



D-LINE® Expansion joints boast a design that absorbs movement caused by thermal expansion or mechanical vibration, which results in a more stable flow. Flanges are made of zinc coated carbon steel and manufactured according to ASME/ANSI B16.5 standards, while their body is made of NBR elastomer, which has a great abrasion resistance.

APPLICATIONS

D-LINE® Expansion Joints are widely used in many industries including:

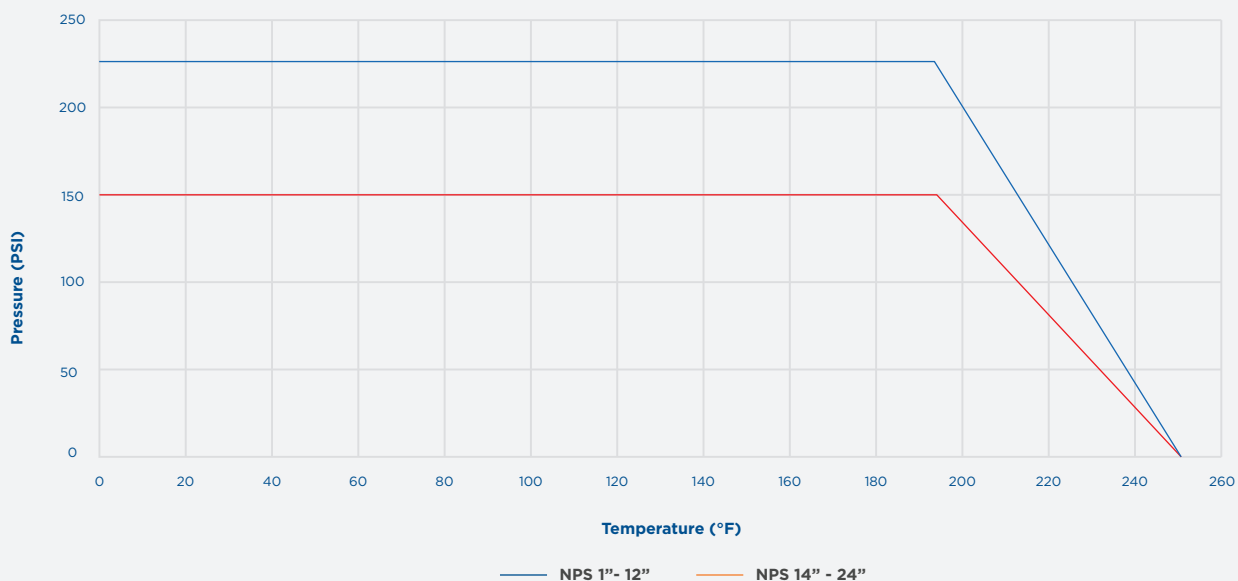
- Water treatment
- HVAC industries
- Fire systems protection

DESIGN FEATURES

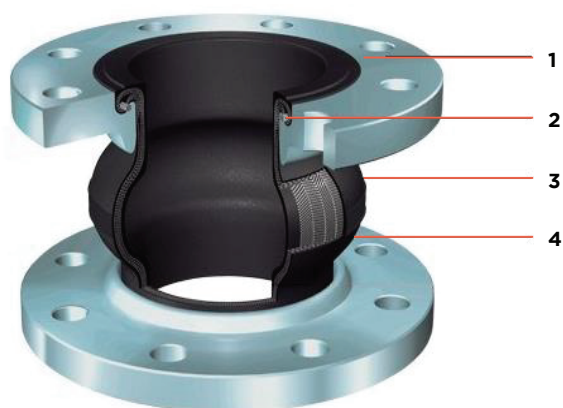
- Zinc coated flanges
- Flanges according to ANSI B16.5
- Bidirectional sealing
- Body reinforcement piles
- Wire cores on sealing joint
- Maximum working pressure 225 PSI (1" - 12")
- Maximum working pressure 150 PSI (14" - 24")

APPLICATIONS

These are conservative guide for NBR material general service. Previous experience in process or new development may permit applications above those shown



