

PTFE hose - type PTS

DN 4 - DN 100



Type PTS-1
with threaded connection



Type PTS-2
with fixed flange

Structure type PTS

- Hose with integrated connection fittings
- Fittings connected by VA pressed sleeves
- Connection fittings with flange, alternatively with PTFE flared end
- Male and/or female threads, or couplings
- Inner hose of PTFE
- Three hose versions:
 - Type PTS-0: smooth inner hose unbraided
 - Type PTS-1: convoluted inner hose unbraided
 - Type PTS-2: hose with single steel wire braid

Hose

Material quality**	Trade names	Temperature*	Properties
PTFE Polytetrafluoroethylene	Teflon Hostaflon	-200°C to +180°C	Excellent chemical properties, resistant to solvents, weather- and ozone-resistant, oil-proof, gas-tight, food-resistant

*Check or inquire about the reduction in pressure due to temperature change

**Check or inquire about the resistance of the material to temperature and medium

Braid

Material quality	Material No. according to DIN EN	Abbreviation according to DIN EN (DIN)
stainless steel	1.4301	X5CrNi18-10

Threaded connections

Dimensions

- Female and male thread, in accordance with ISO 7-1, conical thread (pressure-tight joints made on the threads)
- Female and male thread, in accordance with ISO 228-1, cylindrical thread (pressure-tight joints not made on the threads)
- Dairy screwed union DIN 11851

Materials

- Threaded connections of stainless steel or PP
- Other materials available on request

Flange connections

Dimensions

- Fixed flanges, in accordance with DIN 2632 (PN 10) or DIN 2633 (PN 16)
- Rotating flanges with rim, in accordance with DIN 2673 (PN 10)

Materials

- Flanges made of stainless steel
- Other materials and flange connections on request

Applications

- for absorbing lateral movement and lifting movement
- as universal elastic connection for all fields of industry
- for handling aggressive media
- suitable for almost unlimited use for
 - chemicals
 - acids
 - solvents
 - fats
 - oils
 - synthetic hydraulic fluids, etc.
- outstanding hygienic properties
- suitable for food products

Special versions

Various application-related special versions with wear protection, fire protection, buckling protection or cleaning coating on request.

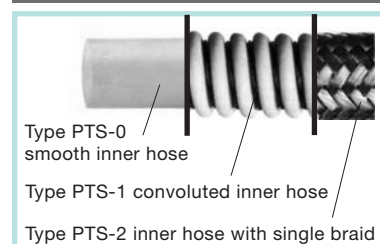
Quick couplings

- Type Camlock
- Type Triclam ISO 2852, DIN 32676

Materials

- Standard 1.4401 with or without PTFE lining
- Other materials on request

Versions



Type PTS-0
smooth inner hose

Type PTS-1 convoluted inner hose

Type PTS-2 inner hose with single braid

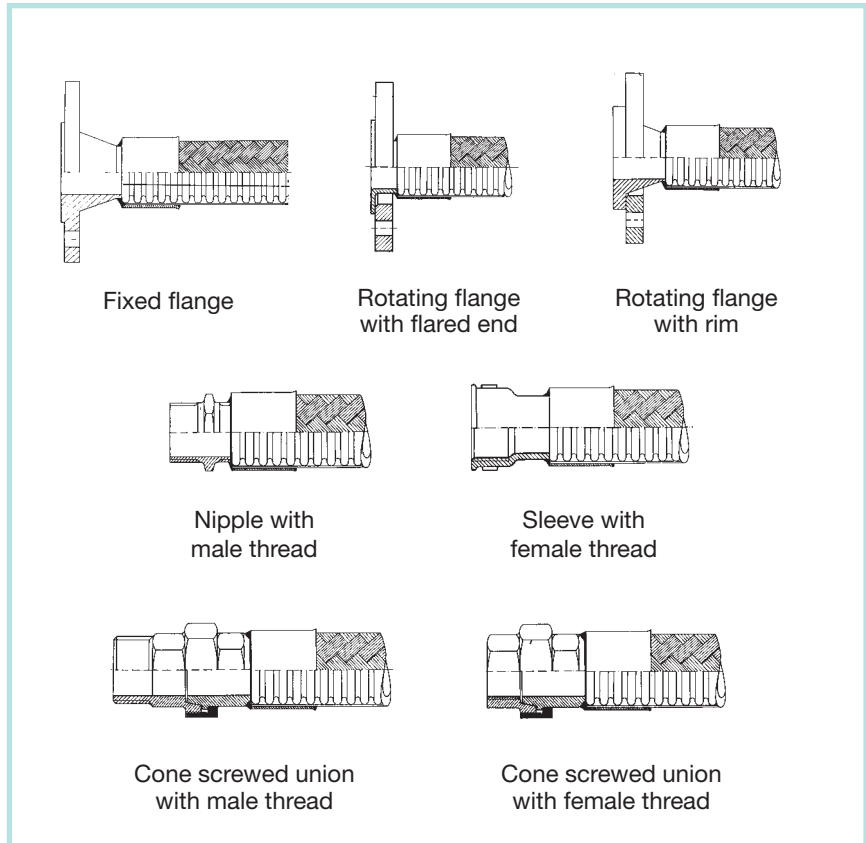
Hose pressure ratings

DN	Tol. operating pressure at +20°C (bar)		
	PTS-0	PTS-1	PTS-2
4	20,0	8,0	275
6	15,0	7,5	240
8	12,0	7,0	200
10	10,0	6,0	175
12	9,0	4,0	150
15	7,5	3,6	135
20	5,0	3,0	100
25	2,5	2,4	80
32	2,0	1,8	60
40	1,5	1,5	40
50	1,5	1,2	25
65	1,0	0,9	18
80	1,0	0,7	14
100	0,8	0,6	10

Note

Please comply with the technical instructions in the general description of the hoses and in the installation and operating instructions. Subject to technical alterations and deviations resulting from the manufacturing process.

Connection types



Hose dimensions/bend radius

DN	Type PTS-0			Type PTS-1			Type PTS-2		
	Outer ø approx. mm	Bend radius		Outer ø approx. mm	Bend radius		Outer ø approx. mm	Bend radius	
		Single	Dynamic*		Single	Dynamic*		Single	Dynamic*
4	6	10	14	6	12	17	8,5	50	70
6	8	13	18	8	15	21	10,0	75	103
8	10	16	22	10	17	24	12,0	100	140
10	12	17	24	19	19	26	15,0	120	165
13	15	25	25	21	25	35	17,5	135	185
15	17	35	48	23	35	48	20,0	165	230
20	22	40	55	28	45	62	28,0	180	250
25	27	50	69	34	60	83	34,0	225	310
32	34	60	83	41	75	103	44,0	275	375
40	42	80	110	53	95	130	47,0	320	440
50	52	100	137	62	120	165	55,0	370	510
65	68	120	165	77	150	206	72,0	410	560
80	83	150	206	97	200	274	88,0	490	670
100	103	200	274	115	250	343	126,0	630	860

Refers to use at 20°C without dynamic load