wavin

February 2015

Hot and Cold Water Systems

Product List



TIGRIS K1 = PLASTIC PRESS FITTING
TIGRIS M1 = METAL PRESS FITTING
SMARTFIX = PLASTIC PUSH-FIT FITTING

Solutions for Essentials

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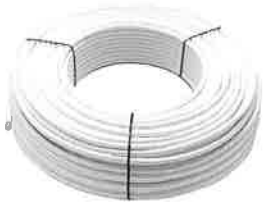
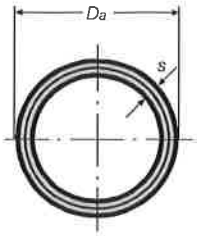
TELEPHONE:
+31(0)38 4294 951
FAX
+31(0)38 4294 950
E-MAIL
wavin.overseas@wavin.com

Product range

1. Pipes



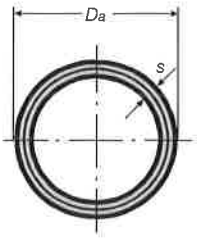


Wavin multi-layer composite pipe* in coils

Size	Product No.	Da mm	s mm	Length m/coil
16 x 2,0	0309.5452	16	2,00	100
16 x 2,0	0303.6758	16	2,00	200
20 x 2,25	0303.6766	20	2,25	100
25 x 2,5	0303.6790	25	2,50	50

*Can be used universally for plumbing and heating.





Wavin multi-layer composite pipe* in straight lengths

Size	Product No.	Da mm	s mm	Length m
16 x 2,0	0303.6804	16	2,00	5
20 x 2,25	0303.6782	20	2,25	5
25 x 2,5	0303.6812	25	2,50	5
32 x 3,0	0303.7045	32	3,00	5
40 x 4,0	0303.7053	40	4,00	5
50 x 4,5	0306.3593	50	4,50	5
63 x 6,0	0317.0334	63	6,00	5

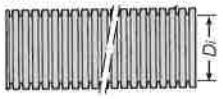
*Can be used universally for plumbing and heating.



Wavin multi-layer composite pipe In coils • For radiator connection and underfloor heating only (not for potable water)

Size	Product No.	Length m/coil
16 x 2,00	4429.6000	200
16 x 2,00	4469.5000	500



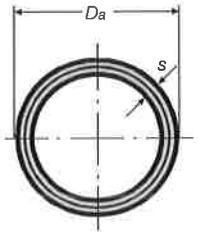


Protective conduit* • in coils

Size	Product No.	Colour	Di mm	Length m/coil
20 (16 x 2,0)	4502.0000	black	20	50
23 (20 x 2,25)	4503.9000	black	23	50
29 (25 x 2,5)	2543.7000	black	29	50
36 (32 x 3,0)	4505.5000	black	36	25

* Corrugated protective conduit in PE-HD.





Wavin multi-layer composite pipe in coils • in black conduit

Size	Product No.	Protective Tube	Da mm	Length m
16 x 2,00	0309.6904	20	24	75
20 x 2,25	0309.6912	23	28	75

For many applications it is advised to fit the pipe with a protective conduit to reduce the possibility of mechanical damage to the pipe. The layer of air between the pipe and the conduit provides additional heat insulation and protection from condensation in accordance with DIN 1988. The corrugated conduit can also be supplied separately.



Wavin multi-layer composite pipe In coils • Pre-insulated - 9 mm

Size	Product No.	Length m/coil
16 x 2,00	0309.6920	50
20 x 2,25	0309.6939	50

For tap water and heating installations.
Pipe insulation: round extruded insulation in foamed PE with co-extruded, damp-proof PE film (colour red).
9-mm insulation for cold water pipes in accordance with DIN 1988 part 2 and heating pipes in accordance with energy saving regulations.
Resistant to ageing and allows pipe to be formed into bends.
Material class: B2, in accordance with DIN 4102.
Thermal conductivity: 0.040 W/m · K.
Provides continuous sound insulation.

TELEPHONE: +31(0)38 4294 951
FAX +31(0)38 4294 950
E-MAIL wavin.overseas@wavin.com



Wavin multi-layer composite pipe
In coils • Pre-insulated - 13 mm

Size	Product No.	Length m/coil
16 x 2,00	0309.6947	50
20 x 2,25	0309.6955	50

For tap water and heating installations.
Pipe insulation: round extruded insulation in foamed PE with co-extruded, damp-proof PE film (colour red).
13-mm insulation for cold water pipes in accordance with DIN 1988 part 2 and heating pipes in accordance with energy saving regulations.
Resistant to ageing and allows pipe to be formed into bends.
Material class: B2, in accordance with DIN 4102.
Thermal conductivity: 0.040 W/m · K.
Provides continuous sound insulation.



Wavin multi-layer composite pipe
In coils • Pre-insulated - 20 mm

	Size	Product No.	Length m/coil
NEW	16 x 2,00	3039730	100
NEW	20 x 2,25	3039729	50



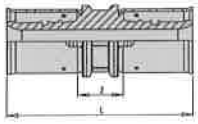
Fire protection tape BB-R90

Description	Product No.
Fire protection tape BB-R90	9050.1254

* Can also be used with other Wavin products such as Wavin AS (low noise) and Wavin PE Soil and Waste systems.

2. Fittings

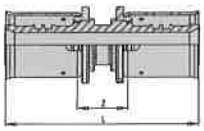




Tigris K1 • Couplings

Size	Product No.	L mm	Z mm
16	0303.6405	53	13
20	0303.6413	62	16
25	0303.6421	74	18
32	0303.6430	83	23
40	0303.6448	103	26
50	0306.2368	108	32
63	0317.0303	155	35

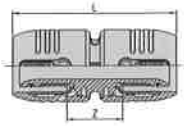




Tigris M1 • Couplings

Size	Product No.	L mm	Z mm
16	0317.0225	53	17
20	0317.0226	55	18
25	0317.0227	68	19
32	0317.0228	69	21
40	0317.0229	99	22
50	0317.0230	99	23
63	0317.0231	151	30

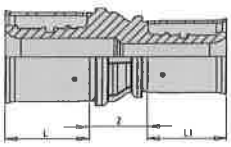




smartFIX • Couplings

Size	Product No.	L mm	Z mm
16	0313.3303	63	21
20	0313.3311	74	23
25	0313.3320	88	26



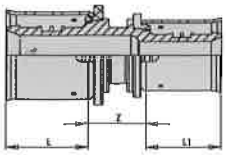


Tigris K1 • Reducers

Size	Product No.	L mm	L1 mm	Z mm
20 x 16	0303.6456	20	19	15
25 x 16	0303.6464	26	19	17
25 x 20	0303.6472	26	20	18
32 x 20	0303.6480	26	20	20
32 x 25	0303.6499	26	21	20
40 x 32	0303.6502	26	26	24
50 x 32	0306.2414	26	26	28
50 x 40	0306.2430	38	38	35
63 x 40	0317.0307	60	38	42
63 x 50	0317.0306	60	38	36

TELEPHONE: +31(0)38 4294 951
FAX +31(0)38 4294 950
E-MAIL wavin.overseas@wavin.com

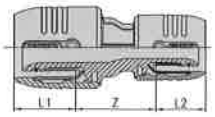




Tigris M1 • Reducers

Size	Product No.	L	L1	Z
		mm	mm	mm
20 x 16	0317.0233	19	18	18
25 x 20	0317.0235	25	19	19
32 x 25	0317.0237	24	25	20
40 x 25	0317.0238	38	25	19
40 x 32	0317.0239	39	24	20
50 x 32	0317.0241	38	24	20
50 x 40	0317.0242	38	38	21
63 x 40	0317.0243	59	39	25
63 x 50	0317.0244	59	38	25

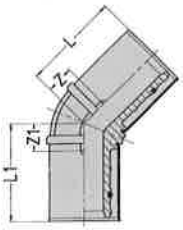




smartFIX • Reducers

Size	Product No.	L1	L2	Z
		mm	mm	mm
20 x 16	0313.3362	26	21	29
25 x 16	0313.3370	31	21	35
25 x 20	0313.3389	31	26	34

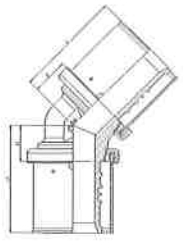




Tigris K1 • 45° elbow

Size	Product No.	L	Z
		mm	mm
25	0307.5281	36	7
32	0307.5290	38	13
40	0307.5303	60	22
50	0306.2325	62	25
63	0317.0305	87	28

