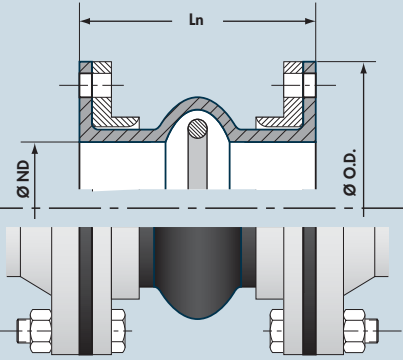
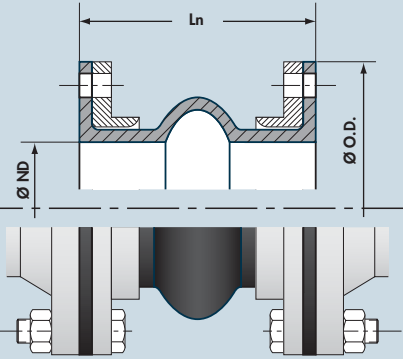
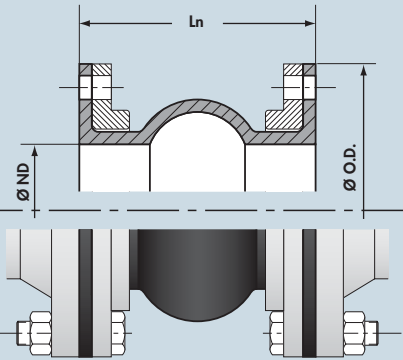
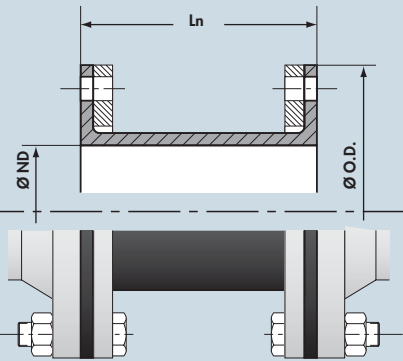




DILATOFLEX® M

Large Bore

AR / CN Red label	Inner lining grades	YP Yellow label
GZ Orange label		AB Grey label
EPC Cream label		HH Blue label
	TE Mauve label	



Example of Label



DIMENSIONAL DATA							TECHNICAL DATA									
Nominal Diameter		Nominal length (Ln in mm)			Drilling standards ISO 2084 NF EN 1759-1 NF EN 1092-1 PN 2.5 - PN 6 PN 10 Other drillings Please consult us.		Max. permissible pressure (bar)	Max permissible vacuum (% vacuum)	Max. Permissible Movements (not concurrent)						End thrust in daN for P= 1 bar	Approx. weight in kg (with flanges) (1)
									Axial		Lateral	Angular				
																
