



# Material hoses

Various diameters - Flexible lengths

---

Materialschläuche

## Functional description

The conveying of the material from the barrel pumps or from a recirculation system to the dosing and application unit takes place through fixed pipe systems or flexible material hoses in different lengths and diameters. The pipe systems or material hoses are available in unheated or heated versions up to 150 °C depending on the material to be conveyed. The dosing control and service control visualizes, monitors and regulates the heating output and temperature of the heated material hoses.



## Product characteristics

- ✓ Conveying the material from the barrel pump to the dosing and application unit
- ✓ Transport of adhesives and other thermoplastic products within defined temperature range
- ✓ Any length possible, technical limitations e.g. due to pressure loss in the overall system
- ✓ Optimized conveying of the material to be processed due to possible additional heating
- ✓ System-compatible with leading manufacturers

### Hose structure (heated option)

PTFE-smooth hose  
 HEM-PTCu nickel-plated (heating cable)  
 PES needle felting (insulation)  
 PA 12 cable protection duct

### Electrical connections (heated option)

Mixed connection Harting HAN Q7  
 (supply voltage + temperature sensor)  
 Further customer specific connections possible

## DN 13

	cold	heated (100 °C)	heated (150 °C)
<b>Criteria</b>			
Inner diameter	12,20 mm	12,20 mm	12,20 mm
Outer diameter	18,80 mm	18,80 mm	18,80 mm
Mass	Depending on hose diameter and hose length		
Connections fitting	G 1/2"	G 1/2"	G 1/2"
Application on robots	Yes	Yes	Yes
Voltage	-	230 – 277 V	230 – 277 V
Frequency	-	50/60 Hz	50/60 Hz
Power	-	150 W/m	290 W/m
Electrical connection	-	HAN Q7	HAN Q7
Max. operating pressure	450 bar	427,5 bar	405 bar

## DN 16

	cold	heated (100 °C)	heated (150 °C)
<b>Criteria</b>			
Inner diameter	15,10 mm	15,10 mm	15,10 mm
Outer diameter	21,60 mm	21,60 mm	21,60 mm
Mass	Depending on hose diameter and hose length		
Connections fitting	G 3/4"	G 3/4"	G 3/4"
Application on robots	Yes	Yes	Yes
Voltage	-	230 – 277 V	230 – 277 V
Frequency	-	50/60 Hz	50/60 Hz
Power	-	200 W/m	350 W/m
Electrical connection	-	HAN Q7	HAN Q7
Max. operating pressure	400 bar	380 bar	360 bar

## DN 25

	cold	heated (100 °C)	heated (150 °C)
<b>Criteria</b>			
Inner diameter	24,20 mm	24,20 mm	24,20 mm
Outer diameter	31,70 mm	31,70 mm	31,70 mm
Mass	Depending on hose diameter and hose length		
Connections fitting	G 1.1/4"	G 1.1/4"	G 1.1/4"
Application on robots	Yes	Yes	Yes
Voltage	-	230 – 277 V	230 – 277 V
Frequency	-	50/60 Hz	50/60 Hz
Power	-	300 W/m	400 W/m
Electrical connection	-	HAN Q7	HAN Q7
Max. operating pressure	275 bar	261,5 bar	247,5 bar

## DN 32

	cold	heated (100 °C)	heated (150 °C)
<b>Criteria</b>			
Inner diameter	31,90 mm	31,90 mm	31,90 mm
Outer diameter	39,40 mm	39,40 mm	39,40 mm
Mass	Depending on hose diameter and hose length		
Connections fitting	G 1 1/4"	G 1 1/4"	G 1 1/4"
Application on robots	Yes	Yes	Yes
Voltage	-	230 – 277 V	230 – 277 V
Frequency	-	50/60 Hz	50/60 Hz
Power	-	300 W/m	400 W/m
Electrical connection	-	HAN Q7	HAN Q7
Max. operating pressure	250 bar	200 bar	175 bar