

Nr. 7974

Synoflex coupling

restraint multi-range connection for all kinds of pipes



Standards

Synoflex:

- According to EN 14525
- packed to prevent ingress of dirt and dust during storage acc. to EN 12351 and EN 805
- For restraint connection to PE-pipes a support liner No. 6035 is required (DN 40 - DN400: equal and higher SDR class 17, DN 450-600 for all SDR classes)

Construction features

Synoflex:

- The Synoflex socket system provides high quality restraint connections to all common water supply pipes. The patented Synoflex secures steel, DCI, PE/PVC and AC* pipes with fully corrosion protected connections
- Flexible gasket
- Flexible Synoflex grip ring
- Tension locks corrosion resistant. Each support element in the grip ring holds a tension lock element
- Bolts reversible 180°
- Angle compensation up to +/- 8° (pressure test according to EN 14525)
- Support element and grip element are pressed into one another. The grip elements does not fall off as a result of inserting or pulling the pipe out
- Warning! A restraint connection between Synoflex and asbestos cement pipes can't be confirmed. Removal of the grip ring is not necessary.

Learn more about reliable [Synoflex](#) pipe connections in our **Hawle Knowledge** blog.



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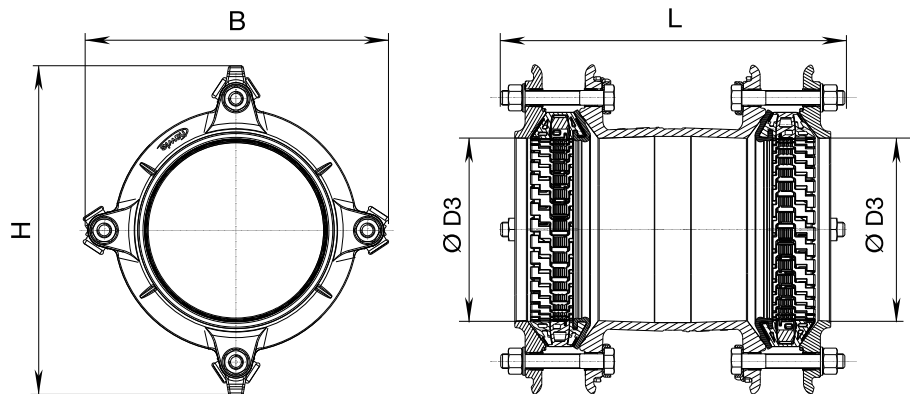
Materials

Body Lock Ring	- Ductile iron: EN-GJS 420-15 according to EN 14525 - Epoxy powder coated inside and outside: According to DIN 3476-1 and EN 14901 in due consideration of the RAL-GZ 662 quality and testing requirements: - coating thickness: min. 250 µm - zero porosity: min. 3000 V spark test - adhesion: min. 16 N/mm²
Gasket	Flexible, made of EPDM rubber acc. to EN 681-1 (suitable for potable water)
Synoflex grip ring	Flexible, made of POM support elements (9) and steel grip elements (10)
Bolts nuts	Stainless steel, minimum quality A4, coated against rubbing
Bolt head locking anchor	Steel, with protective cap made of elastomer
Spacer bush	Plastic
Support liner	Stainless steel (Support liner No. 6035)
Grip element	Steel
Support element	POM

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DN	PN	Weight	L	Socket 1					Socket 2				
				Socket 1	B	H	Ø pipe D3 min/max	Bolts	Socket 2	B	H	Ø pipe D3 min/max	Bolts
DN 40	PN16	3.94	243	40	130	157	46-58	3 x M12-80	40	130	157	46-58	3 x M12-80
DN 50	PN16	4.84	254	50	141	170	56-71	3 x M12-80	50	141	170	56-71	3 x M12-80
DN 65	PN16	5.5	264	65	156	187	71-80	3 x M12-80	65	156	187	71-80	3 x M12-80
DN 80-65	PN16	6.6	274	80	171	204	85-105	3 x M12-80	65	156	187	71-80	3 x M12-80
DN 80	PN16	6.9	270	80	171	204	85-105	3 x M12-80	80	171	204	85-105	3 x M12-80
DN 100	PN16	13	332	100	226	260	104-132	3 x M16-100	100	226	260	104-132	3 x M16-100
		10.5	312						80	171	204	85-105	3 x M12-80
DN 125-100	PN16	14.3	355	125	250	290	131-160	3 x M16-110	100	226	260	104-132	3 x M16-100
		14.9	357						125	250	290	131-160	3 x M16-110
DN 150-125	PN16	17.4	375	150	315	350	155-192	4 x M16-110	125	250	290	131-160	3 x M16-110
		20.8	367						150	315	350	155-192	4 x M16-110
200-150	PN16	16.64	361	200	326	371	198-230	6 x M16-110	100	226	260	104-132	3 x M16-100
		29.4	431						150	315	350	155-192	4 x M16-110
DN 225-200	PN16	30.2	406	225	361	410	230-260	6 x M20-130	200	326	371	198-230	6 x M16-110
		38.4	450						225	361	410	230-260	6 x M20-130
DN 250-200	PN16	41.6	429	250	408	464	265-310	6 x M20-130	200	326	371	198-230	6 x M16-110
		42.4	468						225	361	410	230-260	6 x M20-130
300-250	PN16	50.2	454	300	510	510	313-356	8 x M20-130	250	408	464	265-310	6 x M20-130
		48.6	441						250	408	464	265-310	6 x M20-130
DN350-300	PN10	61.4	473	350	550	550	352-396	12 x M20-130	300	510	510	313-356	8 x M20-130
		60	460						300	510	510	313-356	8 x M20-130
DN350-300	PN10	76.6	494	350	550	550	352-396	12 x M20-130	300	510	510	313-356	8 x M20-130

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				Socket 1	B	H	Ø pipe D3 min/max	Bolts	Socket 2	B	H	Ø pipe D3 min/max	Bolts
	PN16	145	600		592	592		12 x M20-150	350	592	592	352-396	12 x M20-150
DN400-350	PN10	94.5	526		596	596		12 x M20-130	350	550	550	352-396	12 x M20-130
	PN16	157	600	400	628	628	398-442	12 x M20-150	400	628	628	398-442	12 x M20-150
DN450	PN16	173	600	450	671	671	448-485	14 x M20-150	450	671	671	448-485	14 x M20-150
DN500	PN16	201	600	500	721	721	498-535	14 x M20-150	500	721	721	498-535	14 x M20-150
DN600	PN16	227.5	600	600	825	825	602-640	16 x M20-150	600	825	825	602-640	16 x M20-150

All illustrations, technical data, dimensions (in mm) and weights (all weights specified in kg) are non-binding. Subject to changes and printing errors