

Valve accessories

Model 58881

Expansion joint with 304 stainless steel or galvanised (zinc-coated) steel flanges and EPDM bellows



Specifications

Dimensions: DN32 to DN200 (1"1/4 to 8")

Connection: flanges in accordance with
EN 1092-1

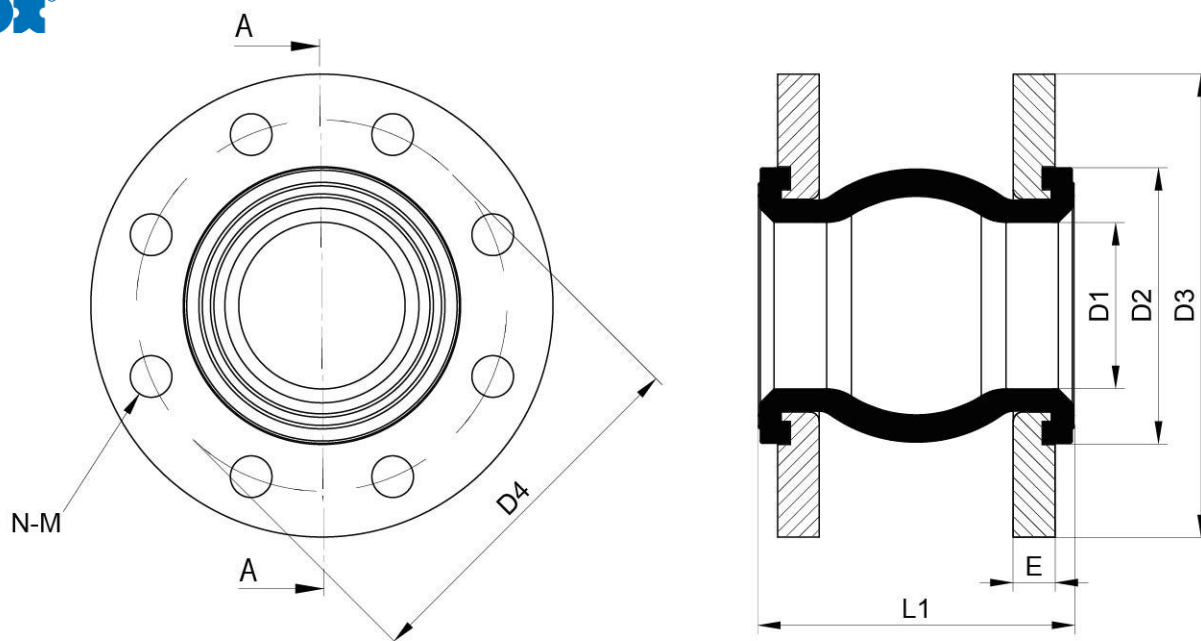
Max. pressure: see page 2

Temperature: -10°C to +90°C

Material: EPDM

(for the parts that can come into contact with
the transported fluid)

304 stainless steel or galvanised (zinc-coated)
steel flanges



A-A cross section

DN (mm)	NB (inches)	Material	Max. Pressure	PN flange	D1 (mm)	D2 (mm)	D3 (mm)	D4 (mm)	L1 (mm)	E (mm)	M (mm)	N (Qty)	Part number
32	1"1/4	SS* 304	16	PN10/40	37	76	140	100	100	16	18	4	258881-32
40	1"1/2	SS 304	16	PN10/40	37	76	150	110	100	15	18	4	258881-40
50	2"	SS 304	16	PN10/16	50	87	165	125	100	17	18	4	258881-50
65	2"1/2	SS 304	16	PN10/16	62	100	185	145	100	17	18	8	258881-65
80	3"	SS 304	16	PN10/16	78	117	200	160	130	17	18	8	258881-80
100	4"	SS 304	16	PN10/16	100	139	220	180	130	19	18	8	258881-100
125	5"	SS 304	16	PN10/16	124	167	250	210	160	19	18	8	258881-125
150	6"	SS 304	16	PN10/16	150	198	285	240	150	21	22	8	258881-150
200	8"	SS 304	16	PN16	200	253	340	295	175	23	22	12	258881-20016
32	1"1/4	Galvanised steel	16	PN10/40	37	76	140	100	95	16	18	4	858881-32
40	1"1/2	Galvanised steel	16	PN10/40	37	76	150	110	95	16	18	4	858881-40
50	2"	Galvanised steel	16	PN10/16	50	87	165	125	105	18	18	4	858881-50
65	2"1/2	Galvanised steel	16	PN10/16	62	100	185	145	115	18	18	8	858881-65
80	3"	Galvanised steel	16	PN10/16	78	117	200	160	135	20	18	8	858881-80
100	4"	Galvanised steel	16	PN10/16	100	139	220	180	150	20	18	8	858881-100
125	5"	Galvanised steel	16	PN10/16	124	167	250	210	165	22	18	8	858881-125
150	6"	Galvanised steel	16	PN10/16	150	198	285	240	180	22	22	8	858881-150
200	8"	Galvanised steel	10	PN10	200	260	340	295	200	22	22	8	858881-200
200	8"	Galvanised steel	16	PN16	200	253	340	295	210	24	22	12	858881-20016

