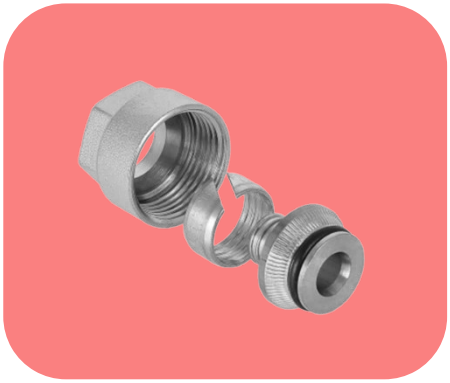
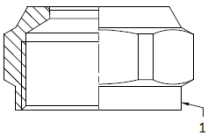
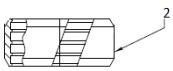
Fitting for polyethylene and metal-polymer pipes (eurocone)

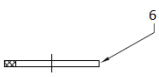
ZQEK001
ZQEK002
ZQEK003

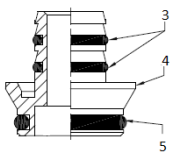
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PRODUCT DESCRIPTION

Fittings (eurocones) are used to connect polymer (PEX, PERT) and metal-polymer (PEX/AL/PEX, PEX/AL/PERT) pipes to elements of piping systems with a G 3/4″ male thread for eurocone (for example, to manifold outlets).
ZQEK001 — fitting for polyethylene and metal-polymer pipe 3/4″ × 16 × 2.0
ZQEK002 — fitting for polyethylene pipe 3/4″ × 16 × 2.2
ZQEK003 — fitting for polyethylene and metal-polymer pipe 3/4″ × 20 × 2.0

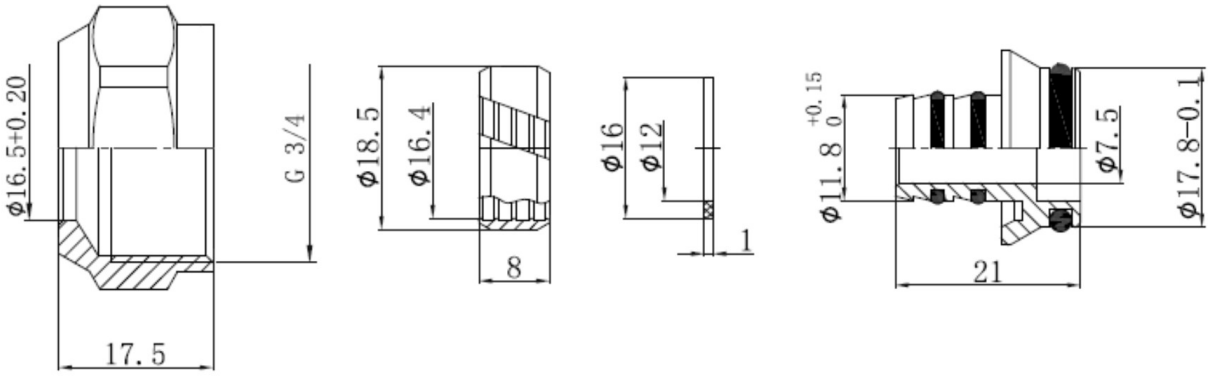
TECHNICAL PARAMETERS	
Connection thread	G 3/4″ (female)
Connected pipe size (ZQEK001)	16 × 2.0 mm
Connected pipe size (ZQEK002)	16 × 2.2 mm
Connected pipe size (ZQEK003)	20 × 2.0 mm
Nominal operating pressure, PN	10 bar
Test pressure	15 bar
Maximum working temperature	100 °C
Connection type	Threaded
Threaded connection standard	ISO 228-1

DESIGN AND MATERIALS		
1	Union nut	Brass CW617N, nickel-plated
2	Split ring	Brass CW617N
3	O-ring (2 pcs)	EPDM elastomer
4	Body	Brass CW617N
5	Sealing ring	EPDM elastomer
6	Dielectric washer	Teflon PTFE

