

## PRODUCT BENEFITS

### Benefits of NORMACONNECT® Pipe Couplings

NORMACONNECT® pipe couplings provide the following features:

#### Simple fitting and quick installation

- Ready to use, no single parts, no disassembling and reassembling
- No preparation time, no pipe-end treatment, no harmonization work
- Offers angular deflection, no precise pipe gap necessary, stress-free pipe joining

#### Reliable sealing system

- Dynamic sealing effect even with rough pipe surface
- Dampens pressure surges, vibration and shocks
- Axial-restraint (Grip / CombiGrip E / PlastGrip E)
- Allows length variation (Flex)

#### Durable and economic

- High chemical resistance of stainless steel components and sealing sleeve
- Long-term elasticity of rubber
- Trouble-free and maintenance-free pipe joint
- Couplings are several times re-usable
- No pipe-end treatment, thus cost saving

#### Universal range of applications

- For pressure, depression or vacuum
- Free choice of pipe material
- Joins same or different pipe materials
- Dampens pressure surges or structure borne noise
- Repairs pipe damage

## Benefits for the user

NORMACONNECT® pipe couplings and repair clamps provide benefits for the user with regard

### ... to

- Industry and industrial applications
- Water supply and water treatment
- Domestic application
- Shipbuilding and ship repair
- Service, repair and maintenance

### ... to planning

- Simple and cost-reliable planning with ready-to-use pipe joints
- Reproducibility of fitting time, installation according to schedule
- Low weight, handy, compact (shipbuilding, vehicle construction)
- Reduced space requirement thus tight pipe guidance possible
- Enlargement or change of pipeline direction is done quickly and at low cost, due to the re-usability of the pipe couplings

### ... to installation

- Low weight, handy, compact
- Simple and quick installation due to ready-to-use pipe joints
- No preparation time, no pipe-end treatment, no harmonization work
- Tight-safe and long lasting pipe joint
- Installation of pre-fabricated pipe sections

### ... to operation

- Reliable through controlled manufacturing quality and high safety reserves
- Dampening of pressure surges, vibration and structure borne noise, protection of integrated gauges, fittings etc.
- Enlargement or change of pipe direction is done quick and at low cost, due to the re-usability of the pipe couplings
- Changes are possible during operation due to parallel guidance of pipes or bypasses

### ... to down-time, repair or maintenance

- Very quick reaction due to dischargeability and re-usability of pipe joints
- Very short down-time due to rapid disconnection and refitting of pipe coupling
- No design constraint, joins same or different pipe materials
- Ready-to-use, no preparation time, no pipe-end treatment, no harmonization work
- No risk of fire, e.g. during welding
- Problem solving during reorganization and reconstruction

# 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 ( <b>W2, W4, W5</b> ), (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 3

## THE PIPE COUPLING WITH EXTRA WIDE BAND

NORMACONNECT® FLEX 3 featuring an extra wide band is an axial non-restraint coupling used to connect metal and/or plastic pipes quickly and safely.

NORMACONNECT® FLEX 3 Features:

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

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



NORMACONNECT®  
FLEX 3



NORMACONNECT®  
FLEX 3 pipe coupling  
with extra wide band.

## Enquiries/ordering

When making enquiries or placing orders please indicate:

**Example:**

- |   |        |
|---|--------|
| 1. The type (FLEX 3) .....                                  | FLEX 3 |
| 2. The required material ( <b>W5</b> ), (cf. page 10) ..... | W5     |
| 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 3 – W5 – 609.6 - EPDM**

**FLEX SERIES**

**NORMACONNECT® Flex (26.9 – 168.3 mm)**

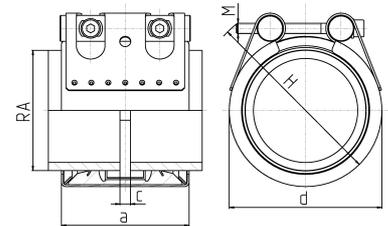
**Axial non-restraint pipe coupling for use with virtually all pipe materials**

