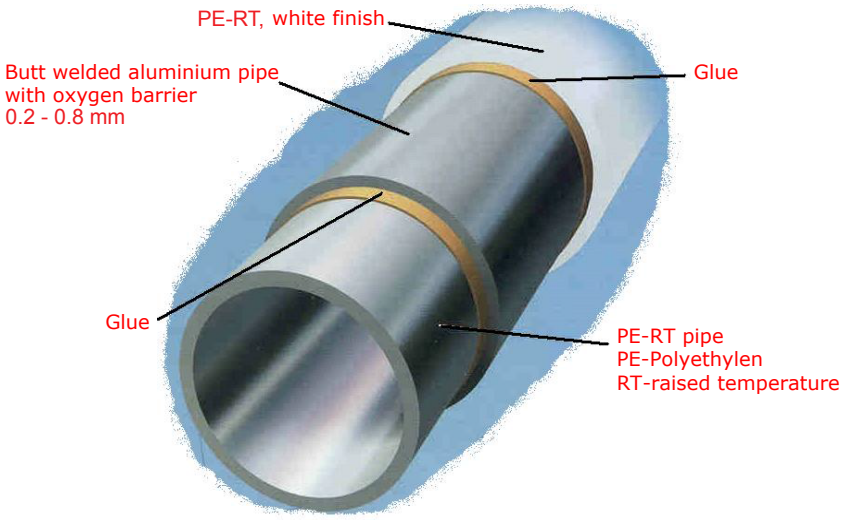
HERZ PIPEFIX

Pipes and fittings

Data sheet for PIPEFIX, Issue 0919

Pipes



Plastic composite pipe PE-RT TYPE II / AL/ PE-RT TYPE II, multilayer pipe for complex installation tasks in heating, air conditioning and sanitary installations. System tested with HERZ PIPEFIX press and screw fittings or connectors. Delivered in coils or rods.

Pipe Ø x wall thickness [mm]	Aluminium thickness [mm]	PE-RT TYPE II / AL/ PE-RT TYPE II pipe coil	PE-RT TYPE II / AL/ PE-RT TYPE II pipe rod
10x1,3	0,2	3 **C101** 30	-
16x2	0,4	3 **C160** 20	3 **C160** 34
16x2	0,2	3 **D160** 20	-
20x2	0,4	3 **C200** 20	3 **C200** 34
20x2	0,25	3 **C200** 30	-
26x3	0,5	3 **C260** 30	3 **C260** 35
26x3	0,35	3 **C260** 40	-
32x3	0,5	3 **C320** 30	3 **C320** 35
40x3,5	0,5	3 **C400** 30	3 **C400** 36
50x4,0	0,6	-	3 **C500** 40
63x4,5	0,8	-	3 **C630** 45

Technical specification

Maximal operation temperature	70 °C-90 °C depending on the application class
Maximal operation termperature (max.1 year)	95 °C
Emergency operation temperature (max. 100 h)	100 °C
Maximal operation pressure	8-10 bar depending on the dimension
Maximal operation pressure (max. 1 year)	12 bar
Thermal conductivity	0,47 W/mK
Internal surface roughness	0,007 mm
Co- efficient of linear expansion	0,023 mm/(mK)
Oxygen permeability	<0,1 g/m³d

Certificates

- ÖNORM EN ISO 21003
Application class 1, Tmax = 80 ° C, Max. Permissible operating pressure pD = 10bar
Application class 2, Tmax = 80 ° C, Max. Permissible operating pressure pD = 10bar
Application class 4, Tmax = 70 ° C, Max. Permissible operating pressure pD = 10bar
Application class 5, Tmax = 90 ° C, Max. Permissible operating pressure pD = 10bar (in DN 40 pD = 8bar)
- ÖVGW W 1.379
- DVGW DW - 8501BN0454

Plastic composite pipe PE-RT TYPE II / AL/ PE-RT TYPE II, with insulation

Pipe Ø x wall thickness [mm]	Aluminium thickness [mm]	Insulation thickness [mm]	Order number
16x2	0,4	6	3 C160 06
20x2	0,4	6	3 C200 06
26x3	0,5	6	3 C260 06
32x3	0,5	6	3 C320 06
16x2	0,4	9	3 C160 09
20x2	0,4	9	3 C200 09
26x3	0,5	9	3 C260 09
32x3	0,5	9	3 C320 09
16x2	0,2	6	3 D160 06
20x2	0,25	6	3 D200 06
26x3	0,35	6	3 D260 06
16x2	0,2	9	3 C160 44
20x2	0,25	9	3 D200 09
26x3	0,35	9	3 D260 09
16x2	0,2	13	3 D160 13
20x2	0,25	13	3 D200 13
26x3	0,35	13	3 D260 13

Technical specification

Maximal operation temperature	70 °C-90 °C depending on the application class
Maximal operation termperature (max.1 year)	95 °C
Emergency operation temperature (max. 100 h)	100 °C
Maximal operation pressure	8 - 10 bar depending on the dimension
Maximal operation pressure (max. 1 year)	12 bar
Thermal conductivity	0,47 W/mK
Internal surface roughness	0,007 mm
Co- efficient of linear expansion	0,023 mm/(mK)
Oxygen permeability	<0,1 g/m³d
Insulation LDPE foam with PE coating	
Thermal conductivity	0,04 W/mK
Fire classification according DIN 4102	B1
Reaction to fire EN 13501-1	foam: Bls1d0; foam with coating: Cls1d0
Water vapor diffusion number DIN 52615	μ ≥ 16000
Outer casing white, black lettering	

