



Synflex®

Hydraulic Hose
Quick Reference Guide



100R7

31B0/3130



Specification

- 100R7
- 69 – 207 bar
- -40 to 100°C
- -02, -08, -12, -16 (3130)
- -03, -04, -05, -06 (31B0)

Applications

- General hydraulics
- Material handling
- Forklift
- High Pressure Gas Transfer
- Chemical Transfer

Features

- Nylon core tube
- Good chemical resistance and low elongation
- Urethane jacket
- Highly UV resistant

37B0



- 100R7
- 86 to 207 bar
- -54 to 100°C
- -03 to -12

- Forklifts working in cold storage areas
- General hydraulics
- Mobile equipment
- Lift truck hydraulic systems
- Cold temperature motion control

- Cold storage hose
- Urethane core tube
- Very flexible at low temperatures
- Abrasion resistant polyester cover

3740



- 100R7
- 69 – 207 bar
- -40 to 100°C
- -03 to -16

- General hydraulics
- Aerial lift equipment

- Rated “Non-Conductive” per SAE J517 Spec
- Nylon core tube
- UV resistant stabilizers enhance the orange urethane cover
- Good cold weather flexibility

37AL



- 100R7
- 207 bar
- -54 to 100°C
- -03 to -08

- General hydraulics
- Aerial lift equipment

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

3580



- 100R1, 100R7
- 155 – 241 bar
- -40 to 107°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
- Urethane jacket
- Highly UV resistant

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



100R8



3R80

Specification

- 100R8
- 138 – 345 bar
- -40 to 100°C
- -03 to -16

Applications

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

Features

- Nylon core tube
- Excellent chemical resistance
- Urethane jacket
- Highly UV resistant
- Rugged hose for demanding applications



3800

- 100R8
- 241 – 414 bar
- -40 to 100°C
- -02 to -08

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

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



3E80

- 100R8
- 138 – 345 bar
- -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 orange urethane cover
- Non-Conductive hose version of 3R80
- Nylon core tube
- Excellent chemical resistance
- Ideal for use with re-usable fittings



3840

- 100R8
- 241 – 345 bar
- -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 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
- 207 bar
- -54 to 94°C
- -03 to -10

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

- Flexible design with polyester core tube and jacket to ensure flexibility and long life in temperature extremes
- Engineered for smaller O.D., yet keep 207 bar constant pressure rating



3360

- 100R18
- 207 bar
- -40 to 100°C
- -03 to -16

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

- Another 207 bar constant pressure hose
- Nylon core tube for chemical resistance and polyester jacket for longer life in cold temperatures

Application Specific Hose

31N0



Specification

- 103 bar
- -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 urethane jacket aids long life in outdoor applications
- Constant pressure hose line designed for lower volumetric expansion

35NG



- 345 bar
- -54 to 66°C
- -03 to -08

- CNG refueling dispensers
- CNG transfer lines

- Dissipates static electricity
- Low volumetric expansion
- UV and abrasion resistant cover
- Designed for electrically conductive couplings
- ANSI/IAS NGV 4.2 and CSA 12.52 compliant for dispensing systems

3770 Multi-lines



- Broad temperature and pressure ranges using standard hose series

- General hydraulics and pneumatics systems
- Mobile machinery
- Hose retractors and sheave routings

- Most Synflex® hoses can be permanently joined to form twin or Multi-line designs
- Eliminates abrasion caused by relative movement of adjacent hoses
- Flat profile is flexible and compact
- Special separation tool to prevent hose damage

Very High Pressure Hose

3V10



- 551 – 689 bar
- -40 to 66°C
- -03 to -06

- Very high pressures
- Hydraulic jacks

- Nylon core tube for chemical resistance
- Aramid fiber for low volumetric expansion and pressures up to 689 bar
- A full 4:1 safety factor at these high pressure ratings
- Urethane jacket for UV resistance and abrasion resistance

3390



- 689 bar
- -40 to 100°C
- -04 to -08

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

- Aramid reinforcement for high pressures
- 689 bar hose with 4:1 safety factor
- Nylon core tube for excellent chemical resistance and tough UV resistant urethane sheath

3VE0



- 689 bar
- -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 core tube
- Aramid fiber reinforcement
- Orange urethane jacket with UV stabilizers to enhance performance in outdoor applications

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.

Vantaggi

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, where-as 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

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
Chaussee de Tirlemont, 100
B-5030 Gembloux
Belgium
Tel: (32) 81-626-211
Fax: (32) 81-615-789
E-Mail: synflexeurope@eaton.com

