

# PRE-SETTING DEVICE



PSD-S

イハラサイエンス株式会社 IHARA SCIENCE CORPORATION

## PRE-SETTING DEVICE MODEL: PSD-S

#### (1) Structure and Function of Pre-Setting Device PSD-S

This device performs pre-setting by cam mechanism as illustrated in the figure below for bite type fittings within the tube range of 4 to 20 mm outside diameter or 1/8B to 3/8B.

By pressing the lever down, the clamping jig attached to the push rod slides toward the clamping plate by cam action and force the sleeve to bite into the tube.

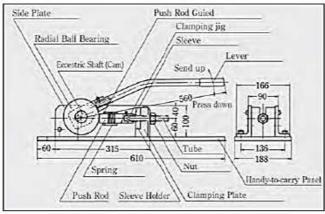


Figure 1. Pre-setting device mechanism Weight: 17kgs.

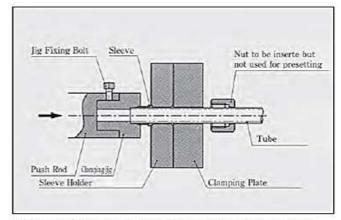


Figure 2. Detailed drawing of pre-setting components

#### (2) STANDARD COMPONENTS

For pre-setting with this device (PSD-S) it will be necessary to select clamping jig and sleeve holder applicable to the outside diameter of the tube to be used.

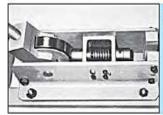
The clamping jigs and sleeve holders are not included with the pre-setting device and must be separately ordered.

Tube OD	Clamping jig	Sleeve holder
4	PJS04-000N (PSD-SJ-4)	PJU04-00SN (PSD-SU-4)
6	PJS06-000E (PSD-SJ-6)	PJU06-00SE (PSD-SU-6E)
8	PJS08-000E (PSD-SJ-8)	PJU08-00SE (PSD-SU-8E)
10	PJS10-000E (PSD-SJ-10)	PJU10-00SE (PSD-SU-10E)
12	PJS12-000E (PSD-SJ-12)	PJU12-00SE (PSD-SU-12E)
15	PJS15-000E (PSD-SJ-15)	PJU15-00SE (PSD-SU-15E)
16	PJS16-000E (PSD-SJ-16)	PJU16-00SE (PSD-SU-16E)
18	PJS18-000E (PSD-SJ-18)	PJU18-00SE (PSD-SU-18E)
20	PJS20-000E (PSD-SJ-20)	PJU20-00SE (PSD-SU-20E)
1/8B	PJSII-000N (PSD-SJ-G1/8)	PJU11-00SN (PSD-SU-G1/8)
1/4B	PJS13-000E (PSD-SJ-G1/4)	PJU13-00SN (PSD-SU-G1/4)
3/8B	PJS17-000N (PSD-SJ-G3/8)	PJU17-00SN (PSD-SU-G1/8)

#### (3) CAUTION

- I) Cut the tube at a right angle and remove all burrs from the outside and inside of the cut tube end.
- 2) In case of bent tube, the straight portion of the tube must be longer than 80mm from both tube ends.
- 3) Lubricate the moving parts of the device with oil timely.

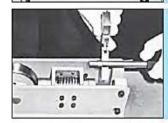
## (4) OPERATION PROCEDURE OF PRE-SETTING DEVICE PSD-S



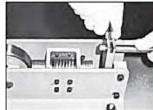
①Raise the lever and open space between the push rod and the clamping plate.



②Attach a clamping jig of the same size as the tube.



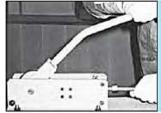
- ③Insert the nut and the sleeve into the tube with correct order and direction, and set the sleeve holder between the nut and the sleeve.



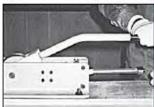
Mount the tube with the nut and the sleeve on the pre-setting device.



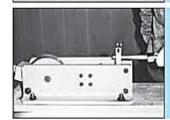
- (5) The tube end must be contacting and seated firmly against the shoulder of the clamping jig.



⑥Push down on the lever.



- OClamp down on the lever until it can no longer be pressed.
- ⚠ CAUTION: Press down on the lever until firmly contacting.



- ®Lift up the lever to loose the clamp and remove the tube with the two-piece sleeve holder.
  - The presetting operation completed.

### (5) FINAL TIGHTENING

The tube that have been pre-set is now ready to be installed to the fitting body at the piping site. In the installing operation, the tightening torque while tightening the nut with a spanner will suddenly increase upon reaching a certain point called (sharp torque rise point), then from this point turn additionally I/4 turn to complete the installation.

⚠ WARNING: Perform tightening of the nut on firm footing, and ascertain the safety of the surrounding.

⚠ CAUTION: Insufficient tightening can result in leakage and tube slippage.

⚠ CAUTION: Clean the sleeve after pre-setting and the taper bore of the fitting body with cloth and blow clean with compressed air before assembling. When foreign material becomes caught, sealing function can be impaired.