									Compression	Elongation	Shearing	angle α° degree				
ND	NPS						Ln - Lc mm	Le - Ln mm	R mm	P	V					
mm	inch															
Type MD 40																
500	20	225	250		X	4	100%	20	0	30	2.3	1.7	2.3	42		
600	24	225	250		X	4	100%	20	0	30	1.9	1.4	3.2	53		
800	32		250		X	4	100%	20	0	30	1.4	1.1	5.6	82		
1000	40		250	300	X	4	100%	20	0	30	1.1	0.9	8.5	111		
1200	48			300	X	4	100%	20	0	30	0.9	0.7	12.1	179		
1400	56			300	X	4	100%	20	0	30	0.8	0.6	16.4	225		
1600	64			300	X	4	100%	25	0	30	0.9	0.5	21.2	345		
1800	72			300	X	4	100%	25	0	30	0.8	0.5	26.7	392		
2000	80			300	X	4	100%	25	0	30	0.7	0.4	32.9	450		
2200	88			300	X	4	100%	25	0	30	0.7	0.4	39.6	525		
For any intermediate sizes and further sizes up to ND 2600mm (102"), please consult us.																
Type MS 50																
500	20		250		X	6	0%	20	15	30	4.0	-	2.4	49		
600	24		250		X	6	0%	20	15	30	3.3	-	3.4	60		
800	32		250		X	6	0%	20	15	30	2.5	-	5.8	92		
1000	40		250	300	X	6	0%	20	15	30	2.0	-	8.8	122		
1200	48			300	X	6	0%	20	15	30	1.7	-	12.4	200		
1400	56			300	X	6	0%	20	15	30	1.4	-	16.4	251		
1600	64			300	X	6	0%	20	15	30	1.2	-	21.5	391		
1800	72			300	X	6	0%	20	15	30	1.1	-	27.0	438		
2000	80			300	X	6	0%	20	15	30	1.0	-	33.1	500		
2200	88			300	X	6	0%	20	15	30	0.9	-	39.9	580		
For any intermediate sizes and further sizes up to ND 2600mm (102"), please consult us.																
Type MA 60																
500	20		250	300	X	10	0%	30	30	30	6.8	-	2.6	54		
600	24		250	300	X	10	0%	30	30	30	5.7	-	3.6	68		
800	32		250	300	X	10	0%	30	30	30	4.3	-	6.1	98		
1000	40		250	300	X	10	0%	30	30	30	3.4	-	9.1	135		
1200	48			300	X	10	0%	30	30	30	2.9	-	12.8	215		
1400	56			300	X	10	0%	30	30	30	2.4	-	17.2	273		
1600	64			300	X	10	0%	30	30	30	2.1	-	22.1	405		
1800	72			300	X	10	0%	30	30	30	1.9	-	27.7	454		
2000	80			300	X	10	0%	30	30	30	1.7	-	33.9	514		
2200	88			300	X	10	0%	30	30	30	1.6	-	40.7	617		
For any intermediate sizes and further sizes up to ND 2600mm (102"), please consult us.																
Type MB 60																
500	20		250	300	X	8	100%	30	10	30	4.6	4.6	2.6	61		
600	24		250	300	X	8	100%	30	10	30	3.8	3.8	3.6	77		
800	32		250	300	X	8	100%	30	10	30	2.9	2.9	6.1	109		
1000	40		250	300	X	8	100%	30	10	30	2.3	2.3	9.1	149		
1200	48			300	X	8	100%	30	10	30	1.9	1.9	12.8	232		
1400	56			300	X	8	100%	30	10	30	1.6	1.6	17.2	290		
1600	64			300	X	8	100%	30	10	30	1.4	1.4	22.1	426		
1800	72			300	X	8	100%	30	10	30	1.3	1.3	27.7	477		
2000	80			300	X	8	100%	30	10	30	1.1	1.1	33.9	550		
2200	88			300	X	8	100%	30	10	30	1.0	1.0	40.7	645		
For any intermediate sizes and further sizes up to ND 2600mm (102"), please consult us.																

(1) Steel retaining flanges in 1 part (zinc-chromated, hot-dip galvanized or stainless steel)

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

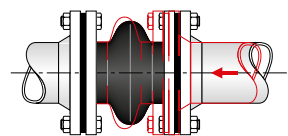
CHEMICAL INDUSTRY

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

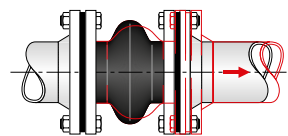
Lining Grade Identification colour and designation	Typical Applications		W.T. Working temperatures
Blue label DW	▶ Drinking Water Approved ▶ Domestic cold and hot water		-25 °C +90 °C/ 105 °C
Cream label EPC	▶ Food products ▶ White Food Grade liner ▶ Option Stainless Steel flanges		-25 °C +95 °C
Red 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
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.

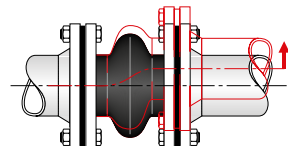
Operating Principles



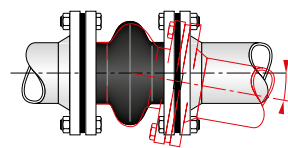
AXIAL COMPRESSION



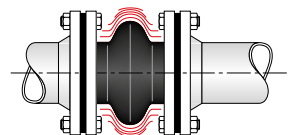
AXIAL ELONGATION



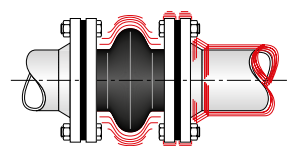
LATERAL DEFLECTION



ANGULAR DEFLECTION



WATER HAMMER REDUCTION



ELIMINATION OF VIBRATION