

## PLASTICS INDUSTRY HEATED HOSES

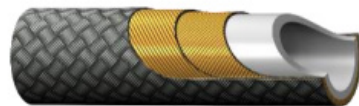
MPI Plastics Industry Heated Hoses are used to transfer molten plastic or thermoplastic materials from extruders to molds at high temperatures and pressures. These hoses are manufactured from high temperature and pressure resistant T3 PTFE hoses.

Advantages of using a Heated Hose for a plastics applications are:

- Heated Hoses provide a flexible connection between a plastic extruder and mold
- Simplifies mold changes and maintenance
- Minimizes the thermal expansion and vibration that occurs from heating material
- Increases process efficiency

## GENERAL SPECIFICATIONS

**Operating Temperature.....250°C**  
**Voltage.....230V AC/DC 50/60Hz**  
**Rated Power.....**  
     **DN8 (140 W/m)**  
     **DN10 (160 W/m)**  
     **DN12 (200W/m)**  
     **DN16 (250 W/m)**  
     **DN20 (330 W/m)**  
**Pressure Hose.....T3 PTFE**  
**Fittings.....Universal standard UNF , Metric , BSP**  
**Thermal Insulation.....Silicone Foam**  
**End Cap.....Hard cap**  
**External Jacket.....Polyamide Protectice Braid**  
**Power Cable.....Standard 2 x 1.5m**  
**Temperature Sensor.....Fe-CuNi (J), PT100, NiCr-Ni (K)**  
**Temperature Limits.....+5 / -10**



BDN type fitting

DN	Inner Diameter of Fitting	BDN-M Metric	BDN	Working Pressure at 20C	Working Pressure at 250C	Burst Pressure	Bend Radius
8	6mm	16x1.5	G 3/8"	475 bar	285 bar	1900 bar	85 mm
10	7mm	18x1.5	G 1/2"	475 bar	285 bar	1900 bar	110 mm
12	10mm	22x1.5	G 1/2"	450 bar	270 bar	1800 bar	150 mm
16	12.5mm	26x1.5	3/4"	400 bar	240 bar	1600 bar	175 mm
20	16mm	26x1.5	1"	300 bar	180 bar	1200 bar	200 mm