Available in **W2** or **W4** material

**Seal:** EPDM or NBR

**Operating Temperatures:** EPDM -30°C to +125°C and NBR -20°C to +80°C

**Test Pressure:** 1.5 x working pressure (PN or WP)



OD	Clamp. Range	PN <sup>1)</sup>	WP <sup>2)</sup>	C <sub>max</sub>	Dimensions			Weight	Hex socket locking bolts	
					a	d	H		Thread	Tightening torque (Nm)
(mm)	OD <sub>min</sub> - OD <sub>max</sub> (mm)	 (bar)	 (bar)	(mm)	(mm)	clamped app. (mm)   app. (mm)		approx. (kg/pc.)		
26,9	26,4 - 27,5	16	70	3	67	50	70	0,39	M 8 SW 6	5
28,0	27,5 - 28,5	16	70	3	67	50	70	0,39	M 8 SW 6	5
30,0	29,5 - 30,6	16	70	3	67	50	70	0,39	M 8 SW 6	5
33,7	33,0 - 34,3	16	60	3	67	55	75	0,40	M 8 SW 6	5
35,0	34,5 - 35,6	16	60	8	63	55	75	0,54	M 8 SW 6	5
38,0	37,5 - 38,6	16	60	8	63	60	80	0,54	M 8 SW 6	5
42,4	41,7 - 43,0	16	50	8	63	65	85	0,56	M 8 SW 6	5
44,5	44,0 - 45,1	16	50	8	63	65	85	0,56	M 8 SW 6	5
48,3	47,6 - 50,5	16	50	8	63	70	90	0,58	M 8 SW 6	5
54,0	53,3 - 54,6	16	50	17	78	75	95	0,76	M 8 SW 6	10
57,0	56,3 - 57,7	16	50	17	78	80	100	0,76	M 8 SW 6	10
60,3	59,5 - 61,0	16	40	17	78	85	105	0,77	M 8 SW 6	10
63,0	62,2 - 63,9	16	40	17	78	85	105	0,77	M 8 SW 6	10
70,0	69,0 - 71,0	16	40	25	98	90	110	1,37	M 8 SW 6	10
73,0	72,1 - 73,8	16	40	25	98	95	115	1,39	M 8 SW 6	10
76,1	75,2 - 77,0	16	35	25	98	100	120	1,39	M 8 SW 6	10
78,0	77,1 - 78,9	16	35	25	98	100	120	1,40	M 8 SW 6	10
80,0	79,0 - 80,8	16	35	25	98	100	120	1,43	M 8 SW 6	10
84,0	83,0 - 85,0	16	35	25	98	105	125	1,46	M 8 SW 6	10
88,9	87,0 - 89,9	16	35	25	98	110	130	1,47	M 8 SW 6	10
101,6	100,4 - 102,8	16	35	25	98	125	145	1,61	M 8 SW 6	10
104,0	102,8 - 106,1	16	35	25	98	125	145	1,62	M 8 SW 6	10
108,0	106,8 - 109,2	16	35	25	98	130	150	1,64	M 8 SW 6	10
110,0	108,8 - 111,4	16	35	25	98	130	150	1,69	M 8 SW 6	10
114,3	113,0 - 115,5	16	35	25	98	135	155	1,69	M 8 SW 6	15
122,0	120,8 - 123,2	16	32	35	113	145	165	2,40	M 10 SW 8	20
129,0	127,6 - 131,1	16	32	35	113	155	185	2,41	M 10 SW 8	20
133,0	131,5 - 134,4	16	32	35	113	160	190	2,43	M 10 SW 8	20
139,7	138,1 - 141,6	16	32	35	113	165	195	2,50	M 10 SW 8	25
141,3	139,6 - 142,8	16	32	35	113	170	200	2,50	M 10 SW 8	25
154,0	152,3 - 156,1	16	32	35	113	180	210	2,62	M 10 SW 8	30
159,0	157,3 - 160,7	16	32	35	113	185	215	2,69	M 10 SW 8	30
168,3	166,5 - 170,1	16	32	35	113	195	225	2,75	M 10 SW 8	30

**References**

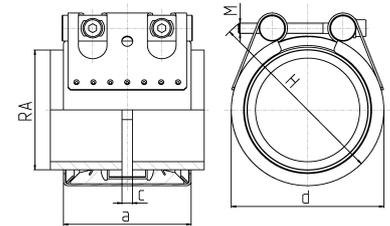
- 1) **PN** (Nominal Pressure) is the max. admissible working pressure in shipbuilding, based on a safety factor of ≥ 4.
- 2) **WP** is the max. working pressure in industrial applications, with a safety factor as per NORMA specification.

