



- High durability
- High temperatures
- Perfect heat distribution
- High-quality materials

The heated analytic line BAL serves to transport sample gases that have to hold at specific temperatures. It can be heated up to +200°C and is also temperature-regulated.

The analytic lines are available with different nominal width. The connecting fitting and the inner connection have the same nominal width, hence the connection is seamless. I.e. the nominal width is the same on the whole analytic lines length. The PTFE hose is braided with stainless steel and therefore suitable for raised pressure resistance. Furthermore, the heating cable is wrapped spiral shaped around the inner line by which a homogenous temperature distribution is guaranteed (compared with an in parallel pulled heating wire). The inner line is isolated with a fine pored silicone tube thermally. Both ends of the analytic line BAL5 are provided with RSL armatures from stainless steel for the connection by means of clamp ring screw connection. The analytic line BAL6 owns an exchangeable soul from PTFE-tube. The line ends are concluded by silicone caps with kink protection and strain relief.

Please contact our sales department for special applications.



Digital form at:
www.cgs-company.de/downloads/MDZ_E_D_BAL.pdf

Technical data

- **Hose type:** PTFE
- **Nominal width inner line:** 4/6 mm, 6/8 mm, 8/10 mm, 12/14 mm
- **Material:** see order numbers
- **Min. bending radius:** depends on configuration
- **Hose connection:** BAL5: 25 mm overlapping
BAL6: 50 mm overlapping
- **Temperature sensor:** Ni-CrNi, Fe-CuNi,
PT100 (3-conductor)
- **Operating temperature:** +200°C
- **Power voltage:** 230 V / 50 Hz ; 110 V ; 400 V
- **Connection cable:** 1 m
- **Protection class** IP54 (Corrugated metal hose IP40)
- **Pressure** max. 16 bar

Accessories

- Intercept tray
- Heated wall duct
- Connecting cable in different length
- Temperature controller
- Insulation jacket
- Adapter cable for BAL; Length 45 cm; Type: A-P

Order numbers

• Standard

	BAL- 5 B 2 0 0	- A A A D 1	- A A B 1 0
	BAL- 2 0 0	-	- 0
Inner line			
PTFE mit VA-braid and on both sides RSL nozzle	5		
PTFE exchangeable	6		
Nominal width Inner line			
4/6 mm	A		
6/8 mm	B		
8/10 mm	C		
12/14 mm	D		
Operating temperature in °C			
max. 200°C			
Outer sheath			
Nylonmesh		A	
Steelmash, galvanised		B	
Stainless steel mesh		C	
PA-corrugated hose		D	
Silicone outer sheath		E	
Corrugated metal hose steel galvanised		F	
Heating tape type			
Standard		A	
Self-limiting		C	
Electrical connection			
230 V		A	
400 V		B	
110 V		C	
Temperature sensor			
without		A	
PT100 3 conductor		B	
Thermocouple Typ J (Fe-CuNi)		C	
Thermocouple Typ K (Ni-CrNi) Standard		D	
Sensor quantities			
1		1	
2		2	
Electrical connection/pin assignment			
no pin			Z
CGS Standard (Typ A) (Amphenol 7 pol)			A
Typ B - Typ R (B-R) customized			B-R
Special version automotive			
without			A
Thermal cutoff +240°C			B
External diameter			
External diameter DA 50 mm			A
Outer sheath reduction to DA 42 mm Standard			B
Outer sheath reduction to DA 34 mm			C
Connecting cable exit			
sideways and rearwards			1
vertical			2