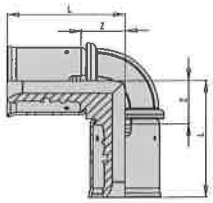




Tigris M1 • 45° elbow

	Size	Product No.	L	Z
			mm	mm
NEW	40	4032558	60	22
NEW	50	4032559	62	25
NEW	63	4032560	87	28

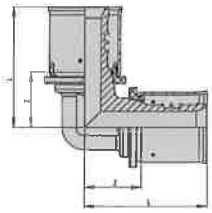




Tigris K1 • 90° elbow

Size	Product No.	L	Z
		mm	mm
16	0303.6022	31	12
20	0303.6030	33	14
25	0303.6049	43	17
32	0303.6057	47	21
40	0303.6065	71	34
50	0306.2244	77	40
63	0317.0304	106	46

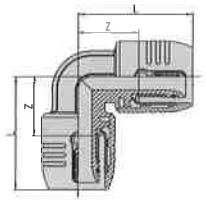




Tigris M1 • 90° elbow

Size	Product No.	L	Z
		mm	mm
16	0317.0134	35	13
20	0317.0135	38	19
25	0317.0136	47	22
32	0317.0137	50	26
40	0317.0138	71	33
50	0317.0139	76	38
63	0317.0140	107	49

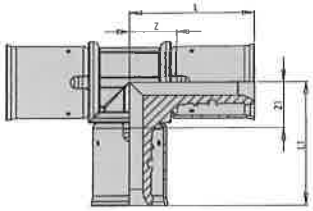




smartFIX • 90° elbow

Size	Product No.	L	Z
		mm	mm
16	0313.3397	42	21
20	0313.3400	50	24
25	0313.3419	59	28





Tigris K1 • Equal Tee

Size	Product No.	L	L1	Z	Z1
		mm	mm	mm	mm
16	0303.6200	31	31	12	12
20	0303.6219	34	34	14	14
25	0303.6227	43	43	17	17
32	0303.6235	47	47	21	21
40	0303.6243	71	71	26	26
50	0306.2341	77	77	32	32
63	0317.0308	106	106	46	46

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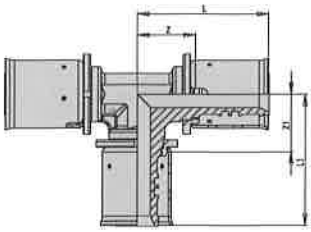
FAX +31(0)38 4294 950
E-MAIL wavin.overseas@wavin.com

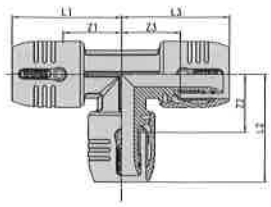




Tigris M1 • Equal Tee

Size	Product No.	L	L1	Z	Z1
		mm	mm	mm	mm
16	0317.0168	35	35	17	17
20	0317.0169	38	38	19	19
25	0317.0170	47	47	22	22
32	0317.0171	50	50	26	26
40	0317.0172	71	71	33	33
50	0317.0173	76	76	39	39
63	0317.0174	107	107	49	49

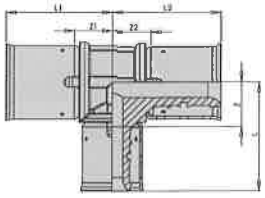




smartFIX • Equal Tee

Size	Product No.	L1-3	Z1-3
		mm	mm
16	0313.3338	42	21
20	0313.3346	50	24
25	0313.3354	59	30



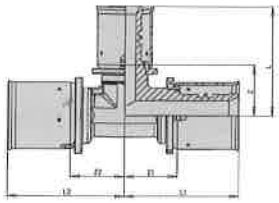


Tigris K1 • Reducing Tee

	Size	Product No.	L	L1	L2	Z	Z1	Z2
			mm	mm	mm	mm	mm	mm
	16 x 20 x 16	0307.5206	34	32	32	14	14	14
	20 x 16 x 16	0303.6251	33	33	30	14	12	11
	20 x 16 x 20	0303.6260	33	33	33	14	12	12
	20 x 20 x 16	0303.6278	35	35	32	14	14	13
	20 x 25 x 20	0307.5214	40	36	36	15	16	16
	25 x 16 x 16	0307.5222	34	38	30	16	13	12
NEW	25 x 16 x 20	3031027	35	38	32	15	10	10
	25 x 16 x 25	0303.6286	35	39	39	16	13	13
NEW	25 x 20 x 16	3031028	37	40	33	15	12	12
	25 x 20 x 20	0303.6294	37	41	35	17	15	14
	25 x 20 x 25	0303.6308	37	41	41	16	15	15
NEW	25 x 25 x 20	3031029	43	43	37	15	15	15
	25 x 32 x 25	0307.5230	42	46	46	17	21	21
	32 x 16 x 32	0303.6316	39	39	39	20	32	32
NEW	32 x 20 x 25	3031030	40	40	40	19	12	12
	32 x 20 x 32	0303.6324	41	41	41	20	15	15
	32 x 25 x 25	0303.6332	47	43	42	21	17	16
	32 x 25 x 32	0303.6340	47	43	43	21	17	17
	40 x 25 x 32	0317.0297	59	68	49	33	21	24
	40 x 25 x 40	0303.6359	59	67	67	33	30	30
	40 x 32 x 32	0303.6367	59	71	53	34	34	28
	40 x 32 x 40	0303.6375	59	71	71	34	34	33
NEW	50 x 25 x 40	3031216	63,5	67	67	38,5	29	29
	50 x 25 x 50	0306.2333	64	68	68	39	31	31
	50 x 32 x 32	0317.0302	64	72	53	39	35	28
	50 x 32 x 40	0317.0300	65	71	71	40	33	33
	50 x 32 x 50	0317.0298	65	71	71	40	34	34
	50 x 40 x 40	0317.0301	79	73	73	42	36	36
	50 x 40 x 50	0306.2350	79	73	73	41	35	35
	63 x 25 x 50	0317.0311	70	91	67	45	31	30
	63 x 32 x 63	0317.0310	71	95	95	46	35	35
	63 x 40 x 63	0317.0309	84	95	95	46	35	35

TELEPHONE: +31(0)38 4294 951
FAX +31(0)38 4294 950
E-MAIL wavin.overseas@wavin.com

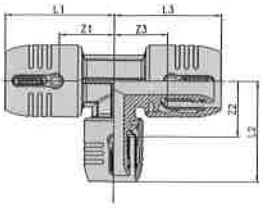




Tigris M1 • Reducing Tee

	Size	Product No.	L	L1	L2	Z	Z1	Z2
			mm	mm	mm	mm	mm	mm
	16 x 20 x 16	0317.0177	38	36	36	19	19	19
	20 x 16 x 16	0317.0178	36	36	38	19	19	19
	20 x 16 x 20	0317.0179	36	38	38	19	19	19
	20 x 20 x 16	0317.0180	38	36	38	19	19	19
	20 x 25 x 20	0317.0181	45	40	40	20	22	22
	25 x 16 x 25	0317.0184	39	45	45	21	20	20
	25 x 20 x 20	0317.0186	40	45	38	22	19	20
	25 x 20 x 25	0317.0187	40	45	45	22	20	20
	32 x 20 x 32	0317.0192	43	48	48	25	24	24
	32 x 25 x 25	0317.0194	50	47	48	20	16	17
	32 x 25 x 32	0317.0195	50	48	48	20	18	28
NEW	40 x 20 x 40	4041168	50	65	65	31	26	26
	40 x 25 x 40	0317.0198	56	65	65	26	26	26
	40 x 32 x 40	0317.0200	56	65	65	26	26	26
	50 x 40 x 50	0317.0210	76	71	71	37	33	33
	63 x 40 x 63	0317.0211	85	93	93	47	35	35
NEW	63 x 50 x 63	4034542	83	98	98	44	38	38