Subject to technical changes

**NORMACONNECT® Flex (180.0 – 1219.2 mm)**

**Axial non-restraint pipe coupling for use with virtually all pipe materials**

Available in **W2, W4** or **W5** material



**Seal:** EPDM or NBR

**Operating Temperatures:** EPDM and NBR -20°C to +80°C

**Test Pressure:** 1.5 x working pressure (MAWP or WP)

The **Diameter Difference** between the pipes to be joined must not exceed 5 mm.

*Coupling sizes >800 mm are in 2-part design ! Sizes > 1219,2 on request*

OD (mm)	Clamp. Range OD <sub>min</sub> - OD <sub>max</sub> (mm)	MAWP <sup>1)</sup> (bar)	WP <sup>2)</sup> (bar)	C <sub>max</sub> (mm)	Dimensions			Weight approx. (kg/pc.)	Hex socket locking bolts	
					a (mm)	d clamped app. (mm)	H app. (mm)		Thread	Tightening torque (Nm)
180,0	178,0 - 182,0	23,5	50,0	35	141	210	240	5,4	M 12 SW 10	35
193,7	192,0 - 196,0	23,5	46,0	35	141	225	255	5,6	M 12 SW 10	35
206,0	202,0 - 208,0	20,0	43,0	35	141	240	270	5,8	M 12 SW 10	35
219,1	216,0 - 221,0	18,0	40,5	35	141	250	280	6,0	M 12 SW 10	35
225,0	222,0 - 227,0	18,0	40,0	35	141	255	285	6,1	M 12 SW 10	35
229,9	228,0 - 232,0	18,0	39,0	35	141	260	290	6,2	M 12 SW 10	35
244,5	242,0 - 247,0	18,0	37,0	35	141	275	305	6,4	M 12 SW 10	35
254,0	250,0 - 256,0	18,0	35,5	35	141	285	315	6,5	M 12 SW 10	35
267,0	264,0 - 269,0	18,0	33,5	35	141	300	330	6,7	M 12 SW 10	35
273,0	270,0 - 275,0	17,0	33,0	35	141	305	335	6,8	M 12 SW 10	35
306,0	302,0 - 308,0	15,0	29,0	35	141	340	370	7,4	M 12 SW 10	35
323,9	320,0 - 327,0	15,0	28,0	35	141	355	385	7,6	M 12 SW 10	35
326,0	322,0 - 329,0	13,0	27,5	35	141	360	390	7,7	M 12 SW 10	35
355,6	352,0 - 359,0	13,0	25,0	35	141	390	420	8,1	M 12 SW 10	35
406,4	402,0 - 410,0	10,0	22,0	35	141	440	470	8,9	M 12 SW 10	35
429,0	426,0 - 431,0	7,5	21,0	35	141	460	490	9,3	M 12 SW 10	40
442,0	439,0 - 444,0	7,5	20,0	35	141	475	505	9,5	M 12 SW 10	40
457,2	454,0 - 459,0	7,5	19,5	35	141	490	520	9,7	M 12 SW 10	40
508,0	505,0 - 510,0	7,5	17,0	35	141	540	570	10,5	M 12 SW 10	40
531,0	528,0 - 534,0	7,5	16,0	35	141	565	595	10,9	M 12 SW 10	50
558,8	556,0 - 562,0	7,5	15,5	35	141	590	620	11,3	M 12 SW 10	50
609,6	606,0 - 613,0	6,0	14,0	35	141	640	670	12,1	M 12 SW 10	50
634,0	631,0 - 637,0	5,0	13,5	35	141	665	695	12,5	M 12 SW 10	50
711,2	707,0 - 715,0	5,0	12,0	35	141	745	775	13,7	M 12 SW 10	50
762,0	758,0 - 766,0	4,5	11,0	35	141	795	885	14,5	M 12 SW 10	50
812,8	808,0 - 817,0	4,5	10,5	35	141	845	935	17,2	M 12 SW 10	50
914,4	909,0 - 919,0	3,3	9,5	35	141	945	1035	18,8	M 12 SW 10	60
1016,0	1013,0 - 1019,0	3,3	8,0	35	141	1050	1140	20,4	M 12 SW 10	60
1117,5	1114,0 - 1120,0	3,3	7,5	35	141	1150	1240	22,0	M 12 SW 10	60
1219,2	1216,0 - 1222,0	3,3	7,0	35	141	1250	1340	23,6	M 12 SW 10	60

