

Low Pressure Push-Lok

Hoses		Page
801Plus	Multipurpose	B1a-1
801RH	Railway	B1a-2
804	Phosphate Ester	B1a-3
821FR	Fire retardant	B1a-4
830M	Multipurpose	B1a-5
836	High temperature	B1a-6
837BM	Multipurpose	B1a-7
837PU	Multipurpose	B1a-8
838M	Non-conductive	B1a-9
846	High temperature	B1a-10

Index

Fittings Series	82
Chapter	B1b
DIN – Metric	1 – 7
BSP	8 – 10
SAE	11 – 14
ORFS	15
Others	16 – 18
Assembly Instructions / Tools	19

Parker Hannifin assumes no liability for typographical errors or other errors

Standard



High temperature



Railway



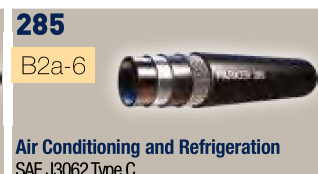
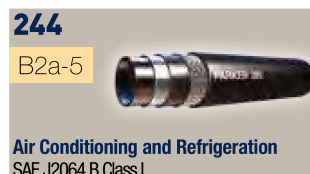
Transportation



Fire retardant



Refrigeration



801PLUS

Push-Lok Plus

For a variety of applications

Primary Applications

All Markets: For low pressure applications
Paper and Pulp: For water / air applications

Restrictions

Not permitted for use in air brake systems,
high dynamic pulsation systems and
with dry air.
Not recommended for fuels.

Construction

Inner tube: Nitrile (NBR)
Reinforcement: High-tensile fibre braid
Cover: High performance synthetic rubber
in different colours

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

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



- Global availability and performance
- Very flexible
- Available in 6 colours
- Available up to size -16
- Nitrile (NBR) inner tube
– extended fluid compatibility
- Improved oil compatibility

Recommended Fluids

Air, water, water-oil emulsions, water-glycol and mineral
based hydraulic respectively lubricating oils.
Consult the chemical compatibility section pages
Ab-26 to **Ab-34** for more detailed information.

Fitting Series



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				Vacuum*	min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi			
801PLUS-4-XXX-RL	6	1/4	-4	6.4	12.1	2.4	350	9.7	1400	95	65	0.13
801PLUS-6-XXX-RL	10	3/8	-6	9.5	15.6	2.4	350	9.7	1400	95	75	0.16
801PLUS-8-XXX-RL	12	1/2	-8	12.7	19.4	2.1	300	8.4	1200	95	125	0.27
801PLUS-10-XXX-RL	16	5/8	-10	15.9	23.1	2.1	300	8.4	1200	51	150	0.28
801PLUS-12-XXX-RL	19	3/4	-12	19.1	25.7	2.1	300	8.4	1200	51	180	0.36
801PLUS-16-XXX-RL	25	1	-16	25.4	33.0	1.4	200	5.6	800	51	250	0.55

* The vacuum values listed in the table are vacuum pressure values in kPa. For an absolute value subtract the table value from 101 kPa

Note: When ordering, please replace in the part number XXX with the relevant colour code. Example: 801PLUS-4-BLU-RL

For 801PLUS in yellow (YEL) only, please consider the part-number without PLUS. Example: 801-4-YEL-RL

Colour codes

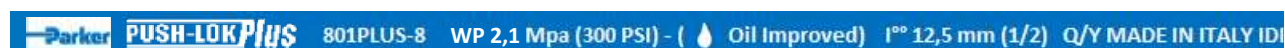
BLK = black
BLU = blue
RED = red
GRN = green
GRA = grey
YEL = yellow



RL = only available on reels

801 Hose
801PLUS-4
801PLUS-6
801PLUS-8
801PLUS-10
801PLUS-12
801PLUS-16
801PLUS-19

Hose layline example



801RH

Push-Lok

Fire retardant cover

Primary Applications

For low pressure railway applications

Restrictions

Not permitted for use in air brake systems.
Not suitable for high dynamic pulsation systems.
Not recommended for fuels (petrol, diesel etc.).
Not recommended for mineral based hydraulic and lubricating oils.