Plastic Composite Pipe PE-RT, Type II “Pipe in pipe” in protective tube

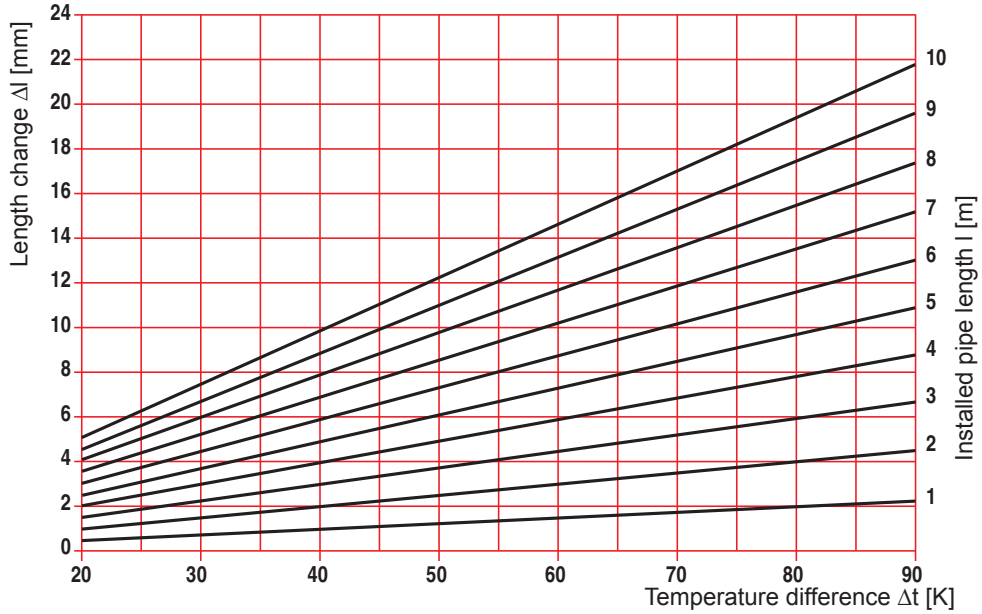
Pipe Ø x wall thickness [mm]	Aluminium thickness [mm]	Order number
16x2	0,4	3 C160 33
20x2	0,4	3 C200 33
16x2	0,2	3 C160 42
20x2	0,25	3 C200 40

Thermal expansion

The linear expansion coefficient, independent of the pipe size, totals 0,023 mm/mK.
The length change between installation and operating temperature may be calculated using the following formular.

$$\Delta l = a \times l \times \Delta t$$

Δl ... length change
a ... Expansion coefficient [0,023 mm/m°K]
l ... Installed pipe length [m]
Δt ... Temperature difference between installation and operating temperature



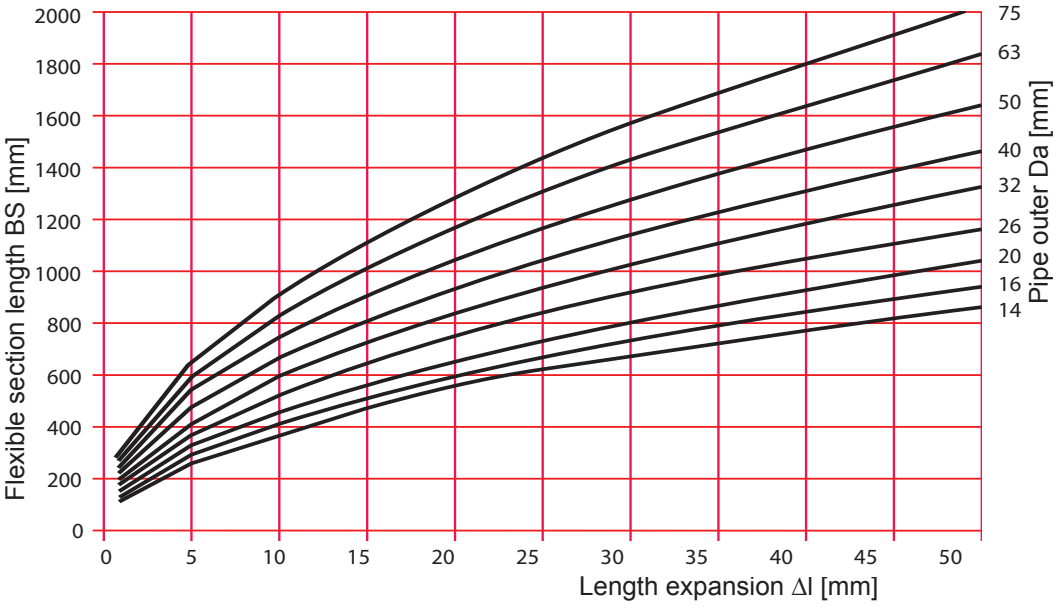
Pipe expansion is compensated by professional installation

Expansion section and fixing intervals

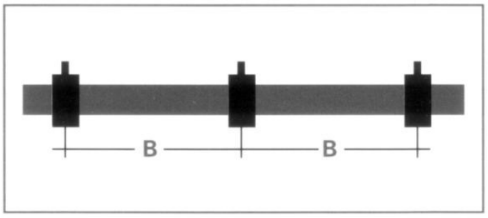
With normally installed pipes or „Pipes in pipe“ installations, sufficient flexible sections must be left to compensate the expansion. When installing buried or under screed (underfloor heating) pipes, the expansion is recorded as radial. The flexible section can be calculated as follows.

$$BS = c \times \sqrt{Da \times \Delta l}$$

c ... 33, (dimensionless material constants)
Da ... outer diameter of the pipe
Δl ... length change

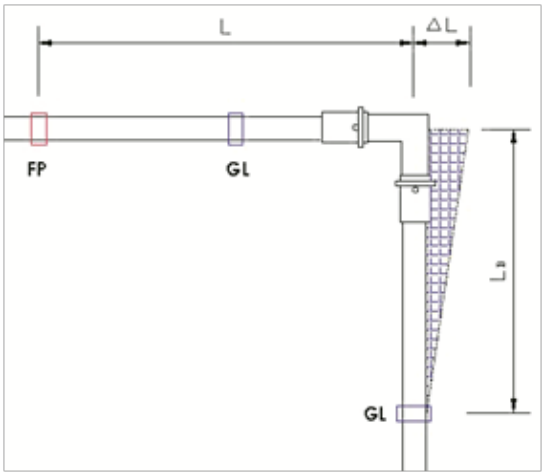


Loose laid pipes do not require any supports, such as clips, clamps, etc. due to their stable shape. The support intervals can be found in the table below. Plastic or metal pipe clamps should have a soft lining of rubber or another soft material, in order to avoid damage to the pipe and to reduce noise transmission.

