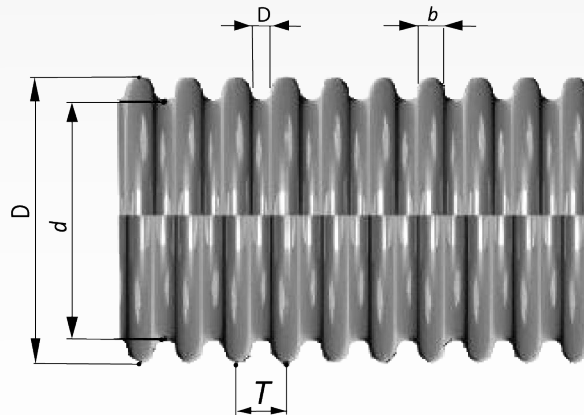


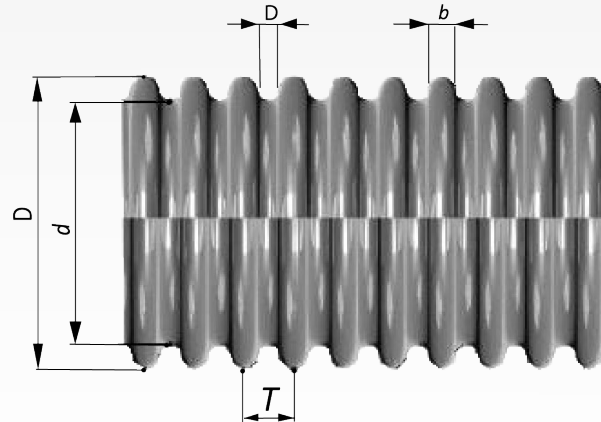
TECHNICAL DATA SHEET

CLOSE PITCH (type 1)



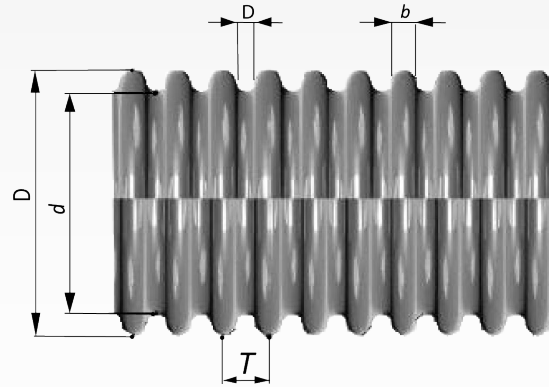
Type of metal hose	Diameters		Technical data					Bending radius		Working pressure 20 °C	Nominal pressure in accordance with DIN EN ISO 10380	Weight	Surface area	Liquid volume
	d	D	Wall thickness	Corrugation pitch		a	b	Rmin	Rnom			±10%	S ±5%	V ±5%
	inner diameter	outer diameter		corrugations per 1 m	T ±0,2			Static	Dynamic					
	mm	mm		quantity	mm			mm	mm			mm		
01.0	12,1±0,2	17,1±0,2	0,15	464	2,15	0,9	1,25	35	110	7	6	0,160	0,1264	0,1642
01.1	12,1±0,2	17,8±0,2	0,15	464	2,15	0,9	1,25	45	140	40	40	0,285	0,1264	0,1642

STANDARD PITCH (type 2)