Construction

Tube: Synthetic rubber
Reinforcement: High-tensile fibre braid
Cover: Fire retardant synthetic rubber

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

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



- Very flexible
- Railway approved:
 - European Standard EN45545 HL2 for R22 (internal) and R23 (external)

Recommended Fluids

Air, water, water-oil-emulsions and water-glycol-emulsions.

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				Vacuum*	min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi			
801RH-4-BLK-RL	6	1/4	-4	6.4	12.7	2.4	350	9.7	1400	95	65	0.13
801RH-6-BLK-RL	10	3/8	-6	9.5	15.9	2.4	350	9.7	1400	95	75	0.16

* The vacuum values listed in the table are vacuum pressure values in kPa. For an absolute value subtract the table value from 101 kPa

Colour code

BLK = black



The hose is available in black only

RL = only available on reels

Hose layline example

	801RH-4 WP 2,4 MPa (350 PSI) • • 6,3 mm (1/4") - EN 45545 -	Made in Italy	4Q/17	0XX00
--	---	---------------	-------	-------

804

Push-Lok

For high temperature
water and phosphate ester fluid

Primary Applications

Injection Moulding: For special tempering circuits.

Restrictions

Not permitted for use in air brake systems and
high dynamic pulsation systems.

Do not allow tube to contact any petroleum based fluids.

Construction

Inner tube: EPDM synthetic rubber

Reinforcement: High-tensile fibre braid

Cover: EPDM synthetic rubber , black

Temperature Range -40 °C up to +80 °C

Exception: Air max. +70 °C

Water max. +93 °C



- For hot water up to +93 °C
- For phosphate ester fluids

Recommended Fluids

Phosphate ester based hydraulic fluids, water,
water glycol emulsions, air. Use liquid soap as lubricant.

Consult the chemical compatibility section pages

Ab-26 to **Ab-34** for more detailed information.

Fitting Series



Part Number	Hose I.D.				Hose O.D.	Pressure Rating				Vacuum*	min. bend radius	weight
	DN	Inch	Size	mm	mm	max. working pressure		min. burst pressure				
						MPa	psi	MPa	psi	kPa	mm	kg
804-4-RL	6	1/4	-4	6.4	12.7	1.0	150	4.0	600	51	65	0.13
804-6-RL	10	3/8	-6	9.5	15.9	1.0	150	4.0	600	51	75	0.16
804-8-RL	12	1/2	-8	12.7	19.8	1.0	150	4.0	600	51	130	0.27
804-10-RL	16	5/8	-10	15.9	23.0	1.0	150	4.0	600	51	150	0.28
804-12-RL	19	3/4	-12	19.1	26.2	1.0	150	4.0	600	51	180	0.36

RL = only available on reels

Cover color



Hose layline example

	PUSH-LOK 804-8	WP 1,0 MPA (150 PSI)	12,5 mm (1/2)	1095	
--	----------------	----------------------	---------------	------	--

821FR

Push-Lok

With fire retardant hose cover

Primary Applications

All Markets: For a variety of applications

Restrictions

Not permitted for use in air brake systems and high dynamic pulsation systems.

Not recommended for fuels.

Construction

Inner tube: PKR synthetic rubber

Reinforcement: High-tensile fibre braid

Cover: A fire retardant special fiber outer cover in different colours

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

Exception: Air max. +100 °C

Water max. +85 °C



- Fire retardant hose cover
- Very flexible
- For high level air temperatures

Recommended Fluids







Mineral based hydraulic and lubricating oils, coolant, antifreeze, air, water and water-oil emulsions.

Consult the chemical compatibility section pages

Ab-26 to **Ab-34** for more detailed information.