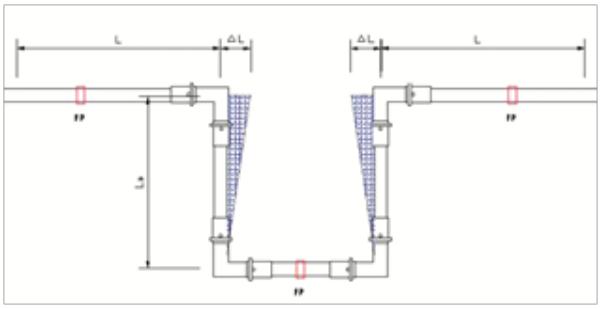


Dimension [mm]	Support Interval B [m]	Dimension [mm]	Support Interval B [m]
14	0,8	32	1,6
16	0,8	40	1,7
20	1	50	1,8
26	1,2	63	2

The arrangement of fixed points and sliding supports is very important when installing, so that sufficent flexible section are available. Fittings (elbows, T's etc.) are recommended for changes in direction, for pipe sizes DN 32 and above they must be utilised. The pipe expansion can be halved by around 50% by pre-stressing the pipes.



Pipe expansion for directional charges, flexible section to be calculated using the diagram



Inclusion of the pipe expansion in long pipes, including expansion through U-bends, flexible sections by calculation or from the diagram

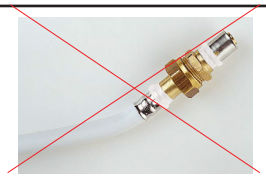
Bending radius

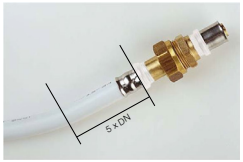
The pipe can be bent using a bending tool such as an inner or outer spring, or the usual bending tools or by hand. the minimum bending radius must always be adhered to. For DN 32 pipes or larger, fittings must always be used.

d Ø	Radius with bending tool [mm]	Radius without bending tool [mm]
10	20	50
14	28	70
16	32	80
18	36	90
20	40	100
26	130	260
32 - 63	HERZ PipeFix elbows	HERZ PipeFix elbows

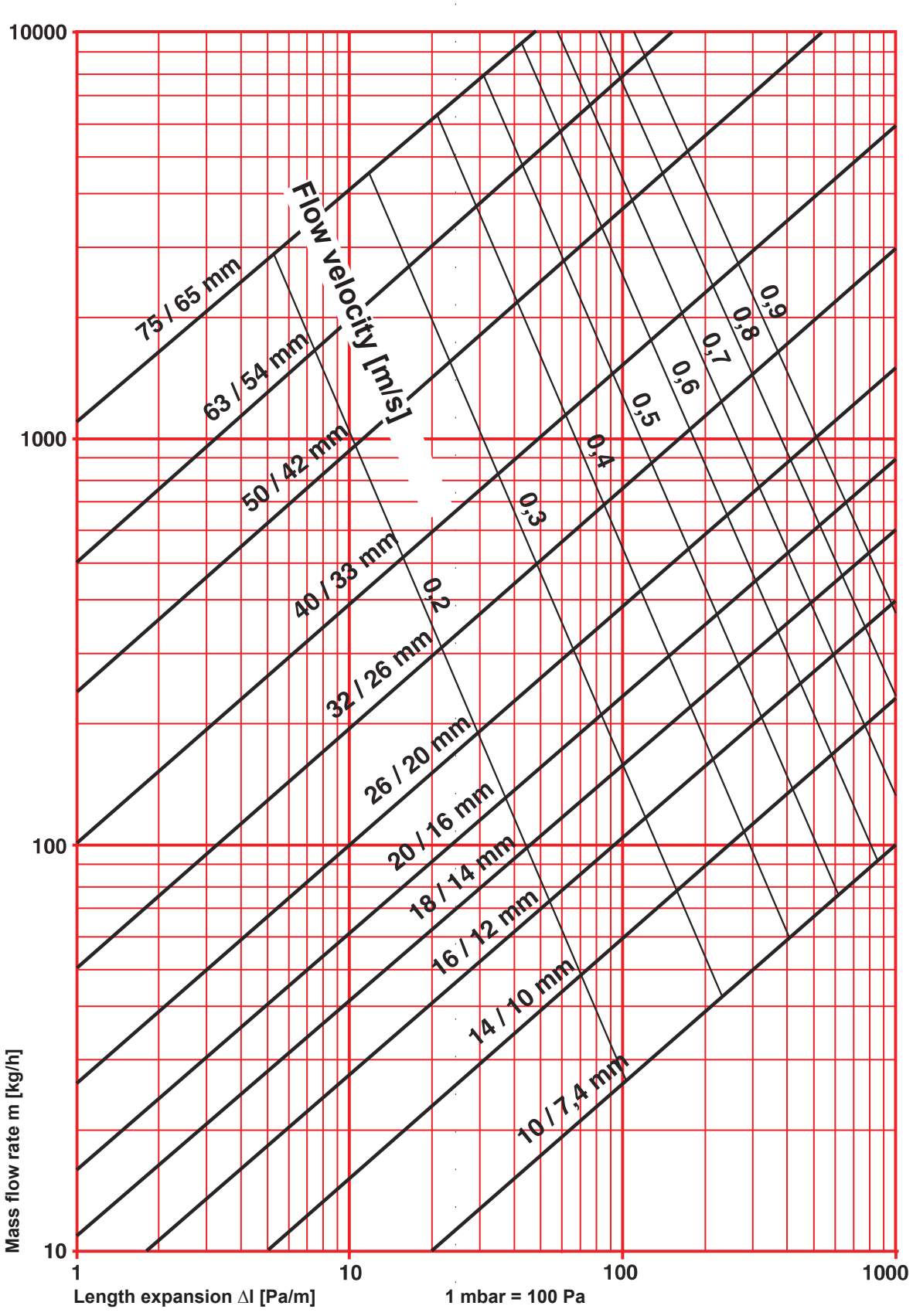
For a working environment temperature less than +5°C there is an increased risk of the pipe snapping or kinking during bending. For bending pipes under +5°C the relevant part of the pipe must be warmed up.

Pipe bends after a press fitting or clip must have a section of pipe 5 x DN between fitting and bend in order to avoid damage to the pipes. Where there are creases in the piping these sections must always be changed.



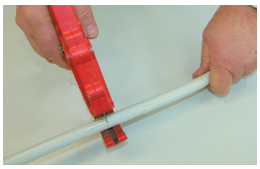


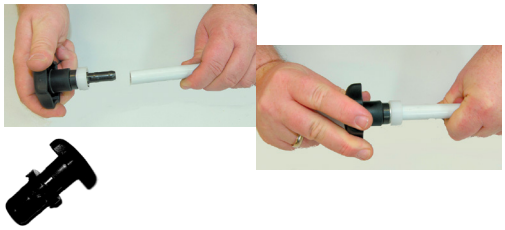
Pipe friction loss diagram



Processing of HERZ pipes with HERZ fittings

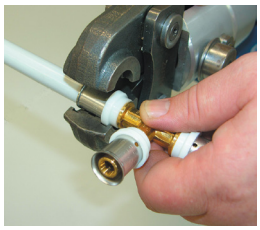
The tube is cut to length at right angles with suitable tool. Suitable tools are commercial available pipe sears, pipe cutters and hacksaws.

