

RELY ON EXCELLENCE

DX3S DanOne metal expansion joints

Expansion Joints | Metal expansion joints



Features

- Untied metal expansion joints mainly for district heating.
- External sealable shroud.
- Can be installed in series.
- One cycle / startup type expansion joint, for ease of installation.
- Designed for large axial movements.

Notes

Custom designs and sizes are available on request. Untied metal expansion joints require guide and support. DX3S type expansion joints are used to ease installation by facilitating movement during the first startup. Once in operation, the expansion joint is fix (seal) welded.

Advantages

- No significant pressure drop - reduced need for pumps and general power consumption for moving media, compared to pipe loops.
- Less supporting structure or excavation required - Compared to pipe loops.
- Lower erosion rate (for abrasive media lines - compared to pipe loops with elbows).
- Multiply bellows with low spring rate and high cycle life.

Operating range

Diameter: DN 40 ... DN 600 (1.75" ... 24")

Temperature: ... 120 °C (248 °F)

Pressure: 16 barg (232 PSIG), 25 barg (362 PSIG)

Materials

- Bellows: 1.4541 (AISI 321)
- Connections: 1.0345 - (P235GH)

Other materials are available on request.

Standards and approvals

Design code:

EJMA, (4-5) Cycles

NDT and documentation:

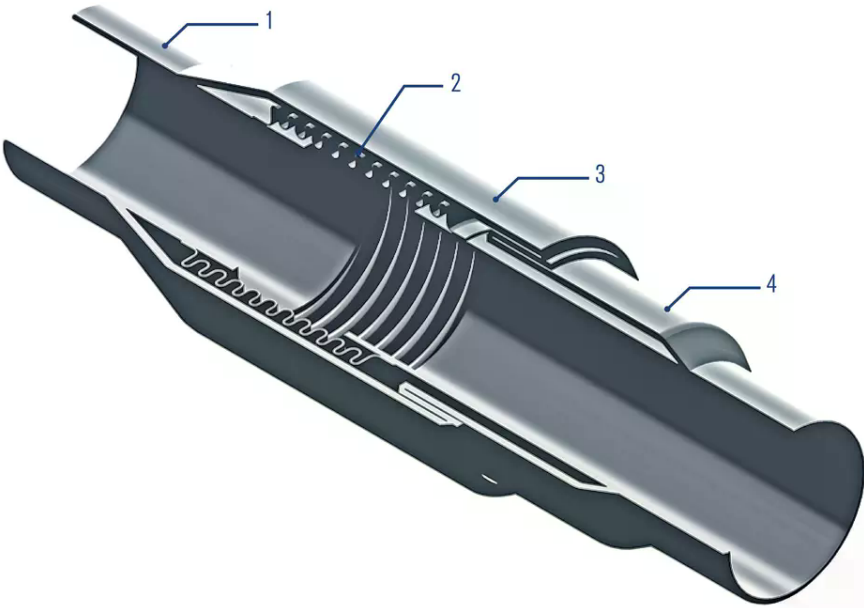
Can be provided per customer request e.g., material certificates and NDT test reports.

Recommended applications

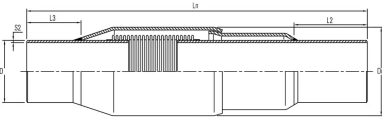
- Building services industry
- District heating & cooling
- Water cooling systems
- Air and steam transport lines

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Item	Description
1	Media/ line pipe
2	Bellows
3	Outer casing / shroud
4	Inner casing / shroud



Installation, details, options



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Product variants

PN 16 Technical data

Item no.	Axialmovement	LN(mm)	D(mm)	S2(mm)	L2(mm)	L3(mm)	Du(mm)	Sam.pres raft N	Effectivearea AB	Weight(kg)
DX3S.40.16.50	50	450	48.3	2.6	100	80	76.1	1600	2910	3
DX3S.50.16.50	50	450	60.3	2.9	100	80	88.9	1700	4180	4
DX3S.65.16.70	70	500	76.1	2.9	105	80	108.0	3000	6160	5
DX3S.80.16.70	70	500	88.9	3.2	105	80	121.0	2300	8110	7
DX3S.100.16.80	80	550	114.3	3.2	100	80	159.0	2800	12690	11
DX3S.125.16.80	80	550	139.7	3.6	100	80	177.8	3600	18030	14
DX3S.150.16.100	100	630	168.3	3.6	90	80	205.0	4800	25510	22
DX3S.175.16.100	100	630	193.7	4.0	90	80	235.0	5700	33200	27
DX3S.200.16.120	120	700	219.1	4.5	105	80	267.0	6700	44460	36
DX3S.250.16.120	120	700	237.0	5.0	100	80	323.9	8900	67020	46
DX3S.300.16.140	140	730	323.9	5.6	110	80	373.0	10800	92410	62
DX3S.350.16.140	140	730	355.6	5.6	110	80	406.4	12000	110450	70
DX3S.400.16.140	140	730	406.4	6.3	110	80	457.2	14000	142400	88
DX3S.450.16.150	150	800	457.2	6.3	110	80	519.0	16100	178410	121
DX3S.500.16.150	150	800	508.0	6.3	110	80	568.0	18200	218460	131
DX3S.600.16.150	150	800	609.6	8.0	110	80	671.0	21800	310740	174