**References**

Subject to technical changes

- 1) **MAWP** (maximum allowable working pressure)  
is the max. admissible working pressure in shipbuilding, based on a safety factor of ≥ 4.
- 2) **WP**  
is the max. working pressure in industrial applications, with a safety factor as per NORMA specification.

## NORMACONNECT® Flex E (26.9 – 168.3 mm)

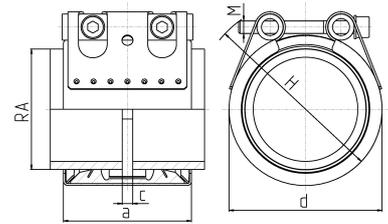
**Axial non-restraint pipe coupling for use with virtually all pipe materials**

Available in **W2, W4** or **W5** material

**Seal:** EPDM or NBR

**Operating Temperatures:** EPDM -30°C to +125°C and NBR -20°C to +80°C

**Test Pressure:** 1.5 x working pressure (PN or WP)



OD	Clamp. Range	PN <sup>1)</sup>	WP <sup>2)</sup>	C <sub>max</sub>	Dimensions			Weight	Hex socket locking bolts	
					a	clamped			approx. (kg/pc.)	Thread
(mm)	OD <sub>min</sub> - OD <sub>max</sub> (mm)	 (bar)	 (bar)	(bar)	(mm)	app. (mm)	app. (mm)			
26,9	26,4 - 27,5	16	70	3	67	50	70	0,31	M 8 SW 6	5
28,0	27,5 - 28,5	16	70	3	67	50	70	0,31	M 8 SW 6	5
30,0	29,5 - 30,6	16	70	3	67	50	70	0,31	M 8 SW 6	5
33,7	33,0 - 34,3	16	60	3	67	55	75	0,32	M 8 SW 6	5
35,0	34,5 - 35,6	16	60	8	63	55	75	0,43	M 8 SW 6	5
38,0	37,5 - 38,6	16	60	8	63	60	80	0,43	M 8 SW 6	5
42,4	41,7 - 43,0	16	50	8	63	65	85	0,44	M 8 SW 6	5
44,5	44,0 - 45,1	16	50	8	63	65	85	0,45	M 8 SW 6	5
48,3	47,6 - 50,5	16	50	8	63	70	90	0,46	M 8 SW 6	5
54,0	53,3 - 54,6	16	50	17	78	75	95	0,60	M 8 SW 6	10
57,0	56,3 - 57,7	16	50	17	78	80	100	0,61	M 8 SW 6	10
60,3	59,5 - 61,0	16	40	17	78	85	105	0,62	M 8 SW 6	10
63,0	62,2 - 63,9	16	40	17	78	85	105	0,62	M 8 SW 6	10
70,0	69,0 - 71,0	16	40	25	98	90	110	1,16	M 8 SW 6	10
73,0	72,1 - 73,8	16	40	25	98	95	115	1,18	M 8 SW 6	10
76,1	75,2 - 77,0	16	35	25	98	100	120	1,18	M 8 SW 6	10
78,0	77,1 - 78,9	16	35	25	98	100	120	1,19	M 8 SW 6	10
80,0	79,0 - 80,8	16	35	25	98	100	120	1,21	M 8 SW 6	10
84,0	83,0 - 85,0	16	35	25	98	105	125	1,24	M 8 SW 6	10
88,9	87,0 - 89,9	16	35	25	98	110	130	1,26	M 8 SW 6	10
101,6	100,4 - 102,8	16	35	25	98	125	145	1,39	M 8 SW 6	10
104,0	102,8 - 106,1	16	35	25	98	125	145	1,40	M 8 SW 6	10
108,0	106,8 - 109,2	16	35	25	98	130	150	1,42	M 8 SW 6	10
110,0	108,8 - 111,4	16	35	25	98	130	150	1,47	M 8 SW 6	10
114,3	113,0 - 115,5	16	35	25	98	135	155	1,47	M 8 SW 6	15
122,0	120,8 - 123,2	16	32	35	113	145	165	2,09	M 10 SW 8	20
129,0	127,6 - 131,1	16	32	35	113	155	185	2,10	M 10 SW 8	20
133,0	131,5 - 134,4	16	32	35	113	160	190	2,13	M 10 SW 8	20
139,7	138,1 - 141,6	16	32	35	113	165	195	2,19	M 10 SW 8	25
141,3	139,6 - 142,8	16	32	35	113	170	200	2,19	M 10 SW 8	25
154,0	152,3 - 156,1	16	32	35	113	180	210	2,31	M 10 SW 8	30
159,0	157,3 - 160,7	16	32	35	113	185	215	2,38	M 10 SW 8	30
168,3	166,5 - 170,1	16	32	35	113	195	225	2,43	M 10 SW 8	30

