1. **Double-lip sealing system**
2. **Standard strip insert**
3. **Anchoring ring**

The coupling for plastic pipes

NORMACONNECT® PLAST GRIP /PLAST GRIP E axial restraint pipe couplings are used to connect plastic pipes.

The specially designed anchoring ring, featuring flat rows of teeth, engages into the pipe surface without damaging the plastic material. The force applied is distributed evenly across the pipe surface.

Advantages at a glance

- No welding
- No adjusments to the pipes/connectors necessary
- Usable for weak plastic pipes, PP, PE

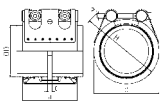
Materials

W1	W2	W3	W4	W5
	x		x	x

Information

- Sizes: 40.0 mm - 406.0 mm
- Working pressure: 16.0 - 6.0 bar
- Material: AISI 304, AISI 316 Ti
- EPDM:
  Sizes from 26.9 mm up to 168.3 mm - 30 °C up to + 125 °C
  Sizes > 180.0 mm: - 20 °C up to + 80 °C
- NBR: - 20 °C up to + 80 °C

Technical data & Ordering information



NORMACONNECT® FGR PLAST GRIP

Ø (O.D.)	Designation	Clamping ranges Odmin - Odmax	PN¹ [bar]	WP² [bar]	C max (mm)	Dimensions a (mm)	d (mm)	H (mm)	Weight approx. (kg/pc.)	Hex socket locking bolts Thread	Tightening torque (Nm)	W5 Product No. NBR	EPDM	housing wall thickn.
180.0	PLAST GRIP W5 180	178.0 - 182.0	-	16	35	142	210	240	7.6	M 12 SW 10	60	0581 8650 180	0581 8350 180	3.0 mm
200.0	PLAST GRIP W5 200	198.0 - 202.0	-	16	35	142	230	260	8.1	M 12 SW 10	60	0581 8650 200	0581 8350 200	3.0 mm
219.1	PLAST GRIP W5 219	217.0 - 222.0	-	16	35	142	250	280	8.6	M 12 SW 10	60	0581 8650 219	0581 8350 219	3.0 mm
225.0	PLAST GRIP W5 225	222.0 - 227.0	-	10	35	142	255	285	8.7	M 12 SW 10	60	0581 8650 225	0581 8350 225	3.0 mm
250.0	PLAST GRIP W5 250	247.0 - 253.0	-	10	35	142	280	310	9.4	M 12 SW 10	80	0581 8650 250	0581 8350 250	3.0 mm
273.0	PLAST GRIP W5 273	271.0 - 276.0	-	10	35	142	305	335	9.9	M 16 SW 14	100	0581 8650 273	0581 8350 273	3.0 mm
280.0	PLAST GRIP W5 280	277.0 - 283.0	-	10	35	142	310	340	10.1	M 16 SW 14	100	0581 8650 280	0581 8350 280	3.0 mm
315.0	PLAST GRIP W5 315	311.0 - 318.0	-	10	35	142	345	375	11	M 16 SW 14	100	0581 8650 315	0581 8350 315	3.0 mm
323.9	PLAST GRIP W5 323	320.0 - 327.0	-	6	35	142	355	385	11.2	M 16 SW 14	100	0581 8650 323	0581 8350 323	3.0 mm
355.0	PLAST GRIP W5 355	352.0 - 359.0	-	6	35	142	385	415	12	M 16 SW 14	120	0581 8650 355	0581 8350 355	3.0 mm
400.0	PLAST GRIP W5 400	396.0 - 404.0	-	6	35	142	430	460	13.1	M 16 SW 14	120	0581 8650 400	0581 8350 400	3.0 mm
406.4	PLAST GRIP W5 406.4	402.0 - 410.0	-	6	35	142	440	470	13.3	M 16 SW 14	120	0581 8650 406	0581 8350 406	3.0 mm

PN¹ (Nominal Pressure) is the max. admissible working pressure in shipbuilding, based on a safety factor of ≥ 4.
WP² is the max. working pressure in industrial applications, with a safety factor as per NORMA specification.

PLAST GRIP E

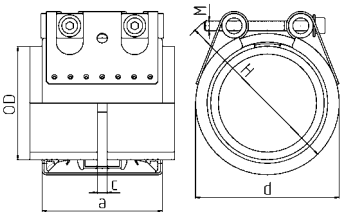
NORMACONNECT® PLAST GRIP E axial restraint pipe couplings are used to connect plastic pipes.