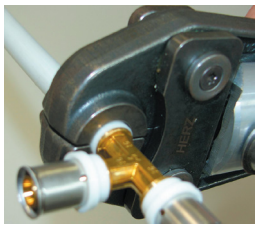




The pipe is trimmed and calibrated with a special tool suitable for its diameter. The resulting shavings must be removed from the end of the pipe. If the calibrator is fixed in a drilling machine, the maximum revolutions of 10rpm must not be exceeded.

Placing the fitting on the pipe.
Check the correct pipe engagement through the vision ports on the press sleeve - the pipe must have fully engaged on the fitting and be visible in the ports.

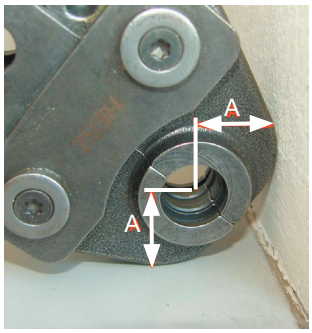


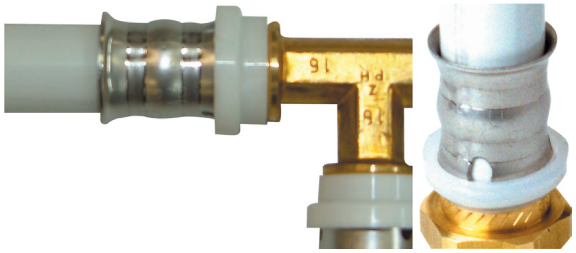


Complete pressure sealing using a press device or manual press pliers. The pipes must be free of stress. The press procedure is complete if the jaws have been closed completely.

Press tools are precision tools and should be handled accordingly. HERZ PipeFix is pressed using the profile „TH“, so that the usual tools (hand press device, accupress device, etc.) can be used. Small „A“ intervals to the wall or floor are possible.

d Ø	A [mm]	d Ø	A [mm]	d Ø	A [mm]
10	25	20	30	40	40
14	25	26	30	50	70
16	25	32	40	63	70





Checking the pressure sealing:
On the side of the press sleeves you can see two parallel, ring-shaped grooves with a bulge between them.

Non-detachable connections such as press fittings can be buried after installation (See local or national legislation for confirmation). Press connections are prohibited from being buried in floors in the District heating company of Vienna (Vienna‘s remote heating programme) area. To avoid corrosion to the fittings there must be galvanic separation from the concrete or masonry using moisture insulation. This insulation can, for example, be carried out using heat shrinking materials or corrosion protection tape. In case, compatibility with the pipe material and fitting must be checked.

It is imperative that the stated pipe diameter and pipe wall thickness are adhered to when processing

Connection resistance								
Pipe dim.	Pipe bend	Angles	T-piece flow re-direction one-way (1 into 2)	T-piece flow mixer (2 into 1)	T-piece flow re-director two-way (1 into 2)	T-piece flow collec-tion (2 into 1)	Passage piece	wall an-gles
	Values in equivalent pipe lengths in m							
14	0,70	1,50	1,30	1,60	1,70	1,70	1,00	1,40
16	0,60	1,40	1,20	1,50	1,60	1,60	0,90	1,30
18	0,55	1,20	0,90	1,40	1,50	1,50	0,70	1,20
20	0,50	1,10	0,60	1,30	1,40	1,40	0,50	1,10
26	0,40	1,00	0,50	1,20	1,30	1,30	0,40	-
32	0,30	0,80	0,30	1,00	1,10	1,10	0,30	-
40	0,26	0,76	0,28	0,95	1,00	1,00	0,26	-
50	0,22	0,72	0,26	0,90	0,95	0,95	0,22	-
63	0,18	0,70	0,24	0,85	0,90	0,90	0,18	-

To simplify the pipe network calculation the resistance values of the fittings are given in equivalent pipe lengths. These pipe lengths are to be found in the above table and are added to the length of the pipe network when calculating the pipe network.

$$\Delta p_g = R \times l + Z + \Delta p_v$$

Δp_g ...	Total pressure loss in the heating circuit
R ...	Pressure loss per running m of pipe [Pa/m]
l ...	Pipe length in meter
Z ...	Sum of the individual resistances
Δp_v ...	Pressure losss of the heating circuit ther mostatic valves

Fittings

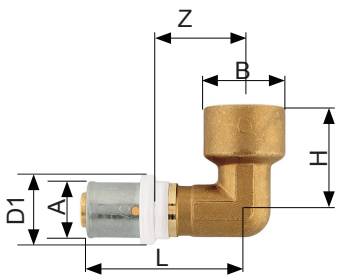
Technical specification

Maximal operation temperature	70 °C - 90 °C depending on the application class
Maximal operation termperature (max.1 year)	95 °C
Emergency operation temperature (max. 100 h)	100 °C
Maximal operation pressure	8 - 10 bar depending on the dimension
Maximal operation pressure (max. 1 year)	12 bar
Min. temperature, °C	-20 °C (when mounting: 0 ° C; with special precautions -10 °C)
Operating time	50 years (@ T ≤ 70 °C)

- Press contour: TH, machine manufacturer: REMS (in the delivery program)
- Axial force pressing machine: standard: 34 kN, mini tools: 24 kN
- Material fitting: drinking water CW725R or PPSU (green ring), heating CW602N (white ring)
- Material compression sleeve: stainless steel.

