

Parflex SCR Literature



Parflex SCR Hose Assemblies

Electrically Heated

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



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Parflex SCR Hose Assemblies

Keeping the Air We Breathe Clean

With Electrically Heated SCR Hose Assemblies from Parker's Parflex Division, a cleaner exhaust system means a cleaner environment. Designed for heating and conveying DEF (Diesel Exhaust Fluid) throughout the SCR system on commercial vehicles, Parflex hoses are made

to handle both on-road and off-road applications while helping you stay Tier IV and EPA '10 compliant. Combine these hoses with other high value Parflex fluid conveyance products (pilot lines, grease lines, hydraulic hoses, etc.) so your customer can enjoy best in class durability and performance.

impact and water resistance, making the hoses suitable for multiple environments.

Each configuration utilizes materials specifically formulated for their application. All Parflex SCR hose assemblies have multiple options that allow customization by the equipment manufacturer/end user.

Unlike the competition's electrically heated hose, Parflex SCR hoses lock-in the heating elements with an extruded sheath for added protection and long-lasting uniform heating. The overmold on the fittings provide

SCR - Selective Catalytic Reduction The process of injecting an Urea solution into the exhaust stream onto a catalyst. The injection starts a chemical reaction, changing Nitrogen Oxides to Nitrogen and Water.

Advantages

- Consistent thaw - more reliable than coolant heated lines.
- Multiple options available to fit every application.
- Protective Overmolding
 - Protection against water ingress and damage of electrical components.
 - Bolsters fitting strength and impact resistance.
- Corrugated heat shield offers abrasion resistance.
- Assembled and designed in USA
- The Parflex Division is third party certified for ISO 14001 and TS 16959.



S0/S1

Suction/Throttle Line Design

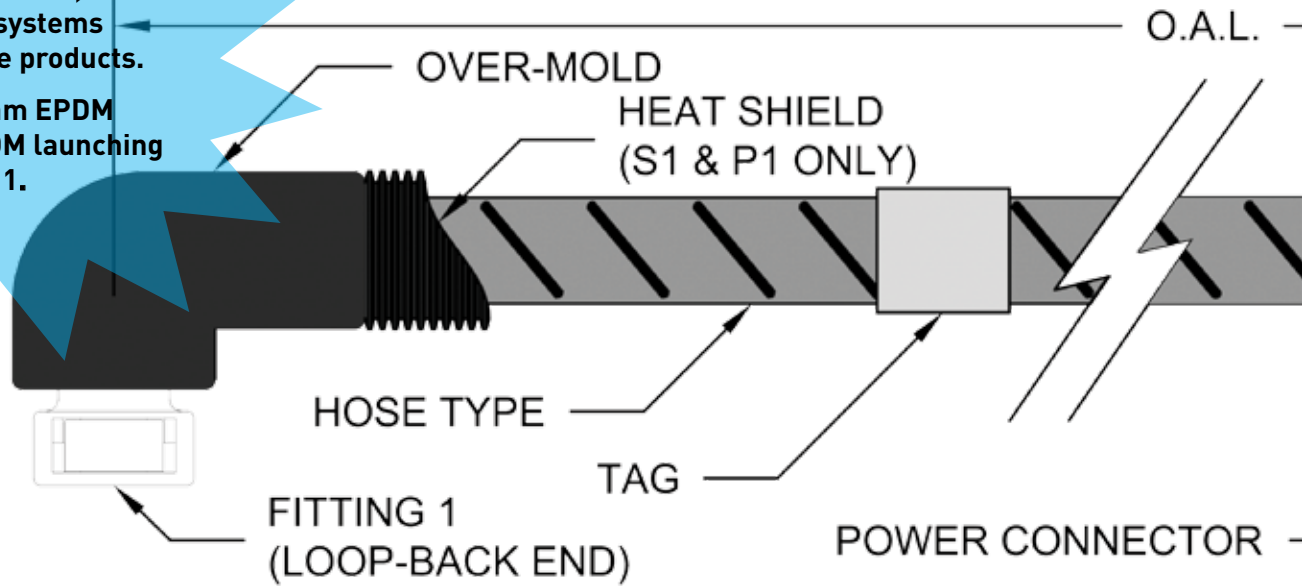
Parflex SCR Hose Assembly Suction/Throttle Line