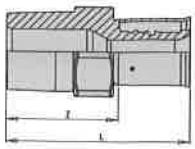




smartFIX • Reducing Tee

Size	Product No.	L	L1	L2	Z	Z1	Z2
		mm	mm	mm	mm	mm	mm
16 x 20 x 16	0316.4918	44	50	44	20	24	20
20 x 16 x 16	0313.3427	48	44	42	22	20	21
20 x 16 x 20	0313.3435	48	47	48	22	20	22
20 x 20 x 16	0313.3443	50	50	44	24	24	20
20 x 25 x 20	0316.4934	52	57	52	24	26	24
25 x 16 x 16	0316.4926	58	47	39	26	20	21
25 x 16 x 25	0313.3451	55	47	55	24	26	24
25 x 20 x 20	0313.3460	57	50	52	26	27	24
25 x 20 x 25	0313.3478	57	52	57	26	27	26

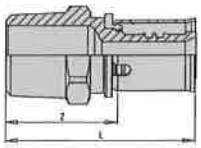




Tigris K1 • Male Transition Couplers

Size	Product No.	L mm	Z mm
16 x ½“	0303.6510	49	30
20 x ½“	0303.6529	50	30
20 x ¾“	0303.6537	55	35
25 x ¾“	0303.6545	62	36
25 x 1“	0303.6553	68	42
32 x 1“	0303.6561	68	42
32 x 1 ¼“	0303.6570	74	48
40 x 1 ¼“	0303.6588	90	53
50 x 1 ½“	0306.2465	95	57

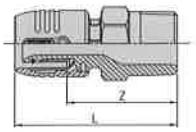




Tigris M1 • Male Transition Couplers

	Size	Product No.	L mm	Z mm
	16 x ½"	0317.0247	47	29
NEW	16 x ¾"	4032676	44	26
	20 x ½"	0317.0249	48	30
	20 x ¾"	0317.0250	51	32
	25 x ¾"	0317.0251	57	33
	25 x 1"	0317.0252	61	36
	32 x 1"	0317.0253	61	37
	32 x 1 ¼"	0317.0254	63	39
NEW	40 x 1 ¼"	4032683	79	42
	40 x 1 ½"	0317.0255	79	42
	50 x 1 ½"	0317.0256	79	25
	63 x 2"	0317.0257	108	50

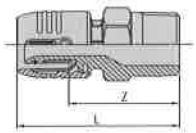




smartFIX • Male Transition Couplers

Size	Product No.	L mm	Z mm
16 x ½"	0313.3613	60	39
20 x ½"	0313.3621	66	40
20 x ¾"	0313.3630	71	45

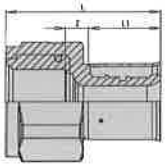




smartFIX • Male Transition Couplers • Metal

Size	Product No.	L mm	Z mm
16 x ½"	0313.3648	60	39
20 x ½"	0313.3656	66	40
20 x ¾"	0313.3664	71	45
25 x ¾"	0313.3672	78	47
25 x 1"	0313.3680	84	53



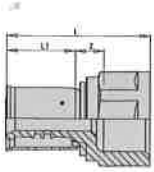


Tigris K1 • Female Transition Couplers

	Size	Product No.	L mm	L1 mm	Z mm
	16 x ½"	0303.6596	43	19	9
	20 x ½"	0303.6600	44	20	10
	20 x ¾"	0303.6618	47	20	11
NEW	20 x 1"	3031057	51	20	11
	25 x ¾"	0303.6626	54	26	12
	25 x 1"	0316.4933	58	26	12
NEW	25 x 1 ¼"	3031058	68	26	18
	32 x 1"	0303.6634	58	26	13
	40 x 1 ¼"	0307.5265	77	44	13

TELEPHONE: +31(0)38 4294 951
FAX +31(0)38 4294 950
E-MAIL wavin.overseas@wavin.com

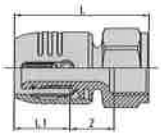




Tigris M1 • Female Transition Couplers

	Size	Product No.	L mm	L1 mm	Z mm
	16 x ½“	0317.0259	41	18	10
NEW	16 x ¾“	4041973	42	18	11
	20 x ½“	0317.0260	42	19	10
	20 x ¾“	0317.0262	44	19	11
	25 x ¾“	0317.0263	50	25	11
NEW	25 x 1”	4032692	58	25	13
	32 x 1“	0317.0266	58	24	16
NEW	32 x 1 ¼“	4032695	60	24	13
NEW	40 x 1”	4041974	77	38	18
	40 x 1 ½“	0317.0268	77	38	19
	50 x 1 ½“	0317.0270	75	38	17
	63 x 2“	0317.0271	102	59	20

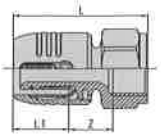




smartFIX • Female Transition Couplers

Size	Product No.	L mm	L1 mm	Z mm
16 x ½“	0316.8295	56	21	20
20 x ½“	0316.8296	62	26	21
20 x ¾“	0316.8297	65	26	21
25 x ¾“	0316.8298	72	31	21
25 x 1“	0316.8299	75	31	21

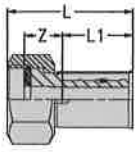




smartFIX • Female Transition Couplers • Metal

Size	Product No.	L mm	L1 mm	Z mm
16 x ½“	0313.3699	56	21	20
20 x ½“	0313.3702	62	26	21
20 x ¾“	0313.3710	62	26	21
25 x ¾“	0313.3729	84	31	21
25 x 1“	0313.3737	84	31	21



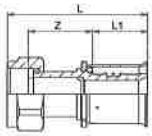


Tigris K1 • Female Threaded Connections*

Size	Product No.	L mm	L1 mm	Z mm
16 x ¾“	0303.6642	40	19	12
20 x ¾“	0303.6650	41	20	12
20 x 1 ½“	0314.2159	45	20	14
25 x 1“	0303.6669	50	26	14
25 x 1 ½“	0314.2140	51	26	15
32 x 1 ¼“	0303.6677	51	26	15
32 x 1 ½“	0314.2132	71	26	15
40 x 1 ½“	0303.6685	72	39	22
50 x 2 3/8“	0306.2503	83	39	26

Gives detachable screw connections for surface-mounted connection to fittings.
*with flat sealing washer.



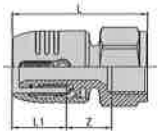


Tigris M1 • Female Threaded Connections*

	Size	Product No.	L mm	L1 mm	Z mm
NEW	16 x ½“	4032700	46	19	19
NEW	20 x ½“	4032703	55	20	27
NEW	20 x ¾“	4032704	51	20	21
NEW	25 x ¾“	4041979	52	26	22
NEW	25 x 1”	4032706	59	26	22

*with flat sealing washer.





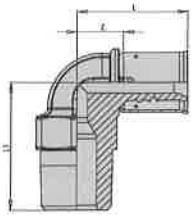
smartFIX • Female Threaded Connections*

Size	Product No.	L mm	L1 mm	Z mm
16 x ¾“	0313.3800	50	21	30
20 x ¾“	0313.3818	63	26	37

*with flat sealing washer.

TELEPHONE: +31(0)38 4294 951
FAX +31(0)38 4294 950
E-MAIL wavin.overseas@wavin.com

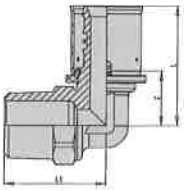




Tigris K1 • Transition elbow 90° Male

Size	Product No.	L	L1	Z
		mm	mm	mm
16 x ½"	0303.6073	33	38	14
20 x ½"	0307.5338	34	41	15
20 x ¾"	0303.6081	37	45	18
25 x ¾"	0303.6090	44	47	18
32 x 1"	0303.6103	49	57	23

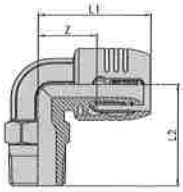




Tigris M1 • Transition elbow 90° Male

	Size	Product No.	L	L1	Z
			mm	mm	mm
	16 x ½"	0317.0142	36	30	19
	20 x ½"	0317.0143	37	32	19
	20 x ¾"	0317.0144	40	33	21
	25 x ¾"	0317.0145	47	35	23
NEW	25 x 1"	4041977	51	40	23
	32 x 1"	0317.0146	51	42	27
NEW	40 x 1 ¼"	4041978	72	50	34
NEW	50 x 1 ½"	4041157	80	56	41
NEW	63 x 2"	4041166	108	70	49