### References

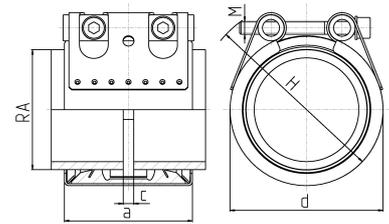
- <sup>1)</sup> **PN** (Nominal Pressure) is the max. admissible working pressure in shipbuilding, based on a safety factor of  $\geq 4$ .
- <sup>2)</sup> **WP** is the max. working pressure in industrial applications, with a safety factor as per NORMA specification.

Subject to technical changes

**NORMACONNECT® Flex E (180.0 – 1219.2 mm)**

**Axial non-restraint pipe coupling for use with virtually all pipe materials**

Available in **W2, W4** or **W5** material



**Seal:** EPDM or NBR

**Operating Temperatures:** EPDM and NBR -20°C to +80°C

**Test Pressure:** 1.5 working pressure (MAWP or WP)

The **Diameter Difference** between the pipes to be joined must not exceed 5 mm.

*Coupling sizes > 800 mm are in 2-part design ! Sizes > 1219,2 on request*

OD (mm)	Clamp. Range OD <sub>min</sub> - OD <sub>max</sub> (mm)	MAWP <sup>1)</sup> (bar)	WP <sup>2)</sup> (bar)	C <sub>max</sub> (mm)	Dimensions			Weight approx. (kg/pc.)	Hex socket locking bolts	
					a (mm)	d clamped app. (mm)	H app. (mm)		Thread	Tightening torque (Nm)
180,0	178,0 - 182,0	13,5	30,0	35	139	210	240	4,0	M 12 SW 10	25
193,7	192,0 - 196,0	13,5	28,0	35	139	225	255	4,1	M 12 SW 10	25
206,0	202,0 - 208,0	13,5	26,5	35	139	240	270	4,3	M 12 SW 10	25
219,1	216,0 - 221,0	13,5	23,0	35	139	250	280	4,4	M 12 SW 10	25
225,0	222,0 - 227,0	12,0	23,0	35	139	255	285	4,5	M 12 SW 10	25
229,9	228,0 - 232,0	12,0	23,0	35	139	260	290	4,5	M 12 SW 10	25
244,5	242,0 - 247,0	12,0	22,0	35	139	275	305	4,7	M 12 SW 10	25
254,0	250,0 - 256,0	12,0	21,0	35	139	285	315	4,8	M 12 SW 10	25
267,0	264,0 - 269,0	12,0	20,0	35	139	300	330	5,0	M 12 SW 10	25
273,0	270,0 - 275,0	12,0	20,0	35	139	305	335	5,1	M 12 SW 10	25
306,0	302,0 - 308,0	9,0	17,5	35	139	340	370	5,5	M 12 SW 10	25
323,9	320,0 - 327,0	9,0	17,5	35	139	355	385	5,7	M 12 SW 10	25
