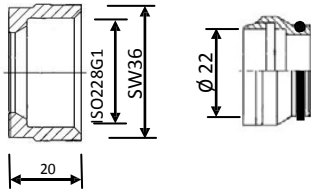


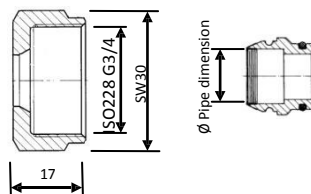
HERZ- Compression Fittings For Steel and Copper Pipes

Datasheet **6273 - 6294**, Issue 1118



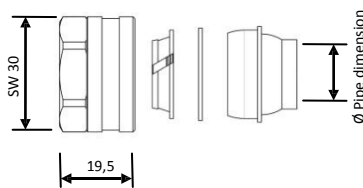
6273 G1 - 22mm

Compression union adapter with mounted O-ring, metallic sealing towards the tube, lock nut G1 nickel-plated, incl. Support sleeve, not suitable for chrome-plated or stainless steel tubes



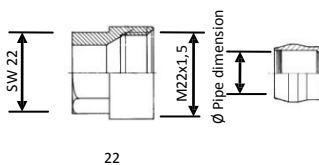
6274 G3/4 - 8 - 16mm, 9,52mm, 12,7mm, 15,9mm

Compression union adapter with mounted O-ring, metallic sealing towards the tube, lock nut G3/4 nickel-plated, not suitable for chrome-plated or stainless steel tubes



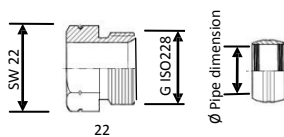
6276 G3/4 - 12 - 18mm

Compression union adapter, solid rubber seal (EPDM), soft seal towards the tube, lock nut G3 / 4 nickel-plated, not suitable for chrome or stainless steel pipes



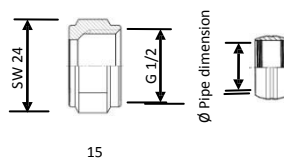
6284 M22x1,5 - 10 - 16mm, 14,7mm, 15,88mm

Compression union adapter metallic sealing towards the pipe, not suitable for chrome or stainless steel pipes



6292 3/8 - 3/4 - 12 - 18mm, G1/2 - 14,7mm

Compression union adapter metallic sealing towards the pipe, not suitable for chrome or stainless steel pipes



6294 G1/2 - 15mm

Compression union adapter metallic sealing towards the pipe, not suitable for chrome or stainless steel pipes

Materials, order numbers

Order numbers	Outside Pipe Ø	Nut	Material Nut	Material Fitting
1 6273 01	22	G1 ISO 228-1	CW602N	CW602N
1 6274 18	8	G3/4 ISO 228-1	CW614N	CW614N
1 6274 00	10			
1 6274 01	12			
1 6274 02	14			
1 6274 03	15			
1 6274 04	16			
1 6274 06	9,52			
1 6274 07	12,70			
1 6274 08	15,90			
1 6276 12	12			
1 6276 14	14			
1 6276 15	15			
1 6276 16	16			
1 6276 18	18			
1 6284 00	10	M22x1,5	CW614N	CW614N
1 6284 01	12			
1 6284 03	14			
1 6284 04	15			
1 6284 05	16			
1 6284 21	14,70			
1 6284 07	15,88			
1 6292 00	12	G3/8	CW614N	CW614N
1 6292 12	12	G1/2		
1 6292 14	14			
1 6292 21	14,70			
1 6292 01	15			
1 6292 02	18			
1 6294 01	15	G3/4	CW614N	CW614N

 Operating data

Max. Operating temperature 110 °C

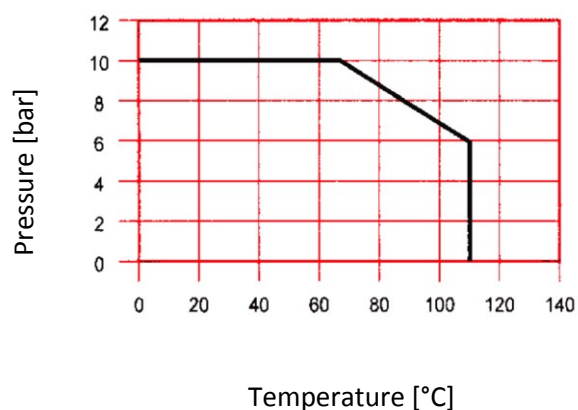
Max. Operating pressure according to EN 1254-2: 1988, Table 5

Water purity in accordance with the ÖNORM H5195 and VDI 2035 standards.