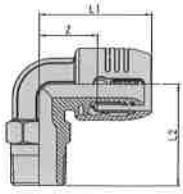




smartFIX • Transition elbow 90° Male*

Size	Product No.	L1	L2	Z
		mm	mm	mm
16 x ½"	0313.3486	43	40	22
20 x ½"	0313.3494	50	41	24
20 x ¾"	0313.3508	50	46	24
25 x ¾"	0313.3516	59	49	28



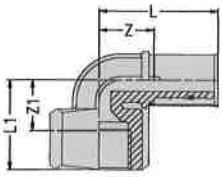


smartFIX • Transition elbow 90° Male • Metal

Size	Product No.	L1	L2	Z
		mm	mm	mm
16 x ½"	0313.3524	43	40	22
20 x ½"	0313.3532	50	41	24
20 x ¾"	0313.3540	50	46	24
25 x ¾"	0313.3559	59	47	28

Tigris K1 • Transition elbow 90° Female

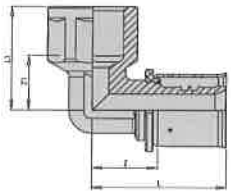




Size	Product No.	L	L1	Z	Z1
		mm	mm	mm	mm
16 x ½“	0303.6111	38	33	19	18
20 x ½“	0303.6120	39	35	19	20
20 x ¾“	0303.6138	42	38	22	21
25 x ¾“	0303.6146	49	40	23	23
32 x 1“	0303.6154	55	47	29	28

Tigris M1 • Transition elbow 90° Female

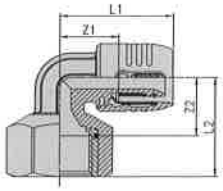




	Size	Product No.	L	L1	Z	Z1
			mm	mm	mm	mm
	16 x ½“	0317.0148	39	30	21	17
	20 x ½“	0317.0149	40	32	21	18
	20 x ¾“	0317.0150	44	31	25	17
	25 x ¾“	0317.0151	49	33	25	18
NEW	25 x 1”	4041975	53	33	25	18
	32 x 1“	0317.0152	54	39	30	22
NEW	40 x 1 ¼”	4041976	74	41	35	23
	40 x 1 ½“	0317.0153	79	45	40	26
	50 x 1 ½“	0317.0154	79	50	41	31
NEW	63 x 2”	4041156	108	66	49	40

smartFIX • Transition elbow 90° Female

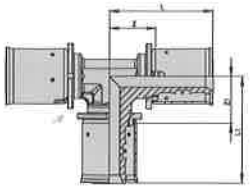




Size	Product No.	L	L1	Z	Z1
		mm	mm	mm	mm
Plastic					
16 x ½”	0313.3567	43	22	36	20
20 x ½“	0313.3575	50	24	38	22
20 x ¾“	0313.3583	50	24	41	24
Metal					
25 x ¾“	0313.3591	62	28	40	24
25 x 1“	0313.3605	64	28	42	26

TELEPHONE: +31(0)38 4294 951
FAX +31(0)38 4294 950
E-MAIL wavin.overseas@wavin.com

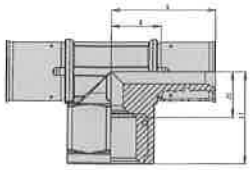




Tigris M1 • Threaded Tee - Male

Size	Product No.	L	L1	Z
		mm	mm	mm
16 x ½“ x 16	0303.6383	36	30	15
20 x ½“ x 20	0307.5249	37	32	15
20 x ¾“ x 20	0303.6391	40	33	17

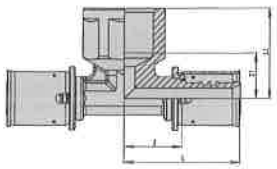




Tigris K1 • Threaded Tee - Female

Size	Product No.	L	L1	Z	Z1
		mm	mm	mm	mm
16 x ½“ x 16	0303.6383	38	33	19	18
20 x ½“ x 20	0307.5249	38	35	19	19
20 x ¾“ x 20	0303.6391	42	38	22	21
25 x ½“ x 25	0314.5085	49	40	23	23
25 x ¾“ x 25	0307.5257	49	40	23	23

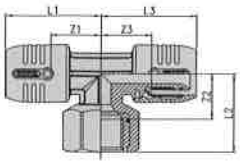




Tigris M1 • Threaded Tee - Female

	Size	Product No.	L	L1	Z	Z1
			mm	mm	mm	mm
	16 x ½“ x 16	0317.0212	39	30	21	17
	20 x ½“ x 20	0317.0213	40	32	21	18
	20 x ¾“ x 20	0317.0214	44	31	25	17
	25 x ½“ x 25	0317.0215	46	31	21	17
	25 x ¾“ x 25	0317.0216	49	33	25	18
NEW	32 x ½” x 32	4041167	48	33	24	20
	32 x 1“ x 32	0317.0217	54	39	25	22
NEW	40 x ¾” x 40	4041980	62	39	30	28
	40 x 1“ x 40	0317.0218	69	42	31	25
	50 x 1“ x 50	0317.0219	71	45	32	28
	63 x 2” x 63	0317.0220	110	62	51	39

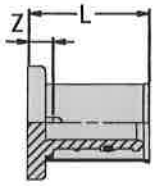




smartFIX • Threaded Tee - Female

Size	Product No.	L	L1	L2	Z	Z1	Z2
		mm	mm	mm	mm	mm	mm
16 x ½“x 16	0313.3745	42	36	42	21	20	21
20 x ½“x 20	0313.3753	50	38	50	24	22	24
20 x ¾“x 20	0313.3761	50	41	50	24	23	24

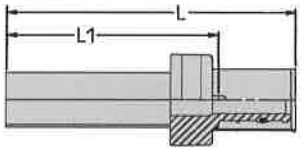




Tigris K1 • End stoppers

Size	Product No.	L mm	Z mm
16	0313.2510	33	12
20	0313.2528	38	12
25	0313.2340	44	14





Tigris K1/M1 • Press-fit transitions to copper, steel and stainless steel

	Size	Product No.	L mm	Z1 mm
	16 x 15	0313.2277	66	43
	20 x 15	0316.0955	74	45
	20 x 18	0313.2285	76	46
NEW	20 x 22	4037451	74	47
	25 x 22	0313.2293	80	49
	25 x 28	0316.8434	93	63

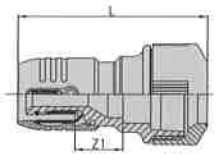
No soldering! For copper-side pressing, the specifications of the copper fitting manufacturer with respect to press shape, pressing jaws and drive machines must be followed.



Tigris K1/M1 • Push-fit transitions to copper and Hep2O PB pipe

Size	Product No.
16 x 15	3052945
20 x 22	3052946
25 x 22	3052947
25 x 28	3052948
32 x 28	3052949



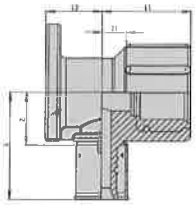


smartFIX • Push-fit transitions to copper and Hep2O PB pipe

Size	Product No.	L mm	Z1 mm
16 x 15	0313.3834	11	59
20 x 22	0313.3842	18	75
25 x 28	0316.4942	18	89

TELEPHONE: +31(0)38 4294 951
FAX +31(0)38 4294 950
E-MAIL wavin.overseas@wavin.com

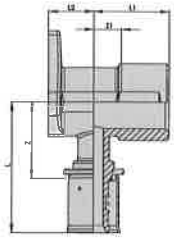




Tigris K1 • 90° Female wall plate elbow

Size	Product No.	L	L1	L2	Z	Z1
		mm	mm	mm	mm	m
16 x ½“	0303.6162	38	30	20	21	16
20 x ½“	0303.6170	39	20	20	26	18
20 x ¾“	0303.6189	42	19	19	27	18

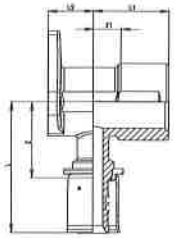




Tigris M1 • 90° Female wall plate elbow

	Size	Product No.	L	L1	L2	Z	Z1
			mm	mm	mm	mm	m
	16 x ½“	0317.0158	46	26	16	28	13
	20 x ½“	0317.0160	47	28	18	29	15
	20 x ¾“	0317.0161	47	29	18	29	15
NEW	25 x ¾”	4042087	51	29	26	29	15