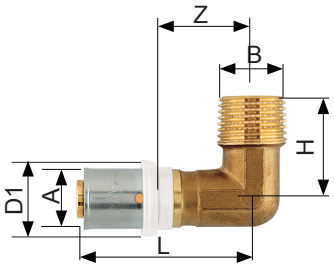
HERZ Angle with internal thread

Order number	A, mm	B, in	L, mm	H, mm	D1, mm	Z, mm
P 7114 21	14 x 2	1/2	53	34	21	29
P 7116 21	16 x 2	1/2	44	34	23	20
P 7118 21	18 x 2	1/2	53	34	25	29
P 7120 21	20 x 2	1/2	50	34	27	20
P 7120 22	20 x 2	3/4	52	45	27	28
P 7126 22	26 x 3	3/4	56	45	33	32
P 7132 23	32 x 3	1	55	49	29	31
P 7140 24	40 x 3,5	1¼	55	55	47	31
P 7150 24	50 x 4	1¼	76	63	57	40
P 7150 25	50 x 4	1½	76	63	57	40
P 7163 26	63 x 4,5	2	83	70	70	47

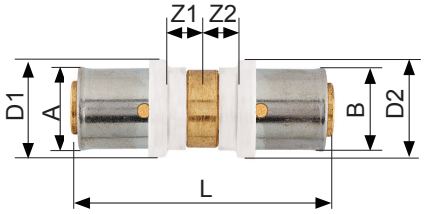


HERZ Angle with external thread

Order number	A, mm	B, in	L, mm	H, mm	D1, mm	Z, mm
P 7114 11	14 x 2	1/2	53	34	21	29
P 7116 11	16 x 2	1/2	44	34	23	20
P 7118 11	18 x 2	1/2	53	34	25	29
P 7120 11	20 x 2	1/2	50	34	27	20
P 7120 12	20 x 2	3/4	52	45	27	20
P 7126 12	26 x 3	3/4	56	45	33	32
P 7132 13	32 x 3	1	55	49	39	23
P 7140 14	40 x 3,5	1¼	55	55	47	23
P 7150 14	50 x 4	1¼	76	63	57	40
P 7163 16	63 x 4,5	2	83	70	70	47



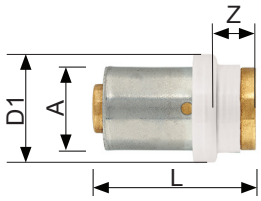
HERZ Coupling, Reduced Coupling



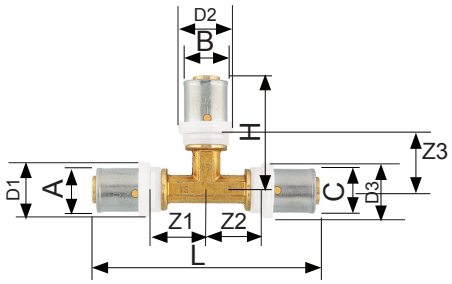
Order number	A, mm	B, mm	L, mm	D1, mm	D2, mm	Z1, mm	Z2, mm
P 7010 00	10 x 1,3	10 x 1,3	41	17	17	15	15
P 7014 00	14 x 2	14 x 2	65	21	21	9	9
P 7016 00	16 x 2	16 x 2	58	23	23	5	5
P 7016 01	16 x 2	14 x 2	65	23	21	9	9
P 7018 00	18 x 2	18 x 2	65	25	25	9	9
P 7018 01	18 x 2	14 x 2	65	25	21	9	9
P 7018 02	18 x 2	16 x 2	65	25	23	9	9
P 7020 00	20 x 2	20 x 2	58	27	27	5	5
P 7020 03	20 x 2	14 x 2	62	27	21	7	7
P 7020 01	20 x 2	16 x 2	62	27	23	7	7
P 7020 02	20 x 2	18 x 2	65	27	25	9	9
P 7026 00	26 x 3	26 x 3	65	33	33	9	9
P 7026 01	26 x 3	16 x 2	65	33	23	9	9
P 7026 03	26 x 3	17 x 2	65	33	24	9	9
P 7026 05	26 x 3	18 x 2	65	33	25	9	9
P 7026 02	26 x 3	20 x 2	65	33	27	9	9
P 7032 00	32 x 3	32 x 3	65	39	39	9	9
P 7032 01	32 x 3	16 x 2	65	39	23	9	9
P 7032 07	32 x 3	18 x 2	65	39	25	9	9
P 7032 02	32 x 3	20 x 2	65	39	27	9	9
P 7032 06	32 x 3	26 x 3	65	39	33	9	9
P 7040 00	40 x 3,5	40 x 3,5	65	47	47	9	9
P 7040 02	40 x 3,5	26 x 3	65	47	33	9	9
P 7040 03	40 x 3,5	32 x 3	65	47	39	9	9
P 7050 00	50 x 4	50 x 4	97	57	57	13	13
P 7050 01	50 x 4	26 x 3	81	57	33	13	9
P 7050 02	50 x 4	32 x 3	81	57	39	13	9
P 7050 03	50 x 4	40 x 3,5	81	57	47	13	9
P 7063 00	63 x 4,5	63 x 4,5	98	70	70	13	13
P 7063 01	63 x 4,5	26 x 3	82	70	33	13	9
P 7063 02	63 x 4,5	32 x 3	82	70	39	13	9
P 7063 03	63 x 4,5	40 x 3,5	82	70	47	13	9
P 7063 04	63 x 4,5	50 x 4	98	70	57	13	13

HERZ Press fitting end cap

Order number	A, мм	L, мм	D1, мм	Z, мм
P 7016 10	16 x 2	31	23	7
P 7017 10	17 x 2	33	24	9
P 7018 10	18 x 2	33	25	9
P 7020 10	20 x 2	31	27	7
P 7026 10	26 x 3	33	33	9
P 7032 10	32 x 3	33	39	9
P 7040 10	40 x 3,5	33	47	9
P 7050 10	50 x 4	49	57	13
P 7063 10	63 x 4,5	49	70	13



