

DESCRIPTION: CSST pliable corrugated stainless steel tubes type 3 annular conform to EN ISO 10380 for the supply of fluids under pressure suitable also for drinking water.

APPLICATION FIELDS: hydro-thermo-sanitary plants for the supply of cold and hot water, supply of fluids in industrial plants ⁽¹⁾ and connection of stationary appliances ⁽²⁾;

- nominal pressure (20°C): PN 16;
- maximum working pressure: 16 bar (1,6 MPa) ⁽³⁾;
- maximum working temperature: 550°C ⁽³⁾;
- minimum working temperature: -200°C ⁽³⁾;

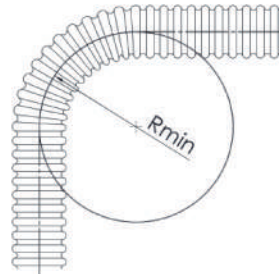
MATERIAL: austenitic stainless steel conform to EN 10028-7 type 1.4301 - X5CrNi18-10 (AISI 304) or type 1.4404 - X2CrNiMo17-12-2 (AISI 316L) with solution annealing treatment.

CERTIFICATIONS

- The quality management system of PSP S.r.l. is certified as conform to EN ISO 9001 : 2015 (Bureau Veritas certificate nr. IT261693);
- The "AQUARIUS" CSST pliable corrugated tubes by PSP S.r.l. are certified as conform to EN ISO 10380 : 2012 (Bureau Veritas certificate nr. 900/001).

METHODS OF USE

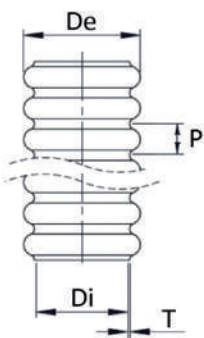
- Keep the tubes in their original packaging, in a dry place and sheltered from corrosive substances.
- Before their use, verify the integrity of the tubes.
- Do not pull or twist the tubes.
- It is possible to bend by hand the tubes complying with the following minimum bending radii:



Nominal dimension	Minimum bending radius Rmin [mm]
DN 10	20
DN 12/DN 12X	25
DN 15	25
DN 20	30
DN 25	45

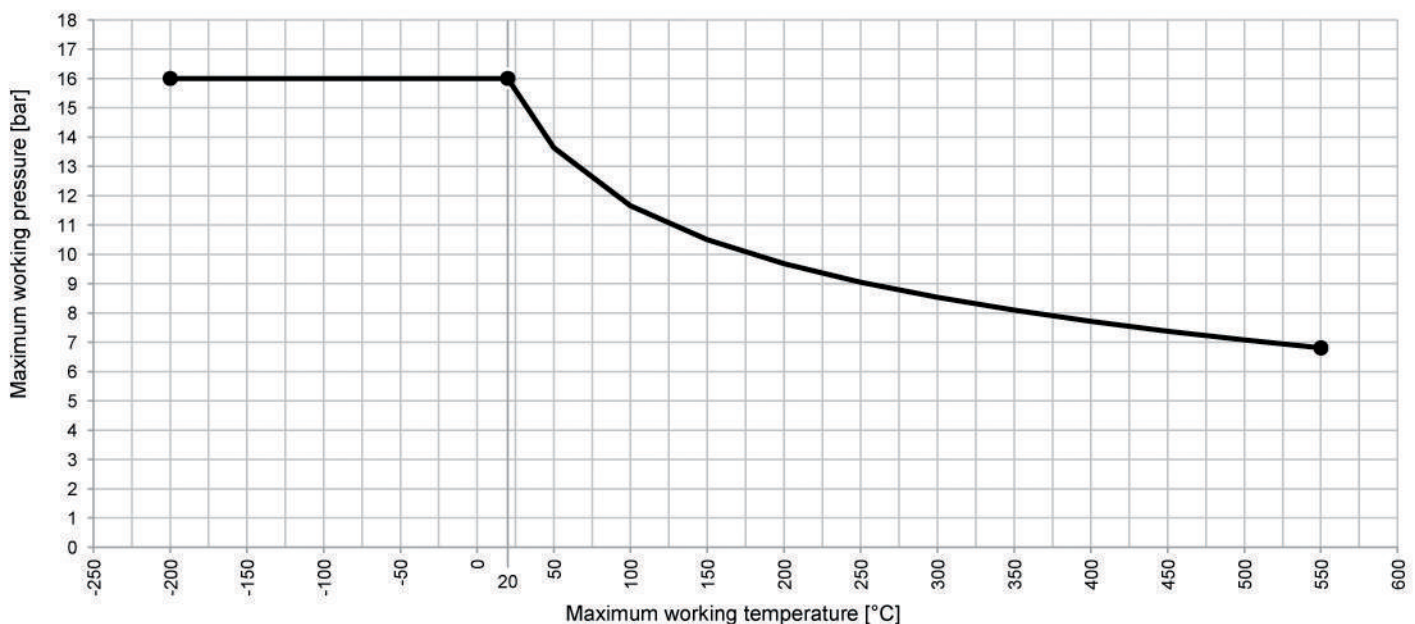
- Do not submit the tubes to repeated bending.
- For the fastening of the tubes, use clamps with rubber. It is recommended to place a clamp every 2 / 3 meters.

DIMENSIONS



Nominal dimension	DN 10	DN 12	DN 12X	DN 15	DN 20	DN 25
Connection thread	3/8"	1/2"	1/2"	3/4"	1"	1 1/4"
Thickness T [mm]	0,25	0,3	0,3	0,3	0,3	0,3
Internal diameter Di [mm]	9,3	12,0	13,2	15,8	19,7	26,5
External diameter De [mm]	12,2	15,8	16,8	20,0	25,0	33,0
Pitch P [mm]	4,0	5,0	5,1	5,5	6,4	7,1
Internal lineic surface [m ² /m]	0,041	0,054	0,057	0,070	0,091	0,131
External lineic surface [m ² /m]	0,043	0,057	0,059	0,073	0,094	0,135
Lineic volume [l/m]	0,09	0,15	0,17	0,25	0,38	0,70

WORKING PRESSURE / TEMPERATURE ⁽³⁾



1) Verify the chemical compatibility of all the components of the tubing system (tubes, fittings, sealing elements and so on).
 2) The "AQUARIUS" by PSP S.r.l. pliable corrugated tubes are not suitable for the connection of moving appliances and/or parts in relative motion each other: for these purposes use only suitable flexible hoses by PSP S.r.l.
 3) Values valid for tubes without external coating with nominal dimensions from DN 10 to DN 25 included; for the maximum working temperature and pressure take into consideration all the components of the tubing system (tubes, fittings, sealing elements and so on).