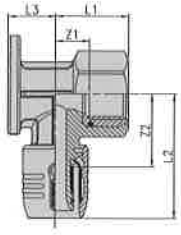




Tigris M1 - Extended Female wall plate elbow

	Size	Product No.	L	L1	L2	Z	Z1
			mm	mm	mm	mm	m
NEW	16 x ½”	4032587	47	36	16	28	23
NEW	20 x ½”	4041169	48	34	18	29	21

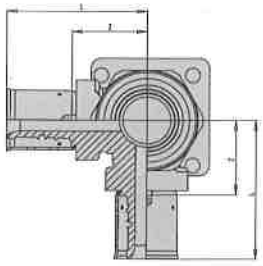




smartFIX • 90° Female wall plate elbow

Size	Product No.	L1	Z1	L2	Z2	L3
		mm	mm	mm	mm	m
Plastic						
16 x ½“	0313.3770	33	12	50	30	18
20 x ½“	0313.3788	30	14	56	31	20
20 x ¾“	0313.3796	33	17	60	35	20



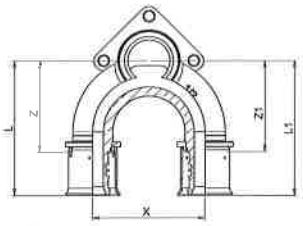


Tigris K1 • 90° Female Double wall plate elbow

Size	Product No.	L	Z
		mm	mm
16 x ½“ x 16	0306.3500	42	23
20 x ½“ x 20	0306.3518	40	19

For fitting connections.
Single/multiple fixing of the wall plate elbow to the retaining plate with self-tapping screws:
4.2 x 13 mm (without sound insulation)
4.2 x 19 mm (with sound insulation)





Tigris M1 • 180° Female Double wall plate

	Size	Product No.	L mm	Z mm
NEW	16 x ½" x 16	4032590	59	40
NEW	20 x ½" x 20	4032591	60	41



Tigris Inline Circulation Connection Kit

	Size	Product No.
NEW	40 x 32 mm	3040808
NEW	50 x 32 mm	3040819

Only on project specific request.
Other dimensions possible.

Tigris Inline Circulation Pipe PE-Xc

	Size	Product No.	Length
NEW	8 mm	4041209	100
NEW	12 mm	4041208	100



Tigris Inline Circulation Fitting

	Size	Product No.
NEW	1" x ¾" for 8 mm PE-Xc-pipe	4041206
NEW	1 ½" x ¾" for 12 mm PE-Xc-pipe	4041207



Soundinsulation • for wall plate

	Size	Product No.
NEW	Tigris M1 double wall plate female 180° 16 x ½"	4041218
NEW	Tigris M1 wall plate female 16 x ½"	4041219
NEW	Tigris M1 wall plate female 20 x ¾"	4041220
NEW	Tigris K1 wall plate female 16 x ½"	4041220
NEW	smartFIX wall plate female 16 x ½"	4041220

* From EPDM.

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E-MAIL wavin.overseas@wavin.com



Tigris K1 • Retaining plates for washstand

Type	Product No.	Actual dimension
76,5	0313.8879	76,5
153	0313.8887	153*

*Galvanised, 1.5 mm.

Inc. 2 pre-installed 16 mm x ½" Female wall plate elbows and sound insulation. Inc. retaining point for wastewater pipe DN40 and wall fixing set. In the case of dry construction systems, additional fixings must be used and the specifications of the system manufacturer must be observed.

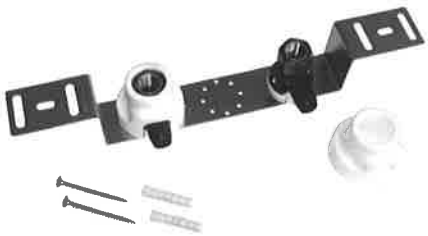


Tigris K1 • Retaining plates for baths or shower trays

Type	Product No.	Actual dimension
153/76,5	0313.8895	153

* Galvanised, 1.5 mm.

Inc. 2 pre-installed 16 mm x ½" Female wall plate elbows and sound insulation. Inc. wall fixing set. In the case of dry construction systems, additional fixings must be used and the specifications of the system manufacturer must be observed.



smartFIX • Retaining plates for baths or shower connections

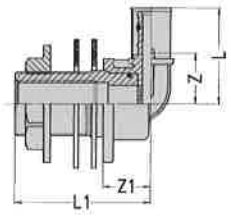
Type	Product No.
153/76,5	0314.6316



Tigris M1 • Retaining plates for baths or shower connections

	Type	Product No.
NEW	153/16 x ½"	4037392
NEW	153/20 x ½"	4037415



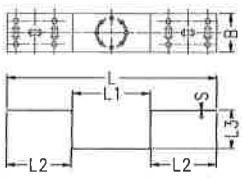


Tigris K1 • 90° Female wall plate elbow for dry wall construction*

	Size	Product No.	L	L1	Z	Z1
			mm	mm	mm	mm
NEW	16 x ½" 39 mm	3023502	43	60	23	21
NEW	16 x ½" 48 mm	3023535	43	68	23	21
NEW	16 x ½" 59 mm	3023503	43	80	23	21

* Adjustable with cap nut and sound insulation inserts for different wall thicknesses





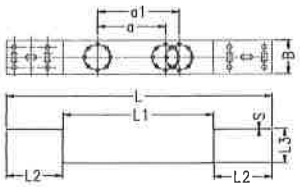
Single retaining plates

Description	Product No.	L	L1	L2	Z	Z1	Z2
		mm	mm	mm	mm	mm	mm
Single retaining plates	0303.6820	270	100	85	50	50	2

In steel, galvanised. For Wavin Tigris K1 / Tigris M1 / smartFiX wall plate elbows.
In the case of dry construction systems, additional fixings are required and the specifications of the system manufacturer must be observed.

Fix the wall plate elbows with self-tapping screws:
4.2 x 13 mm (with no sound insulation)
4.2 x 19 mm (with sound insulation)





Multiple retaining plates

Typ	Product No.	L	L1	L2	L3	B	S	a	a1
		mm	mm	mm	mm	mm	mm	mm	mm
76,5/153	0303.6839	423	253	85	50	50	2	76,5	153
100/120	0303.6847	390	220	85	50	50	2	100	120

In steel, galvanised. For Wavin Tigris K1 / Tigris M1 / smartFiX wall plate elbows.
In the case of dry construction systems, additional fixings are required and the specifications of the system manufacturer must be observed.

Fix the wall plate elbows with self-tapping screws:
4.2 x 13 mm (with no sound insulation)
4.2 x 19 mm (with sound insulation)

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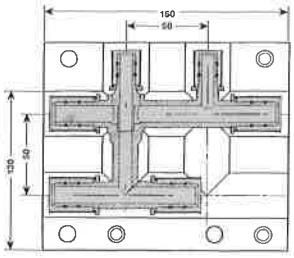
FAX +31(0)38 4294 950
E-MAIL wavin.overseas@wavin.com





Height = 50 mm

Tigris K1 • Junction fitting

Size	Product No.
16 x 16 x 16	0309.7021
20 x 16 x 16	0309.7048
20 x 16 x 20	0309.7030
20 x 20 x 16	0314.7592

Enables radiator connections without visible junctions, inc. insulation box consisting of top and bottom sections in expanded polypropylene (WLG = 035) with 13 mm insulation. Complies with the requirements of the energy saving regulation in the area of pipe junctions and wall openings.



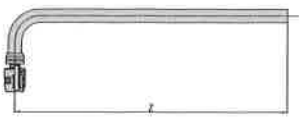


Tigris K1 • Radiator connection pipes*

Type	Product No.	Z mm	L mm
16/300	0311.5364	-	300

* Angle with 15 x 1.0 mm integrated, nickel-plated copper pipe for connecting radiators.

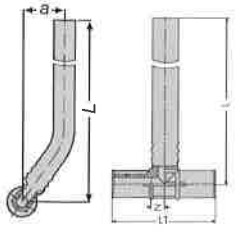




smartFIX • Radiator connection pipes

Size	Product No.	Z mm
16 x 15/300	0313.3826	300



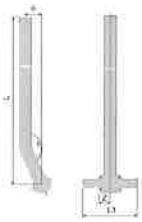


Tigris K1 • Radiator T connection*

Type	Product No.	Z mm	a mm	L mm	L1 mm
16/300	0312.6005	12	29	300	62
20/300	0312.6021	12	30	300	74

* T-piece with 15 x 1.0 mm integrated, nickel-plated, offset copper pipe for connecting radiators.