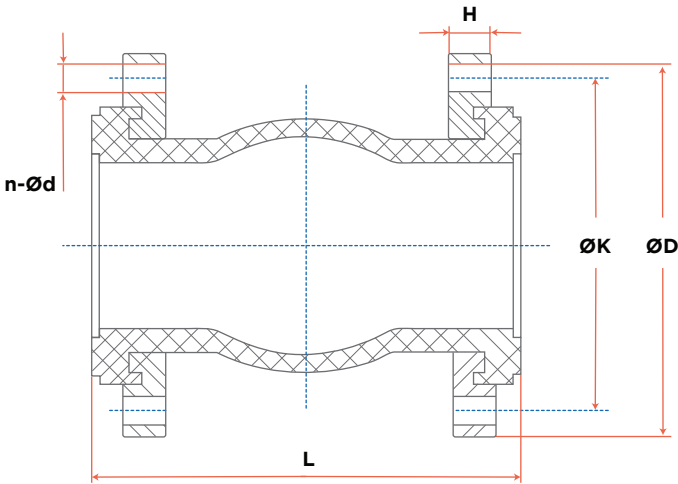
DIMENSIONS



JOINT MATERIAL LIST		
No.	DESCRIPTION	MATERIAL
1	FLANGE	CARBON STEEL ZINC COATED
2	WIRE CORE	STEEL
3	BODY	NBR (BUNA)
4	REINFORCEMENT	NYLON

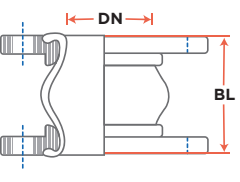
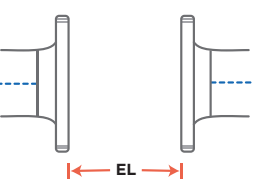
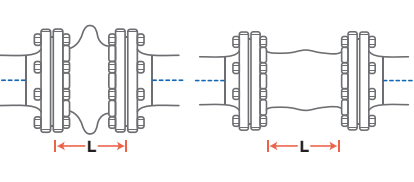
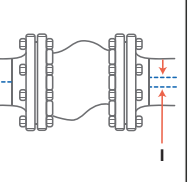
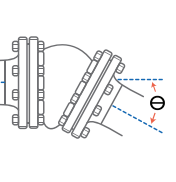
JOINT DIMENSIONS & WEIGHTS						
SIZE	L	ØK	ØD	H	n - Ød	WEIGHT (KG)
2"	6.00	4.75	6.00	0.71	4 - 0.75	3.66
2 1/2"	6.00	5.50	7.00	0.79	4 - 0.75	5.12
3"	6.00	6.00	7.50	0.87	4 - 0.75	5.89
4"	6.00	7.50	9.00	0.87	8 - 0.75	8.56
5"	6.00	8.50	10.00	0.87	8 - 0.87	11.72
6"	6.00	9.50	11.00	0.94	8 - 0.87	12.03
8"	6.00	11.75	13.50	1.02	8 - 0.87	18.12
10"	8.00	14.25	16.00	1.02	12 - 1.00	26.42
12"	8.00	17.00	19.00	1.10	12 - 1.00	38.69
14"	8.00	18.75	21.00	1.18	12 - 1.13	43.49
16"	8.00	21.25	23.50	1.28	16 - 1.13	56.79
18"	8.00	22.75	25.00	1.40	16 - 1.25	61.18
20"	8.00	25.00	27.50	1.50	20 - 1.25	68.53
24"	8.00	29.50	32.00	1.63	20 - 1.38	101.23

*WEIGHT IS ESTIMATED
*ALL DIMENSIONS ARE EXPRESSED IN INCHES



DIMENSIONS

RANGE OF MOVEMENTS

									
SIZES		INSTALLATION LENGTH		AXIAL		LATERAL		ANGULAR	
DN Diameter Nominal (in)	BL Length (mm)	EL min. (mm)	EL max. (mm)	L min. (mm)	L max. (mm)	I (mm)	Θ (°)		
2"	150	140	160	115	180	±30	±15		
2 1/2"		140	160	115	180	±30	±15		
3"		140	160	115	180	±30	±15		
4"		140	160	115	180	±30	±15		
5"		140	160	115	180	±30	±15		
6"		140	160	115	180	±30	±15		
8"		140	160	115	180	±30	±15		
10"	200	190	210	160	235	±30	±10		
12"		190	210	160	235	±30	±10		
14"		190	210	160	235	±30	±10		
16"		190	210	160	235	±30	±10		
18"		190	210	160	235	±30	±10		
20"		190	210	160	235	±30	±10		
24"		190	210	160	235	±30	±10		