Type of metal hose	Diameters		Wall thickness	Corrugation pitch		a	b	Bending radius		Working pressure 20 °C	Nominal pressure in accordance with DIN EN ISO 10380	Weight ±10%	Surface area S ±5%	Liquid volume V ±5%
	d	D		corrugations per 1 m	T ±0,2			Rmin	Rnom					
	inner diameter	outer diameter						Static	Dynamic					
	mm	mm		mm	mm			mm	mm					
02.0.DN12	12,2±0,2	16,7±0,2	0,15	313	3,20	1,40	1,80	24	140	8	6	0,110	0,0857	0,161
02.1.DN12	12,2±0,2	17,7±0,2	0,15	313	3,20	1,40	1,80	45	140	95	63	0,235	0,0857	0,161
02.0.DN16	16,3±0,2	21,8±0,2	0,18	274	3,65	1,55	2,10	28	160	8	6	0,169	0,119	0,281
02.1.DN16	16,3±0,2	22,8±0,2	0,18	274	3,65	1,55	2,10	58	160	90	63	0,302	0,119	0,281
02.0.DN20	20,1±0,3	26,4±0,3	0,18	266	3,75	1,55	2,20	36	170	4	2,5	0,228	0,156	0,421
02.1.DN20	20,1±0,3	27,6±0,3	0,18	266	3,75	1,55	2,20	70	170	70	63	0,475	0,156	0,421
02.0.DN25	25,6±0,3	32,3±0,3	0,20	263	3,80	1,70	2,10	46	190	2,7	2,5	0,320	0,203	0,644
02.1.DN25	25,6±0,3	33,5±0,3	0,20	263	3,80	1,70	2,10	85	190	60	50	0,630	0,203	0,644
02.0.DN32	34,0±0,5	41,2±0,5	0,22	189	5,30	2,80	2,50	54		3	2,5	0,399	0,2180	1,080

OPEN PITCH (type 3)



Type of metal hose	Diameters		Wall thickness	Corrugation pitch		a	b	Bending radius	Working pressure 20 °C	Nominal pressure in accordance with DIN EN ISO 10380	Weight	Surface area	Liquid volume
	d	D		corrugations per 1 m	T ±0,2			Rmin			±10%	S ±5%	V ±5%
	inner diameter	outer diameter						Static					
	mm	mm						mm			bar		
03.0.DN8	8,2±0,2	11,8±0,2	0,15	321	3,10	1,30	1,80	16	16	16	0,062	0,0516	0,0773
03.0.DN12	12,3±0,3	16,5±0,3	0,15	238	4,20	1,80	2,40	18	16	16	0,082	0,0673	0,1613
03.0.DN16	16,6±0,3	21,4±0,3	0,18	204	4,90	2,00	2,90	25	16	16	0,140	0,0881	0,2799
03.0.DN20	20,6±0,3	26,1±0,3	0,18	192	5,30	2,20	3,10	30	10	10	0,176	0,1120	0,4281
03.0.DN25	26,1±0,4	31,6±0,4	0,20	177	5,70	2,40	3,30	35	8	6	0,230	0,1350	0,6525
03.0.DN25	25,5±0,4	31,7±0,4	0,30	183	5,45	2,15	3,30	40	12	10	0,338	0,1420	0,6280
03.0.DN32	34,1±0,5	40,4±0,5	0,22	175	5,70	2,00	3,70	45	4	2,5	0,349	0,1850	1,1200
03.0.DN32	33,5±0,5	40,2±0,5	0,30	155	6,45	2,15	4,30	47	10	10	0,439	0,1675	1,0700

Decreasing of working pressure

$P_{work} = P_{work \text{ at } 20^{\circ}\text{C}} \cdot k_t \cdot k_{dyn}$

P_{work} – operating pressure at 20°C, bar;
 k_t – temperature coefficient;
 k_{dyn} – dynamic load factor coefficient.

k_t – temperature coefficient												
Material	Temperature, °C											
	-290	50	100	150	200	250	300	350	400	450	500	550
AISI 304	1	0,88	0,73	0,66	0,6	0,56	0,52	0,5	0,48	0,47	0,46	0,42
AISI 304L	1	0,87	0,72	0,65	0,59	0,55	0,51	0,48	0,46	0,45	0,44	0,43
AISI 316L	1	0,88	0,74	0,67	0,61	0,57	0,54	0,52	0,5	0,48	0,47	0,47

k_{dyn} – dynamic load factor coefficient				
Flow type	Loads			
	No vibrations, slow movements		Presence of vibrations, frequent movements	Strong vibration, rhythmic movements
Static, laminar flow	1,00		0,80	0,40
Pulsating, turbulent flow	0,80		0,63	0,32
variable, rhythmically moving flow	0,32		0,20	

Chemical Compatibility Chart			
Ethylene Glycol CH ₂ -CH ₂	Not Recommended		
Propylene Glycol C ₃ H ₈ O ₂	Recommended		
Magnesium Chloride MnCl ₂ (Bisofit) and all Cl-content Liquids	Not Recommended		