



DILATOFLEX® N

Large Bore

AR / CN
Red label

Inner
lining
grades

YP
Yellow label

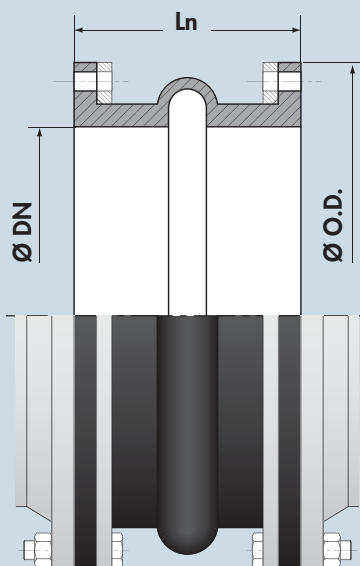
GZ
Orange label

AB
Grey label

EPC
Cream label

DW
Blue label

HH
Blue label



Example of Label

DILATOFLEX® N

DIMENSIONAL DATA								TECHNICAL DATA							
Number of Convolutions	Nominal Diameter		Nominal length (Ln in mm)	O.D. (mm)				Max. permissible pressure (bar)	Steel ring required for vacuum greater than ...%	Max. Permissible Movements (not concurrent)				End thrust in daN for P= 1 bar	Approx. weight in kg (below only) (2)
				Drilling standards (1)						Axial		Lateral	Angular		
	ISO 2084 NF EN 1759-1 NF EN 1092-1														
	PN 2.5	PN6 - PN 10		PN 16							class 150 (PN 20)	Ln - Lc mm	Le - Ln mm		
1	500	20	300		670	715	698	10	20	40	30	20	6	2.5	30
1	550	22	300		775	775		10	20	20	30	15	4	3.0	40
1	600	24	300		780	840	840	10	20	40	40	20	7	3.8	43
1	700	28	300		895	910	910	10	20	40	40	20	6	4.9	44
1	750	30	300		965	970	984	10	20	20	20	15	3	5.3	60
1	800	32	400		1015	1025	1085	10	20	40	40	20	5	6.3	67
1	850	34	400		***	***	***	10	20	40	40	20	5	7.0	70
1	900	36	400		1115	1125	1168	10	20	40	40	20	5	8.8	80
1	1000	40	400		1230	1255		10	20	40	40	20	4	9.4	84
1	1100	44	400		1340	1390	1340	6	20	40	30	20	3	10.7	100
1	1200	48	400		1455	1585	1530	6	20	40	40	20	3	13.2	120
1	1250	50	400		***	***		6	10	40	40	20	3	14.2	115
1	1300	52	400		1565			6	10	20	20	15	1.5	14.8	115
1	1400	56	400		1675			6	10	40	40	20	3	17.6	150
1	1500	60	400		1785			6	10	20	20	15	1.5	20.0	170
1	1600	64	400		1915			6	10	40	30	20	2	22.4	183
1	1700	68	400		1940			6	10	40	30	20	1.5	25.2	215
1	1800	72	400		2115			6	10	20	20	15	1	27.8	225
1	2000	80	750		2325			1.5	-	150	100	50	5	38.3	275
1	2200	88	750		2550			1.5	-	150	150	75	7	48.2	400
1	2400	96	400		2760			4	-	50	40	20	1.5	49.6	300
1	2500	100	750	2705				1.5	-	150	100	50	4	56.8	450
1	2600	104	750	2805				1.5	-	150	150	75	6	64.4	500
1	3000	120	750	3230				1.3	-	150	100	50	3	79.3	550

(***) Non standard drilling.

(1) Other drillings available (e.g. BS10D-E, AWWA....). Please consult us.

(2) Expansion joints to be mounted with steel backing flanges in 2 parts (zinc-chromated, hot-dip galvanized or stainless steel).

**Rubber Bellows Expansion Joints - Flexible Pump Bellows
for Pipework for Anti-Vibration, and the Absorption of
Movement and Thermal Expansion in Pipelines**

Distributor:

Mercia Flexibles • www.merciaflexibles.co.uk

Ludlow Eco Park • Ludlow • Shropshire • SY8 1FF • United Kingdom

Tel: +44 (0)1584 874999 • Email: dilatoflex@merciaflexibles.co.uk

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

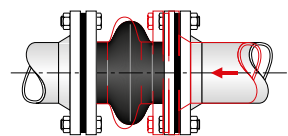
- ▶ Drinking water and other beverage and foodstuff handling systems

CHEMICAL INDUSTRY

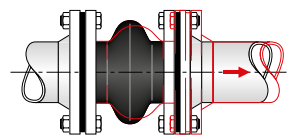
- Fluid handling systems:
- ▶ acids, bases, hydrocarbons, emulsions, solutions, air, gas, steam, water, etc.

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

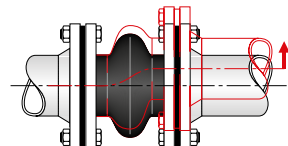
Operating Principles



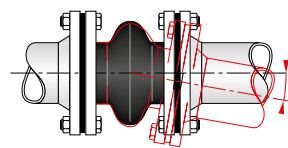
AXIAL COMPRESSION



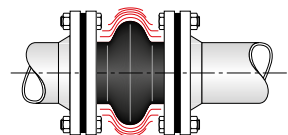
AXIAL ELONGATION



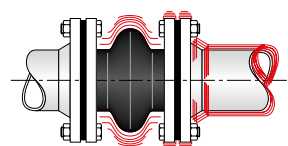
LATERAL DEFLECTION



ANGULAR DEFLECTION



WATER HAMMER REDUCTION



ELIMINATION OF VIBRATION

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

Distributor : **Mercia Flexibles** • www.merciaflexibles.co.uk
Ludlow Eco Park • Ludlow • Shropshire • SY8 1FF • UK
Tel.: +44 (0)1584 874999 • Email: dilatoflex@merciaflexibles.co.uk