



Synflex®

Hydraulic Hose
Quick Reference Guide



Synflex® Formed Hose

Synflex® formed hose is one of the most innovative ideas to come along in the past decade for hydraulic hose applications. Utilizing the forming technology pioneered by Synflex, formed high pressure hydraulic hose is now available.

Whatever your needs, our staff of professionals can accommodate the products and services to guarantee your success.



Benefits

Zero scrap

- Formed assemblies arrive ready for installation.
- No custom bending or fitting is needed.

Fewer leak points

- Flexible hydraulic hose can be formed in multiple dimensions over the entire length of a chassis.
- With O-ring face seal fittings, assemblies are virtually leak free.
- Traditional failures at fatigue points with rigid tubing are eliminated with vibration-absorbing thermoplastic hose.

Reduced assembly time

- Drop-in assemblies save more time than custom formed tubing and multiple adaptor setups.
- Formed assemblies make JIT and line-sequencing efforts attainable, whereas bulk hose and tubing don't.

Reduced cost of piece parts

- Often, when expensive unions and adaptors are replaced with continuous hose, the overall cost is reduced.
- MRO-friendly design.
- When damaged, aftermarket assemblies can be easily replaced.
- Flexible hose is easier to route than formed tubing.

Construction



Fork Lift



Hydraulic Equipment



Applications

- Forklifts
- Construction machinery
- Material handling equipment
- Farm machinery
- Mobile equipment

100R7

3130



Specification

- 100R7
- 1,000 - 3,000psi
- -40 to 212°F (-40 to 100°C)
- -02 to -16

Applications

- General hydraulics
- Pneumatics
- Agriculture equipment
- Material handling

Features

- Nylon lined core tube
- Good chemical resistance and low elongation
- Black urethane jacket
- Highly UV resistant

3750



- 100R7
- 1,250 - 3,000psi
- -40 to 212°F (-40 to 100°C)
- -03 to -12

- Hydraulic tools
- Lubrication systems
- Mobile hydraulics
- Agriculture equipment

- Standard hose version of 37AL
- Flexible, solid polyester core tube
- Compatible with re-usable fittings
- UV resistant black polyurethane cover
- Good cold weather flexibility

3740



- 100R7
- 1,000 - 3,000psi
- -40 to 212°F (-40 to 100°C)
- -03 to -16

- General hydraulics
- Aerial lift equipment

- Rated "Non-Conductive" per SAE J517 Spec
- Nylon lined core tube
- UV resistant stabilizers enhance the polyurethane cover
- Good cold weather flexibility
- Available in sizes up to 1" I.D.

37AL



- 100R7
- 3,000psi
- -40 to 212°F (-54 to 100°C)
- -03 to -08
- Complies with ANSI A 92.2

- General hydraulics
- Aerial lift equipment

- Rated "Non-Conductive" per ANSI Spec
- UV stabilizers enhance the polyurethane cover
- Good cold weather flexibility
- Flexible, solid polyester core tube
- Compatible with re-usable fittings

3580



- 100R1, 100R7
- 2,250 - 3,500psi
- -40 to 225°F (-40 to 100°C)
- -04 to -12
- Exceeds 100R7 specs and most competitive hose specs

- Mobile hydraulics
- Lubrication systems
- Agriculture equipment

- Polyester core tube
- Good cold weather flexibility
- High tensile, wire reinforced and rugged design
- Cut resistant
- Crush resistant
- Black urethane jacket
- Highly UV resistant

We carry a full line of fittings...
visit our website
www.synflexhose.com



100R8

3R80



Specification

- 100R8
- 2,000 - 5,000psi
- -40 to 212°F (-40 to 100°C)
- -03 to -16

Applications

- General hydraulics
- Agriculture
- Material handling
- Forestry
- Construction
- Long life in impulse cycling and flexing applications

Features

- Solid nylon core tube
- Excellent chemical resistance
- Compatible with re-usable fittings
- Black urethane jacket
- Highly UV resistant
- Rugged hose for demanding applications

3800



- 100R8
- 3,500 - 6,000psi
- -40 to 212°F (-40 to 100°C)
- -02 to -08

- Pilot lines
- General hydraulics
- Machine tools
- Mobile equipment
- Agriculture equipment

- Nylon lined core tube and aramid fiber reinforcement
- High pressure hose with small O.D. to fit 100R7 fittings
- Low volumetric expansion

3E80



- 100R8
- 2,000 - 5,000psi
- -40 to 212°F (-40 to 100°C)
- -03 to -16

- General hydraulic system that may contact high voltage sources
- Mobile machinery
- Rescue tools
- Aerial equipment
- Rugged hose for demanding applications

