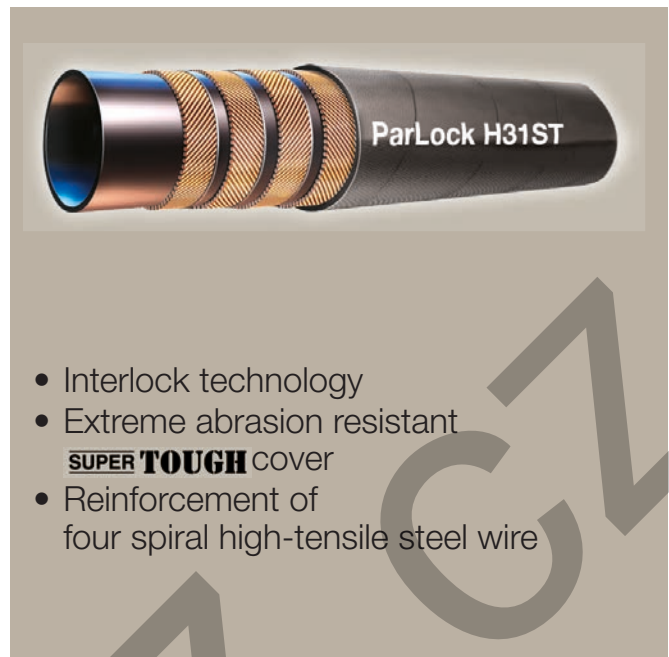
Construction

Inner tube: Synthetic rubber
Reinforcement: Four spiral high-tensile steel wire
Cover: Synthetic rubber
with a special polyethylene coating

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

Exception: Air max. +70 °C

Water max. +85 °C



- Interlock technology
- Extreme abrasion resistant **SUPER TOUGH** cover
- Reinforcement of four spiral high-tensile steel wire

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

External skiving (size -4 up to -8)

Internal and external skiving (size -10 up to -16)



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi		
H31ST-4	6	1/4	-4	6.4	17.8	50.0	7250	200.0	29000	120	0.73
H31ST-6	10	3/8	-6	9.5	21.4	44.5	6450	178.0	25800	130	0.91
H31ST-8	12	1/2	-8	12.7	24.6	41.5	6000	166.0	24000	180	1.08
H31ST-10	16	5/8	-10	15.9	28.5	39.0	5650	156.0	22600	225	1.39
H31ST-12	19	3/4	-12	19.1	32.0	35.0	5000	140.0	20300	280	1.73
H31ST-16	25	1	-16	25.4	39.7	31.0	4500	124.0	18000	355	2.31

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



R35

ParLock Multispiral

Exceeds ISO 3862 Type R13 - Parker Specifications



- Interlock technology
- Reinforcement of four or six spiral high-tensile steel wire
- Constant working pressure of 35.0 MPa

Primary Applications

General high pressure hydraulic applications

Type Approvals

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

Applicable Specifications

Exceed ISO 3862 Type R13 – Parker Specification

Construction

Inner tube: Synthetic rubber
 Reinforcement: Four or six spiral high-tensile steel wire
 Cover: Synthetic rubber

Temperature Range -40 °C up to +125 °C

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

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

Internal and external skiving (size -12, -16, -20)



Internal and external skiving (size -24, -32)

Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi		
R35-12	19	3/4	-12	19.1	32.00	35.0	5000	140.0	20000	220	1.5
R35-16	25	1	-16	25.4	39.35	35.0	5000	140.0	20000	280	2.2
R35-20	31	1 1/4	-20	31.8	45.50	35.0	5000	140.0	20000	380	2.6
R35-24	38	1 1/2	-24	38.1	57.30	35.0	5000	140.0	20000	480	4.8
R35-32	51	2	-32	50.8	71.10	35.0	5000	140.0	20000	600	6.7

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



R35TC/RS35TC-48

ParLock Multispiral

Exceeds ISO 3862 Type R13 - Parker Specifications

Primary Applications

General high pressure hydraulic applications

Type Approvals

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

Applicable Specifications

Exceed ISO 3862 Type R13 – Parker Specification

Construction

- Inner tube: Synthetic rubber
- Reinforcement: Four or six spiral high-tensile steel wire
- Cover: Highly abrasion resistance
MSHA approved synthetic rubber