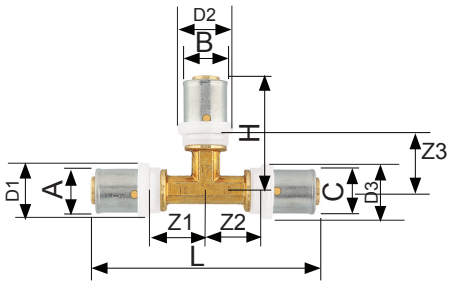
HERZ T-piece



Order num-ber	A, mm	B, mm	C, mm	L, mm	H, mm	D1, mm	D2, mm	D3, mm	Z1, mm	Z2, mm	Z3, mm
P 7214 00	14 x 2	14 x 2	14 x 2	83	42	21	21	21	18	18	18
P 7214 01	14 x 2	16 x 2	14 x 2	83	42	21	23	21	18	18	18
P 7216 05	16 x 2	18 x 2	16 x 2	88	44	23	25	23	20	20	20
P 7216 03	16 x 2	20 x 2	16 x 2	83	42	23	27	23	18	18	18
P 7217 00	17 x 2	17 x 2	17 x 2	107	54	24	24	24	30	30	30
P 7218 00	18 x 2	18 x 2	18 x 2	83	42	25	25	25	18	18	18
P 7218 01	18 x 2	14 x 2	18 x 2	88	44	25	21	25	20	20	20
P 7218 02	18 x 2	16 x 2	18 x 2	88	44	25	23	25	20	20	20
P 7220 00	20 x 2	20 x 2	20 x 2	83	42	27	27	27	18	18	18
P 7210 00	20 x 2	10 x 1,3	20 x 2	88	33	27	17	27	18	18	9
P 7220 10	20 x 2	14 x 2	20 x 2	88	44	27	21	27	20	20	20
P 7220 02	20 x 2	18 x 2	20 x 2	88	44	27	25	27	20	20	20
P 7220 06	20 x 2	26 x 3	20 x 2	102	51	27	33	27	27	27	27
P 7220 01	20 x 2	16 x 2	20 x 2	83	42	27	23	27	18	18	18
P 7220 03	20 x 2	16 x 2	16 x 2	83	42	27	23	23	18	18	18
P 7220 08	20 x 2	20 x 2	16 x 2	83	42	27	27	23	18	18	18
P 7226 00	26 x 3	26 x 3	26 x 3	102	51	33	33	33	27	27	27
P 7226 17	26 x 3	32 x 3	26 x 3	106	53	33	39	33	29	29	29
P 7226 03	26 x 3	16 x 2	26 x 3	97	49	33	23	33	25	25	25
P 7226 04	26 x 3	18 x 2	26 x 3	102	51	33	25	33	27	27	27
P 7226 05	26 x 3	20 x 2	26 x 3	97	49	33	27	33	25	25	25
P 7232 00	32 x 3	32 x 3	32 x 3	106	53	37	37	37	29	29	29
P 7232 10	32 x 3	40 x 3,5	32 x 3	106	53	37	47	37	29	29	29
P 7232 01	32 x 3	16 x 2	32 x 3	106	53	37	23	37	29	29	29
P 7232 03	32 x 3	18 x 2	32 x 3	106	53	37	25	37	29	29	29
P 7232 04	32 x 3	20 x 2	32 x 3	106	53	37	27	37	29	29	29
P 7232 07	32 x 3	26 x 3	32 x 3	106	53	37	33	37	29	29	29
P 7240 00	40 x 3,5	40 x 3,5	40 x 3,5	110	55	47	47	47	31	31	31
P 7240 02	40 x 3,5	26 x 3	40 x 3,5	110	55	47	33	47	31	31	31
P 7240 03	40 x 3,5	32 x 3	40 x 3,5	110	55	47	37	47	31	31	31
P 7250 00	50 x 4	50 x 4	50 x 4	152	76	57	57	57	40	40	40
P 7250 03	50 x 4	26 x 3	50 x 4	152	62	57	33	57	40	40	38

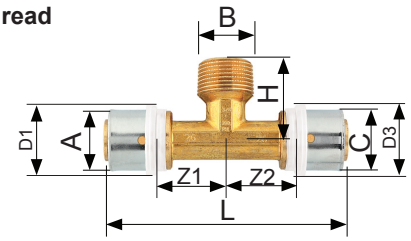
Order number	A, mm	B, mm	C, mm	L, mm	H, mm	D1, mm	D2, mm	D3, mm	Z1, mm	Z2, mm	Z3, mm
P 7250 01	50 x 4	32 x 3	50 x 4	152	62	57	37	57	40	40	38
P 7250 02	50 x 4	40 x 3,5	50 x 4	152	59	57	47	57	40	40	35
P 7263 00	63 x 4,5	63 x 4,5	63 x 4,5	166	83	70	70	70	47	47	47
P 7263 01	63 x 4,5	40 x 3,5	63 x 4,5	153	67	70	47	70	40	40	43
P 7263 02	63 x 4,5	50 x 4	63 x 4,5	166	83	70	57	70	47	47	47
P 7263 03	63 x 4,5	32 x 3	63 x 4,5	166	67	70	37	70	47	47	43

HERZ T-piece, reduced



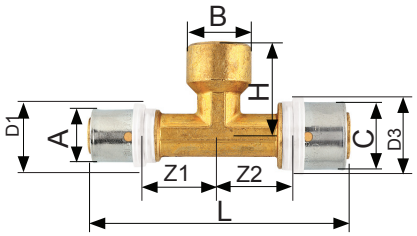
Order number	A, mm	B, mm	C, mm	L, mm	H, mm	D1, mm	D2, mm	D3, mm	Z1, mm	Z2, mm	Z3, mm
P 7220 03	20 x 2	16 x 2	16 x 2	83	42	27	23	23	18	18	18
P 7220 07	20 x 2	16 x 2	18 x 2	88	44	27	23	25	20	20	20
P 7220 04	20 x 2	18 x2	18 x 2	88	44	27	25	25	20	20	20
P 7220 09	20 x 2	20 x 2	14 x 2	88	44	27	27	21	20	20	20
P 7220 08	20 x 2	20 x 2	16 x 2	83	42	27	27	23	18	18	18
P 7226 18	26 x 3	18x 2	18 x 2	102	51	33	25	25	27	27	27
P 7226 12	26 x 3	18x 2	20 x 2	102	51	33	25	27	27	27	27
P 7226 13	26 x 3	20 x 2	16 x 2	102	51	33	27	33	27	27	27
P 7226 14	26 x 3	20 x 2	20 x 2	102	51	33	27	27	27	27	27
P 7226 19	26 x 3	20 x 2,5	16 x 2	102	51	33	27	23	27	27	27
P 7226 16	26 x 3	26 x 3	16 x 2	112	56	33	33	23	32	32	32
P 7226 15	26 x 3	26 x 3	20 x 2	112	56	33	33	27	32	32	32
P 7232 11	32 x 3	20 x 2	26 x 3	106	53	39	27	33	29	29	29
P 7232 09	32 x 3	26 x 3	26 x 3	106	53	39	33	33	29	29	29
P 7232 15	32 x 3	32 x 3	20 x 2	106	53	39	39	27	29	29	29
P 7232 14	32 x 3	32 x 3	26 x 3	106	53	39	39	33	29	29	29
P 7240 06	40 x 3,5	26 x 3	32 x 3	110	55	47	33	37	31	31	31
P 7240 04	40 x 3,5	32 x 3	32 x 3	110	50	47	39	39	31	31	26
P 7240 07	40 x 3,5	40 x 3,5	26 x 3	110	55	47	47	33	31	31	31
P 7240 08	40 x 3,5	40 x 3,5	32 x 3	110	55	47	47	39	31	31	31
P 7250 06	50 x 4	32 x 3	40 x 3,5	152	62	57	39	47	46	46	38
P 7250 05	50 x 4	40 x 3,5	40 x 3,5	137	61	57	47	47	39	39	37
P 7250 07	50 x 4	50 x 4	32 x 3	152	76	57	57	39	46	46	40
P 7250 08	50 x 4	50 x 4	40 x 3,5	152	76	57	57	47	46	46	40
P 7263 04	63 x 4,5	40 x 3,5	50 x 4	166	67	70	47	57	47	47	43
P 7263 05	63 x 4,5	50 x 4	50 x 4	166	83	70	57	57	47	47	47
P 7263 06	63 x 4,5	63 x 4,5	40 x 3,5	150	83	70	70	47	45	45	47
P 7263 07	63 x 4,5	63 x 4,5	50 x 4	166	83	70	70	57	47	47	47