- UV resistant stabilizers enhance the polyurethane cover
- High pressure sizes available up to 1" I.D.
- Non-Conductive hose version of 3R80
- Solid nylon core tube
- Excellent chemical resistance
- Ideal for use with re-usable fittings
- Orange urethane jacket

3840



- 100R8
- 3,500 - 5,000psi
- -40 to 212°F (-40 to 100°C)
- -03 to -08

- General hydraulic system that may contact high voltage sources
- Mobile machinery
- Rescue tools
- Aerial equipment

- Non-Conductive hose version of 3800
- Nylon lined core tube
- Aramid fiber reinforcement
- Low volumetric expansion
- Orange urethane jacket with UV stabilizers to enhance performance in outdoor applications
- High pressure hose with small O.D. to fit 100R7 fittings

100R18

30CT



- 100R18
- 3,000psi
- -65 to 200°F (-54 to 94°C)
- -03 to -10

- Forklift
- General hydraulics
- Material handling
- Freezer application
- Perfect for constant flexing applications

- Flexible design with hytrel lined core tube and jacket to ensure flexibility and long life in temperature extremes
- Engineered for smaller O.D., yet keep 3000psi constant pressure rating

3360



- 100R18
- 3,000psi
- -40 to 212°F (-40 to 100°C)
- -03 to -16

- Forklift
- General hydraulics
- Material handling
- Freezer application
- Perfect for constant flexing applications

- Another 3000psi constant pressure hose available in larger I.D., sized up to 1"
- Nylon lined core tube for chemical resistance and hytrel jacket for longer life in cold temperatures

Application Specific Hose

31N0



Specification

- 1,500psi
- -40 to 212°F (-40 to 100°C)
- -04 to -08

Applications

- Low volumetric expansion
- Pilot lines
- Ideally suited for control lines where responsiveness is an issue

Features

- Nylon core tube provides chemical compatibility
- UV resistant black urethane jacket aids long life in outdoor applications
- Constant pressure hose line designed for lower volumetric expansion

25CT



- 2,500psi
- -65 to 200°F (-54 to 93°C)
- -04 to -08

- Forklift
- General hydraulics
- Material handling
- Freezer application
- Perfect for constant flexing applications

- Flexible design with hytrel lined core tube and jacket to ensure flexibility and long life in temperature extremes
- Engineered for smaller O.D pressure rating

3R30



- 100R3 performance
- 1,000 - 1,750psi
- -40 to 212°F (-40 to 100°C)
- -03 to -08

- When R7 pressures are overkill and cost is an issue
- Low pressure hydraulic equipment
- Misting applications
- General hydraulic and pneumatic

- Identical to 3130 family but with lower pressure rating
- Highly UV resistant black urethane cover
- Nylon lined core tube

Very High Pressure Hose

3V10



- 8,000 - 10,000psi
- -40 to 150°F (-40 to 66°C)
- -03 to -06

- Very high pressures
- Hydraulic jacks

- Nylon lined core tube for chemical resistance
- Aramid fiber for low volumetric expansion and pressures up to 10,000psi
- A full 4:1 safety factor at these high pressure ratings
- Black urethane jacket for UV resistance and abrasion resistance

3390



- 10,000psi
- -40 to 212°F (-40 to 100°C)
- -04 to -08

- High pressure application
- Control valves
- Not for use with hand held applications

- Kevlar reinforcement for high pressures
- 10,000psi hose with 4:1 safety factor
- Solid nylon core tube for excellent chemical resistance and tough UV resistant urethane sheath

3VE0



- 8,000 - 10,000psi
- -40 to 150°F (-40 to 66°C)
- -03 to -06

- Repair tools for high voltage sources
- Rescue equipment and tools
- Mobile machinery
- Very high pressures

- Non-Conductive hose version of 3V10
- Nylon lined core tube
- Aramid fiber reinforcement
- Orange urethane jacket with UV stabilizers to enhance performance in outdoor applications

Eaton
14615 Lone Oak Road
Eden Prairie, MN 55344
USA
Tel: 952 937-9800
Fax: 952 974-7722
www.hydraulics.eaton.com

Eaton
115 Lena Dr.
Aurora, OH 44202
USA
Tel: 330 274-3171
Toll Free: 800 837-1467
Fax: 330 274-0473

Eaton
Gembloux S.A./N.V.
Chaussee de Tirlemont, 100
B-5030 Gembloux
Belgium
Tel: (32) 81-626-211
Fax: (32) 81-615-789

