



Press Fitting compatible with Stainless Steel BS EN 10312



BENKAN

HEAD OFFICE	5-1. ROKUSENGOKU, OTA-CITY, GUNMA-PREF, JAPAN.
OVERSEAS SECTION (OSAKA OFFICE)	3-1-18, NISHINAGASUCHO, AMAGASAKI-CITY, HYOGO-PREF, JAPAN. TEL:+81-6-6482-1856 FAX:+81-6-6482-1824

Our Authorized Distributor:







BENKAN Corporation

Born in Japan Contributing to the world's cleanest drinking water since 1975

Japan has seen a transition from copper pipe to stainless steel for the past 40 years. We at Benkan Corporation has been a manufacturer and provider of fittings compatible with stainless steel pipes ever since, and Japan has gained recognition for one of the cleanest potable waters in the world. Our next goal is to contribute to the global public health and water safety.

We proudly present our press fitting, Molco Joint, equipped with the essence of our knowledge and experience in waterworks.

To say nothing of its strength and lightness, stainless steel is considered to be a clean and environmentally-friendly material for its high level of corrosion resistance and recyclability. In addition, using our Molco Joint has the following advantages.

- Installation is fire-free and does not require any soldering materials that can be harmful to human beings.
- The press tool is easy to handle and drastically reduces the installation time.
- Rigorously tested for strength and durability, enough to withstand frequent minor earthquakes in Japan.



Structure

Molco Joint is compatible with stainless steel pipes Molco Joints are tested to AS3688 conformed to BS EN 10312 Series1. The seal ring is WRAS-certified (BS 6920) for use in contact with potable The fitting body is made from stainless steel (grade water.

304), with EPDM seal rings attached inside the grooves.

Once the pipe is inserted to an adequate depth, installation with Benkan press tools guarantees homogeneous and sufficient strength and water-tightness.



Scope

Molco Joint can be used under the following conditions

Usage	Piping systems for cold water, hot water, hot & cold water, coola water and *other fluids.
Operating Pressure	14 bar (1.4MPa) and below.
Operating Temperature	Below 80°C

*Not suitable for steam piping *Please consult us on use for fluids other than listed above



Standards











Quick, Safe and Fire-free Installation with press tool



CUT

Cut the pipe into a desired length with a rotary cutter



DEBURR

Remove any burrs around the pipe end to prevent damage to the seal ring



Use the marking gauge

MARK

(included in the press tool set) to mark the insertion depth on the pipe

The warranty does not cover leakage and other accidents arising from fittings installed without marking.



INSERT

Insert the pipe into the fitting to the marked depth





PRESS

CHECK

properly done

Press the fitting with a press tool approved by Benkan

Use the hexagonal gauge to

see if the installation was

*Please do not use press tools not authorized by Benkan, as it may lead to an installation failure.

*Make sure the marked line is within 3mm from the fitting end.

*Please read the Molco Joint installation manual prior to construction.

Uncompromising Quality Achieved through true craftsmanship and manufacturing

How Are Molco Joints Made?

Stainless steel tubes are processed into desired shapes by cold forming method. Tee is formed by the bulging method.

Some parts are joined with TIG (tungsten inert gas) welding. The weld area is protected from oxidation with an inert shielding gas with a very smooth finish at the bead.



of the weld (above) is obtained by TIG welding method (below). The smooth bead (welded area) is vital for the water flow



Thorough Quality Assurance

The manufacturer's responsibility goes far beyond just production.

Our skilled craftsmen run a minute visual check on every single joint to ensure the best quality.

All welded fittings are examined for airtightness.

> Molco Joints are 100% visually examined by our craftsmen, all welded fittings checked for airtightness.



Performance Tests

Molco Joint meets all the performance requirements set by the Japan Stainless Steel Association (SAS322), as well as many water authorities in and outside Japan



Pull-out test (above) Accelerated degradation test (below) Vibration test (bottom)





Item List



Items with BSP tapered thread



-T-A	M		CO. Bain
No.	Size (OD)	No.	Size (OD)
U115	15	U21512	15×1/2
U122	22	U22234	22×3/4
U128	28	U2281	28×1

Size (OD)

22×15

Size (OD)

15

22

28

No.

No.

C15

C22

C28

*For information on items not listed here, please contact us.

90°Elbow (male)		90°Elbow	90°Elbow (female)	
No.	Size (OD)	No.	Size (OD)	
AEM1512	15×1/2	AEF1512	15×1/2	
AEM2234	22×3/4	AEF2212	22×1/2	
AEM281	28×1	AEF2234	22×3/4	

AEF281

28×1

Insulation Union



NO.	SIZE (UD)	
IUG1512	15×1/2	
IUG2234	22×3/4	
IUG281	28×1	