HERZ T-piece with external thread



Order number	A, mm	B, in	C, mm	L, mm	H, mm	D1, mm	D3, mm	Z1, mm	Z2, mm
P 7216 51	16 x 2	1/2	16 x 2	90	34	23	23	21	21
P 7218 51	18 x 2	1/2	18 x 2	98	34	25	25	25	25
P 7220 51	20 x 2	1/2	20 x 2	91	34	27	27	22	22
P 7226 51	26 x 3	1/2	26 x 3	112	38	33	33	32	32
P 7220 52	20 x 2	3/4	20 x 2	98	34	27	27	25	25
P 7226 52	26 x 3	3/4	26 x 3	112	38	33	33	32	32
P 7232 51	32 x 3	3/4	32 x 3	110	47	39	39	31	31
P 7226 53	26 x 3	1	26 x 3	112	43	33	33	32	32
P 7232 52	32 x 3	1	32 x 3	110	47	39	39	31	31
P 7240 52	40 x 3,5	1	40 x 3,5	110	55	47	47	31	31
P 7240 53	40 x 3,5	1¼	40 x 3,5	110	55	47	47	31	31
P 7250 53	50 x 4	1¼	50 x 4	152	61	57	57	40	40
P 7250 54	50 x 4	1½	50 x 4	152	61	57	57	40	40
P 7263 54	63 x 4,5	1½	63 x 4,5	166	68	70	70	47	47
P 7263 55	63 x 4,5	2	63 x 4,5	166	70	70	70	47	47

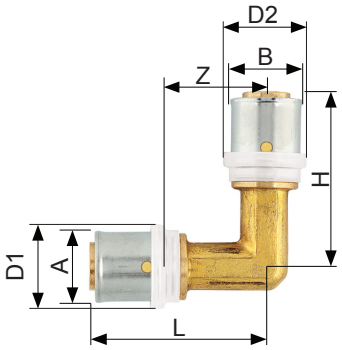
HERZ T-piece with internal thread



Order number	A, mm	B, in	C, mm	L, mm	H, mm	D1, mm	D3, mm	Z1, mm	Z2, mm
P 7216 41	16 x 2	1/2	16 x 2	90	34	23	23	21	21
P 7218 41	18 x 2	1/2	18 x 2	98	34	25	25	25	25
P 7220 41	20 x 2	1/2	20 x 2	91	34	27	27	22	22
P 7226 42	26 x 3	1/2	20 x 2	112	38	33	27	32	32
P 7226 41	26 x 3	1/2	26 x 3	112	37	33	33	32	32
P 7232 43	32 x 3	1/2	32 x 3	110	47	39	39	31	31
P 7220 42	20 x 2	3/4	20 x 2	112	43	27	27	32	32
P 7226 44	26 x 3	3/4	26 x 3	112	43	33	33	32	32
P 7232 41	32 x 3	3/4	32 x 3	110	47	39	39	31	31
P 7232 42	32 x 3	1	32 x 3	110	47	39	39	31	31
P 7240 41	40 x 3,5	1	40 x 3,5	110	55	47	47	31	31
P 7232 44	32 x 3	1¼	32 x 3	125	55	39	39	39	39
P 7240 42	40 x 3,5	1¼	40 x 3,5	110	55	47	47	31	31
P 7250 42	50 x 4	1¼	50 x 4	152	63	57	57	40	40
P 7250 43	50 x 4	1½	50 x 4	152	63	57	57	40	40
P 7263 43	63 x 4,5	1½	63 x 4,5	166	68	70	70	47	47
P 7263 44	63 x 4,5	2	63 x 4,5	166	70	70	70	47	47

HERZ 90° angle

Order number	A, mm	B, mm	L, mm	H, mm	D1, mm	D2, mm	Z, mm
P 7116 00	16 x 2	16 x 2	39	39	23	23	15
P 7118 00	18 x 2	18 x 2	42	42	25	25	18
P 7120 00	20 x 2	20 x 2	42	42	27	27	18
P 7110 00	20 x 2	10 x 1,3	42	33	27	17	18
P 7126 00	26 x 3	26 x 3	51	51	33	33	27
P 7132 00	32 x 3	32 x 3	55	55	39	39	31
P 7140 00	40 x 3,5	40 x 3,5	58	58	47	47	34
P 7150 00	50 x 4	50 x 4	76	76	57	57	40
P 7163 00	63 x 4,5	63 x 4,5	83	83	70	70	47



Calibration tools:

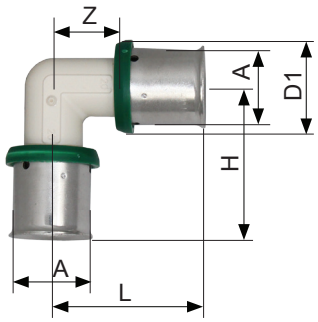
Calibration tools for HERZ-pipe, with lever, or using with cordless screwdriver.