Advantages at a glance

- Hollow trunnion version for smaller diameters

Materials

- W5



NORMACONNECT® FGR PLAST GRIP E

Ø (O.D.)	Designation	Clamping ranges Odmin - Odmax	PN¹ [bar]	WP² [bar]	C max (mm)	Dimensions a (mm)	d (mm)	H (mm)	Weight approx. (kg/pc.)	Hex socket locking bolts Thread	Tightening torque (Nm)	W5 Product No. NBR	EPDM	housing wall thickn.
40.0	PLAST GRIP E W5 40	39.0 - 40.5	10	16	8	62	60	80	0.48	M 8 SW 6	15	0581 8660 040	0581 9360 040	1.2 mm
42.4	PLAST GRIP E W5 42	41.7 - 43.0	10	16	8	62	65	85	0.48	M 8 SW 6	15	0581 8660 042	0581 9360 042	1.2 mm
44.5	PLAST GRIP E W5 44	42.0 - 46.0	10	16	8	62	70	90	0.5	M 8 SW 6	15	0581 8660 044	0581 9360 044	1.2 mm
48.3	PLAST GRIP E W5 48	47.6 - 49.5	10	16	8	62	70	90	0.52	M 8 SW 6	15	0581 8660 048	0581 9360 048	1.2 mm
50.0	PLAST GRIP E W5 50	49.0 - 50.5	10	16	8	62	70	90	0.52	M 8 SW 6	15	0581 8660 050	0581 9360 050	1.5 mm
60.3	PLAST GRIP E W5 60	59.5 - 61.0	10	16	17	78	85	105	0.67	M 8 SW 6	20	0581 8660 060	0581 9360 060	1.5 mm
63.0	PLAST GRIP E W5 63	62.0 - 63.5	10	16	17	78	85	105	0.67	M 8 SW 6	20	0581 8660 063	0581 9360 063	1.5 mm
75.0	PLAST GRIP E W5 75	74.0 - 76.0	10	16	25	98	100	120	1.33	M 10 SW 8	30	0581 8660 075	0581 9360 075	1.5 mm
76.1	PLAST GRIP E W5 76	75.0 - 77.0	10	16	25	98	100	120	1.33	M 10 SW 8	30	0581 8660 076	0581 9360 076	1.5 mm
88.9	PLAST GRIP E W5 88	88.0 - 90.0	10	16	25	98	110	130	1.42	M 10 SW 8	30	0581 8660 088	0581 9360 088	1.5 mm
90.0	PLAST GRIP E W5 90	89.0 - 91.0	10	16	25	98	110	130	1.42	M 10 SW 8	30	0581 8660 090	0581 9360 090	1.5 mm
101.3	PLAST GRIP E W5 101	100.4 - 102.8	10	16	25	98	125	145	1.58	M 10 SW 8	30	0581 8660 101	0581 9360 101	1.5 mm
104.0	PLAST GRIP E W5 104	102.8 - 106.1	10	16	25	98	125	145	1.6	M 10 SW 8	30	0581 8660 104	0581 9360 104	1.5 mm
108.0	PLAST GRIP E W5 108	108.8 - 111.4	10	16	25	98	130	150	1.62	M 10 SW 8	30	0581 8660 108	0581 9360 108	1.5 mm
110.0	PLAST GRIP E W5 110	109.0 - 111.0	10	16	25	98	130	150	1.66	M 10 SW 8	30	0581 8660 110	0581 9360 110	1.5 mm
114.3	PLAST GRIP E W5 114	113.0 - 115.5	10	16	25	98	135	155	1.66	M 12 SW 10	40	0581 8660 114	0581 9360 114	1.5 mm
125.0	PLAST GRIP E W5 125	124.0 - 126.0	10	16	35	115	140	160	2.42	M 12 SW 10	40	0581 8660 125	0581 9360 125	2.5 mm
129.0	PLAST GRIP E W5 129	127.6 - 131.1	10	16	35	115	140	160	3.06	M 12 SW 10	40	0581 8660 129	0581 9360 129	2.5 mm
133.0	PLAST GRIP E W5 133	131.5 - 134.4	10	16	35	115	150	170	3.16	M 12 SW 10	40	0581 8660 133	0581 9360 133	2.5 mm
140.0	PLAST GRIP E W5 140	139.0 - 141.0	10	16	35	115	160	180	3.18	M 12 SW 10	50	0581 8660 140	0581 9360 140	2.5 mm
154.0	PLAST GRIP E W5 154	152.3 - 156.1	10	16	35	115	170	190	3.27	M 12 SW 10	50	0581 8660 154	0581 9360 154	2.5 mm
159.0	PLAST GRIP E W5 159	157.3 - 160.7	10	16	35	115	180	200	3.39	M 12 SW 10	50	0581 8660 159	0581 9360 159	2.5 mm
160:0	PLAST GRIP E W5 160	159.0 - 162.0	10	16	35	115	180	200	3.45	M 12 SW 10	60	0581 8660 160	0581 9360 160	2.5 mm
168.3	PLAST GRIP E W5 168	166.5 - 170.1	10	16	35	115	190	200	3.48	M 12 SW 10	60	0581 8660 168	0581 9360 168	2.5 mm

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