Ethylene and propylene glycol can be mixed to a ratio of 25 - 50 vol. [%].

The cone used for the connection fittings corresponds to DIN3838 (Eurocone). The information provided by the pipe manufacturer must be observed. The use of support sleeves is required if the pipe wall thickness ≤ 1 mm.

Application for HERZ clamping set
6273, 6274, 6276, 6284, 6292
and 6294 according to EN 1254-2,
Table 5



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.

☑ Application field

The compression unions constitutes an absolutely secure connection between valve housing and pipe. This connection is particularly suitable for copper pipes and thin-walled steel pipes. It can be opened at any time if required.

The unions will be leak proof provided they are properly installed in accordance with our instructions..

After tightening the locking nut (male thread), the olive wedged between the pipe wall and the inside cone of housing and nut. During this process, the pipe is fixed in its position by adhesion and secured against axial displacement. The squeeze ensures complete tightness. The grooves on the clamping ring inside constitute a labyrinth seal and help to overcome any unevenness in the pipe surface.

The compression connection can be unscrewed several times providing a safe and simple connection. It is important for the quality of the connection that the pipe touches stop in the inner cone..

The asymmetric clamping rings (6274, 6284, 6294) with integrated reducing sleeves enable pipe connection of pipes with a diameter of 8 - 16mm to a valve body. This design ensures optimum combination possibilities.

☑ Suitable pipe materials

Copper pipes

according to ÖNORM EN 1057, condition R220, R250 and R290

The use of support sleeves is always required for the R220 and R250 conditions for the Condition R290 only for wall thicknesses less than or equal to 1mm.

Steel pipe

Steel pipe according to EN 10305-1,2,3, E235 + N

The use of support sleeves is only required if the wall thickness is less than or equal to 1mm.

For stainless steel pipe or pipes with hard surface (chrome) not suitable.

Pipes with nickel plated surface, e.g. in the HERZ delivery program can be used.

☑ Calibration

Pipe ends must be calibrated in case of pipes supplied in coils, otherwise only when the pipe end is out of round by more than the permissible deviation of the outside pipe diameter.

☑ Pipe Surface

Seams, pores, longitudinal marks, etc. must not exceed the permissible deviation of the outside pipe diameter.

☑ Mounting

It is important to use proper tools for fitting compression unions, i.e. spanners, if possible open ring spanners. Never use tongs or pliers. These will damage the nuts (male threads) and olives!

☑ Installation procedure

1. Cut off at a right angle. Attention: Using a pipe cutter may cause deformation.
2. Carefully debur the pipe both inside and out.
3. Check for roundness, calibrate pipe if necessary.
4. In case of soft or thin-walled pipes, e.g. pipes supplied in coils or pipes with a wall thickness of 1 mm or less, we recommend the use of support sleeves.
5. When using the compression union 6275 care must be taken that the pipe ends do not have any sharp edges, as these will destroy the inside O-ring. Use of a pipe cutter ensures perfectly rounded pipe ends. If the pipe is cut with a saw, special care must be taken with deburring.
6. Connection elements (threaded cone, olive) can be lubricated with silicone oil, grease or Teflon Olive spray so that they can be tightened more easily. Mineral oil lubricants may not be used. The O-ring on the inside of compression union 6275 has been lubricated by the manufacturer.
7. Slide the locking nut (female thread) or locking nut (male thread) and olive over the end of the pipe. The inside pre-stressed O-ring of compression union 6257 requires more effort but can still be slid on without tools.
8. The olive may not be hit onto the pipe if it is difficult or impossible to slide on. In this case, the pipe must be calibrated.
9. Make sure that the cone and the thread in the valve are clean.
10. Slide the pipe with compression union connection components on it into the fitting up to the stop and hold it.

11. Screw on the locking nut with male thread and/or locking nut with female thread by hand until it rests.
12. Then, use a suitable tool to tighten the fitting. The pipe must not turn with the locking nut during tightening. The olive grips the pipe and automatically holds it.
13. Tightening: Please see pictures below

☑ Repeated Installation

Each time the compression union is loosened, retighten the locking nut (male and female thread) without applying more force than previously

☑ Minimum Dimensions

Pipe elbows

In case of pipes leading towards the valve in a bend, the minimum length of the straight pipe end after the screw connection is 2.5 times the external pipe diameter (e.g. external pipe diameter 15 mm means a straight pipe end of $2.5 \times 15 =$ approximately 38 mm).