Temperature Range -40 °C up to +125 °C

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



- Interlock technology
- Reinforcement of four or six spiral high-tensile steel wire
- Constant working pressure of 35.0 MPa
- Highly abrasion resistant **TOUGH COVER**
- MSHA approved
- Hose is suitable for temporary immersion in mineral oil up to 70 °C with frequent inspections

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

Internal and external skiving (size -12 up to -20)



Internal and external skiving (size -24 up to -48)



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi		
R35TC-12	19	3/4	-12	19.1	32.00	35.0	5000	140.0	20000	220	1.5
R35TC-16	25	1	-16	25.4	39.35	35.0	5000	140.0	20000	280	2.2
R35TC-20	31	1 1/4	-20	31.8	45.50	35.0	5000	140.0	20000	380	2.6
R35TC-24	38	1 1/2	-24	38.1	57.30	35.0	5000	140.0	20000	480	4.8
R35TC-32	51	2	-32	50.8	71.10	35.0	5000	140.0	20000	600	6.7
R35TC-40	63	2 1/2	-40	63.5	84.50	35.0	5000	140.0	20000	800	9.0
RS35TC-48	76	3	-48	76.2	96.00	35.0*	5000*	88.0	12750	900	10.0
RS35TC-48	76	3	-48	76.2	96.00	21.0**	3040**	88.0	12750	900	10.0

Replace the hose when any deformation or damage on the hose cover are visible. The combination of high temperature and high pressure could reduce the hose life.

* 35 MPa: Static applications according to ISO 6807-D
** 21 MPa: Dynamic hydraulic application design factor > 4:1

Hose layline example



R42

ParLock Multispiral

Exceeds ISO 3862 Type R15 - Parker Specifications

Primary Applications

General high pressure hydraulic applications

Type Approvals

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

Applicable Specifications

Exceed ISO 3862 Type R15 – Parker Specification

Construction

- Inner tube: Synthetic rubber
- Reinforcement: Four or six spiral high-tensile steel wire
- Cover: Synthetic rubber

Temperature Range -40 °C up to +125 °C

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



- Interlock technology
- Reinforcement of four or six spiral high-tensile steel wire
- Constant working pressure of 42.0 MPa

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

Internal and external skiving (size -10, -12, -16)



Internal and external skiving (size -20, -24, -32)

Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi		
R42-10	16	5/8	-10	15.9	28.50	42.0	6000	168.0	24000	225	1.39
R42-12	19	3/4	-12	19.1	32.00	42.0	6000	168.0	24000	280	1.70
R42-16	25	1	-16	25.4	39.00	42.0	6000	168.0	24000	300	2.30
R42-20	31	1 1/4	-20	31.8	50.75	42.0	6000	168.0	24000	400	3.80
R42-24	38	1 1/2	-24	38.1	57.00	42.0	6000	168.0	24000	500	4.80
R42-32	51	2	-32	50.8	71.50	42.0	6000	168.0	24000	700	7.00

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



R42TC

ParLock Multispiral

Exceeds ISO 3862 Type R15 - Parker Specifications

Primary Applications

General high pressure hydraulic applications

Type Approvals

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

Applicable Specifications

Exceed ISO 3862 Type R15 – Parker Specification

Construction

- Inner tube: Synthetic rubber
- Reinforcement: Four or six spiral high-tensile steel wire
- Cover: Highly abrasion resistance
MSHA approved synthetic rubber

Temperature Range -40 °C up to +125 °C

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



- Interlock technology
- Reinforcement of four or six spiral high-tensile steel wire
- Constant working pressure of 42.0 MPa
- Highly abrasion resistant **TOUGH COVER**
- MSHA approved
- Hose is suitable for temporary immersion in mineral oil up to 70 °C with frequent inspections

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

Internal and external skiving (size -10, -12, -16)



Internal and external skiving (size -20, -24, -32)



