



Next Generation Crimpable Thermoplastic Hoses: **TH7 | TH8 | TH18**



Flexible, Crimpable Thermoplastic Hoses

Crimping leak-proof couplings on thermoplastic hose has never been easier. Gates introduces the next generation of crimpable thermoplastic hoses. All are available in conductive and non-conductive constructions. Here's how they can help you:

More Industrial Applications

Gates crimpable thermoplastic hoses cover more industrial applications and increase your sales opportunities. They handle petroleum, water-based fluids and synthetic hydraulic fluids. Applications include general hydraulic systems, hydraulic tools, mobile equipment and high-pressure pneumatic systems up to 500 psi. All are ideal for equipment such as power and telephone line cherry pickers, lubrication lines, blowout preventer control lines, hydraulic lifts, farm machinery and construction equipment.

TH7/TH7NC & TH8/TH8NC THERMOPLASTIC HOSES

Specifications: TH7 and TH7NC hoses meet or exceed performance requirements of SAE 100R7. TH7NC also meets ANSI A92.2 for vehicle-mounted aerial devices (in sizes -3 to -8). TH8 and TH8NC hoses meet or exceed performance requirements of SAE 100R8. All hoses offer a significantly tighter bend radius than the SAE specification.

Tube: 100% seamless Nylon Type Z handles a broad range of hydraulic fluids, including phosphate esters and water glycol.

Reinforcement:

TH7: Braided synthetic fiber (-2 size is spiraled synthetic fiber).

TH7NC: Braided synthetic fiber (sizes -2, -8, -12 and -16); spiraled synthetic fiber (sizes -3 thru -6).

TH8: Polyester braid.

TH8NC: Two polyester braids.

Cover:

TH7 & TH8: Black polyurethane resists hydraulic fluids, high temperatures, aging and weathering. Perforated for use in general hydraulic and pneumatic systems up to 500 psi.

TH7NC & TH8NC: Orange (industry-accepted color for non-conductive hose) urethane resists hydraulic fluids, high temperatures, aging and weathering. Non-perforated for applications requiring electrical non-conductivity. Hoses meet SAE Electrical Conductivity Test requirements. Maximum leakage shall not exceed 50 microamperes when subjected to 75kV/ft for five minutes.

Temperature Range: -65°F to +200°F (-54°C to +93°C) continuous service for petroleum and synthetic oils. Maximum of +158°F (+70°C) for water, water/oil emulsions and water glycol.

Couplings: Gates MegaCrimp® couplings with TuffCoat® plating.

TH7 SPECIFICATIONS: Black cover meets SAE 100R7 specification.

Description	Product No. (Bulk Carton)	Hose ID (inches)	Hose OD (inches)	Working Pressure (psi)	Min. Burst Pressure (psi)	Min. Bend Radius (inches)	Approx. Bulk Carton Length (ft.)
2TH7	4467-1154	1/8	0.32	2,500	10,000	0.5	250
3TH7	4467-1155	3/16	0.41	3,000	12,000	0.8	250
4TH7	4467-1157	1/4	0.50	2,750	11,000	1.3	250
5TH7	4467-1159	5/16	0.56	2,500	10,000	1.8	250
6TH7	4467-1161	3/8	0.64	2,250	9,000	2.0	250
8TH7	4467-1207	1/2	0.80	2,000	8,000	3.0	250
12TH7	4467-1165	3/4	1.05	1,250	5,000	5.0	200
16TH7	4467-1196	1	1.32	1,000	4,000	10.0	200

TH7NC SPECIFICATIONS: Orange non-conductive cover meets SAE 100R7 specification.

Description	Product No. (Bulk Carton)	Hose ID (inches)	Hose OD (inches)	Working Pressure (psi)	Min. Burst Pressure (psi)	Min. Bend Radius (inches)	Approx. Bulk Carton Length (ft.)
2TH7NC	4467-1166	1/8	0.32	2,500	10,000	0.5	250
3TH7NC	4467-1167	3/16	0.41	3,000	12,000	0.8	250
4TH7NC	4467-1169	1/4	0.50	2,750	11,000	1.3	250
5TH7NC	4467-1171	5/16	0.56	2,500	10,000	1.8	250
6TH7NC	4467-1173	3/8	0.64	2,250	9,000	2.0	250
8TH7NC	4467-1175	1/2	0.80	2,000	8,000	3.0	250
12TH7NC	4467-1177	3/4	1.05	1,250	5,000	5.0	200
16TH7NC	4467-1198	1	1.32	1,000	4,000	10.0	200

TH8 SPECIFICATIONS: Black cover meets SAE 100R8 specification.

Description	Product No. (Bulk Carton)	Hose ID (inches)	Hose OD (inches)	Working Pressure (psi)	Min. Burst Pressure (psi)	Min. Bend Radius (inches)	Approx. Bulk Carton Length (ft.)
3TH8	4467-1178	3/16	0.50	5,000	20,000	1.50	250
4TH8	4467-1179	1/4	0.61	5,000	20,000	2.00	250
6TH8	4467-1181	3/8	0.75	4,000	16,000	2.50	250
8TH8	4467-1183	1/2	0.87	3,500	14,000	4.00	250
12TH8	4467-1184	3/4	1.13	2,250	9,000	6.50	200
16TH8	4467-1185	1	1.45	2,000	8,000	10.00	200

TH8NC SPECIFICATIONS: Orange non-conductive cover meets SAE 100R8 specification.