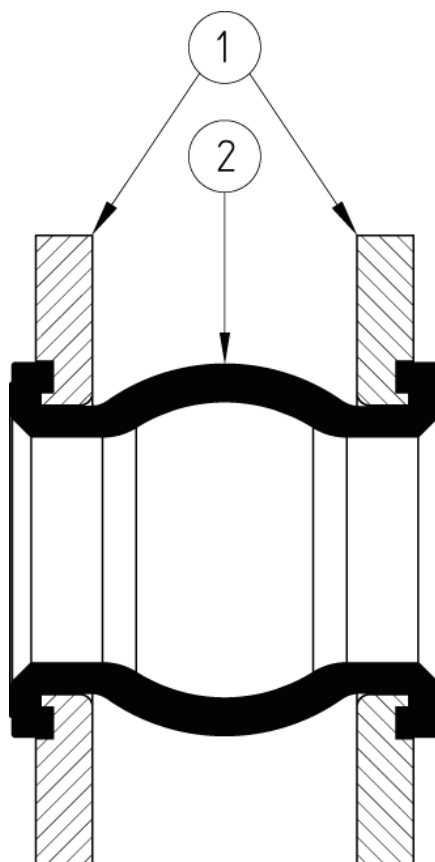
*stainless steel



Warning: the expansion joint's PN is not the same as the PN of its flanges.
The maximum pressure for the expansion joint is 16 bar, except for expansion joint model **858881-200** which has a maximum pressure of 10 bar.

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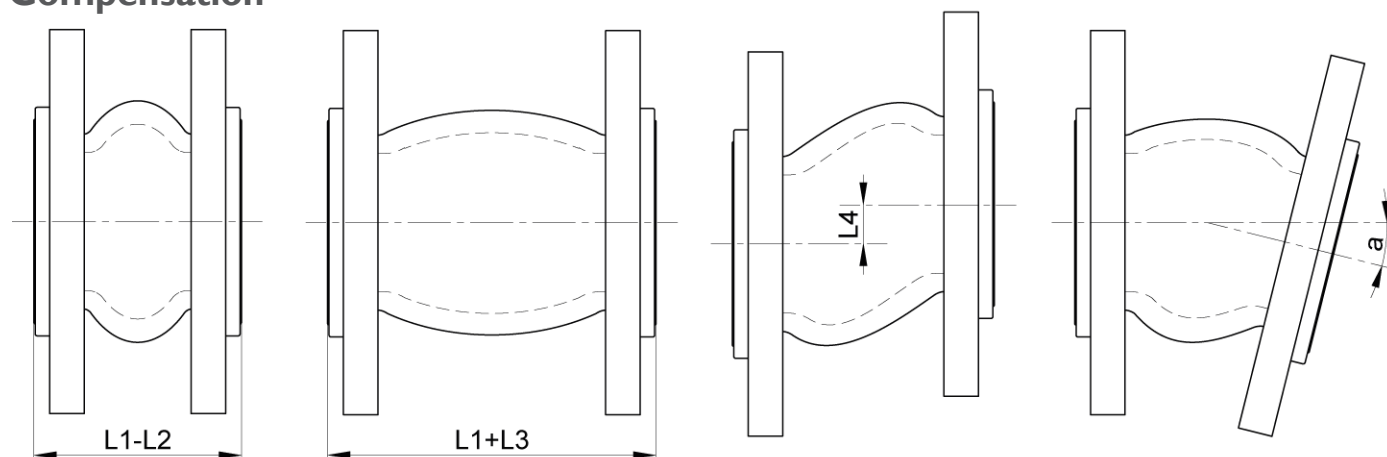


N°	Part Name	Material
1	FLANGES	304 stainless steel or Galvanised (zinc-coated) steel
2	BELLOWS	EPDM

Use

An expansion joint can absorb piping movements to make up for pipe misalignment issues, reduce vibrations and prevent pipes from breaking.

