

DILATOFLEX®

Rubber Bellows Expansion Joint Compensators

The best among expansion joints

DILATOFLEX TYPE F

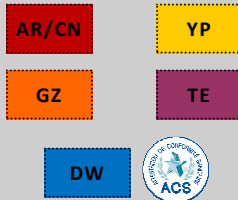


FLOATING FLANGES FROM DN300 UP TO DN1200

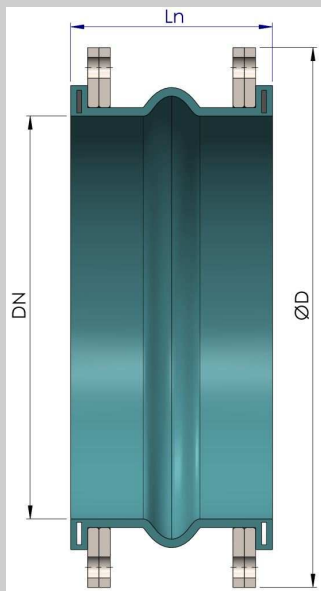
SOLID STEEL FLAT PROFILE FLANGE RETENTION RING - NOT A BEAD WIRE

LARGE VARIETY OF INNER LAYER RUBBER GRADES • ARAMID REINFORCED

Inner lining grades



Drinking Water agreement



Example of Label



DIMENSIONAL DATA					TECHNICAL DATA								
Nominal Diameter		Nominal length (Ln in mm)	Steel flanges' thickness (mm)	Drilling Standards (1)	Max. permissible pressure (bar) (2) (3)	Steel ring required for vacuum greater than ...%	Max. permissible Mouvements (not concurrent)				End thrust in DaN for P=1bar	Approx. Weight in kg (rubber bellow only) (4)	
				ISO 2084 NF EN 1759-1 NF EN 1092-1			Axial		Lateral	Angular			
DN mm	NPS Inch.			PN6 PN10 PN16 class 150 (PN20)			Compression Ln-Lc mm	Elongation Le-Ln mm	Shearing R mm	angle α° degree			
300	12	200	20	X	10	30					11,3	968	5
350	14	200	20	X	10	30	40	30	10	9,5	1263	5,6	
400	16	200	24	X	10	30	40	30	10	8,2	1598	6,4	
450	18	250	24	X	10	30	50	30	10	7,2	1971	8,5	
500	20	250	28	X	10	30	50	30	10	6,6	2384	9,5	
600	24	250	32	X	10	30	50	30	10	5,4	3416	11,5	
700	28	275	36	X	10	30	50	30	10	4,6	4530	14,5	
750	30	275	36	X	10	30	50	30	10	4,3	5147	16,8	
800	32	275	36	X	10	30	50	30	10	4	5802	18,5	
900	36	300	36	X	10	30	50	30	10	3,5	7359	23,7	
1000	40	300	40	X	10	30	50	30	10	3,1	8958	27,3	
1100	44	300	40	X	10	30	50	30	10	2,8	10715	33,6	
1200	48	300	40	X	10	30	50	30	10	2,5	12628	36,3	

(1) Other drillings available (e.g. PN25, BS10, JIS, ANSI 300, AWWA...)

(2) For higher working pressure : please ask

(3) Limited to nominal pressure of drilling standard being used.

(4) Expansion joints to be mounted with split backing flanges (zinc plated steel, hot dip galvanised steel, stainless steel)

Non-Standard lengths also available to special order

We reserve the right to change our products' specifications when necessary without notice.

Distributor :

Mercia Flexibles • www.merciaflexibles.co.uk

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AN EFFICIENT SOLUTION FOR A WIDE RANGE OF APPLICATIONS

BUILDING INDUSTRY

- ▶ Central heating and air conditioning
- ▶ Hot and cold water systems
- ▶ Fire extinction systems

POWER GENERATION

- ▶ Cooling systems, pumping stations, etc. for conventional and nuclear power plants

PETROLEUM INDUSTRY

- ▶ Cooling systems
- ▶ Fuel handling

NAVAL CONSTRUCTION

- ▶ Machine cooling systems
- ▶ Sanitary installations
- ▶ Fire extinction systems
- ▶ Fuel handling

METALLURGY

- ▶ Blast furnace gas
- ▶ Compressed air
- ▶ Industrial water systems

WATER TREATMENT

- ▶ Production and distribution of drinking water, waste water treatment

FOOD INDUSTRY

- ▶ Drinking water and other beverage and foodstuff handling systems

CHEMICAL INDUSTRY

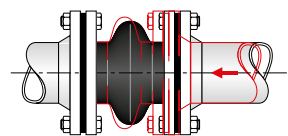
Fluid handling systems:

- ▶ acids, bases, hydrocarbons, emulsions, solutions, air, gas, steam, water, etc.

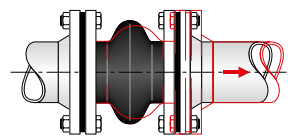
Lining Grade Identification colour and designation	Typical Applications		W.T. Working temperatures
Blue label DW	▶ Drinking Water Approved ▶ Domestic cold and hot water		-25 °C +90 °C/ 105 °C
Cream label EPC	▶ Food products ▶ White Food Grade liner ▶ Option Stainless Steel flanges		-25 °C +95 °C
Red label AR/CN	▶ Abrasive or corrosive products (weak acids and bases) ▶ Industrial water, sea water ▶ Low-temperature water vapour		-35 °C +90 °C
Orange label GZ	▶ Gas, compressed air, fuel, oil ▶ Petroleum products with aromatic content < 40% ▶ Sanitation water		-20 °C +90 °C
Blue label HH	▶ Industrial and waste water ▶ Hydrogen gas, nitrogen		-20 °C +90 °C
Yellow label YP	▶ Strong acids ▶ Strong bases ▶ Aggressive chemicals		-25 °C +100 °C
Grey label AB	▶ Strong acids ▶ Strong bases ▶ Weak chlorinated products		-35 °C +100 °C
Mauve label TE	▶ Industrial water ▶ Acidic water ▶ Diluted acids and bases		-25 °C +100 °C

The inner lining to be used for a specific fluid (composition, concentration, temperature, etc.) should be selected according to our Chemical Resistance Chart.

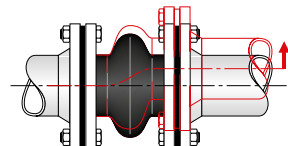
Operating Principles



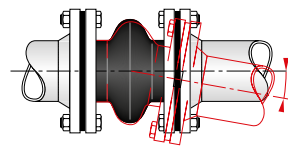
AXIAL COMPRESSION



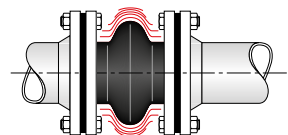
AXIAL ELONGATION



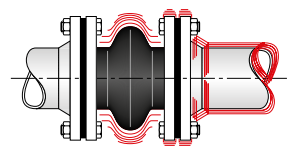
LATERAL DEFLECTION



ANGULAR DEFLECTION



WATER HAMMER REDUCTION



ELIMINATION OF VIBRATION