*ALLOWABLE STATIC RANGE OF MOVEMENT IN SERVICE WITH USAGE OF COLLAR FLANGES UP TO 50°C

ELASTOMERS PHYSICAL AND CHEMICAL PROPERTIES

COMMON NAME Chemical Group Name	Ozone	Weather	Sunlight	Oxidation	Heat	Cold	Flame	Tear	Abrasion	Impermeability	Dynamic	Rebound-Hot	Rebound-Cold	Compression Set	Tensile Strength	Dielectric Strength	Electric Insulation	Water Absorption	Radiation	Swelling in Oil	Acid Diluted	Acid Concentrated	Aliphatic Hydro	Aromatic Hydro	Oxygenated Hydro	Laquers	Oil & Gas	Alkal Diluted	Alkal Concentrated	Animal & Vegetable Oil	Chemical	Water	ASTM D-2000/D148-77	ANSI/ASTM D148-77
NEOPRENE Chloroprene	5	6	5	5	4	4	4	4	5	4	2	5	4	2	4	5	3	4	5	4	6	4	3	2	1	0	4	4	0	4	3	4	BC BF	CR
GUM RUBBER Polyisoprene, Synthetic	0	2	0	4	2	5	0	5	7	2	6	6	6	4	6	6	5	5	6	0	3	3	0	0	4	0	0	X	X	X	3	5	AA	NR
NATURAL RUBBER Polyisoprene, Synthetic	0	2	0	4	2	5	0	5	6	2	2	6	6	4	6	6	5	5	6	0	3	3	0	0	4	0	0	X	X	X	3	5	AA	IR
BUTYL Isobutene-Isoprene	6	5	5	6	5	4	0	4	4	6	2	5	0	4	4	4	5	5	4	0	6	4	0	0	4	3	0	4	4	5	6	5	AA	IIR
CHLOROBUTYL Chloro-Isobutene-Isoprene	6	5	5	6	5	4	0	4	4	6	2	5	0	4	4	4	5	5	4	0	6	4	0	0	4	3	0	4	4	5	6	5	AA BA	CIIR
BUNA-N/NITRILE Nitril-Butadiene	2	2	0	4	4	3	0	3	4	4	5	4	4	5	5	5	1	4	5	5	4	4	6	4	0	2	5	4	0	5	3	4	BE BK CH	NBR
SBR/GRS/BUNA-S Styrene-Butadiene	0	2	0	2	3	5	0	3	5	2	4	4	4	5	5	5	5	5	6	0	3	3	0	0	4	0	0	4	2	X	3	5	AA	SBR
HYPALON® Chloro-Sulfonyl-Polyethylene	7	6	7	6	4	4	4	3	4	4	2	4	2	2	2	2	3	4	5	4	6	4	3	2	1	3	4	4	4	4	6	5	CE	CSM
VITON® Fluorocarbon Elastomer	7	7	7	7	7	2	6	2	5	5	5	4	2	5	5	5	3	5	5	6	5	5	6	6	0	1	6	4	0	6	6	5	HK	FKM
EPDM® Ethylene-Propylene-Diene-Terpolymer	7	6	7	6	6	5	0	4	5	4	5	6	6	5	5	5	6	6	7	0	6	4	0	0	6	3	0	6	6	5	6	5	BA CA DA	EPR
PTFE/TFE/FEP® Fluoro-Ethylene-Polyymers	7	7	7	7	7	X	X	X	4	X	X	X	X	X	X	X	X	7	3	7	7	7	7	7	7	7	7	7	7	7	7	7		AFMU
SILICONE	6	6	6	6	7	6	2	2	0	2	0	6	6	0	0	0	6	6	5	2	6	2	0	0	2	0	X	2	0	5	5	5	GE	SI

Rating Scale: 7 Outstanding 6 Excellent 5 Very Good 4 Good 3 Fair to Good 2 Fair 1 Poor To Fair 0 Poor X Contact Manufacture