

# NORMACONNECT® FLEX/FLEX E

## THE PROTECTIVE PIPE COUPLING

NORMACONNECT® FLEX /FLEX E pipe couplings are used for connecting restrained pipes. Both metal and plastic pipes can be connected safely and quickly. With NORMACONNECT® FLEX/FLEX E pipe couplings sealing reliability is also ensured under the condition of gaps between pipe ends which are compensated. Given outside pipe diameters of > 180 mm the FLEX type is suitable for high pressure and the FLEX E type for low pressure applications.

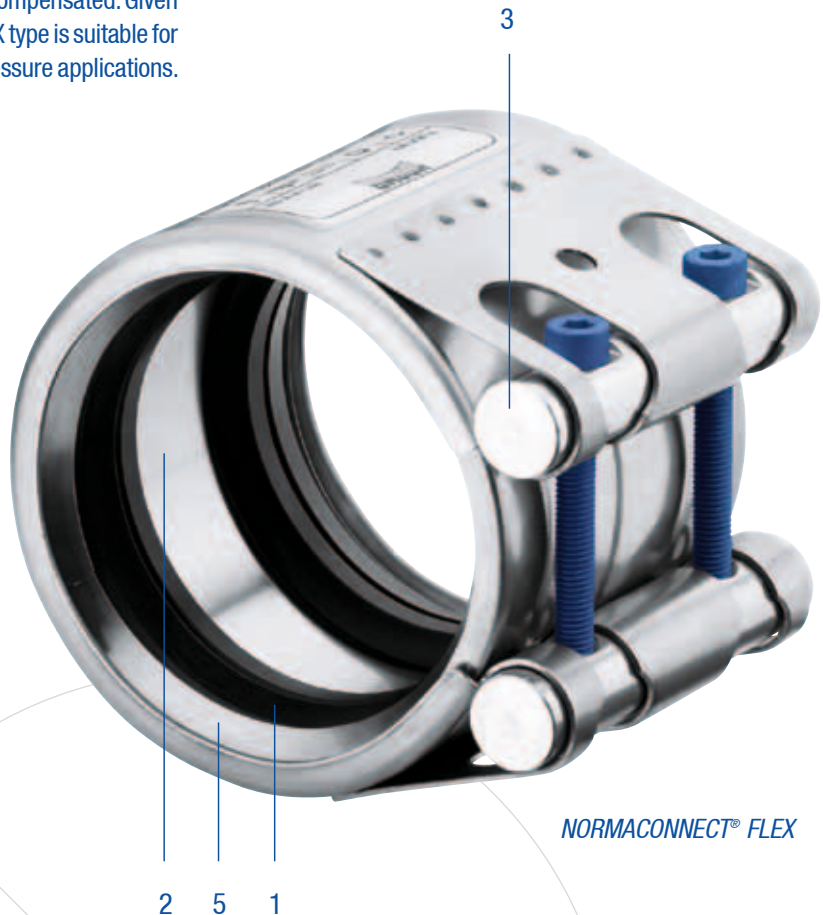
NORMACONNECT® FLEX /FLEX E Features:

- 1. Double-lip sealing system\*
- 2. Standard strip insert\*
- 3. Heavy duty lock bars\*
- 5. Protection ring\*

\* For details refer to Product benefits pages 6–7.



NORMACONNECT®  
FLEX E



NORMACONNECT® FLEX

## Enquiries/ordering

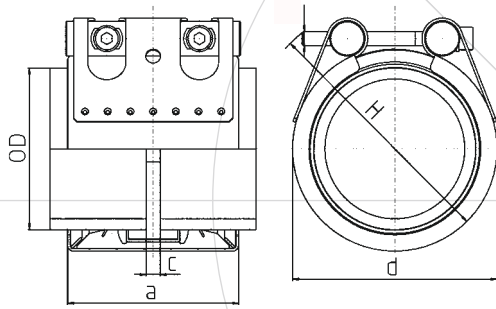
When making enquiries or placing orders please indicate:

**Example:**

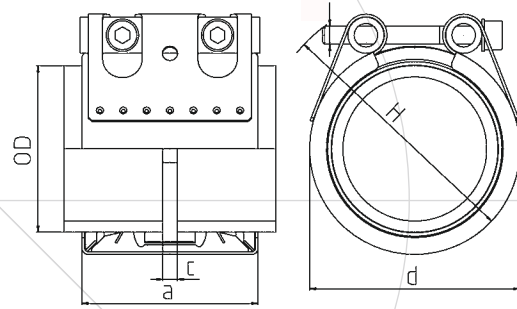
- |  |       |
|--|-------|
| 1. The type (FLEX, FLEX E) .....                           | FLEX® |
| 2. The required material (W2, W4, W5), (cf. page 10) ..... | W2    |
| 3. The pipe outside diameter OD, (cf. table) .....         | 609.6 |
| 4. The sealing sleeve material (EPDM, NBR) .....           | EPDM  |

For this example, the order text would read: **NORMACONNECT® FLEX – W2 – 609.6 – EPDM**



# NORMACONNECT® FLEX/FLEX E



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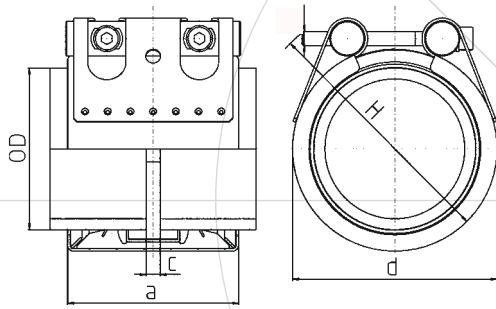
OD (mm)	Clamping range ODmin – ODmax (mm)	PN <sup>1)</sup>  (bar)	WP <sup>2)</sup>  (bar)	C <sub>max</sub> (mm)	Dimensions		
					a (mm)	d clamped approx. (mm)	H approx. (mm)
26.9	26.4 – 27.5	16	70	3	67	50	70
28.0	27.5 – 28.5	16	70	3	67	50	70
30.0	29.5 – 30.6	16	70	3	67	50	70
33.7	33.0 – 34.3	16	60	3	67	55	75
35.0	34.5 – 35.6	16	60	8	63	55	75
38.0	37.5 – 38.6	16	60	8	63	60	80
42.4	41.7 – 43.0	16	50	8	63	65	85
44.5	44.0 – 45.1	16	50	8	63	65	85
48.3	47.6 – 50.5	16	50	8	63	70	90
54.0	53.3 – 54.6	16	50	17	78	75	95
57.0	56.3 – 57.7	16	50	17	78	80	100
60.3	59.5 – 61.0	16	40	17	78	85	105
63.0	62.2 – 63.9	16	40	17	78	85	105
70.0	69.0 – 71.0	16	40	25	98	90	110
73.0	72.1 – 73.8	16	40	25	98	95	115
76.1	75.2 – 77.0	16	35	25	98	100	120
78.0	77.1 – 78.9	16	35	25	98	100	120
80.0	79.0 – 80.8	16	35	25	98	100	120
84.0	83.0 – 85.0	16	35	25	98	105	125
88.9	87.0 – 89.9	16	35	25	98	110	130
101.6	100.4 – 102.8	16	35	25	98	125	145
104.0	102.8 – 106.1	16	35	25	98	125	145
108.0	106.8 – 109.2	16	35	25	98	130	150
110.0	108.8 – 111.4	16	35	25	98	130	150
114.3	113.0 – 115.5	16	35	25	98	135	155
122.0	120.8 – 123.2	16	32	35	113	145	165
129.0	127.6 – 131.1	16	32	35	113	155	185
133.0	131.5 – 134.4	16	32	35	113	160	190
139.7	138.1 – 141.6	16	32	35	113	165	195
141.3	139.6 – 142.8	16	32	35	113	170	200
154.0	152.3 – 156.1	16	32	35	113	180	210
159.0	157.3 – 160.7	16	32	35	113	185	215
168.3	166.5 – 170.1	16	32	35	113	195	225

<sup>1)</sup> PN (nominal pressure) is the max. admissible working pressure in shipbuilding, based on a safety factor of  $\geq 4$ .

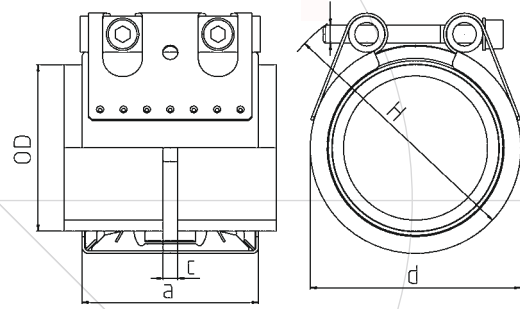
<sup>2)</sup> WP is the max. working pressure in industrial applications, based on a safety factor as per NORMA specification.







