



RAM SOLUTIONS, LLC

EISELE

Member of **HEW** Connector Group

THERMOLINE

PLUG CONNECTOR FOR TUBE SYSTEMS IN FLUID CIRCUITS

NEW STANDARD FOR
ASSEMBLY TIME, FLEXIBILITY,
AND ECONOMY

STRONG CONNECTIONS. BIG IMPACT.

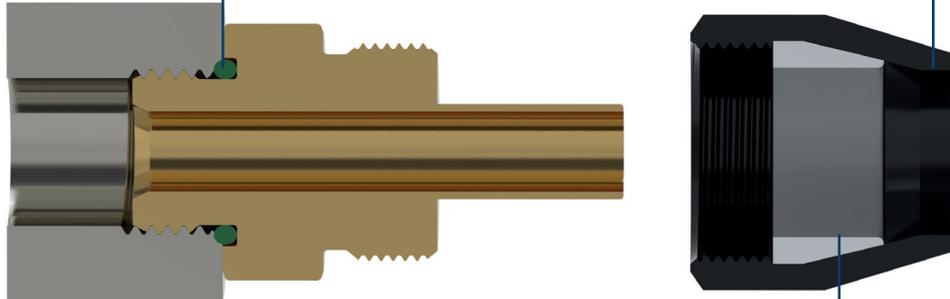


OUR NEW INNOVATIVE SOLUTION

Made of dezincification-resistant brass with chambered O-ring

Union Nut made of color-anodized aluminum

Available colors:
(RED, GREEN, BLUE, BLACK)



Clamping ring made of POM, integrated into the cap nut to prevent loss



OUR ADVANTAGES

FLEXIBLE & EASY INSTALLATION WITHOUT PRE-ASSEMBLY

- No fixed tube length, cut to size on site
- Easy installation by hand thanks to reduced insertion forces

EASY INSTALLATION WITHOUT ADDITIONAL EFFORT

- A separate tool is no longer required
- Cut tube length to size directly on site
- Simple plug-in assembly by hand

SAFE AND TOOL-FREE DISASSEMBLY

- No knife or cutter required for disassembly
- Connection cannot be damaged during disassembly

DISASSEMBLY DIRECTLY ON SITE

- Disassembly directly on site thanks to optimized clamp screw connection
- No separate workstation required

NO ADAPTER (DOUBLE NIPPLE) REQUIRED

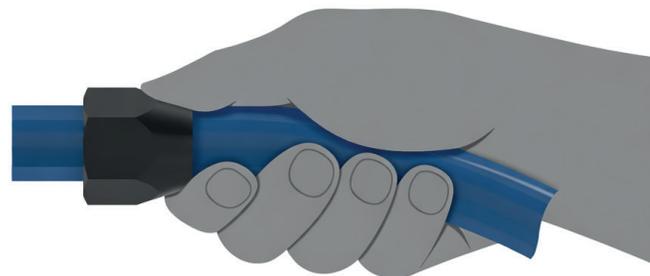
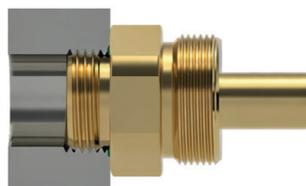
- This application enables a constructive simplification with significantly fewer individual parts

NO ADHESIVE NECESSARY

- Available in straight, 90°, and 45° versions, each with a chambered O-ring
- Flexible adjustment at any time
- No contamination of the medium due to adhesive residue coming off

Can be easily combined with other multilayer tubes, e.g., Push-Lok systems.

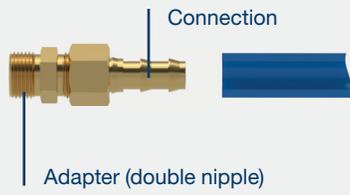
Just contact us—we will be glad to advise you!