Fitting Series



Part Number	 Hose I.D.				 Hose O.D.	Pressure Rating				Vaccum*	 min. bend radius	 weight
	DN	Inch	Size	mm	mm	 max. working pressure		 min. burst pressure				
						MPa	psi	MPa	psi			
821FR-4-XXX-RL	6	1/4	-4	6.4	12.7	2.4	350	9.6	1400	95	65	0.12
821FR-6-XXX-RL	10	3/8	-6	9.5	15.9	2.1	300	8.4	1200	95	75	0.16
821FR-8-XXX-RL	12	1/2	-8	12.7	19.8	2.1	300	8.4	1200	95	130	0.18
821FR-12-XXX-RL	19	3/4	-12	19.1	26.2	1.7	250	6.8	1000	95	180	0.33

* The vacuum values listed in the table are vacuum pressure values in kPa. For an absolute value subtract the table value from 101 kPa

Note: When ordering, please replace in the part number XXX with the relevant colour code. Example: 821FR-4-GRN-RL

Colour codes

BLK = black

BLU = blue

GRN = green



RL = only available on reels

Hose layline example

PARKER PUSH-LOK 821FR-8 WP 2,0 MPa (300 PSI) 12,5 mm (1/2) 11-4Q85

830M

Push-Lok

For a variety of applications
including automotive

Primary Applications

All Markets: For a variety of applications
Robot and Automotive market:
For hose bundle systems

Restrictions

Not permitted for use in air brake systems and
high dynamic pulsation systems.
Not recommended for fuels.

Construction

Inner tube: Polyurethane material
Reinforcement: High-tensile fibre braid
Cover: High performance polyurethane material
in different colours



- Chemical resistant for a wide range of fluids
- High abrasion resistance
- Free of wetting disturbing substances (LABS free)
- Small OD and bend radii
- Excellent UV and ozone resistance

Recommended Fluids

Mineral based hydraulic and lubricating oils, coolant,
antifreeze, air, water and water-oil emulsions.
Consult the chemical compatibility section pages
Ab-26 to **Ab-34** for more detailed information.

Temperature Range -40 °C up to +80 °C

Fitting Series



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				Vacuum*	min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi			
830M-4-XXX-RL	6	1/4	-4	6.4	10.7	1.6	232	6.4	928	10	30	0.08
830M-6-XXX-RL	10	3/8	-6	9.5	14.9	1.6	232	6.4	928	10	50	0.13
830M-8-XXX-RL	12	1/2	-8	12.7	19.1	1.6	232	6.4	928	10	70	0.20
830M-10-XXX-RL	16	5/8	-10	15.9	23.0	1.6	232	6.4	928	10	75	0.26
830M-12-XXX-RL	19	3/4	-12	19.1	26.0	1.6	232	6.4	928	10	110	0.31

* The vacuum values listed in the table are vacuum pressure values in kPa. For an absolute value subtract the table value from 101 kPa
Note: When ordering, please replace in the part number XXX with the relevant colour code. Example: 830M-4-GRN-RL

Colour codes

BLK = black
BLU = blue
RED = red
GRN = green
TRA = transparent, size -6 & -8
RL = only available on reels



Hose layline example

<<<<< **Parker** PUSH-LOK 830M-6 DN10 WP 1.6 MPa (232 PSI) QC15812345 23/07/16 23:32 <<<<<

836

Push-Lok

For high oil temperatures

Primary Applications

All Markets: Special high temperature applications

Type Approvals

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

Restrictions

Not permitted for use in air brake systems and high dynamic pulsation systems.

Not recommended for fuels.

Construction

Inner tube: PKR synthetic rubber

Reinforcement: High-tensile fibre braid

Cover: MSHA approved black or blue
PKR synthetic rubber

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

Exception: Air max. +100 °C

Water max. +85 °C



- Max. oil temperature up to +150 °C
- MSHA approved

Recommended Fluids

Mineral based hydraulic and lubricating oils, coolant, antifreeze, air, water and water-oil emulsions.

Consult the chemical compatibility section pages

Ab-26 to **Ab-34** for more detailed information.

Fitting Series



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				Vacuum*	min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi			
836-4-XXX-RL	6	1/4	-4	6.4	12.7	2.8	400	11.2	1600	95	65	0.13
836-6-XXX-RL	10	3/8	-6	9.5	15.9	2.8	400	11.2	1600	95	75	0.16
836-8-XXX-RL	12	1/2	-8	12.7	19.8	2.8	400	11.2	1600	95	100	0.27
836-10-XXX-RL	16	5/8	-10	15.9	23.0	2.4	350	9.6	1400	61	125	0.28
836-12-XXX-RL	19	3/4	-12	19.1	26.2	2.1	300	8.4	1200	61	150	0.36