# NORMACONNECT® FLEX/FLEX E



NORMACONNECT® FLEX



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OD (mm)	Clamping range ODmin – ODmax (mm)	MAWP <sup>3)</sup> (bar)		WP <sup>2)</sup> (bar)		C <sub>max</sub> (mm)	Clamping range				
							a (mm)		d clamped approx. (mm)		H approx. (mm)
		FLEX	FLEX E	FLEX	FLEX E		FLEX	FLEX E			
180.0	178.0 – 182.0	23.5	13.5	50.0	30.0	35	141	139	210	240	
193.7	192.0 – 196.0	23.5	13.5	46.0	28.0	35	141	139	225	255	
206.0	202.0 – 208.0	20.0	13.5	43.0	26.5	35	141	139	240	270	
219.1	216.0 – 221.0	18.0	13.5	40.5	23.0	35	141	139	250	280	
225.0	222.0 – 227.0	18.0	12.0	40.0	23.0	35	141	139	255	285	
229.9	228.0 – 232.0	18.0	12.0	39.0	23.0	35	141	139	260	290	
244.5	242.0 – 247.0	18.0	12.0	37.0	22.0	35	141	139	275	305	
254.0	250.0 – 256.0	18.0	12.0	35.5	21.0	35	141	139	285	315	
267.0	264.0 – 269.0	18.0	12.0	33.5	20.0	35	141	139	300	330	
273.0	270.0 – 275.0	17.0	12.0	33.0	20.0	35	141	139	305	335	
306.0	302.0 – 308.0	15.0	9.0	29.0	17.5	35	141	139	340	370	
323.9	320.0 – 327.0	15.0	9.0	28.0	17.5	35	141	139	355	385	
326.0	322.0 – 329.0	13.0	9.0	27.5	16.5	35	141	139	360	390	
355.6	352.0 – 359.0	13.0	9.0	25.0	15.0	35	141	139	390	420	
406.4	402.0 – 410.0	10.0	7.5	22.0	14.0	35	141	139	440	470	
429.0	426.0 – 431.0	7.5	5.5	21.0	13.0	35	141	139	460	490	
442.0	439.0 – 444.0	7.5	5.5	20.0	13.0	35	141	139	475	505	
457.2	454.0 – 459.0	7.5	5.5	19.5	12.0	35	141	139	490	520	
508.0	505.0 – 510.0	7.5	5.5	17.0	11.0	35	141	139	540	570	
531.0	528.0 – 534.0	7.5	5.5	16.0	10.5	35	141	139	565	595	
558.8	556.0 – 562.0	7.5	5.5	15.5	10.0	35	141	139	590	620	
609.6	606.0 – 613.0	6.0	4.5	14.0	9.0	35	141	139	640	670	
634.0	631.0 – 637.0	5.0	4.5	13.5	8.0	35	141	139	665	695	
711.2	707.0 – 715.0	5.0	4.0	12.0	7.0	35	141	139	745	775	
762.0	758.0 – 766.0	4.5	3.2	11.0	7.0	35	141	139	795	885	
812.8	808.0 – 817.0	4.5	3.2	10.5	6.5	35	141	139	845	935	
914.4	909.0 – 919.0	3.3	2.0	9.5	5.5	35	141	139	945	1035	
1016.0	1013.0 – 1019.0	3.3	2.0	8.0	5.0	35	141	139	1050	1140	
1117.5	1114.0 – 1120.0	3.3	2.0	7.5	4.5	35	141	139	1150	1240	
1219.2	1216.0 – 1222.0	3.3	2.0	7.0	4.0	35	141	139	1250	1340	

<sup>2)</sup> WP is the max working pressure in industrial applications, based on a safety factor as per NORMA specification.

<sup>3)</sup> MAWP (maximum allowable working pressure) is the max. admissible working pressure in shipbuilding, based on a safety factor of  $\geq 4$ .

For the pipes to be joined the max. difference in diameter must not exceed 5 mm.

All pipe couplings  $\geq 800$  mm are in 2 parts.

Sizes > 1219.2 mm on request.

Higher pressures on request.