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure		min. burst pressure			
						MPa	psi	MPa	psi		
R42TC-10	16	5/8	-10	15.9	28.50	42.0	6000	168.0	24000	225	1.39
R42TC-12	19	3/4	-12	19.1	32.00	42.0	6000	168.0	24000	280	1.70
R42TC-16	25	1	-16	25.4	39.00	42.0	6000	168.0	24000	300	2.30
R42TC-20	31	1 1/4	-20	31.8	50.75	42.0	6000	168.0	24000	400	3.80
R42TC-24	38	1 1/2	-24	38.1	57.00	42.0	6000	168.0	24000	500	4.80
R42TC-32	51	2	-32	50.8	71.50	42.0	6000	168.0	24000	700	7.00

Replace the hose when any deformation or damage on the hose cover are visible. The combination of high temperature and high pressure could reduce the hose life.

Hose layline example

Parker TOUGH COVER R42TC-32 WP 42.0 MPa (6000 PSI) MSHA IC 40/26 | • • ISO 3862 - SAE100R

R42ST

ParLock Multispiral

Exceeds ISO 3862 Type R15 - Parker Specifications



- Interlock technology
- Extreme abrasion resistant **SUPER TOUGH** cover
- Reinforcement of four or six spiral high-tensile steel wire
- Constant working pressure of 42.0 MPa

Primary Applications

General high pressure hydraulic applications

Type Approvals

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

Applicable Specifications

Exceed ISO 3862 Type R15 – Parker Specification

Construction

Inner tube: Synthetic rubber
 Reinforcement: Four or six spiral high-tensile steel wire
 Cover: Synthetic rubber with a special polyethylene coating

Temperature Range -40 °C up to +125 °C

Exception: Air max. +70 °C

Water max. +85 °C

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

Internal and external skiving (size -10, -12, -16)



Internal and external skiving (size -20, -24, -32)

Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi		
R42ST-10	16	5/8	-10	15.9	28.50	42.0	6000	168.0	24000	225	1.39
R42ST-12	19	3/4	-12	19.1	32.00	42.0	6000	168.0	24000	280	1.70
R42ST-16	25	1	-16	25.4	39.00	42.0	6000	168.0	24000	300	2.30
R42ST-20	31	1 1/4	-20	31.8	50.75	42.0	6000	168.0	24000	400	3.80
R42ST-24	38	1 1/2	-24	38.1	57.00	42.0	6000	168.0	24000	500	4.80
R42ST-32	51	2	-32	50.8	71.50	42.0	6000	168.0	24000	700	7.00

The combination of high temperature and high pressure could reduce the hose life.

Hose layline example

Parker SUPER TOUGH R42ST-20 WP 42.0 MPa (6000 PSI) MSHA IC 111/3 | · · 31.5 mm (1 1/4)

R50TC/R56TC

ParLock Multispiral

Exceeds ISO 3862 Type R15 - Parker Specifications

Primary Applications

Mobile hydraulic equipment and agricultural machines with typically large constructions.

Type Approvals

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

Applicable Specifications

Exceed ISO 3862 Type R15 – Parker Specification

Construction

- Inner tube: Synthetic rubber
- Reinforcement: Four or six spiral high-tensile steel wire
- Cover: Highly abrasion resistance
MSHA approved synthetic rubber

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

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



- Interlock technology
- Reinforcement of four or six spiral high-tensile steel wire
- Constant working pressure of 50.0 MPa (R50TC) and 56.0 MPa (R56TC)
- Highly abrasion resistant **TOUGH COVER**
- MSHA approved
- Hose is suitable for temporary immersion in mineral oil up to 70 °C with frequent inspections

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series Internal and external skiving

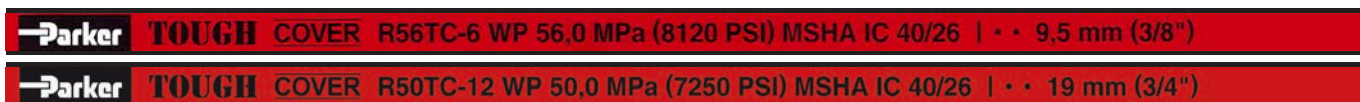
- R56TC-4 up to R56TC-8
- R50TC-10 up to -16
- R50TC-20