Compensation



Axial displacement
Compression

Axial displacement
Expansion

Lateral displacement
Shearing

Angular displacement

DN (mm)	NB (inches)	Material	PN flanges (inches)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	a (°)	Part number
32	1"1/4	SS* 304	PN10/40	100	20	10	10	25	258881-32
40	1"1/2	SS 304	PN10/40	100	20	10	10	25	258881-40
50	2"	SS 304	PN10/16	100	20	10	10	25	258881-50
65	2"1/2	SS 304	PN10/16	100	20	10	10	20	258881-65
80	3"	SS 304	PN10/16	130	20	10	10	20	258881-80
100	4"	SS 304	PN10/16	130	20	10	10	15	258881-100
125	5"	SS 304	PN10/16	160	25	15	15	15	258881-125
150	6"	SS 304	PN10/16	150	25	15	15	10	258881-150
200	8"	SS 304	PN16	175	25	15	15	10	258881-20016
32	1"1/4	Galvanised steel	PN10/40	95	10	10	10	15	858881-32
40	1"1/2	Galvanised steel	PN10/40	95	10	10	10	15	858881-40
50	2"	Galvanised steel	PN10/16	105	10	10	10	15	858881-50
65	2"1/2	Galvanised steel	PN10/16	115	10	10	11	15	858881-65
80	3"	Galvanised steel	PN10/16	135	10	10	12	15	858881-80
100	4"	Galvanised steel	PN10/16	150	19	10	13	15	858881-100
125	5"	Galvanised steel	PN10/16	165	20	12	14	15	858881-125
150	6"	Galvanised steel	PN10/16	180	25	16	22	15	858881-150
200	8"	Galvanised steel	PN10	200	20	12	22	10	858881-200
200	8"	Galvanised steel	PN16	200	25	16	22	15	858881-20016

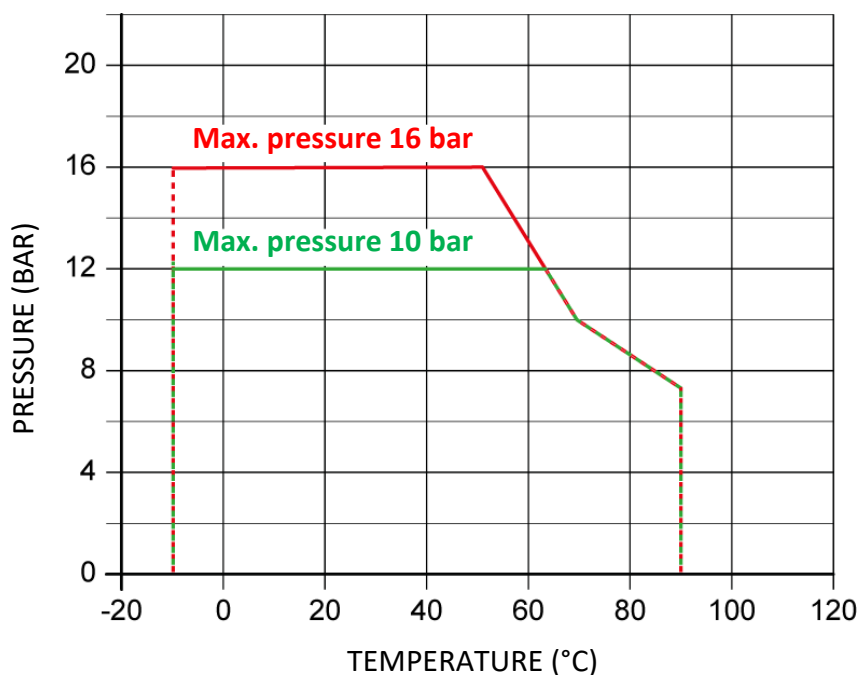
*stainless steel

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Pressure and temperature

For pressure/temperature ratings, see the graph below.



Warning: If the expansion joint is used with fluids that have a temperature above 60°C then people could burn themselves if they touch it.

Fluids

This expansion joint is suitable for non-abrasive and non-coagulable fluids, as long as the fluids are chemically compatible with the bellows **2**.

Assembly and maintenance instructions

Installation

You can install the expansion joint in any position.

Check that the piping support structure is dimensioned correctly and that there is enough space for the expansion joint's movements where you are planning to install it.

The expansion joint's bellows seal the flanges, so there is no need for any additional gaskets.

Check that the installation is clean and free from foreign bodies that could damage the bellows.

Clean the installation so that there are no foreign bodies in the piping.

Check the expansion joint is operating correctly.

Pressure test the installation according to the relevant standards, but do not exceed the expansion joint's specifications.

Maintenance

An expansion joint does not require any specific maintenance if it is used in normal operating conditions.

You may need to change the expansion joint due to wear and tear, or if a fluid has damaged it and caused a leak or malfunction.

Standards and compliance

- Connection: flanges in accordance with NF EN 1092-1.