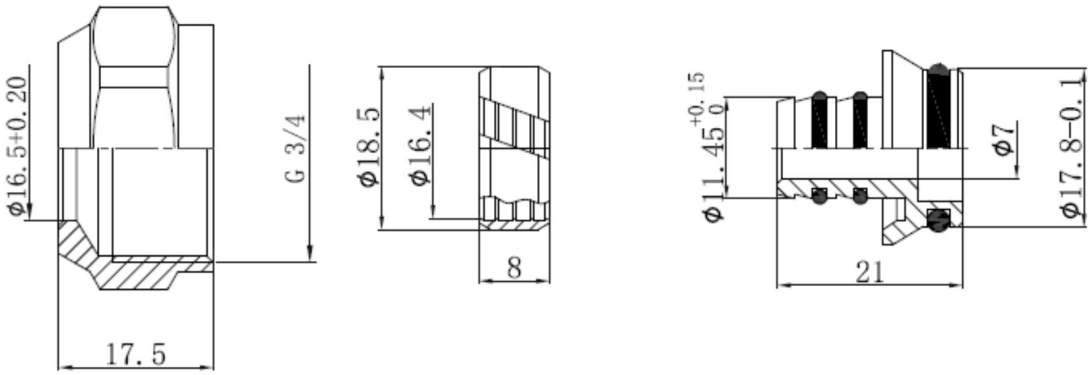
OPERATING PRINCIPLE

The fitting body is made of uncoated CW617N brass; the union nut is made of nickel-plated CW617N brass. Two EPDM O-rings are located in the grooves of the body nipple. A PTFE (Teflon) dielectric washer prevents a galvanic couple between the aluminium of the metal-polymer pipe and the brass. The pipe is secured on the fitting by a CW617N brass split compression ring, which clamps the pipe when the conical surfaces of the nut and the ring interact. The union nut has a hexagon for a spanner.

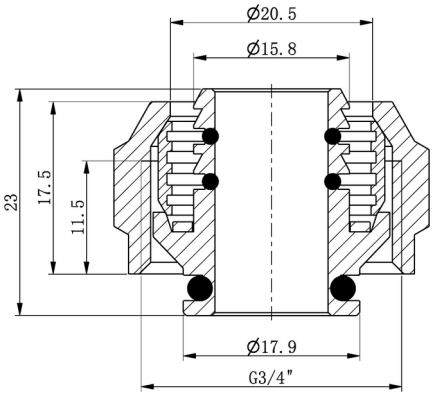
DIMENSIONS (mm). ZQEK001. Weight 49 g



DIMENSIONS (mm). ZQEK002



DIMENSIONS (mm). ZQEK003. Weight 56.2 g



INSTALLATION REQUIREMENTS

1. Observe the following procedure when installing pipes with eurocones:
- cut the pipe strictly perpendicular to its longitudinal axis;
- calibrate the pipe end and remove the inner chamfer;
- slide the union nut onto the pipe;
- slide the split compression ring onto the pipe;
- push the pipe onto the fitting nipple until it stops, taking care not to damage the O-rings;
- insert the fitting into the mating part (for example, a manifold outlet) and screw the union nut onto its G 3/4″ male thread by hand;
- holding the mating part against turning, tighten the union nut one more turn with an open-end spanner.
2. Embedding eurocones in building structures is not allowed.
3. The piping system must be installed so that the fittings are not subjected to longitudinal and bending loads. For this purpose, the design must specify the locations of movable and fixed supports and compensators.

OPERATION AND MAINTENANCE REQUIREMENTS

1. The fittings must be operated at the pressure and temperature specified in the technical parameters table.
2. Operating eurocones without dielectric washers and O-rings is not allowed.
3. When fittings are used on pipelines carrying liquid hydrocarbons, the EPDM O-rings must be replaced with NBR, HNBR or FPM (Viton) rings.
4. After the hydraulic test of the system, and after the first five hours of operation of systems with a medium temperature above 50 °C, check whether the union nuts have loosened. Retighten the nuts if necessary.
5. The tightness of the fittings must be checked:
- on all systems — at least once a year;
- on heating systems — before the start of the heating season;
- on hot water supply (DHW) systems — after the summer shutdown of hot water supply;
- after an emergency excess of the permissible system parameters (pressure, temperature);
- after unforeseen mechanical impact on the pipeline.

MANUFACTURER

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Country of origin: China

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