- Thermoplastic core tube with fabric reinforcement
- Stainless steel heating wire
- Extruded thermoplastic jacket
- Optional heat/abrasion shield



Please contact Parflex for additional sizes, non-purge systems and EPDM core products.

4mm PA, 4mm EPDM and 5.5mm EPDM launching in 2011.



Base Part Number	I.D.	O.D.	w/ Heat Shield (opt)	Max. Oper. Pressure		Min. Burst Pressure		Vacuum Resistance		Bend Radius	Lengths Available*
	mm	mm	mm	psi	bar	psi	bar	inch	Hg/bar	inch	
S0	6	14	21	145	10	600	40	8.9	300m	2	1/2, 1 or 2 meters
S1	6	14	21	145	10	600	40	8.9	300m	2	1/2, 1 or 2 meters

*Please contact Parflex for overall lengths other than those listed. Nonstandard lengths are available.

Certifications

- TS 16949
- ISO 14001

Operating Parameters S0/S1

- Temperature Range:
-40°F to 158°F (-40°C to 70°C)
Spikes to 221°F (105°C)
- Available in 12VDC or 24VDC design



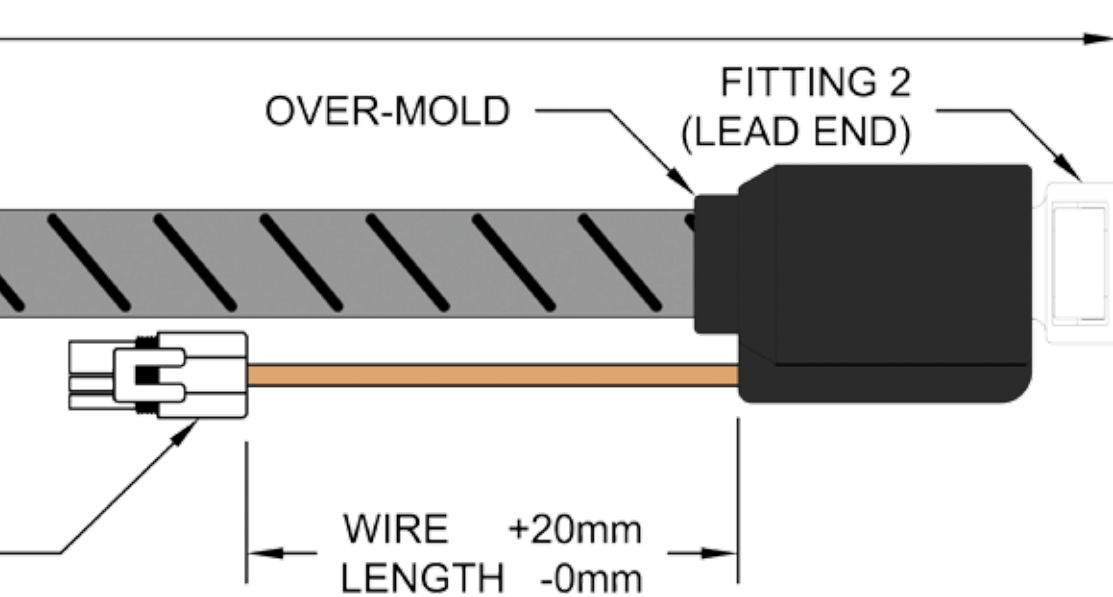
P1

Polyamide Pressure Line Design



Parflex SCR Hose Assembly Polyamide Pressure Line

- Specialty high temperature polyamide core with fabric reinforcement
- Stainless steel heating wire
- Extruded high temperature thermoplastic jacket
- Heat/abrasion shield



