

Pressure hoses

out of PTFE, PA or stainless steel



The pressure hoses from KLETTI are the basis of our heated hoses. In addition, they can be used in many other areas as cold hoses - without heating. The hoses are resistant to chemicals such as acids and alkalis in any concentration. Exceptions are molten alkali metals and fluorine compounds.

The hose basically consists of an inner core made of PTFE, PA or stainless steel, the steel braid and fittings on both sides. The even wall thickness of the inner core has a significant influence on the lifespan of the pressure hose. Depending on the compressive stress, the core is wrapped with one or more layers of steel wire, wound, or built up in combination. The fittings are positively pressed with the pressure hose so that the hose can withstand the desired compressive stresses.

PLEASE NOTE:

The maximum operating pressure depends on the operating temperature and the nominal size. Empirically determined temperature correction factors allow us to specify the maximum pressure at different temperatures.

The total pressure of the hose is always dependent on the weakest link of the assembly. The following data in the pressure tables refer exclusively to the pressure hoses (without fitting). In doubt, the maximum permissible pressure of the fitting must be compared with that of the pressure hose.

The material of the inner core limits the maximum permissible operating temperature. Our PA hoses can be used up to a maximum operating temperature of + 100°C, the PTFE hoses up to + 250°C and the corrugated stainless-steel hoses even up to a maximum operating temperature of + 550°C.

We can provide FDA approval for our PTFE hoses in conjunction with stainless steel fittings, which is available on request.

PTFE smooth hose

Type T1-PTFE

Smooth PTFE hose with **one** braided layer of steel wire, max. operating temperature 250 °C

Temperature - pressure Nominal width	20 – 50 °C [bar]	100 °C [bar]	200 °C [bar]	250 °C [bar]	Burst pressure [bar]	Min. bending radius
DN 4	275	245	220	165	1100	50 mm
DN 6	240	215	190	140	960	75 mm
DN 8	200	180	160	120	800	100 mm
DN 10	175	155	140	105	700	120 mm
DN 13	150	135	120	90	600	135 mm
DN 16	135	120	105	80	540	160 mm
DN 20	100	90	80	60	400	200 mm
DN 25	80	70	60	45	320	250 mm

PTFE smooth hose

Type T2-PTFE

Smooth PTFE hose with **two** braided layers of steel wire, max. operating temperature 250 °C

Temperature - pressure Nominal width	20 – 50 °C [bar]	100 °C [bar]	200 °C [bar]	250 °C [bar]	Burst pressure [bar]	Min. bending radius
DN 6	275	245	220	165	1100	75 mm
DN 8	250	225	200	150	1000	100 mm
DN 10	225	200	180	135	900	120 mm
DN 13	200	180	160	120	800	135 mm
DN 16	175	155	140	105	700	160 mm
DN 20	150	135	120	90	600	200 mm
DN 25	130	115	100	75	520	250 mm
DN 32	70	60	55	40	280	500 mm
DN 40	50	45	40	30	200	850 mm

Type T3-PTFE

Smooth PTFE hose with **two** spiralized winding and **one** braided layer of steel wire, max. operating temperature 250 °C

Temperature - pressure Nominal width	20 – 50 °C [bar]	100 °C [bar]	200 °C [bar]	250 °C [bar]	Burst pressure [bar]	Min. bending radius
DN 6	500	450	400	300	1800	75 mm
DN 8	475	425	380	285	1600	100 mm
DN 10	450	405	360	270	1500	120 mm
DN 13	400	360	320	240	1500	135 mm
DN 16	400	360	320	240	1300	160 mm
DN 20	300	270	240	180	1200	200 mm
DN 25	275	245	220	165	1100	240 mm
DN 32	250	225	200	150	1000	280 mm
DN 38	200	190	166	-	800	320 mm

PA pressure hoses

Type T3-PA12

Smooth PA12 hose with two spiralized winding and one braided layer of steel wire, without cover (working temperature range -30 °C to +100 °C)

Nominal width \ Temperature - pressure	100 °C [bar]	Burst pressure [bar]	Min. bending radius
DN 16	400	1600	180 mm
DN 20	300	1200	200 mm
DN 25	275	1100	250 mm

Type NY500

Two layers aramid fibre and one braided layer of steel wire, cover made of Polyurethan, (working temperature range -40 °C to +100 °C)

Nominal width \ Temperature - pressure	100 °C [bar]	Burst pressure [bar]	Min. bending radius
DN 6	700	2800	35 mm
DN 8	700	2800	60 mm
DN 10	700	2800	90 mm
DN 13	590	2360	100 mm
DN 16	500	2000	160 mm
DN 20	450	1800	180 mm
DN 25	315	1260	250 mm

PTFE corrugated hose

PTFE corrugated hose with one braided layer of steel wire, suitable for small bending radii and dynamic movements (working temperature range -55 °C to +250 °C), approvals for DNV-GL, BV, LR, ABS, RINA, FDA, EG 1935/2004 and EU 10/2011