THE ADVANTAGE OF OUR SOLUTION OVER EXISTING MARKET SOLUTIONS

ACTUAL MARKET SOLUTION

Two items are required for installation



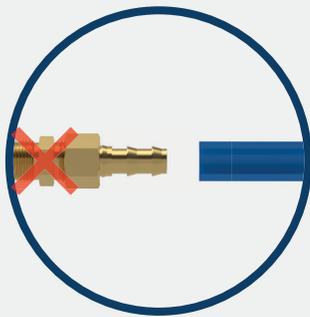
Complex gluing of angle connections required



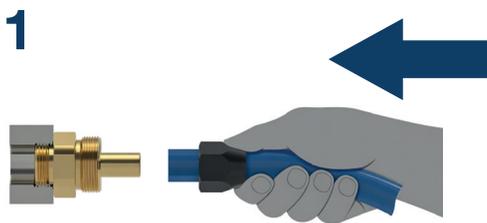
Due to the high insertion forces, an assembly device is required to install the tube.



THESE PROCESSES ARE ELIMINATED - THANKS TO THERMOLINE!



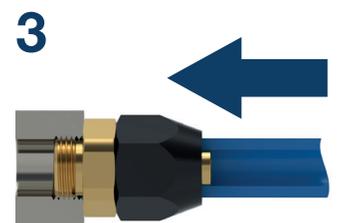
ASSEMBLY



THREAD TUBE THROUGH UNION NUT, PUSH TUBE INTO FITTING

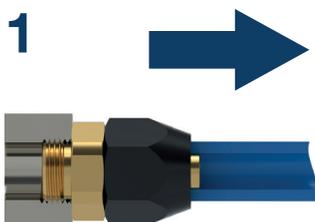


PUSH TUBE INTO FITTING

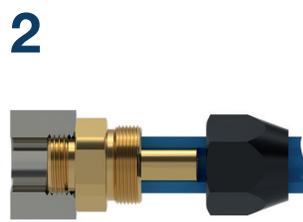


TIGHTEN WITH A WRENCH

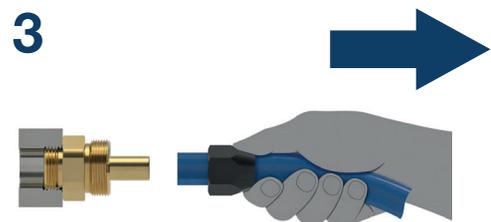
DISASSEMBLY



UNSCREW UNION NUT



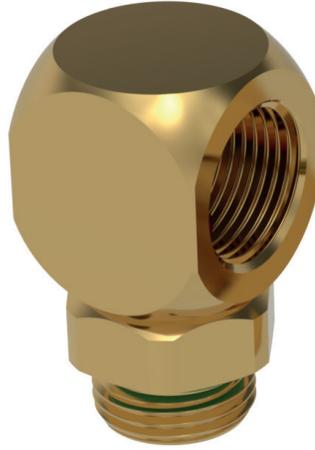
MOVE UNION NUT AWAY FROM FITTING



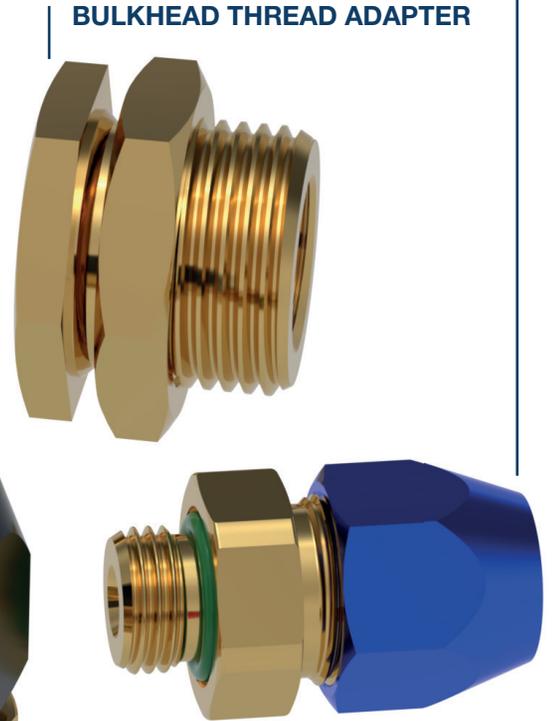
REMOVE THE TUBE WITH THE UNION NUT FROM THE BARB

