HERZ-Compression Unions

Fields of Application and Instructions for Installation

Standard Sheet for

6272 - 6292

Edition 1000 (0799)

| | 6272 1/2" Compression union adapter, nickel plated, 2 male threads | | 6284 10–15 mm Nickel plated compression union, comprising olive and locking nut (female thread) | Models |
|---|--|---|---|---|
| | 62721/2"x18Compression union adapter, nickel plated, 1 female thread 1 male thread62723/4"x18 | | 6284 16 mm Nickel plated compression union, comprising olive and locking nut (female thread) | Installation, Selection of Pipes, Dimensions, and |
| | Compression union adapter, nickel plated, 1 female thread 1 male thread 6274 8–18 mm | | 6289 18 mm | Order Numbers Inside! Overview Tables on the Rear Side. |
| | Compression union, nickel- plated consisting of olive with O-ring installed and locking nut (female thread) | | Nickel plated compression union, comprising olive and locking nut (male thread) | |
| | 6275 12–15 mm Compression union, nickel- plated consisting of olive with O-ring installed and soft seal against the pipe as well as locking nut (female thread) | | 6292 12, 15, 18 mm Nickel plated compression union, comprising olive and locking nut (male thread) | |
| Maximum operati Maximum operati | | g to EN 1254-2:1998 H 5195 and/or VDI- | | Operating Data |
| 12 10 10 10 10 10 10 10 10 10 10 | Operating Range | | | |
| The compression pipe. This conne opened at any tin The unions will b tions. | Special Design Features | | | |
| cone of housing a against axial disp ring inside consti The compression It is important for | he locking nut (male thread), the and nut. During this process, the olacement. The squeeze ensures tute a labyrinth seal and help to d connection can be unscrewed so the quality of the connection tha al olives (6274,6275,6284) with th a diameter of 8,10,12,14,15, - ation options and is easy to stock | bipe is fixed in its po complete tightness overcome any uneve everal times providing the pipe touches st integrated reducing 6 and 18 mm to one | sition by adhesion and secured . The grooves on the clamping nness in the pipe surface. g a safe and simple connection. op in the inner cone. g sleeves make it possible to e valve body. This model offers | Function of the Compression Union |
| connect pipes wi optimum combine Compression U | nion 6275: The compression un or hard special steep pipes or pip | ion with an addition wes with hard galvani | al O-ring on the inside is parti- ised surfaces. | |

Instructions for Installation – Installation Process

| It is spa | 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 |
|--------------|--|-----------------------|
| 1.1. | Cut off at a right angle Attention: Using a pipe cutter may cause deformation. | Pipe |
| 1.2. | Carefully debur the pipe both inside and out. | |
| | Check for roundness, calibrate pipe if necessary. | |
| | 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. | |
| 1.5. | 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. | |
| 2.1. | 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 |
| 2.2. | 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. | |
| 3.1. | Make sure that the cone and the thread in the valve are clean. | Installation |
| 3.2. | Slide the pipe with compression union connection components on it into the fitting up to the stop and hold it. | |
| 3.3. | Screw on the locking nut with male thread and/or locking nut with female thread by hand until it rests. | |
| 3.4. | 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. | |
| 3.5. | Tightening: 11/4 turns (450°). Only 3/4 turn for 6274 and 6275 (270°). | |
| 4.1. | Each time the compression union is loosened, retighten the locking nut (male and female thread) without applying more force than previously | Repeated Installation |
| | 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 2.5×15 = approximately 38 mm). | Minimum Dimensions |
| J.Z. | Insulated Pipes When using insulated pipes, the insulation must be removed over a length of 35 mm from the pipe end. | |
| 5.3. | 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.) | |
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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 | | | | SW | Order Number | | | | | | | |
|---------------------------|--|------|------------|----|------------------|--|----|----|----|----|----|----|
| | | R | R1 | | | External Pipe Diameter Ø | | | | | | |
| | | | | | | 8 | 10 | 12 | 14 | 15 | 16 | 18 |
| 6274 | | 3/4" | _ | 30 | 1 6274 | 18 | 00 | 01 | 02 | 03 | 04 | 05 |
| 6275 | sw H | 3/4 | | | 1 6275 | | | 01 | 02 | 03 | | |
| 6284 | sw : | _ | M 22 x 1.5 | 22 | 1 6284 | | 00 | 01 | 03 | 04 | 05 | |
| 6289 | sw the second | - | M 24 x 1.5 | 25 | 1 6289 | | | | | | | 01 |
| | SW C | 3/8" | - | 17 | 1 6292 | | | 00 | | | | |
| 6292 | | 1/2" | - | 22 | 1 6292 | | | | | 01 | | |
| | | 3/4" | - | 27 | 1 6292 | | | | | | | 02 |
| Compression Union Adapter | | R | R1 | SW | Order Number | Suitable for Compression Union No. | | | | | 0. | |
| 6272 | sw i g | 1/2" | M 22 x 1.5 | 27 | 1 6272 01 | 1 6284 00, 1 6284 01 1 6284 03, 1 6284 05 | | | | | | |
| 6272 | SW I I I I I I I I I I I I I I I I I I I | 1/2" | M 24 x 1.5 | 27 | 1 6272 11 | 1 6289 01 | | | | | | |
| 6272 | SW THE | 3/4" | M 24 x 1.5 | 27 | 1 6272 12 | 1 6289 01 | | | | | | |

Overview Table

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