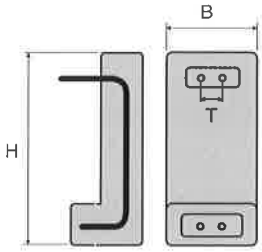




smartFIX • Radiator T connection

Size	Product No.	L mm	L1 mm	a mm	z mm
16 x 15 / 300	0314.7428	300	84	29	12



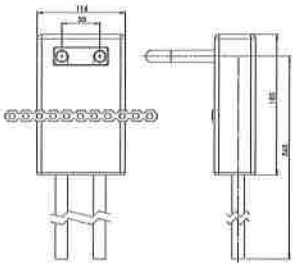


Radiator connecting block

Type	Product No.	H mm	B mm	T mm
16	0311.8452	240	110	50

Radiator connecting curve in Wavin Tigris pipe 16 x 2.00 mm; Pipe spacing 50 mm horizontal, 200 mm vertical; suitable for all common valve radiators; Insulation box in neopor (WLG035), 100% compliant with energy saving regulation.





Radiator connecting block

Type	Product No.	H mm	B mm	T mm
Vario	0314.5255	565	116	50

Radiator connecting curve in Wavin Tigris pipe 16 x 2.00 mm;
Pipe spacing 50 mm horizontal, for variable connection heights; suitable for all common valve radiators; Insulation box in neopor (WLG035), 100% compliant with energy saving regulation.



Tigris K1 • Radiator assembly fittings for the wall

Type	Product No.
16 x 15 / 230	0316.8859

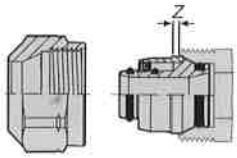


Tigris K1 • Radiator assembly fittings for the floor

Type	Product No.
16 x 15 / 330	0316.8840

TELEPHONE: +31(0)38 4294 951
FAX +31(0)38 4294 950
E-MAIL wavin.overseas@wavin.com





Tigris K1 • Female Threaded connections "EUROCONE"*

Size	Product No.	Z mm
16 x ¾"	4887.9000	2
20 x ¾"	4200.5000	2

* For Tigris K1 heating fittings with ¾" male thread (Eurocone).



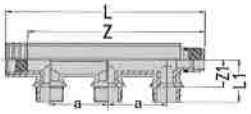
Tigris K1/Tigris M1/smartFIX • Stop-ends

Size	Product No.
16	0309.7056
20	0309.7064
25	0309.7072

Reusable stopper for pressure testing Wavin multi-layer composite pipe in accordance with DIN 1988 part 2 and DIN 18380.

3. Plastic Manifolds and Accessories

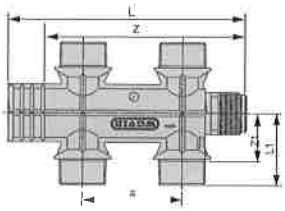




Plumbing and heating manifolds
• **Single-sided**

Size	Product No.	L	L1	Z	Z1	a
		mm	mm	mm	mm	mm
2-port	0306.1817	133	39	112	26	55
3-port	0306.1833	188	39	167	26	55

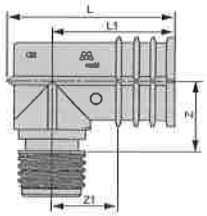




Plumbing and heating manifolds
• **Double-sided**

Size	Product No.	L	L1	Z	Z1	a
		mm	mm	mm	mm	mm
4-port	0313.5829	135	39	110	26	55

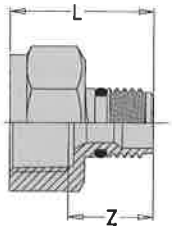




Manifold elbow

Size	Product No.	L	Z	L1	Z1
		mm	mm	mm	mm
90°	0313.5853	59	18	38	16
270°	0313.5861	59	18	38	16





Manifold threaded transition fitting - female*

Size	Product No.	L	Z
		mm	mm
¾"	0306.1850	45	29

* For ¾" threaded transitions on alternative pipe systems.

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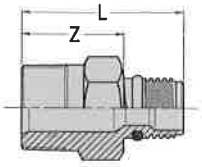
FAX +31(0)38 4294 950
E-MAIL wavin.overseas@wavin.com





Manifold threaded transition fitting - male*

Size	Product No.	L mm	Z mm
¾"	0308.2946	57	34
1"	0308.2954	62	40

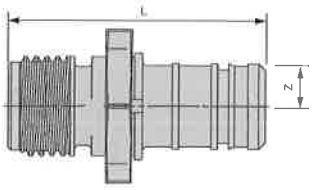
For ¾" and 1" threaded transitions on alternative pipe systems



smartFIX • Manifold couplers

Size	Product No.	L mm	Z mm
20	0316.4950	58	8
25	0316.4969	64	10

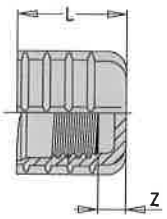




Tigris K1 • Manifold couplers

Size	Product No.	L mm	Z mm
20	0313.9336	58	8
25	0313.9344	61	8
32	0313.9352	67	8

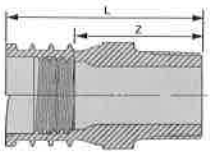




Manifold caps

Description	Product No.	L mm	Z mm
Manifold caps	0306.1868	28	7

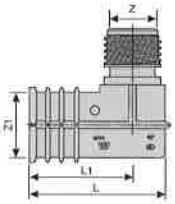




Threaded manifold connector

Type	Product No.	L mm	Z mm
¾"	0313.5845	59	41

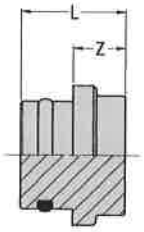




Tigris K1 • 90° manifold connecting elbow

Type	Product No.	L mm	Z mm	L1 mm	Z1 mm
¾" inlet	0313.5837	58	21	42	25



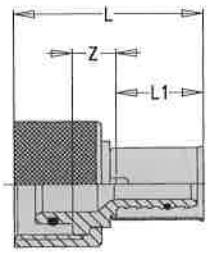


Manifold stoppers*

Description	Product No.	L mm	Z mm
Manifold stoppers	0307.5273	18	9

* For manifold outlet.





Tigris K1 • Manifold outlet adapter*

Size	Product No.	L mm	L1 mm	Z mm
16	0306.7190	46	21	11
20	0306.7203	52	27	11

* Includes cap nut for connecting Wavin Tigris multi-layer composite pipes.

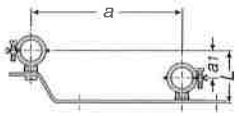


smartFIX • Manifold outlet adapter*

Size	Product No.	L mm	L1 mm	Z mm
16	0316.4977	42	24	10
20	0316.4985	63	30	15

* Includes cap nut for connecting Wavin Tigris multi-layer composite pipes.





Manifold holders*

Description	Product No.	L mm	L1 mm	Z mm
Manifold holders	4803.8000	210	38	73

* In steel, galvanised.
For PPSU manifolds, consisting of a fixing rail with two pipe clamps including sound insulation insert.

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FAX +31(0)38 4294 950
E-MAIL wavin.overseas@wavin.com

4. Tools and Accessories



Battery Press tool ACO202

	Description	Product No.
NEW	Battery Press tool ACO202	4046766

For perfect connections of Wavin Tigris K1/M1 press-fittings. Packed in a plastic case including battery and charger, without press jaws.



Electro-Hydraulic press tool ECO202

	Description	Product No.
NEW	Electro-Hydraulic press tool ECO202	4046767

Zur einwandfreien Herstellung von Wavin Tigris-K1-/ M1-Pressverbindungen. Verpackt in einem Kunststoffkoffer, ohne Pressbacken.



Battery Press tool "Mini" ACO102

	Description	Product No.
NEW	Battery Press tool "Mini" ACO102	4046765

For perfect connections of Wavin Tigris K1/M1 press-fittings. Packed in a plastic case including battery and charger, without press jaws. Suitable for dimensions 16-40 mm.