Nominal width \ Temperature - pressure	20 – 50 °C [bar]	100 °C [bar]	200 °C [bar]	250 °C [bar]	Burst pressure [bar]	Min. bending radius
DN 10	125	116	106	100	500	50 mm
DN 13	105	97	89	84	420	65 mm
DN 16	100	93	85	80	400	80 mm
DN 20	90	83	76	72	360	100 mm
DN 25	80	74	68	64	320	125 mm
DN 32	64	59	54	51	256	150 mm
DN 40	53	49	45	42	212	200 mm
DN 50	35	32	29	28	140	250 mm

Stainless steel corrugated hose

Type EWS-KBA

Stainless steel corrugated hose with one braided layer of steel wire, suitable for **various applications** (working temperature range -220 °C to +550 °C (applies only for the hose)), according to DIN EN ISO 10380

Temperature - pressure Nominal width	20 – 50 °C [bar]	100 °C [bar]	200 °C [bar]	250 °C [bar]	300 °C [bar]	400 °C [bar]	Min. bending radius
DN 6	100	73	61	58	53	50	80 mm
DN 8	100	73	61	58	53	50	125 mm
DN 10	100	73	61	58	53	50	129 mm
DN 13	65	47	40	37	34	32	140 mm
DN 16	64	47	39	37	34	32	160 mm
DN 20	43	31	26	25	23	21	170 mm
DN 25	49	36	30	28	26	24	180 mm
DN 32	35	25	21	20	18	17	260 mm
DN 40	38	28	23	22	20	19	300 mm
DN 50	25	18	15	14	13	12	320 mm

Type EWS-FBA

Stainless steel corrugated hose with one braided layer of steel wire, due to its particularly wide corrugation, very well suited for use in the **food, chemical or pharmaceutical industries** (working temperature range -220 °C to +550 °C (applies only for the hose)), according to DIN EN ISO 10380 and approval for water according to DVGW W 543 up to DN 32

Temperature - pressure Nominal width	20 – 50 °C [bar]	100 °C [bar]	200 °C [bar]	250 °C [bar]	300 °C [bar]	400 °C [bar]	Min. bending radius
DN 6	140	103	86	81	75	70	110 mm
DN 8	115	84	71	66	61	57	130 mm
DN 10	100	73	61	58	53	50	150 mm
DN 13	80	58	49	46	42	40	165 mm
DN 16	63	46	38	36	33	31	195 mm
DN 20	50	36	30	29	26	25	225 mm
DN 25	40	29	24	23	21	20	260 mm
DN 32	40	29	24	23	21	20	300 mm
DN 40	32	23	19	18	17	16	340 mm
DN 50	32	23	19	18	17	16	390 mm
DN 65	25	18	15	14	13	12	460 mm
DN 80	23	16	14	13	12	11	660 mm
DN 100	15	11	9,2	8,7	8	7,5	750 mm
DN 125	13	9,5	8	7,5	6,9	6,5	1000 mm
DN 150	11	8,1	6,8	6,4	5,9	5,5	1250 mm

Type EWS-ICA

Stainless steel corrugated hose with one braided layer of steel wire, well-suited for use in **analytical technology** (working temperature range -200 °C to +550 °C (applies only for the hose)), according to DIN 3384 and approval for all gases according to DVGW-worksheet G260

Temperature - pressure Nominal width	20 – 50 °C [bar]	100 °C [bar]	200 °C [bar]	250 °C [bar]	300 °C [bar]	400 °C [bar]	Min. bending radius
DN 10	75	62	55	53	50	46	190 mm
DN 13	70	58	52	49	46	43	210 mm
DN 16	65	54	48	46	43	40	285 mm
DN 20	50	41	37	35	33	31	310 mm
DN 25	40	33	29	28	26	24	375 mm
DN 32	35	29	26	24	23	21	405 mm
DN 40	30	24	22	21	20	18	480 mm

Type ABB-S / DCB-S

Stainless steel corrugated hose with two braided layers of steel wire, well suited for **high pressure applications** (working temperature range - 200 °C to +550 °C (applies only for the hose)), according to DIN EN ISO 10380

Temperature - pressure Nominal width	20 – 50 °C [bar]	100 °C [bar]	200 °C [bar]	250 °C [bar]	300 °C [bar]	400 °C [bar]	Min. bending radius
DN 6	250	184	154	145	134	125	110 mm
DN 8	250	184	154	145	134	125	130 mm
DN 10	225	165	139	130	120	112	150 mm
DN 13	200	147	123	116	107	100	165 mm
DN 16	200	147	123	116	107	100	195 mm
DN 20	120	99	89	55	52	49	640 mm
DN 25	100	83	74	46	44	41	710 mm
DN 32	90	74	66	41	39	36	790 mm
DN 40	80	66	59	36	34	32	900 mm
DN 50	65	54	48	30	28	26	1000 mm
DN 65	50	41	37	23	22	20	1100 mm
DN 80	40	33	29	18	17	16	1380 mm
DN 100	32	26	23	14,7	14	13	1500 mm
DN 125	25	20	18	11,2	10,6	9,9	1800 mm
DN 150	20	16	14	9,1	8,6	8,1	2300 mm

Further information and suitable accessories can be found on our website: www.kletti-gmbh.com.

Do you have any questions or need an offer?

Contact us: sales@kletti-gmbh.com