* The vacuum values listed in the table are vacuum pressure values in kPa. For an absolute value subtract the table value from 101 kPa
Note: When ordering, please replace in the part number XXX with the relevant colour code. Example: 836-4-BLK-RL

Colour codes

BLK = black
BLU = blue



RL = only available on reels

Hose layline example

PARKER HI-TEMP PUSH-LOK 836-8 WP 1,7 MPa (250 PSI) MSHA IC-40/22 I • • 12,5 mm [1/2]

837BM

Push-Lok

For a variety of applications
including automotive

Primary Applications

All Markets: For a variety of applications

Automotive: For water / air applications

Restrictions

Not permitted for use in air brake systems and
high dynamic pulsation systems.

Not recommended for fuels, mineral based hydraulic
and lubricating oils and water-oil-emulsion.

Construction

Inner tube: Synthetic rubber

Reinforcement: High-tensile fibre braid

Cover: High performance synthetic rubber
in different colours

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

Exception: Air max. +70 °C

Water max. +85 °C

- High level of hose flexibility
- High abrasion resistance
- Free from wetting disturbing substances (LABS free)
- Low push-in forces

Recommended Fluids

Air, dry air, water and water-glycol-emulsions.

Consult the chemical compatibility section pages

Ab-26 to **Ab-34** for more detailed information.

Fitting Series



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				Vacuum*	min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi			
837BM-4-XXX-RL	6	1/4	-4	6.4	12.1	1.6	235	6.4	940	95	65	0.13
837BM-6-XXX-RL	10	3/8	-6	9.5	15.6	1.6	235	6.4	940	95	75	0.16
837BM-8-XXX-RL	12	1/2	-8	12.7	19.4	1.6	235	6.4	940	95	125	0.27
837BM-10-XXX-RL	16	5/8	-10	15.9	23.1	1.6	235	6.4	940	51	150	0.28
837BM-12-XXX-RL	19	3/4	-12	19.1	25.7	1.6	235	6.4	940	51	180	0.36
837BM-16-XXX-RL	25	1	-16	25.4	33.0	1.6	235	6.4	940	51	250	0.55

* The vacuum values listed in the table are vacuum pressure values in kPa. For an absolute value subtract the table value from 101 kPa

Note: When ordering, please replace in the part number XXX with the relevant colour code. Example: 837BM-4-GRN-RL

Colour codes

BLK = black

BLU = blue

RED = red

GRN = green

GRA = grey



RL = only available on reels

Hose layline example

PARKER PUSH-LOK 837BM-10 WP 1,6 MPa [235 PSI] I • • 16 mm [5/8]

837PU-Plus

Hybrid Push-Lok

For a variety of high demanding applications

Primary Applications

All Markets: For high demand applications
For energy chain systems
Robot and Automotive market:
For hose bundle systems

Restrictions

Not permitted for use in air brake systems and high dynamic pulsation systems.
Not recommended for fuels, mineral based hydraulic and lubricating oils and water-oil-emulsion.

Construction

Inner tube: Synthetic rubber
Reinforcement: High-tensile fibre braid
Cover: High performance polyurethane material in different colours

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

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



- High level of hose flexibility
- High abrasion resistance
- High torsion resistance
- Free from wetting disturbing substances (LABS free)
- Low push-in forces

Recommended Fluids

Air, dry air, water and water-glycol-emulsions.
Consult the chemical compatibility section pages **Ab-26** to **Ab-34** for more detailed information.

Fitting Series



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				Vacuum*	min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi			
837PU-4-XXX-RL	6	1/4	-4	6.4	12.3	1.6	235	6.4	940	95	30	0.11
837PU-6-XXX-RL	10	3/8	-6	9.5	15.5	1.6	235	6.4	940	95	50	0.15
837PU-8-XXX-RL	12	1/2	-8	12.7	19.5	1.6	235	6.4	940	95	70	0.26
837PU-10-XXX-RL	16	5/8	-10	15.9	22.6	1.6	235	6.4	940	51	90	0.27
837PU-12-XXX-RL	19	3/4	-12	19.1	26.2	1.6	235	6.4	940	51	110	0.33
837PU-16-XXX-RL	25	1	-16	25.4	32.8	1.6	235	6.4	940	51	180	0.52