Spare battery • for battery press tool ACO202

	Description	Product No.
NEW	Spare battery 1,5 Ah for ACO202	4046768
NEW	Spare battery 3,0 Ah for ACO202	4046769



Spare battery • for battery press tool "Mini" ACO102

	Description	Product No.
NEW	Spare battery 1,5 Ah for ACO102	4046770
NEW	Spare battery 3,0 Ah for ACO102	4046771



Battery charger 230 V for ACO202

	Description	Product No.
NEW	Battery charger 230 V LGL 1 for ACO202	4046772



Battery charger 230 V for "Mini" ACO102

	Description	Product No.
NEW	Battery charger 230 V LGL 1 for ACO102	4046773



Tigris K1/M1 • Pressing jaws

	Size	Product No.
NEW	16	4046691
NEW	20	4046694
NEW	25	4046695
NEW	32	4046756
NEW	40	4046758
NEW	50	4046759
NEW	63	4035779

Pressing jaws to use with press tools ACO202, ECO202, UAP3L and UNP2.



Tigris K1/M1 • Pressing jaws for the "Mini" ACO102

	Size	Product No.
NEW	16	4046556
NEW	20	4046557
NEW	25	4046558
NEW	32	4046559
NEW	40	4046560

TELEPHONE: +31(0)38 4294 951
FAX +31(0)38 4294 950
E-MAIL wavin.overseas@wavin.com



Case for pressing jaws 16 - 32 mm

	Description	Product No.
NEW	Case for pressing jaws 16 – 32 mm	3024362

* With room for each pressing jaw 16, 20, 25 and 32 mm. Without pressing jaws.



Hand pressing tool

	Size	Product No.
NEW	16/20*	0305.2842
NEW	16 mm insert	0305.2850
NEW	20 mm insert	0305.2869

* Basic tool without inserts.
For perfect connections of Wavin Tigris K1 press-fittings from 16 mm to 20 mm. Packed in a metal case.



Tigris • Pipe cutter Inc. hold function

	Description	Product No.
	Pipe cutter 16 – 25 mm inc. hold function	0317.0497
NEW	Replacement blade for pipe cutter	4037386



Tigris • Pipe cutter

Description	Product No.
Pipe cutter 16 – 63 mm	4485.7000
Replacement blade for pipe cutter	5097.0000



Tigris • Handle for calibrating pin

Description	Product No.
Power click handle for calibrating pin	0313.2552



Tigris • Handle for calibrating pin

Description	Product No.
Power click handle for calibrating pin	0317.0489



Tigris • Calibrating pin*

Size	Product No.
16	0305.3083
20	0305.3091
25	0305.3105
32	0305.3113

* Can also be used with battery screwdriver.



Tigris • Calibrating pin

Size	Product No.
40	0316.8808
50	0316.8816
63	0317.0365



Tigris • Star calibrator

Description	Product No.
Star calibrator 16, 20, 25 mm	0316.8382



Tigris • Calibrating set*

Description	Product No.
Wavin calibrating set 16 – 32 mm	0313.2544

* In case, inc. handle.



Tigris • Calibrating set with pipe cutter

Description	Product No.
Calibrating set with pipe cutter	0314.8351

TELEPHONE: +31(0)38 4294 951
FAX +31(0)38 4294 950
E-MAIL wavin.overseas@wavin.com



Tigris • Internal bending spring

Size	Product No.
16	4829.1000
20	7137.4000
25	4831.3000



Tigris • External bending spring

Size	Product No.
16	0313.2447
20	0313.2463
25	0313.2471

External bending spring to create curves up to 90° in Wavin multi-layer composite pipe.



Tigris • Bending pliers

Size	Product No.
16/20/25	0313.2455

Bending pliers to create pipe curves up to 90° in the Wavin multi-layer composite pipes of sizes 16, 20 and 25 mm. Light, handy device, includes bending templates and case. Weight: approx. 3.6 kg (complete set)



Tigris • Pipe bending tool

	Size	Product No.
NEW	16	4043224
NEW	20	4043225

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Hot and Cold Water Systems

Product List



Wavin has an extensive range of plastic pipe systems for the following market segments:

- **Drinking water supply**
  - hot & cold water systems
  - water supply systems
- **Waste water discharge**
  - soil & waste systems
  - sewer systems
- **Storm water management**
- **Other systems**
  - telecom
  - pipeline renovation
  - gas supply systems

Wavin provides effective solutions for essential needs of daily life: safe distribution of drinking water; sustainable management of rainwater and waste water; energy-efficient heating and cooling for buildings. Wavin's European leadership, local presence, commitment to innovation and technical support, all benefit our customers. We consistently achieve the highest sustainability standards and ensure total reliability of supply to support our customers to achieve their objectives.

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Wavin Overseas B.V.
Stationsplein 3, 8011 CW
P.O. Box 173, 8000 AD ZWOLLE
The Netherlands

Phone: +31(0)38 - 4294 951
Fax: +31(0)38 - 4294 950
E-mail: wavin.overseas@wavin.com

www.wavinoverseas.com

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Solutions for Essentials

CONNECT TO BETTER

Wavin Tigris K1

press-fit system for metal plastic pipes



Wavin Tigris K1 is the complete press-fit system for metal plastic (multilayer) pipes. The system can be used for sanitary (including potable water) and heating applications. Tigris K1 are blue press fittings with a fixed stainless steel sleeve. The press fitting is made of PPSU (polyphenylene sulphone) and guarantees corrosion resistance for the entire pipe system including the connections.

The Defined Leak Function (DLF) brings extra safety where it identifies unpressed fittings during the pressure test.

Wavin Tigris K1 offers a complete range in the dimensions 16, 20, 25, 32, 40, 50 and 63 mm. An extensive range of fittings, accessories and tools completes this hot and cold system. Wavin Tigris K1 can also be combined with the Tigris M1 and smartFIX system.

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Quality requirements

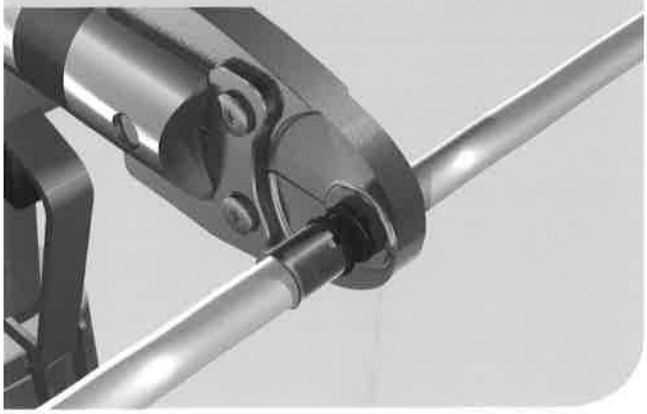
Wavin Tigris K1 meets all requirements in accordance with ISO 21003 (class 2 and 5) standards. The system has been tested and approved by the DVGW (DVGW DW – 8501AU2286) and carries a wide set of national approvals as well.

System benefits

- **Defined Leak Functionality (DLF)**
  Fitting will leak if not pressed
- **Reduced push-in force**
  Patented sculptured (hexagonal) nose reduces push-in force significantly
- **Pipe retention of 2 meters**
  The sculptured (hexagonal) fitting nose improves pipe retention. An unpressed fitting will retain a 2 meter length of vertical pipe with no risk of it falling out. The installer can locate and bring the pressing tool without needing to hold the pipe in place.
- **Free of encrustation, corrosion resistance**
  Outstanding resistance to corrosion and encrustation from aggressive water supplies.

Other features

- Quick, easy and safe assembly by proven press technique
- Minimised linear expansion
- Visual connection check through observation window in the sleeve
- Visual check whether fitting is pressed or not
- 3-in-1 concept: 1 metal plastic pipe for 3 fittings (Tigris M1, Tigris K1, smartFIX)
- Compatibility with universal press tools
- Special threaded transition fittings



Product specifications

Raw material pipe
5-layer composite pipe with oxygen-diffusion barrier. Inner layer made of crosslinked polyethylene (PE-X); middle layer of aluminium and outer layer of PE.

Raw material fittings
Fitting body made of polyphenylene sulphone (PPSU), fixed stainless steel pressing sleeve. Transition fittings are made from De-Zincification Resistant Brass.