326,0	322,0 - 329,0	9,0	16,5	35	139	360	390	5,7	M 12 SW 10	25
355,6	352,0 - 359,0	9,0	15,0	35	139	390	420	6,0	M 12 SW 10	25
406,4	402,0 - 410,0	7,5	14,0	35	139	440	470	6,7	M 12 SW 10	25
429,0	426,0 - 431,0	5,5	13,0	35	139	460	490	6,9	M 12 SW 10	40,0
442,0	439,0 - 444,0	5,5	13,0	35	139	475	505	7,1	M 12 SW 10	40,0
457,2	454,0 - 459,0	5,5	12,0	35	139	490	520	7,3	M 12 SW 10	40,0
508,0	505,0 - 510,0	5,5	11,0	35	139	540	570	7,9	M 12 SW 10	40,0
531,0	528,0 - 534,0	5,5	10,5	35	139	565	595	8,1	M 12 SW 10	40,0
558,8	556,0 - 562,0	5,5	10,0	35	139	590	620	8,5	M 12 SW 10	40,0
609,6	606,0 - 613,0	4,5	9,0	35	139	640	670	9,1	M 12 SW 10	40,0
634,0	631,0 - 637,0	4,5	8,0	35	139	665	695	9,4	M 12 SW 10	40,0
711,2	707,0 - 715,0	4,0	7,0	35	139	745	775	10,3	M 12 SW 10	40,0
762,0	758,0 - 766,0	3,2	7,0	35	139	795	825	10,9	M 12 SW 10	40,0
812,8	808,0 - 817,0	3,2	6,5	35	139	845	935	12,8	M 12 SW 10	40,0
914,4	909,0 - 919,0	2,0	5,5	35	139	945	1035	14,0	M 12 SW 10	45,0
1016,0	1013,0 - 1019,0	2,0	5,0	35	139	1050	1140	15,2	M 12 SW 10	45,0
1117,5	1114,0 - 1120,0	2,0	4,5	35	139	1150	1240	16,4	M 12 SW 10	50,0
1219,2	1216,0 - 1222,0	2,0	4,0	35	139	1250	1340	17,7	M 12 SW 10	50,0

**References**

Subject to technical changes

- 1) **MAWP** (maximum allowable working pressure)  
is the max. admissible working pressure in shipbuilding, based on a safety factor of  $\geq 4$ .
- 2) **WP**  
is the max. working pressure in industrial applications, with a safety factor as per NORMA specification.

**NORMACONNECT® Flex 3 (326.0 – 2032.0 mm)**

**Axial non-restraint pipe coupling for use with virtually all pipe materials**

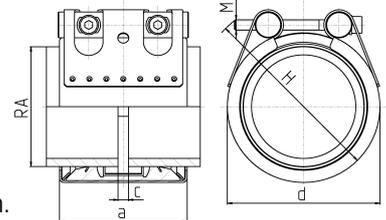
Available in **W5** material

**Seal:** EPDM or NBR

**Operating Temperatures:** EPDM and NBR -20°C to +80°C

**Test Pressure:** 1.5 x working pressure (WP)

The **Diameter Difference** between the pipes to be joined must not exceed 5 mm.