THERMOLINE OVERVIEW

90° ANGLE SCREW CONNECTOR



STRAIGHT SCREW CONNECTION WITH BLUE CAP NUT FOR COLD WATER PIPES



45° ANGLE SCREW CONNECTOR

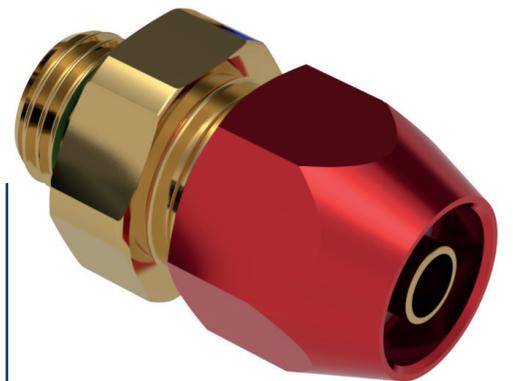


BULKHEAD THREAD ADAPTER



ANGLE CONNECTION COMBINED FROM STRAIGHT SCREW CONNECTION AND 90° ANGLE SCREW CONNECTOR

STRAIGHT SCREW CONNECTION WITH RED CAP UNION NUT FOR HOT WATER PIPES



STRAIGHT SCREW CONNECTION WITH BLACK CAP NUT

THERMOLINE

TECHNICAL SPECIFICATIONS - SERIES 2800 THERMOLINE ¹

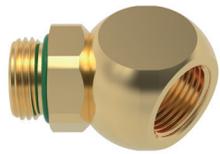
- Clamp connection made of dezincification-resistant brass (DZR) for cooling applications
- Highly secure, durable, and robust tube connection
- All non-media-contacting components made of POM and anodized aluminum (RED, BLUE, GREEN, BLACK)
- Chambered seals made of FKM (other seal materials available on request)
- Temperature range from 14 to 176 °F (-10 to 80°C) (extreme temperatures available on request)
- Pressure range: 0 to 232 psi (0 to 16 bar)

STRAIGHT SCREW CONNECTION



PART NO.	MATERIAL	DESIGNS	THREAD	FOR TUBE INNER Ø	FOR TUBE OUTER Ø (max. Ø)
VT2868-040613	DZR, brass, aluminum union nut, color anodized, FKM	Straight	G1/4	1/4"	12.3 mm (12.6 mm)
VT2868-041016	DZR, brass, aluminum union nut, color anodized, FKM	Straight	G1/4	3/8"	15.5 mm (16.3 mm)
VT2868-060613	DZR, brass, aluminum union nut, color anodized, FKM	Straight	G3/8	1/4"	12.3 mm (12.6 mm)
VT2868-061016	DZR, brass, aluminum union nut, color anodized, FKM	Straight	G3/8	3/8"	15.5 mm (16.3 mm)
VT2868-081320	DZR, brass, aluminum union nut, color anodized, FKM	Straight	G1/2	1/2"	19.5 mm (20,3 mm)
VT2868-101926 ²	DZR, brass, aluminum union nut, color anodized, FKM	Straight	G3/4	3/4"	26.2 mm (26.6 mm)
VT2868-122533 ²	DZR, brass, aluminum union nut, color anodized, FKM	Straight	G1	1"	32.8 mm (33.4 mm)
VT2830-040613	DZR, brass, aluminum union nut, color anodized, FKM	Straight	NPT1/4	1/4"	12.3 mm (12.6 mm)
VT2830-061016	DZR, brass, aluminum union nut, color anodized, FKM	Straight	NPT3/8	3/8"	15.5 mm (16.3 mm)
VT2830-081320	DZR, brass, aluminum union nut, color anodized, FKM	Straight	NPT1/2	1/2"	19.5 mm (20.3 mm)
VT2830-101926 ²	DZR, brass, aluminum union nut, color anodized, FKM	Straight	NPT3/4	3/4"	26.2 mm (26.6 mm)