Wall thickness pipe (mm)

DN	Wall thickness	DN	Wall thickness
16	2.0	40	4.0
20	2.25	50	4.5
25	2.5	63	6.0
32	3.0		

Hot water resistance	100° C short term loading, 95° C long term loading (max. 6 bar).
Max. permanent operating	10 bar (at Tmax = 70° C)

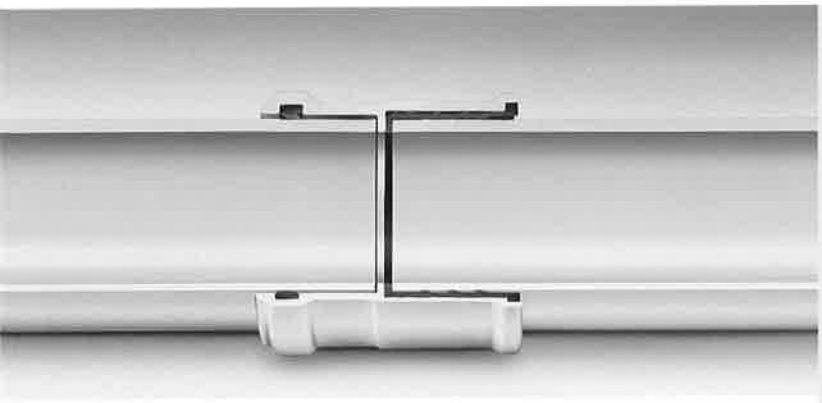
Thermal expansion coefficient (pipe)
0.025 – 0.030 mm/mK

Thermal conduction (pipe)	0.4 W/mK
Pipe roughness	0,007mm

Applications

The Wavin Tigris K1 system is suitable for hot and cold water applications as well as radiator heating systems in residential, public and industrial buildings. Because of a wide range of fittings with clever solutions for special problems, the systems are optimally suited not only for new buildings but also for renovation of older systems.





Quality requirements

Wavin AS pipes and fittings are continually subject to strict quality controls according to DIN Certco in Berlin and have been awarded DIBt buildings' inspection approval (DIBt Z-42.1-228). Other examples of certified approvals are:

- Australia: Watermark Nr.: WM 74530 / WM 74526.
- UK: LABC System Approval, Cert. No. 377-9-7038. Tested in accordance with BS EN 1451.

Product specifications

Raw material Astolan® (Polypropylene, mineral reinforced)

Density g/cm³ 1,9 for pipes and fittings (DIN 53479)

Wall thickness

DN (mm)	Wall thickness (mm)	Mass per unit area kg m³
56	4.0	7.60
70	4.5	8.55
90	4.5	8.55
100	5.3	110.07
125	5.3	110.07
150	5.3	110.07
200	6.2	11.78

Jointing method Push-fit; socketed fittings and compensator sockets for lateral expansion.

Hot water resistance 95°C short term loading
90°C long term loading
(DIN 1986, DIN 12056)

Chemical resistance pH 2 – 12

Linear expansion ~ 0.09 mm/mK

Fire classification DIN 4102-B2 / EN 13501-1

Applications

The system is designed for professional wastewater installations in, primarily multiple-storey buildings and can be installed in the following fields of application: single waste or drain pipes, collector pipes, stack pipes, ventilation pipes, rain stack pipes and underground pipes up to the inspection chamber.

System benefits

- **Best in class low-noise performance**
  Suitable even for the most demanding applications.
- **Sound check support tool**
  Unique tool to calculate the sound emission of your drainage system.
- **Complete system**
  Design with confidence and no compromise in performance.
- **The solution in fire protection**
  Meets latest regulations such as EN13501-1.
- **Easy installation**
  Reduced weight compared to cast iron, easy to handle.
- **Secure connections**
  Proven and reliable push-fit jointing system.
- **Unique sealing ring**
  The elastomeric seal is made from vulcanized Styrene Butadiene Rubber (SBR) in conformity with DIN EN 10 204:2004.
- **Corrosion and chemical resistance**
  Robust solution for all waste water applications in residential and commercial buildings, including hot and/or greasy waste water.
- **Smooth interior, free of incrustations**
  Eliminates flow restrictions and ensures optimum drainage performance.



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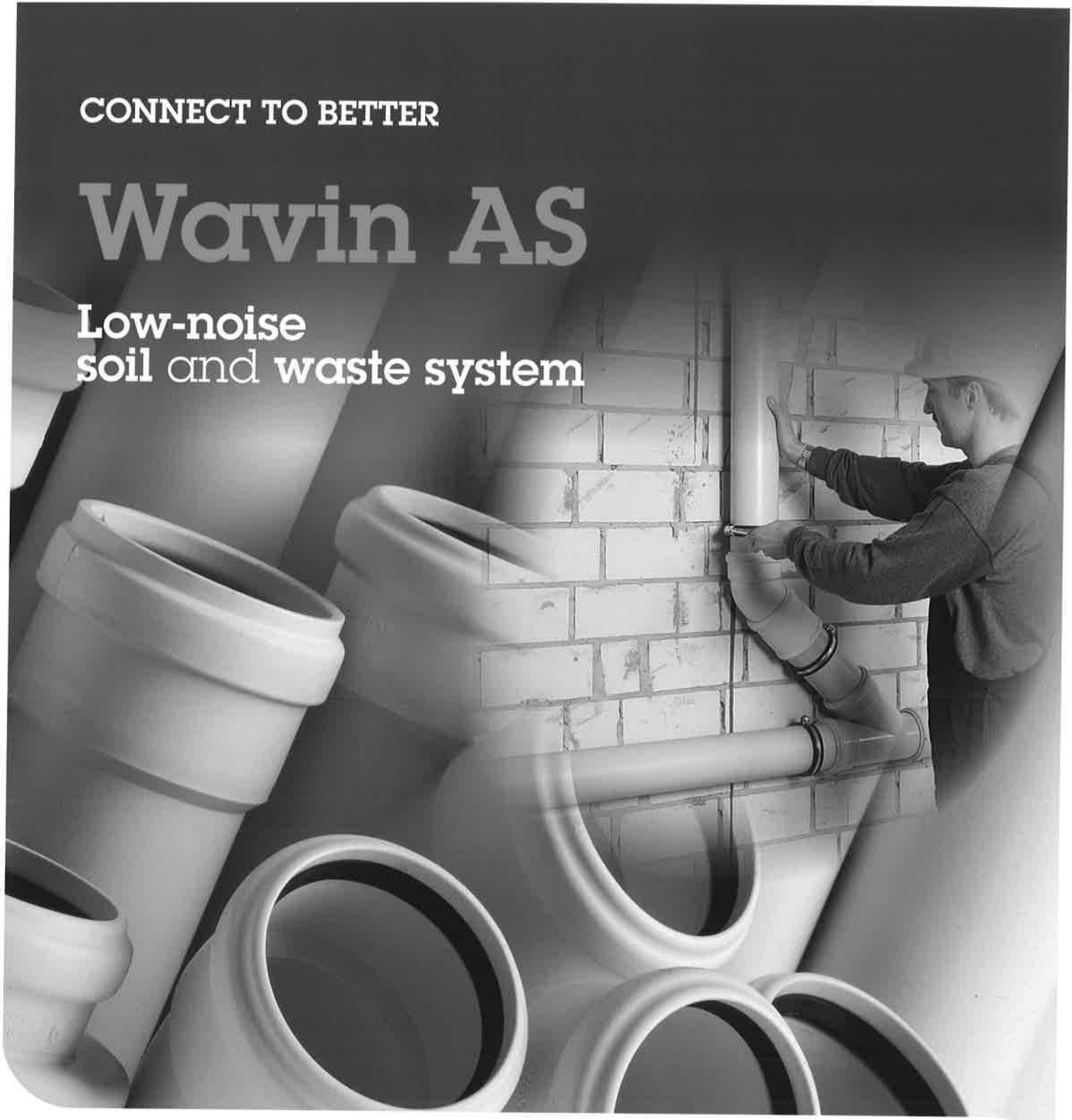
Wavin AS

Low-noise soil and waste system



Sound is an important factor in designing the interior of buildings. Reducing sound in a building's soil and waste system is a challenge that the Wavin AS system can easily deal with. Wavin AS is the complete low-noise soil and waste system made of Astolan®.

Astolan has a special molecular structure and is especially developed to dampen sound. With Wavin AS the noise levels inside buildings can be reduced to an absolute minimum.

Wavin AS is the plastic alternative to cast iron, achieving improved sound reduction performance with a lower weight, and easier to install solution. The combination of Astolan material and Wavin know-how utilises material density, wall thickness and system design to make the Wavin AS system unique and best in class.

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