Insulated Pipes

When using insulated pipes, the insulation must be removed over a length of 35 mm from the pipe end.

Pipe Ends of Coils and Rods

Prior to installation, cut off at least one length corresponding to the external pipe diameter from the pipe end (external pipe diameter 15 mm – shorten pipe by at least 15 mm.)

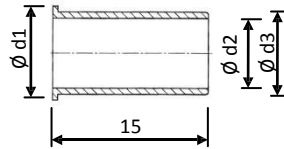
Under no circumstances may thread sealants be used!

1		2		3	
4		5			
6					
7					
6273	1	360°	6284	1 1/4	450°
6274	3/4	270°	6292	1 1/4	450°
6276	2 1/2	900°	6294	1 1/2	540°
1 6276 18	1 1/2	540°			

Accessories

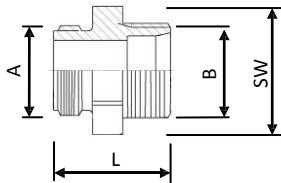
HERZ- Support sleeve

Material: CW614N

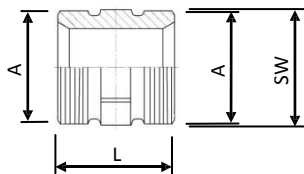


Order number	Dimension	$\phi d1$	$\phi d2$	$\phi d3$	Weight [g]
1 0674 10	10x1	9	6,7	7,9	1,81
1 0674 12	12x1	11	8,7	9,9	2,31
1 0674 14	14x1	13	10,7	11,9	2,80
1 0674 15	15x1	14	11,7	12,9	3,05
1 0674 16	16x1	15	12,7	13,9	3,29
1 0674 18	18x1	17	14,7	15,9	3,79
1 0674 22	22x1	21	18,7	19,9	4,79

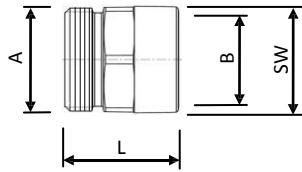
HERZ- Adapters



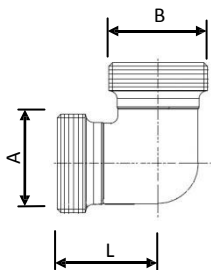
Order number	A	B	L	SW	Material
1 6272 01	G 1/2	M22x1,5	27	27	CW614N, nickel plated
1 6266 01	G 1/2, ISO 228	G 3/4 Cone, ISO 228	24	27	CW602N, nickel plated
1 6266 11	G 1/2 Cone, ISO 228	R 1/2, ISO 7/1	31	22	
1 6266 12	G 3/4 Cone, ISO 228	R 1/2, ISO 7/1	42	27	
1 6266 20	G 3/4 Cone, ISO 228	R 3/4, ISO 7/1	33,7	27	
1 6266 13	G 1 Cone, ISO 228	R 3/4, ISO 7/1	33,5	34	
1 6266 03	G 1 Cone, ISO 228	R 1, ISO 7/1	38,5	34	



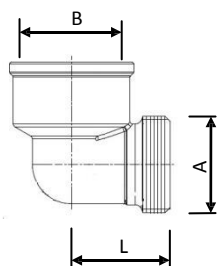
Order number	A	L	SW	Material
1 6262 01	G 1/2, ISO 228	26	22	CW602N, nickel plated
1 6262 02	G 3/4, ISO 228	27	27	CW602N
1 6262 03	G 1, ISO 228	29	34	CW602N, nickel plated
1 6262 04	G 1xG 3/4, ISO 228	25	38	CW614N, nickel plated
1 6262 12	G 3/4, ISO 228	27	27	CW602N, nickel plated