## TEMPERATURE CORRECTION FACTOR

TEMP CORRECTION MULTIPLIER				
20C	100C	150C	200C	250C
1.00	0.95	0.9	0.83	0.6

### Example

**T3 PTFE DN 10**  
**WORKING PRESSURE 400bar at 20°C**

**Operating Temperature 200°C**

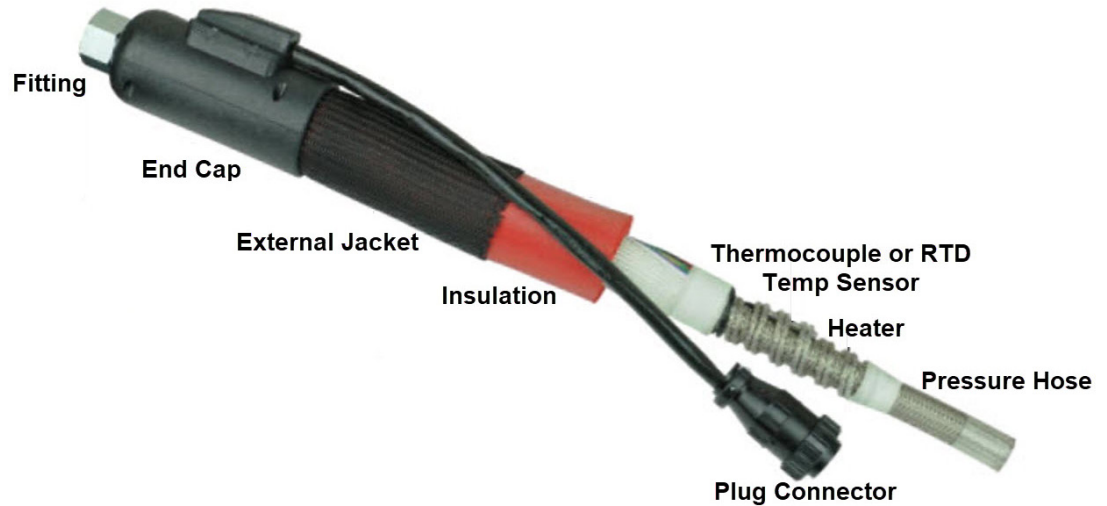
**475bar x 0.83 = 394 bar at 200°C**

## PLASTICS INDUSTRY HEATED HOSES

**\*\*WE CAN REPLACE HEATED HOSES FROM ALL MANUFACTURERS\*\***  
**Contact Us with a Part Number and we will determine our suitable replacement**

### Common Applications

- Hot Melt Systems
- Petroleum Products
- Food Products
- Hot Oil Lines
- Chemical Transfer
- Gas Analyzer Systems
- Steam Transfer
- Water & Waste Disposal
- Bulk Transfer
- Paint Systems
- Tar & Asphalt
- Waxes; Candle making
- Adhesives



### Why Use a Heated Hose:

1. The flexibility of the hose removed many alignment and machine vibration related issues.
2. Short heat-up times & uniform heat
3. Safe, economical, and long lasting

## HEATED HOSE ORDER CODE

### HOSE - (1) - (2) - (3) - (4) - (5) - (6) - (7) - (8) - (9) - (10) - (11)

<p><b>(1) Hose Style</b>                  R - Regular Pressure, Teflon                  H - High Pressure, Teflon                  X - Custom</p>	<p><b>(2) Length</b>                  In 6" increments, from 006" to 600"</p>	<p><b>(3) Hose Size</b>                  DN8                  DN10                  DN12                  DN16                  DN20-</p>	<p><b>(4) Wattage</b>                  Insert required wattage ex.120 watts</p>	<p><b>(5) Voltage</b>                  120 - 120 VAC                  240 - 240 VAC                  208 - 208 VAC                  277 - 277 VAC                  5 - Custom</p>	<p><b>(6) Electrical Connectors</b>                  1 - 120 VAC Locking Plug                  2 - 240 VAC Locking Plug                  3 - Industry Common, 9-pin Amp connector                  4 - No Connector, flying leads                  5 - Standard Straight Blade, 15A, 120VAC                  6 - Standard Straight Blade, 15A, 240 VAC</p>	<p><b>(7) Temperature Sensor</b>                  N - None                  RTD1 - RTD, 100ohm, Platinum, 2 wire, leads only,                  J1 - Thermocouple, Type J, leads only                  K1 - Thermocouple, Type K, Leads only                  RTD2 - RTD, 100ohm, plainum, 2 wire, standard plug                  J2 - Thermocouple, type J, standard plug                  K2 - Thermocouple, type K, standard plug                  RTD3 - RTD, 100ohm, platinum, 3 wire, mini plug                  X - Custom</p>	
<p><b>(8) Hydraulic Fitting - Near Electrical Connection</b>                  J - JIC 37° Female Swivel                  N - JIC 37° Female Swivel and Male NPT adapter                  OPTIONAL:                  T - Tri-Clamp</p>	<p><b>(9) Hydraulic Fitting - Opposite End</b>                  J - JIC 37° Female Swivel                  N - JIC 37° Female Swivel and Male NPT adapter                  OPTIONAL:                  T - Tri-Clamp                  P - Tubing/Pipe (compression fitting)</p>	<p><b>(10) Hydraulic Fitting Material</b>                  S - Stainless Steel                  X - Custom</p>	<p><b>(11) External Covering</b>                  H - Heavy Duty polyester braid                  OPTIONAL:                  W - Water Resistant Jacket                  X - Other</p>				

**\*\*2-3 WEEKS MANUFACTURING FOR THE FIRST ORDER, STOCK AFTER THAT\*\***  
**If you need something that is not listed, contact us! We can probably make it**