Description	Product No. (Bulk Carton)	Hose ID (inches)	Hose OD (inches)	Working Pressure (psi)	Min. Burst Pressure (psi)	Min. Bend Radius (inches)	Approx. Bulk Carton Length (ft.)
4TH8NC	4467-1186	1/4	0.61	5,000	20,000	2.0	250
6TH8NC	4467-1204	3/8	0.75	4,000	16,000	2.5	250
8TH8NC	4467-1189	1/2	0.87	3,500	14,000	4.0	250

Less Inventory Overhead

These high quality thermoplastic hoses are compatible with Gates MegaCrimp® couplings so there is no need to carry swaggers or swage inventories. This can reduce your inventory requirements and lower your costs. In addition, TH18 and TH18NC constant pressure hoses handle all working pressures up to 3,000 psi, further simplifying inventory management.

Crimping Efficiency

The patented Gates MegaCrimp coupling features a unique “C” insert that gives you a leak-proof seal that starts round and stays round. And Gates newest, state-of-the-art crimpers – the GC™32-XD and the GC™96 – can be used to make factory-quality assemblies quickly and easily.

Make better connections faster. Contact your Gates representative for more information on the next generation of crimpable thermoplastic hoses.

TH18 & TH18NC CONSTANT PRESSURE THERMOPLASTIC HOSES

Specifications: TH18 and TH18NC hoses meet or exceed performance requirements of SAE 100R18 with a significantly tighter bend radius. Both are suitable for petroleum or synthetic-based hydraulic fluids in hydraulic systems. TH18 is ideal for industrial and agricultural applications exposed to low temperatures or cyclic and quick temperature changes. TH18NC non-conductive hoses are suitable for use in high-voltage applications. Both hoses remain highly flexible in cold weather conditions and are resistant to hydraulic fluids, high temperatures, aging and weathering.

Tube: Polyester elastomer.

Reinforcement:

TH18: One band of synthetic fiber.

TH18NC: Two bands of synthetic fiber.

Cover:

TH18: Special polyester, black, perforated.

TH18NC: Special polyester, orange (industry-accepted color for non-conductive hose), non-perforated for applications requiring electrical non-conductivity. Meets SAE 100R18 Electrical Conductivity Test. Maximum leakage shall not exceed 50 microamperes when subjected to 75kV/ft for five minutes.

Temperature Range: -67°F to +212°F (-55°C to +100°C) continuous service for petroleum and synthetic oils. Maximum of +158°F (+70°C) for water-based fluids.

Couplings: Gates MegaCrimp® couplings with TuffCoat® plating.

TH18 SPECIFICATIONS: Black cover meets SAE 100R18 specification.

Description	Product No. (Bulk Carton)	Hose ID (inches)	Hose OD (inches)	Working Pressure (psi)	Min. Burst Pressure (psi)	Min. Bend Radius (inches)	Approx. Bulk Carton Length (ft.)
4TH18	4467-0006	1/4	0.48	3,000	12,000	1.38	250
5TH18	4467-0007	5/16	0.56	3,000	12,000	1.77	250
6TH18	4467-0008	3/8	0.65	3,000	12,000	1.77	250
8TH18	4467-0009	1/2	0.89	3,000	12,000	2.76	250
10TH18	4467-0010	5/8	1.03	3,000	12,000	3.94	250

TH18NC SPECIFICATIONS: Orange non-conductive cover meets SAE 100R18 specification.

Description	Product No. (Bulk Carton)	Hose ID (inches)	Hose OD (inches)	Working Pressure (psi)	Min. Burst Pressure (psi)	Min. Bend Radius (inches)	Approx. Bulk Carton Length (ft.)
4TH18NC	4467-0011	1/4	0.48	3,000	12,000	1.38	250
5TH18NC	4467-0012	5/16	0.56	3,000	12,000	1.77	250
6TH18NC	4467-0013	3/8	0.65	3,000	12,000	1.77	250
8TH18NC	4467-0014	1/2	0.89	3,000	12,000	2.76	250
10TH18NC	4467-0015	5/8	1.03	3,000	12,000	3.94	250

CRIMPERS

GC96 Crimper – For hydraulic and industrial hose crimping and leak-free, factory-quality hose assemblies. Crimps 1/4” thru 6” industrial hose and 1/4” thru 2” hydraulic hose.

GC32-XD Crimper – The first global crimper, the GC32-XD easily makes hydraulic assemblies from Gates entire hose and coupling product line. Connect to power from any grounded 15- to 20-amp circuit producing over 208 volts. Adjustable height, repositionable control panel and quick change tool for die loading puts everything within easy reach of the operator.



GC96 Crimper



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in Belts, Hose and Hydraulics.**

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of hydraulic hose systems and equipment,
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