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi		
R56TC-4	6	1/4	-4	6.4	17.9	56.0	8100	224.0	32400	120	0.65
R56TC-6	10	3/8	-6	9.5	21.8	56.0	8100	224.0	32400	130	0.95
R56TC-8	12	1/2	-8	12.7	25.5	56.0	8100	224.0	32400	180	1.25
R50TC-10	16	5/8	-10	15.9	28.50	50.0	7250	200.0	29000	225	1.48
R50TC-12	19	3/4	-12	19.1	32.00	50.0	7250	200.0	29000	270	1.85
R50TC-16	25	1	-16	25.4	38.40	50.0	7250	200.0	29000	300	2.70
R50TC-20	31	1 1/4	-20	31.8	52.60	50.0	7250	200.0	29000	450	5.00

Replace the hose when any deformation or damage on the hose cover are visible. The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



BPK

Blastopak ParLock Multispiral

DIN EN 1829-2



- Interlock technology
- Reinforcement of four or six spiral high-tensile steel wire
- DIN EN 1829-2
- Each hose assembly have to be proof tested at 1.5 WP with test report

Primary Applications

Water blasting applications, water cutting applications, cleaning and paint or corrosion removal.

Not recommended for dynamic hydraulic applications

Applicable Specifications

Exceed ISO 3862 Type R15 – Parker Specification

Construction

Inner tube: Synthetic rubber

Reinforcement: Four or six spiral high-tensile steel wire

Cover: Synthetic rubber

Continuous Service Temperature Range

-10 °C up to +70 °C

Max. Service Temperature Range

-40 °C up to +93 °C

Applicable Specifications

DIN EN 1829-2

Recommended Fluids

Water, water-soap emulsion

Fitting Series

Internal and external skiving



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi		
BPK-6	10	3/8	-6	9.5	21.8	110.0	15900	275.0	39800	130	1.10
BPK-8	12	1/2	-8	12.7	25.5	110.0	15900	275.0	39800	200	1.40
BPK-12	20	3/4	-12	19.1	35.2	110.0	15900	275.0	39800	250	2.50
BPK-16	25	1	-16	25.4	41.8	80.0	11600	200.0	29000	300	3.00

Replace the hose when any deformation or damage on the hose cover are visible.
The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



FA35

ParLock Multispiral Firearmor Blowout Preventer Application

Meets API 16D - Lloyd's 1000/499 fire test

Primary Applications

Hydraulic system that operates the BOP security valve, both armored and without external protection. To be used on all rigs where fire resistance acc. to API 16D specifications are required.

Applicable Specifications

Meets API 16D – Lloyd's 1000/499 fire test

Construction

Inner tube: Synthetic rubber
Reinforcement: Four or six spiral high-tensile steel wire
Cover: Special red flame resistant compound

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

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



- Interlock Technology
- Fire armored as blowout preventer
- Special red flame resistant cover compound
- Constant working pressure of 35.0 MPa
- Design factor 4:1
- Very flexible
- Size -6 and -8 only to use with special sleeve FS-R-6 and FS-R-8
- Can be assembled only by Parker BOP certified distributors

Recommended Fluids

Hydraulic fluids on a mineral-oil basis, water-glycol and lubricating oils, air and water. For air and gas applications with a pressure exceeding 1.7 MPa, the cover must be pin-pricked. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

- External skiving (size -6 and -8)
- Internal and external skiving (size -10 up to -20)
- Internal and external skiving (size -24 and -32)



Part Number	Hose I.D.			Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg	
	DN	Inch	Size		max. working pressure MPa	psi	min. burst pressure MPa	psi			
FA35-6	10	3/8	-6	9.5	22.8	35.0	5000	140.0	20000	130	0.91
FA35-8	12	1/2	-8	12.7	25.2	35.0	5000	140.0	20000	180	1.08
FA35-10	16	5/8	-10	15.9	29.5	35.0	5000	140.0	20000	225	1.39
FA35-12	19	3/4	-12	19.1	32.4	35.0	5000	140.0	20000	280	1.70
FA35-16	25	1	-16	25.4	39.0	35.0	5000	140.0	20000	340	2.20
FA35-20	31	1 1/4	-20	31.8	46.6	35.0	5000	140.0	20000	460	2.60
FA35-24	38	1 1/2	-24	38.1	58.7	35.0	5000	140.0	20000	480	4.80
FA35-32	51	2	-32	50.8	72.0	35.0	5000	140.0	20000	600	6.70

Replace the hose when any deformation or damage on the hose cover are visible. The combination of high temperature and high pressure could reduce the hose life.