45° ANGLE SCREW CONNECTOR | LOCKABLE



PART NO.	MATERIAL	DESIGNS	INNER THREAD	OUTER THREAD
VT2898-0403	DZR, brass, FKM	Angle 45°	G1/4	G1/4
VT2898-0405	DZR, brass, FKM	Angle 45°	G1/4	G3/8
VT2898-0603	DZR, brass, FKM	Angle 45°	G3/8	G1/4
VT2898-0605	DZR, brass, FKM	Angle 45°	G3/8	G3/8
VT2898-0807	DZR, brass, FKM	Angle 45°	G1/2	G1/2
VT2898-1009 ²	DZR, brass, FKM	Angle 45°	G3/4	G3/4

90° ANGLE SCREW CONNECTOR | LOCKABLE



PART NO.	MATERIAL	DESIGNS	INNER THREAD	OUTER THREAD
VT2840-0403	DZR, brass, FKM	Angle 90°	G1/4	G1/4
VT2840-0405	DZR, brass, FKM	Angle 90°	G1/4	G3/8
VT2840-0603	DZR, brass, FKM	Angle 90°	G3/8	G1/4
VT2840-0605	DZR, brass, FKM	Angle 90°	G3/8	G3/8
VT2840-0807	DZR, brass, FKM	Angle 90°	G1/2	G1/2
VT2840-1009 ²	DZR, brass, FKM	Angle 90°	G3/4	G3/4

BULKHEAD THREAD ADAPTER



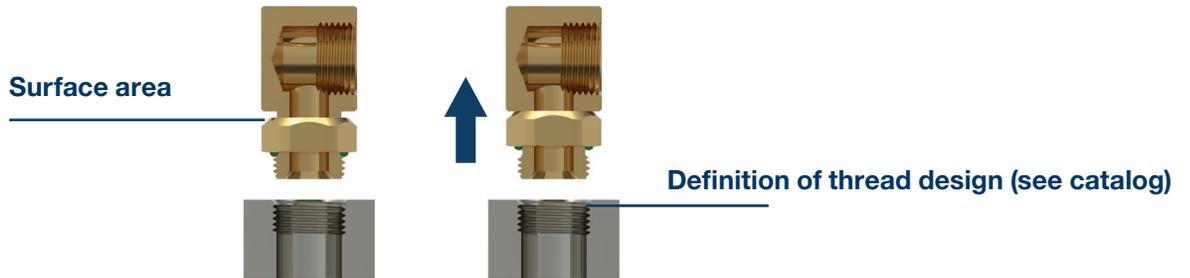
PART NO.	MATERIAL	DESIGNS	INNER THREAD	OUTER THREAD BULKHEAD
71-6403NI	Brass	bulkhead connection	G1/4	M20x1.5
71-7005NI	Brass	bulkhead connection	G3/8	M26X1.5
71-7207NI	Brass	bulkhead connection	G1/2	M28x1.5

¹ Validated with PU tube according to type 837
² On request

INSTALLATION INSTRUCTIONS

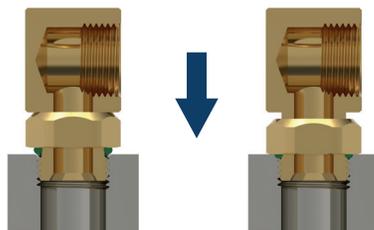
ANGLE 90° & 45°

1. Lock nut is loosely screwed on as far as it will go.

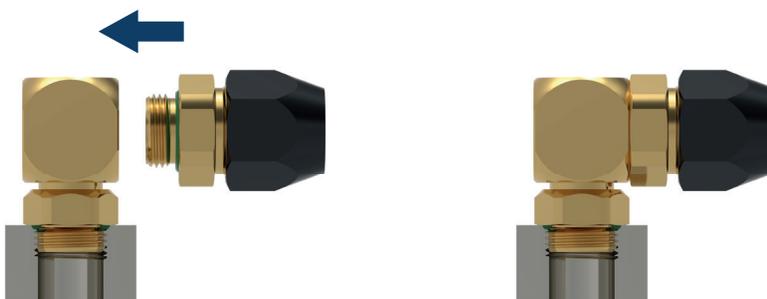


2. Screw in the angle screw-in piece until the O-ring rests on the sealing surface. Turn back a maximum of one turn to align.