* The vacuum values listed in the table are vacuum pressure values in kPa. For an absolute value subtract the table value from 101 kPa
Note: When ordering, please replace in the part number XXX with the relevant colour code. Example: 837PU-4-GRN-RL

Colour codes

BLK = black
BLU = blue
RED = red
GRN = green
GRA = grey



RL = only available on reels

Hose layline example

PARKER PUSH-LOK 837PU-Plus-8 WP 1,6 MPa (235 PSI) 1" 12,5 mm (1/2)

838M

Push-Lok

For non-conductive applications

Primary Applications

Special Market: For special electrical requirements,
e.g. cooling lines with deionized water

Restrictions

Not permitted for use in air brake systems and
high dynamic pulsation systems.
Not recommended for fuels.

Construction

Inner tube: Polyurethane material
Reinforcement: High-tensile fibre braid
Cover: Orange colored polyurethane material

Temperature Range -40 °C up to +80 °C



- Non conductive hose
- High level of hose flexibility
- High abrasion resistance
- Free of wetting disturbing substances (LABS free)
- Small OD and bend radii
- Excellent UV and ozone resistance

Recommended Fluids

Mineral based hydraulic and lubricating oils, coolant,
antifreeze, air, water, water-oil emulsions.
Consult the chemical compatibility section pages
Ab-26 to **Ab-34** for more detailed information.

Hose

Fitting Series



Part Number	Hose I.D.				Hose O.D.	Pressure Rating				Vacuum*	min. bend radius	weight
	DN	Inch	Size	mm	mm	max. working pressure	min. burst pressure					
						MPa	psi	MPa	psi	kPa	mm	kg
838M-4-RL	6	1/4	-4	6.4	11.2	1.6	232	6.4	928	10	30	0.08
838M-6-RL	10	3/8	-6	9.5	15.0	1.6	232	6.4	928	10	50	0.13
838M-8-RL	12	1/2	-8	12.7	19.1	1.6	232	6.4	928	10	70	0.20
838M-10-RL	16	5/8	-10	15.9	23.0	1.6	232	6.4	928	10	75	0.26
838M-12-RL	19	3/4	-12	19.1	26.0	1.6	232	6.4	928	10	110	0.31

* The vacuum values listed in the table are vacuum pressure values in kPa. For an absolute value subtract the table value from 101 kPa
RL = only available on reels

Cover color



Hose layline example



846

Push-Lok

For high oil temperatures

Primary Applications

All markets: Special high temperature applications

Restrictions

Not permitted for use in air brake systems and high dynamic pulsation systems.

Not recommended for fuels.

Construction

Inner tube: PKR synthetic rubber

Reinforcement: High-tensile fibre braid

Cover: MSHA approved black or blue
PKR synthetic rubber

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

Exception: Air max. +100 °C

Water max. +85 °C



- For high temperature applications up to + 150 °C
- MSHA approved
- Lower fitting insertion force

Recommended Fluids

Mineral based hydraulic and lubricating oils, coolant, antifreeze, air, water and water-oil emulsions.

Consult the chemical compatibility section pages

Ab-26 to **Ab-34** for more detailed information.

Fitting Series



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				Vacuum*	min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi			
846-4-XXX-RL	6	1/4	-4	6.4	12.6	1.6	230	6.4	930	95	65	0.13
846-6-XXX-RL	10	3/8	-6	9.5	15.8	1.6	230	6.4	930	95	75	0.19
846-8-XXX-RL	12	1/2	-8	12.7	19.8	1.6	230	6.4	930	95	130	0.27
846-10-XXX-RL	16	5/8	-10	15.9	23.1	1.6	230	6.4	930	51	150	0.31
846-12-XXX-RL**	19	3/4	-12	19.1	26.2	1.6	230	6.4	930	51	180	0.36

* The vacuum values listed in the table are vacuum pressure values in kPa. For an absolute value subtract the table value from 101 kPa
Note: When ordering, please replace in the part number XXX with the relevant colour code. Example: 846-4-GRN-RL

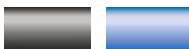
** under development

Colour codes

BLK = black

BLU = blue

RL = only available on reels



Hose layline example