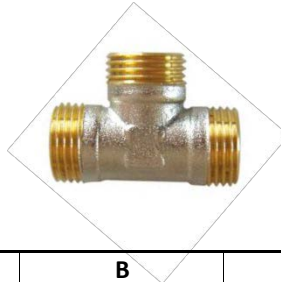
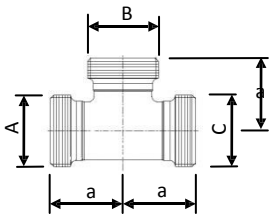
Order number	A	B	L	SW	Material
1 6265 01	G 3/4 Cone, ISO 228	Rp 1/2, ISO 7/1	29,5	27	CW602N, nickel plated
1 6265 11	G 1/2 Cone, ISO 228	Rp 1/2, ISO 7/1	28	27	
1 6265 12	G 3/4 Cone, ISO 228	G 3/4, ISO 228	29	32	
1 6265 13	G 1 Cone, ISO 228	Rp 3/4, ISO 7/1	26,5	34	
1 6265 14	G 1 Cone, ISO 228	Rp 1, ISO 7/1	32,5	37	
1 6275 22	M22x1,5 Cone	Rp 1/2, ISO 7/1	28	27	CW614N, nickel



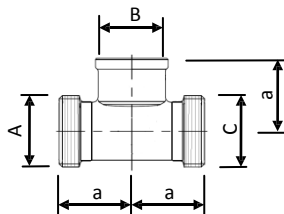
Order number	A	B	L	Material
P 3124 18	G 1/2 Cone, ISO 228	G 1/2 Cone, ISO 228	23,5	CW602N, nickel plated
P 3126 03	G 3/4 Cone, ISO 228	G 3/4 Cone, ISO 228	27	
P 3128 09	G 1 Cone, ISO 228	G 1 Cone, ISO 228	32	
P 3124 17	G 1/2 Cone, ISO 228	R 1/2, ISO 7/1	23,5	
P 3126 02	G 3/4 Cone, ISO 228	R 1/2, ISO 7/1	27	
P 3126 06	G 3/4 Cone, ISO 228	R 3/4, ISO 7/1	27	
P 3128 07	G 1 Cone, ISO 228	R 3/4, ISO 7/1	31	
P 3128 08	G 1 Cone, ISO 228	R 1, ISO 7/1	31	



Order number	A	B	L	Material
P 3124 16	G 1/2 Cone, ISO 228	Rp 1/2, ISO 7/1	25,5	CW602N, nickel plated
P 3126 16	G 3/4 Cone, ISO 228	Rp 1/2, ISO 7/1	27	
P 3126 05	G 3/4 Cone, ISO 228	Rp 3/4, ISO 7/1	27	
P 3128 05	G 1 Cone, ISO 228	Rp 3/4, ISO 7/1	31	
P 3128 06	G 1 Cone, ISO 228	Rp 1, ISO 7/1	31	



Order number	A	B	C	a	Material
P 3124 19	G 1/2 Cone, ISO 228	G 1/2 Cone, ISO 228	G 1/2 Cone, ISO 228	23,5	CW602N, nickel plated
P 3126 08	G 3/4 Cone, ISO 228	G 3/4 Cone, ISO 228	G 3/4 Cone, ISO 228	27	
P 3128 15	G 1 Cone, ISO 228	G 1 Cone, ISO 228	G 1 Cone, ISO 228	31	
P 3124 20	G 1/2 Cone, ISO 228	R 1/2, ISO 7/1	G 1/2 Cone, ISO 228	23,5	
P 3126 17	G 3/4 Cone, ISO 228	R 3/4, ISO 7/1	G 3/4 Cone, ISO 228	27	
P 3128 16	G 1 Cone, ISO 228	R 3/4, ISO 7/1	G 1 Cone, ISO 228	31	
P 3128 17	G 1 Cone, ISO 228	R 1, ISO 7/1	G 1 Cone, ISO 228	31	



Order number	A	B	C	a	Material
P 3124 15	G 1/2 Cone, ISO 228	Rp 1/2, ISO 7/1	G 1/2 Cone, ISO 228	23,5	CW602N, nickel plated
P 3126 07	G 3/4 Cone, ISO 228	Rp 1/2, ISO 7/1	G 3/4 Cone, ISO 228	27	
P 3126 13	G 3/4 Cone, ISO 228	Rp 3/4, ISO 7/1	G 3/4 Cone, ISO 228	27	
P 3128 01	G 1 Cone, ISO 228	Rp 1/2, ISO 7/1	G 1 Cone, ISO 228	31	
P 3128 03	G 1 Cone, ISO 228	Rp 3/4, ISO 7/1	G 1 Cone, ISO 228	31	
P 3128 04	G 1 Cone, ISO 228	Rp 1, ISO 7/1	G 1 Cone, ISO 228	31	

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