3. Maintain the aligned position and tighten the lock nut with the maximum tightening torque (see catalog).



4. Tighten straight screw-in connection with max. tightening torque (see catalog).



THERMOLINE INTERNAL VALIDATION TESTS ³

EISELE CONNECTIONS – Designed for maximum safety and reliability

- Comprehensively tested in-house
- 100% leak tested
- Successfully passed dynamic pressure pulse test
- Temperature resistant from 32 to 176 °F (0 °C to 80 °C)
- Pressure resistant from 0 to 232 psi (0 to 16 bar)
- Extremely durable: over 100,000 test cycles
- Proven longer service life than conventional products on the market



RESULTS:

EISELE Thermoline

- Tube 1/4 > 100,000 pressure pulse cycles
- Tube 3/8 > 100,000 pressure pulse cycles
- Tube 1/2 > 13,000 pressure pulse cycles

Traditional spigot connection

- Tube 1/4 approx. 10,500 pressure pulse cycles
- Tube 3/8 approx. 1,500 pressure pulse cycles
- Tube 1/2 approx. 600 pressure pulse cycles

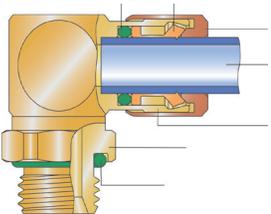
TESTED WITH MORE THAN 100,000 TEST CYCLES

PRESSURE SENSORS



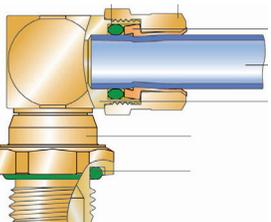
- Pressure sensor easily integrated into push-in and screw connections
- Electronic vacuum and pressure switches, as well as electronic pressure transmitters for liquids
- Permanent overpressure is not permitted
- Increased overload resistance available on request

SERIES 2600



- Plug-in connection with release sleeve made of dezincification-resistant brass for cooling water applications
- Safe, durable, and robust tube connection
- Repeated assembly and disassembly without tools
- High demands on tightness and full usable tube nominal width for maximum energy efficiency
- Very quick assembly and disassembly of compressed air hoses
- Extensive product portfolio with a wide range of designs, connection dimensions, and sealing materials

SERIES 2500



- Tube fittings for cooling water applications are made of dezincification-resistant brass
- Patented screw connection technology for maximum safety even under very high dynamic loads
- Tube can be easily loosened and securely reconnected even after prolonged use
- Smooth surfaces and precise tolerances ensure exceptional tightness in cooling water applications
- Full usable nominal diameter for maximum flow rate

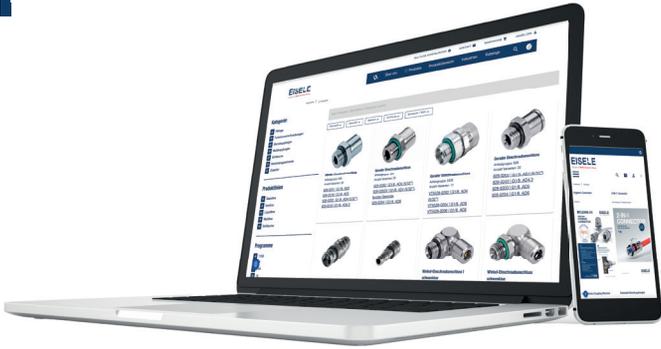
PROWELD TUBE



- Made of polyether polyurethane
- Color: black (red, blue, green, white)
- Highly accurate calibration, for use with Eisele connectors
- Operating temperature: -31 to 194 °F (-35 to 90 °C)
- Free of soft elements, PWIS, halogen, copper, and PTFE
- Kink-resistant and suitable for drag chains
- Resistant to UV, hydrolysis, and microbes
- Flame retardant according to UL94 V0 to V2
- Suitable for welding applications
- Suitable for compressed air, water, and vacuum

³ Attention Tests performed internally

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YOUR CHOICE. CONFIGURE NOW - QUICK AND EASY



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