MBPlastics

PTFE lined Dip Pipes - Datasheet

To ensure the safe and efficient introduction of liquids or gases into columns and vessels, our PTFE-lined dip pipes offer the ultimate solution. Thanks to their universal chemical resistance, they serve as a highly durable alternative to other materials. Beyond our extensive standard range, we specialize in custom configurations designed to meet your specific process requirements.

Technical Construction

MB Plastics dip pipes consist of a robust steel core, fully encapsulated both internally and externally with high-performance **MB Plastics PTFE**.

- **Wall Thickness:** The PTFE lining features a minimum thickness of 3 mm for maximum protection.
- **Production Quality:** We utilize paste-extruded PTFE, which guarantees superior density and optimal permeation resistance.
- **Antistatic Variant:** For hazardous areas, we offer an antistatic version with a leakage resistance of $\leq 10^8$ and a surface resistance of $\leq 10^9$.

Safety and ventilation

At the upper end of the pipe (located outside the reaction zone), a vent hole is integrated to safely discharge any diffusing media. Upon request, this can be customized as a dedicated ventilation or vacuum connection.

Operational Limits

Our PTFE-lined dip pipes are engineered for demanding environments:

- **Temperature Range:** Standard operation from -10 °C up to +200 °C. These limits can often be extended or adjusted for specific individual cases—please consult us for details.
- **Vacuum Performance:** Up to DN 100, the pipes are fully vacuum-rated down to -1 bar. For larger diameters, vacuum stability depends on the operating temperature; we are happy to provide technical guidance for your specific setup

Materials

Pipes:	P235GH, API 5L Gr.B, A106 Gr.B
Flanges:	P250GH, P265GH, A105/C21
Lining:	PTFE (virginal, paste extruded PTFE) DIN 2874 and GKV-Guideline from 1993.

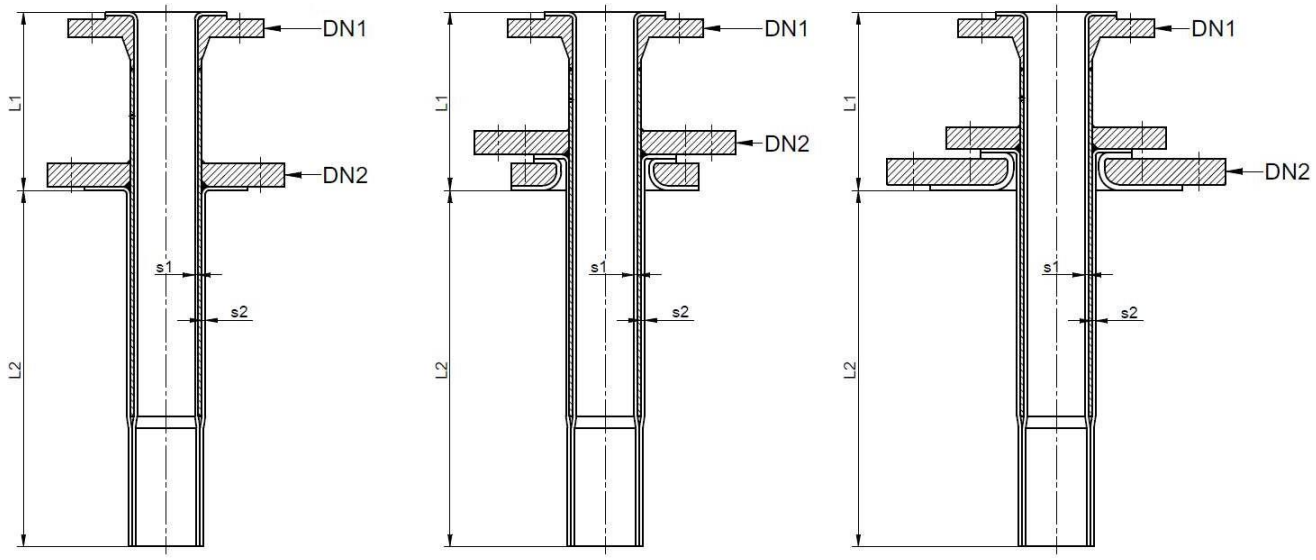
For manufacturing reasons (size ratio of pipe flange to vessel flange), immersion and inlet pipes are produced in types A, B or C.

Additionally available as alternatives:

- Other or larger nominal widths (DN1) and immersion lengths (L2)
- Other materials (e.g. stainless steel)
- Special constructions
- Antistatic PTFE lining

Please ask us, stating the operating conditions.

Not suitable for use in mixing vessels!



Typ / type A | Typ / type B | Typ / type C

DIN EN 1092-1 PN10 / ASME B 16.5 150 lbs

DN 1		L1	L2	L2		PTFE
DIN (mm)	ASME (inch)	Standard (mm)	Min (mm)	Max (mm)	S1 (mm)	S2 (mm)
25	1”	150	200	6000	3	3
32	1 ¼”	150	200	6000	3	3
40	1 ½”	150	200	6000	3	3
50	2”	150	200	6000	3	3,5
65	2 ½“	150	250	6000	3,5	3,5
80	3“	150	250	6000	3,5	4,5
100	4“	150	300	6000	4,5	4,5
125	5”	150	300	6000	5	5
150	6”	150	300	6000	5	4,5
200	8”	200	400	3500	5	4,5
250	10”	200	400	3500	5	5,5

Subject to technical modifications.