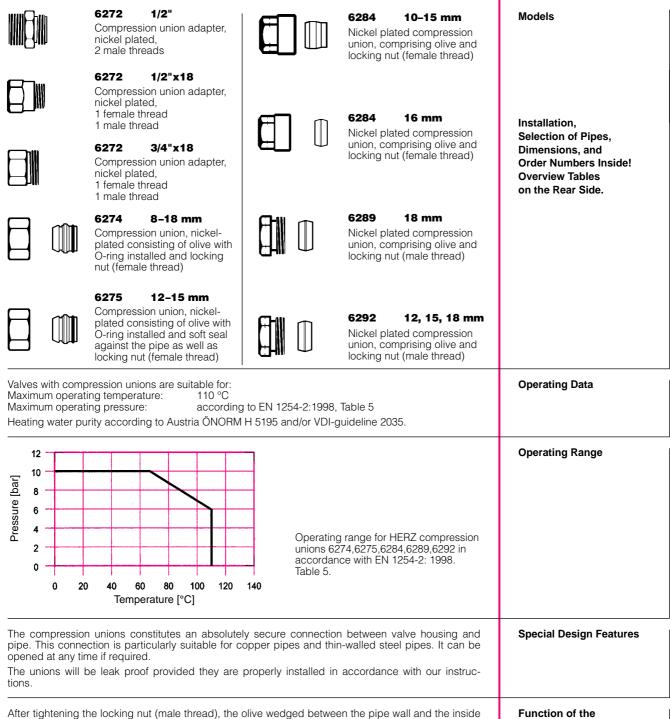
### **HERZ-Compression Unions**

Fields of Application and Instructions for Installation

Standard Sheet for

6272 - 6292

Edition 1000 (0799)



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 asymmetrical olives (6274,6275,6284) with integrated reducing sleeves make it possible to connect pipes with a diameter of 8,10,12,14,15, 16 and 18 mm to one valve body. This model offers optimum combination options and is easy to stock.

**Compression Union 6275:** The compression union with an additional O-ring on the inside is particularly suitable for hard special steep pipes or pipes with hard galvanised surfaces.

Function of the Compression Union

We reserve the right to make modifications necessitated by technological progress.





## **Instructions for Installation – Installation Process**

	important to use proper tools for fitting compression unions, i.e. spanners, if possible open ring nners. Never use tongs or pliers. These will damage the nuts (male threads) and olives.	Tools
.1.	Cut off at a right angle  Attention: Using a pipe cutter may cause deformation.	Pipe
.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.	
	Connection elements (threaded cone, olive) can be lubricated with silicone oil, grease or Teflon 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.	Olive Connection
.2.	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.	
	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.	
.1.	Make sure that the cone and the thread in the valve are clean.	Installation
2.	Slide the pipe with compression union connection components on it into the fitting up to the stop and hold it.	
.3.	Screw on the locking nut with male thread and/or locking nut with female thread by hand until it rests.	
4.	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.	
.5.	Tightening: 1 <sup>1</sup> / <sub>4</sub> turns (450°). Only <sup>3</sup> / <sub>4</sub> turn for 6274 and 6275 (270°).	
.1.	Each time the compression union is loosened, retighten the locking nut (male and female thread) without applying more force than previously	Repeated Installation
.1.	<b>Pipe elbows</b> 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 x 15 = approximately 38 mm).	Minimum Dimensions
.2.	Insulated Pipes When using insulated pipes, the insulation must be removed over a length of 35 mm from the pipe end.	
.3.	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.)	

# **Pipe Selection**

In accordance with the installation procedure described, the pipe types specified below can be mounted safely and with perfect tightness.  Pipes according to other standards may be used if they meet the requirements of the standards specified.	Pipe Selection
According to ÖNORM EN 1057, Material Conditions R 220, R 250, and R 290.  Support sleeves must be used for material conditions R 220 and R 250; for condition R 290 only in case of wall thickness below 1 mm. The compression union 6275 must be used for nickel plated or chrome plated copper pipes.	Copper Pipes
According to ÖNORM DIN 2391-St 35 NBK DIN 2391-St 35 NBK DIN 2393-St 37-2 NBK DIN 2394-St 37-2 NBK Support sleeves must be used in case of wall thickness below 1 mm. For hard special steel pipes use compression union 6275 (tolerance class D 4, in accordance with ÖNORM EN ISO 1127).	Steel Pipes
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.	Calibration
Seams, pores, longitudinal marks, etc. must not exceed the permissible deviation of the outside pipe diameter.	Pipe Surface

## **Design Dimensions and Order Numbers**

Compression Union				R1 SW	Order Number											
		R	R <sub>1</sub>			External Pipe Diameter Ø										
						8	10	12	14	15	16	18				
6274						3/4"	_	30	1 <b>6274</b>	18	00	01	02	03	04	05
6275	sw	5/4	_	30	1 <b>6275</b>			01	02	03						
6284	sw i i i i i i i i i i i i i i i i i i i	_	M 22 x 1.5	22	1 <b>6284</b>		00	01	03	04	05					
6289	sw is a	_	M 24 x 1.5	25	1 6289							01				
	92 Sw 🗐 🛊	3/8"	_	17	1 <b>6292</b>			00								
6292		1/2"	-	22	1 <b>6292</b>					01						
	SW CHILL	3/4"	-	27	1 <b>6292</b>							02				
Compre	ssion Union Adapter	R	R <sub>1</sub>	SW	Order Number	Suitable for Compression Union No.					<b>D.</b>					
6272	**************************************	1/2"	M 22 x 1.5	27	1 <b>6272</b> 01	1 <b>6284</b> 00, 1 <b>6284</b> 01 1 <b>6284</b> 03, 1 <b>6284</b> 05										
6272	sw d	1/2"	M 24 x 1.5	27	1 <b>6272</b> 11	1 <b>6289</b> 01										
6272	6272 <u>sw</u>		M 24 x 1.5	27	1 <b>6272</b> 12	1 <b>6289</b> 01										

#### **Overview Table**

Valve	R =	3/8"	1/2"									
Pipe Ø	D =	12	8	10	12	14	15	16	18	18		
Valves with universal sockets												
Adapter												
	1 <b>6272</b>			01	01	01		01	11			
Compression Union												
	1 <b>6284</b>			00	01	03		05				
Compression Union												
	1 <b>6289</b>								01			
Compression Union												
	1 <b>6292</b>	00					01			02		
Valves with C	onnection t	hread G 3/4										
Compression Union												
	1 <b>6274</b>		18	00	01	02	03	04	05			
Compression Union												
	1 <b>6275</b>				01	02	03					
Valves with C	onnection t	hread M 22	x 1.5									
Compression Union												
	1 <b>6284</b>			00	01	03	04	05				