*Coupling sizes > 800 mm are in 2-part design!*

OD (mm)	Clamp. Range (mm)		WP <sup>1)</sup> (bar)	C <sub>max</sub> (mm)	Dimensions (mm)			Weight approx. (kg/pc.)	Hex socket locking bolts	
	OD <sub>min</sub>	OD <sub>max</sub>			a	d clamped app. (mm)			H app. (mm)	Thread
326,0	322,0	- 329,0	16,5	65	211	365	405	11,9	M 16 SW 14	30
355,6	352,0	- 359,0	15,5	65	211	395	435	12,4	M 16 SW 14	35
406,4	402,0	- 410,0	13,5	65	211	445	485	13,4	M 16 SW 14	35
429,0	426,0	- 431,0	12,5	65	211	465	505	13,9	M 16 SW 14	35
442,0	439,0	- 444,0	12,0	65	211	480	520	14,1	M 16 SW 14	35
457,2	454,0	- 459,0	12,0	65	211	495	535	14,4	M 16 SW 14	35
508,0	505,0	- 510,0	10,5	65	211	545	585	15,4	M 16 SW 14	35
531,0	528,0	- 534,0	10,0	65	211	570	610	15,9	M 16 SW 14	35
558,8	556,0	- 562,0	9,5	65	211	595	635	16,4	M 16 SW 14	35
609,6	606,0	- 613,0	9,0	65	211	645	685	17,4	M 16 SW 14	40
634,0	631,0	- 637,0	8,5	65	211	670	710	17,9	M 16 SW 14	40
711,2	707,0	- 715,0	7,5	65	211	750	790	19,4	M 16 SW 14	40
762,0	758,0	- 766,0	7,0	65	211	800	840	20,4	M 16 SW 14	40
812,8	808,0	- 817,0	6,5	65	211	850	890	21,4	M 16 SW 14	45
914,4	909,0	- 919,0	6,0	65	211	950	990	23,4	M 16 SW 14	45
1016,0	1013,0	- 1019,0	5,0	65	211	1055	1095	25,4	M 16 SW 14	50
1117,5	1114,0	- 1120,0	4,5	65	211	1155	1195	27,4	M 16 SW 14	50
1219,2	1216,0	- 1222,0	4,0	65	211	1255	1295	29,4	M 16 SW 14	55
1320,8	1314,0	- 1328,0	3,0	65	211	1360	1400	31,4	M 16 SW 14	55
1422,4	1415,0	- 1430,0	3,0	65	211	1460	1500	33,4	M 16 SW 14	60
1524,0	1516,0	- 1532,0	2,5	65	211	1560	1600	35,4	M 16 SW 14	60
1625,6	1617,0	- 1634,0	2,5	65	211	1665	1705	37,4	M 16 SW 14	70
1727,2	1718,0	- 1736,0	2,0	65	211	1765	1805	39,4	M 16 SW 14	70
1828,8	1819,0	- 1838,0	2,0	65	211	1865	1905	41,4	M 16 SW 14	80
1930,4	1920,0	- 1940,0	2,0	65	211	1970	2010	43,4	M 16 SW 14	80
2032,0	2021,0	- 2042,0	1,5	65	211	2070	2110	45,4	M 16 SW 14	80

**References**

Subject to technical changes

<sup>1)</sup> WP is the max. working pressure in industrial applications, with a safety factor as per NORMA specification.

pipes to be joined	[mm]	Flex	Flex E	Flex 3	Rep E from 35 mm
metal + metal	26.9 to 168.3	70 to 32 bar	70 to 32 bar	-	60 to 32 bar
	180.0 to 1219.2	50 to 7 bar	30 to 4 bar	-	30 to 4 bar
	326.0 to 2032.0	-	-	16.5 to 1.5 bar	-
plastic + plastic	26.9 to 168.3	16 bar	16 bar	-	16 bar
	180.0 to 1219.2	16 to 7 bar	16 to 4 bar	-	16 to 4 bar
metal + plastic	26.9 to 168.3	16 bar	16 bar	-	-
	180.0 to 1219.2	16 to 7 bar	16 to 7 bar	-	-

Material of seal	EPDM	NBR
<p><b>Temperature resistance</b></p>	<p>-30° to +125°            -22°F to 257°F            OD 26.9 - 168.3mm</p> <p>-20°C to + 80°C            -4°F to 176°F            OD &gt; 180mm</p>	<p>-20°C to + 80°C            -4°F to 176°F</p>
<p><b>Media resistance</b></p>	<p>Potable water            alcohols            Compressed Air</p>	<p>Water oils / fuels            (combustible)            gases</p>