Pipe Ø	Calibration tool with lever	Calibration tool for cordless screwdriver	Pipe Ø	Calibration tool with lever	Calibration tool for cordless screwdriver
10 x 1,3	3 F010 11	-	40 x 3,5	P 2011 80	P 2010 80
16 x 2	P 2011 74	P 2010 74	50 x 4	P 2011 83	P 2010 83
20 x 2	P 2011 76	P 2010 76	63 x 4,5	P 2011 87	P 2010 87
26 x 3	P 2011 78	P 2010 78	75 x 5	P 2010 91	
32 x 3	P 2011 79	P 2010 79			

Pressfittings PPSU

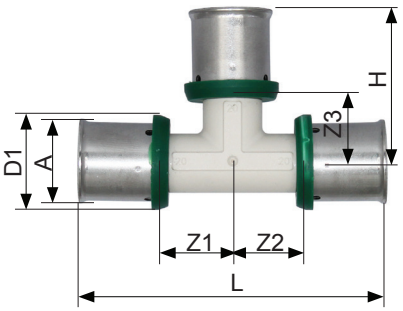
90° angle

Order number	A, mm	L, mm	H, mm	D1, mm	Z, mm
R 6116 00	16 x 2	40	40	23	17
R 6120 00	20 x 2	43	43	27	20
R 6126 00	26 x 3	47	47	33	24

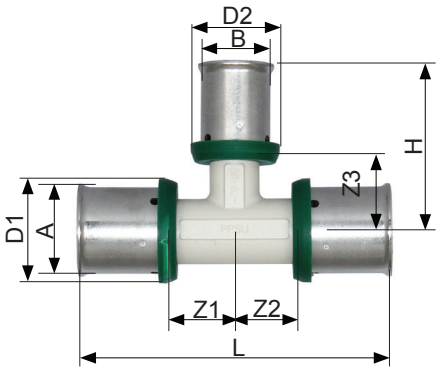


T-piece

Order number	A, mm	L, mm	H, mm	D1, mm	Z1, mm	Z2, mm	Z3, mm
R 6216 00	16 x 2	80	40	23	17	17	17
R 6220 00	20 x 2	86	43	27	20	20	20
R 6226 00	26 x 3	94	47	33	24	24	24

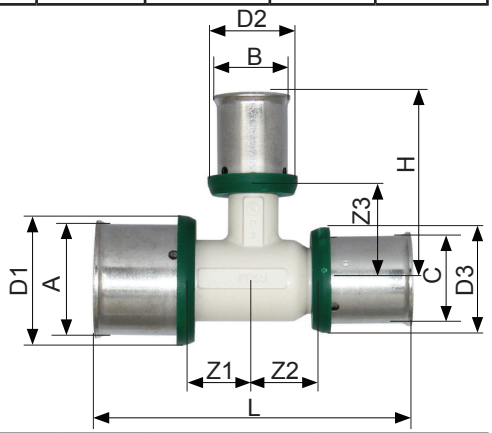


T-piece, middle branch reduced



Order number	A, mm	B, mm	C, mm	L, mm	H, mm	D1, mm	D2, mm	Z1, mm	Z2, mm	Z3, mm
R 6220 01	20 x 2	16 x 2	20 x 2	80	43	27	23	17	17	43
R 6226 03	26 x 3	16 x 2	26 x 3	86	47	33	23	17	12	47
R 6226 05	26 x 3	20 x 2	26 x 3	94	47	33	27	20	20	47

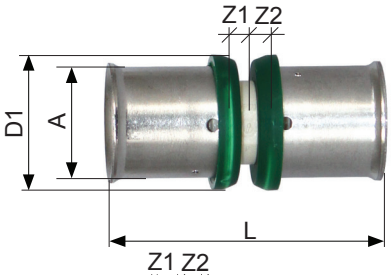
T-piece, expanded/reduced



Order number	A, mm	B, mm	C, mm	L, mm	H, mm	D1, mm	D2, mm	D3, mm	Z1, mm	Z2, mm	Z3, mm
R 6220 03	20 x 2	16 x 2	16 x 2	80	43	27	23	23	17	17	20
R 6220 08	20 x 2	20 x 2	16 x 2	86	43	27	27	23	20	20	20
R 6226 11	26 x 3	16 x 2	20 x 2	80	47	33	23	27	17	17	24
R 6226 13	26 x 3	20 x 2	16 x 2	86	47	33	27	23	20	20	24
R 6226 14	26 x 3	20 x 2	20 x 2	86	47	33	27	27	20	20	24
R 6226 16	26 x 3	26 x 3	16 x 2	94	47	33	33	23	24	24	24
R 6226 15	26 x 3	26 x 3	20 x 2	94	47	33	33	27	24	24	24
R 6216 03	16 x 2	20 x 2	16 x 2	86	40	23	27	23	20	20	17
R 6220 06	20 x 2	26 x 3	20 x 2	94	43	27	33	27	24	24	20

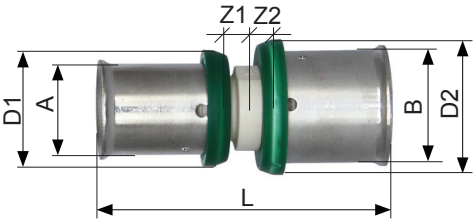
Coupling

Order number	A, mm	L, mm	D1, mm	Z1, mm	Z2, mm
R 6016 00	16 x 2	54	23	4	4
R 6020 00	20 x 2	54	27	4	4
R 6026 00	26 x 3	54	33	4	4



Reduction

Order number	A, mm	B, mm	L, mm	D1, mm	D1, mm	Z1, mm	Z2, mm
R 6020 01	20 x 2	16 x 2	54	27	23	4	4
R 6026 01	26 x 3	16 x 2	54	33	23	4	4
R 6026 02	26 x 3	20 x 2	54	33	27	4	4



Recycling and disposal

Both the pipes and press fittings and the corresponding transport packaging largely consist of raw materials suitable for recycling.

Your pipes and press fittings are not suitable for disposal with household waste. Ensure that your device and any available accessories are submitted for appropriate disposal.

Material

Pursuant to Article 33 of the REACH Regulation (EC No. 1907/2006), we are obliged to point out that the material lead is listed on the SVHC list and that all brass components manufactured in our products exceed 0.1 % (w / w) lead (CAS: 7439-92-1 / EINECS: 231-100-4). Since lead is a component part of an alloy, actual exposure is not possible and therefore no additional information on safe use is necessary.