Parker BOP FS-R

is a red PKR rubber flame resistant sleeve that must be used for BOP hose assembly in order to protect the fitting area and be approved in accordance with the API 16D flame test. The sleeve has to be fit over the fitting and doesn't need any clamp to be fixed.



Part Numbers: FS-R-6, FS-R-8

Hose layline example



RD35TC

ParLock Multispiral Drilling Application

API 7K Grade D/ISO 14693

Primary Applications

Rotary drilling and vibrator high pressure hydraulic applications

Type Approvals

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

Applicable Specifications

API 7K Grade D/ISO 14693

Construction

Inner tube: Synthetic rubber
Reinforcement: Six spiral high-tensile steel wire
Cover: Highly abrasion resistance
MSHA approved synthetic rubber

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

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



- Interlock Technology
- Reinforcement of six spiral high-tensile steel wire
- Constant working pressure of 35.0 MPa
- Design factor 2.5:1
- Highly abrasion resistant **TOUGH COVER**
- MSHA approved
- Hose is suitable for temporary immersion in mineral oil up to 70 °C with frequent inspections
- Antistatic properties

Recommended Fluids

Water, mud and cement, mineral oils, glycols and polyglycols, mineral oils in aqueous emulsion. Consult the chemical compatibility section on pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series

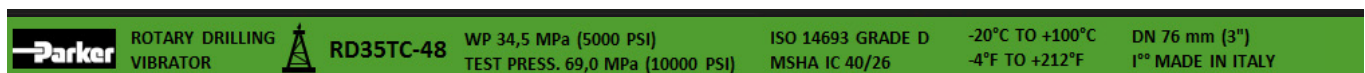
Internal and external skiving



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi		
RD35TC-32	51	2	-32	50.8	71.10	35.0	5000	88.0*	12750	600	6.7

Replace the hose when any deformation or damage on the hose cover are visible. The combination of high temperature and high pressure could reduce the hose life.

Hose layline example



CEM69TC

Parlock Multispiral Cementing Hose

According to API 7K

Primary Applications

Dedicated for cementing hose applications with flexible connection between the cementing pump manifold and cementing head for conveyance of cement slurries at high pressure.

Type Approvals

DNV-GL type examination certificate in accordance with API 7K.

Applicable Specifications

API 7K FSL0, ISO 14693

Construction

Inner Tube: Synthetic rubber
Reinforcement: Six spirals high-tensile steel wire
Cover: Highly abrasion resistance
MSHA approved synthetic rubber

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

Exception: Air max. +70 °C

Water max. +85 °C



Recommended Fluids

Water and mud, mineral oils, glycols, polyglycol, mineral oils in aqueous emulsion and liquid cement.

Fitting Series

Internal and external skiving



Part Number	Hose I.D.				Hose O.D. mm	max. working pressure		Pressure Rating test pressure		min. burst pressure		min. bend radius mm	weight kg
	DN	Inch	Size	mm		MPa	psi	MPa	psi	MPa	psi		
CEM69TC-32	51	2	-32	50.8	71.5	69.0	10000	103.4	15000	155.3	22500	1000	7.00

Replace the hose when any deformation or damage on the hose cover are visible.
The combination of high temperature and high pressure could reduce the hose life.

Hose layline example

	CEMENTING HOSE NOT FOR SOUR SERVICE	CEM69TC-32	WP 69,0 MPA (10000 PSI) TEST PRESS. 103,4 MPA (15000 PSI)	API 7K - FSL 0 MSHA IC 40/26	-20°C TO +100 °C -4 °F TO +212 °F	DN 51 mm (2") 1" MADE IN ITALY
--	--	------------	--	---------------------------------	--------------------------------------	-----------------------------------