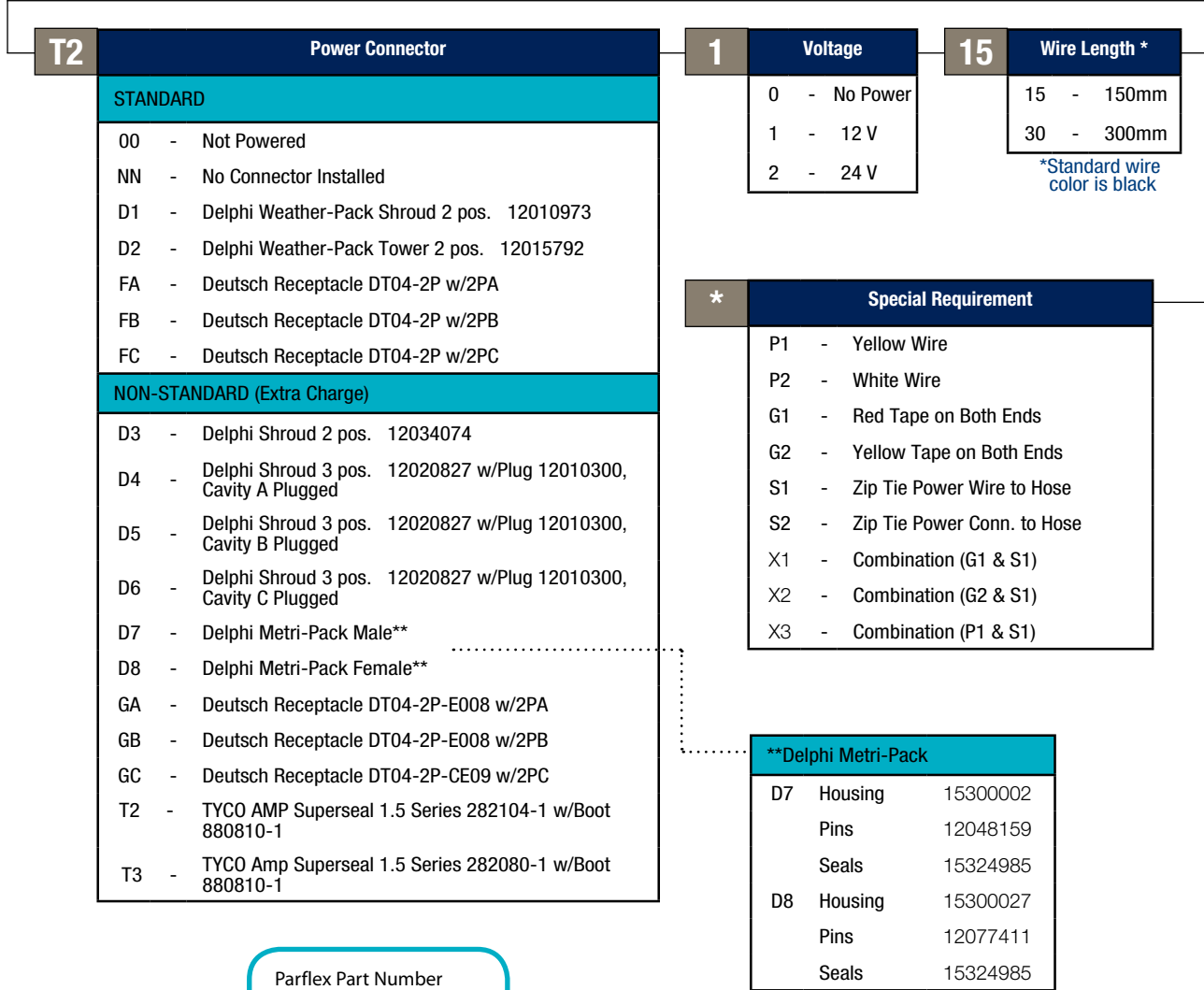
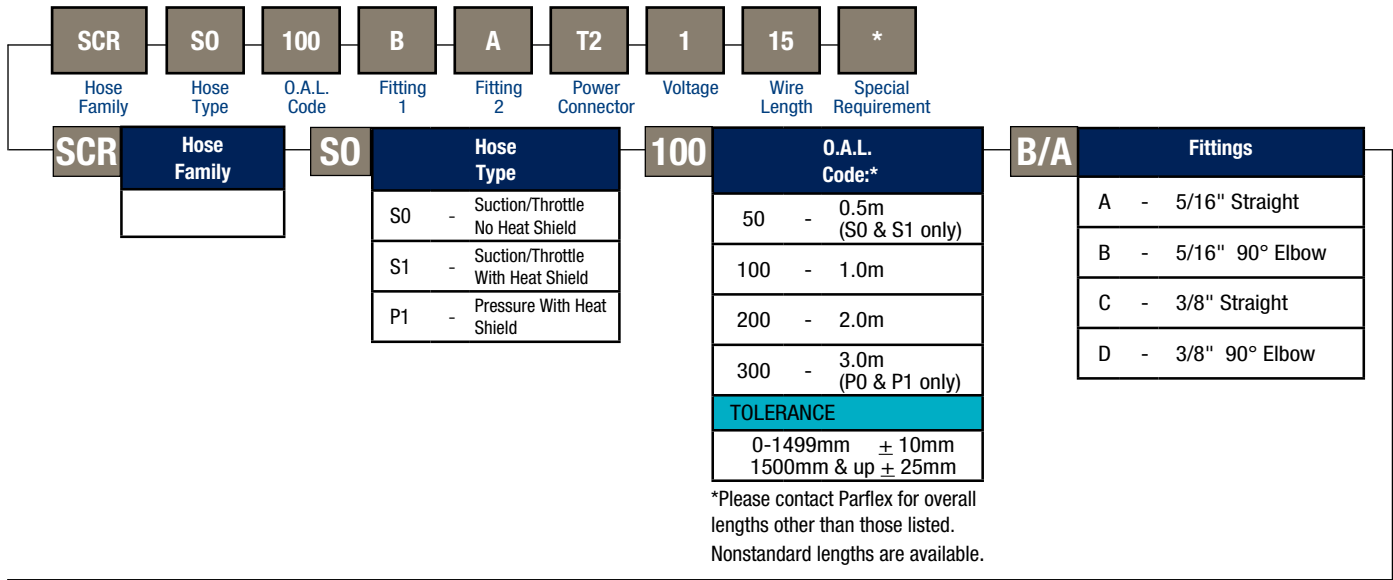
Base Part Number	I.D.	O.D.	w/ Heat Shield (opt)	Max. Oper. Pressure		Min. Burst Pressure		Bend Radius	Lengths Available*
	mm	mm	mm	psi	bar	psi	bar	inch	
P1	6	13	21	145	10	600	40	2	1, 2 or 3 meters

*Please contact Parflex for overall lengths other than those listed. Nonstandard lengths are available.

Operating Parameters P1

- Temperature Range:
-40°F to 248°F (-40°C to 120°C)
Spikes to 284°F (140°C)
- Internal/Fluid Temp:
140°F Max, per Cummins AEB
- Available in 12VDC or 24VDC design

How to Build a Parflex SCR Hose Assembly



Parflex Part Number
Customer Part Number
Assembly Date / Shift

Hose Assembly Label

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DEF Reservoir Systems available from Parflex Division

Coolant Control Valve available from Fluid Controls Division

Silicon Coolant Hose available from Industrial Hose Products Division

J2044 Fittings available from Fluid System Connectors Division

Coolant Supply Line Tee available from Fluid System Connectors Division

