

 JÄGER Umwelt-Technik Language: English	Technical Information Date revised: 11. June 2014	Diffuser Engineering Guide 17. August 2015
Installation of JetFlex[®] Disc Diffusers using EPDM-Grommets (Universal Adapter)		

1. Header Material

Jaeger Disc Diffusers with R^{3/4} (DIN-EN 10226) nipple may be installed onto all plastic pipes suitable for waste water and hot air. Drop lines should be made from stainless steel in order to cool the air sufficiently not to deform plastic headers. Especially U-PVC-pipes have a heat distortion temperature (HDT) of less than 70°C (< 160 F) HDPE pipes must be tempered, otherwise headers will twist considerably after contact with warm air. JUT can supply pipes with proper openings and grommets installed from Hannover (Germany), Denver (USA), and Shenzhen (China).

2. Dimensions

Grommets are suitable for all plastic pipes with outer diameter (OD) between 89 and 127 mm (3½ and 5 inch). Wall thickness for the Universal Saddle should be between 4 and 8 mm (.157" to .315"). The exertion force for this saddle is approx. 850 N with disc properly installed. Universal Saddle works with all HD disc diffuser with ¾" male thread.

3. Shaping the openings

The opening simply should measure Ø 32.0 mm (plus 0 minus 0.5 mm) or 1 ¼" ± .01". In order to achieve this tolerance proper tooling and experienced personnel are required. All openings must not deviate more than 3° from the vertical. Deburr all edges (inside and out) and remove all debris from within the pipe.

4. Insertion of grommet

To ease insertion the grommet may be wetted with a lubricant. Recommended lubricants are commercial-grade water-based soap (5 - 10%) or regular household detergents (0.01 to 0.1%). Do not use lubricants containing mineral oils or other hydrocarbons. If outside temperature is below 5 °C (40F) keep grommets in a bucket of warm water for at least 15 minutes prior to insertion. Press the grommet into the hole and turn it back and forth until the grommet sets onto the plastic pipe. Saddle type "4.7" and "6.3" (for HD235 and HD 325 only) will snap into the opening. Here a slightly loose fit is OK.

5. Insertion of disc into grommet

Press the disc with its R^{3/4} tapered thread into the grommet; turn the disc clockwise until the lower rim of the disc sets onto the lateral piping. Use the special offset fork wrench (JUT # 12013) to avoid rotation of the grommet. Do not twist the disc's membrane. The grommet must not be deformed during insertion of disc. Unscrew disc and tighten again if necessary. Use new grommets for damaged ones.

6. Leak and Pattern Test

Run a leak and pattern test immediately after completion of diffuser installation; see technical info "Leak and Pattern Test" for details.

7. Exchanging discs

- Remove sludge from diffusers with pressure-washer; follow safety guidelines of manufacturer of pressure-washer.
- Unscrew diffuser and remove grommet by hand, do not use tools!
- Do not damage the holes in the header.
- Clean sealing area and connector, use new grommet.
- Mount new diffusers as described in chapter above
- Run leak-test as described above

8. Disclaimer

This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application. US units are for convenience only. Any existing industrial property rights must be observed. The quality of our products is guaranteed under our General Conditions of Sale.

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