ATN

PASSION FOR
TECHNOLOGY

Material hoses

Materialschläuche

German / **English**

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Functional description

The material transport out of barrel pumps to the dosing and application unit happens via material hoses in various diameters. Depending on the material the material hose comes in unheated and heated versions up to 150 °C.
The system control monitors and visualizes the heating power and temperatures of the heating hoses.

Product characteristics

- ✓ Transport of material from the barrel pump to the dosing an application unit
- ✓ Transport of adhesives and other thermoplastic products within defined temperature paths
- ✓ Length gradation in 0.1 m increments (technically limited by pressure loss in the overall system and the heating capacity (max. 10 A))
- ✓ Optimized transportation of the material to be processed through possible additional heating
- ✓ System-compatible with leading manufacturers
- ✓ Connection threads available in imperial and, on request, metric sizes

Structure material Hose

- PTFE-smooth hose with metal coating T3
- Sealing cone connection 24° / 60° with union unit

Structure heating hose

- Mixed connection Harting HAN Q7 for voltage supply and temperature sensor (other connections individually possible)
- Temperature sensor PT 100
- PES needle felting (insulation)
- PA 12 cable protection duct
- Hose end caps made of impact-resistant plastic

DN 13

	cold	heated (100 °C)	heated (150 °C)
Inner diameter	12,20 mm	12,20 mm	12,20 mm
Outer diameter	18,80 mm	41,00 mm	41,00 mm
Connections fitting	G 1/2"	G 1/2"	G 1/2"
Application on robots	Yes	Yes	Yes
Voltage	-	230 V *	230 V *
Frequency	-	50 Hz *	50 Hz *
Power	-	150 W/m	250 W/m
Electrical connection	-	HAN Q7	HAN Q7
Max. operating pressure	450 bar	427,5 bar	405 bar
Minimal bending radius	150 mm	200 mm	200 mm

*Special solutions on request available

DN 16

	cold	heated (100 °C)	heated (150 °C)
Inner diameter	15,10 mm	15,10 mm	15,10 mm
Outer diameter	21,60 mm	50,00 mm	50,00 mm
Connections fitting	G 3/4"	G 3/4"	G 3/4"
Application on robots	Yes	Yes	Yes
Voltage	-	230 V *	230 V *
Frequency	-	50 Hz *	50 Hz *
Power	-	200 W/m	250 W/m
Electrical connection	-	HAN Q7	HAN Q7
Max. operating pressure	400 bar	380 bar	360 bar
Minimal bending radius	175 mm	225 mm	225 mm

DN 25

	cold	heated (100 °C)	heated (150 °C)
Inner diameter	24,20 mm	24,20 mm	24,20 mm
Outer diameter	31,70 mm	54,00 mm	54,00 mm
Connections fitting	G 1.1/4"	G 1.1/4"	G 1.1/4"
Application on robots	Yes	Yes	Yes
Voltage	-	230 V *	230 V *
Frequency	-	50 Hz *	50 Hz *
Power	-	200 W/m	250 W/m
Electrical connection	-	HAN Q7	HAN Q7
Max. operating pressure	275 bar	261,5 bar	247,5 bar
Minimal bending radius	240 mm	290 mm	290 mm

DN 32

	cold	heated (100 °C)	heated (150 °C)
Inner diameter	31,90 mm	31,90 mm	31,90 mm
Outer diameter	39,40 mm	79,00 mm	79,00 mm
Connections fitting	G 1.1/4"	G 1.1/4"	G 1.1/4"
Application on robots	Yes	Yes	Yes
Voltage	-	230 V *	230 V *
Frequency	-	50 Hz *	50 Hz *
Power	-	200 W/m	250 W/m
Electrical connection	-	HAN Q7	HAN Q7
Max. operating pressure	250 bar	237,5 bar	225 bar
Minimal bending radius	280 mm	330 mm	330 mm

*Special solutions on request available