



**CITY OF AUSTIN
STANDARD PRODUCTS LIST**

for
JOINT RESTRAINT DEVICES, 4 INCH THROUGH 16 INCH DIAMETER

USING DEPARTMENT: Water Utility **ISSUED:** 03/24/83 **REVIEWED:** 10/01/12 **REVISED:** 10/01/12

PREPARED BY: William Flynn, P.E. **CITY STOCK NUMBER:**

DESCRIPTION: Restraint Devices for joints on pipe, fittings, and valves. Devices shall be 1) wedge-action lug-type mechanical joint (MJ) Retainer Glands, 2) split, full-circle grip-ring type with High Strength Low Alloy (HSLA) threaded thrust rods and nuts and stainless steel clamping bolts and nuts, or 3) single-piece, solid-body bolt-through type. For use only with 4" – 16" Ductile Iron (DI) pipe or 4" – 12" AWWA C900 (PVC) pipe as indicated and color-coded as noted. Restraint devices shall have a working pressure rating that equals or exceeds the pressure of the pipe, fittings, or valves on which they are used. The only approved products are those having the exact same identification as listed below.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT	APPROVAL
10/01/96	EBAA IRON, INC. Box 857 Eastland, TX 76448	Megalug: 1104 to 1116, Black MJ retainer gland for DI pipe 1704 to 1716, Black MJ retainer gland for DI pipe w/push-on joints 2004PV to 2012PV, Red MJ retainer gland for PVC pipe Megaflange: 2104 to 2112, Red MJ retainer gland for PVC pipe, for above ground installation PVC Bell Restraint Harness 1500, Red split full-circle grip rings w/HSLA threaded rods and stainless steel clamping bolts	R. Lamb
10/01/00	UNI-FLANGE/DIVISION OF FORD METER BOX CO. P.O. Box 443 Wabash, IN 46992-0443	Uni-Flange: UFR 1300 C-4 to C-8, Split full-circle grip-rings w/HSLA bolts and stainless steel clamping bolts. Black for DI, red for PVC. UFR 1390 C-4 to C-8, Split full-circle grip-rings w/HSLA threaded rods and stainless steel clamping bolts. Black for DI, red for PVC. UFR 1400 D-4 to D-16, Black MJ retainer gland for DI pipe UFR 1450 D-4 to D-16, Black MJ retainer gland for DI pipe with push-on joints UFR 1500 CA-4 to CA-12, Red MJ retainer gland for PVC pipe	R. Lamb
04/01/98	JL, RR, CD, EF, DMY, QB, HX, YS FOUNDRIES (CHINA) STAR PIPE PRODUCTS, INC. 4018 West Hollow Pkwy. Houston, TX 77082	Stargrip: 3000, Black MJ retainer gland for DI pipe, 4" - 16" 4000, Red MJ retainer gland for PVC pipe, 4" - 12" PVCgrip: 3500, Red MJ retainer gland for PVC pipe, 4" - 12" PVC Pipe Restrainers 1000, Red split full-circle grip-rings w/HSLA threaded rods and stainless steel clamping bolts for PVC pipe, 4" - 12" 1100, Red split full-circle grip-rings w/HSLA threaded rods and stainless steel clamping bolts for PVC pipe, 4" - 12" Bolt-through Type: Series 100 MJ x MJ Adaptor	R. Lamb



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LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT	APPROVAL
10/01/98	ROMAC INDUSTRIES, INC. P.O. Box 3212 Seattle, WA 98114	GripRing, Yellow MJ retainer gland w/black split full-circle grip-rings for DI or PVC pipe, 4" - 12" RomaGrip, Black MJ retainer gland for DI pipe, 4" - 16"	W. Flynn
11/26/01	A-1 FOUNDRY (CHINA) SIGMA CORP P.O. Box 300 Rt. 537 Goldman Road Cream Ridge, NJ 08514	One Lok (SLD) Black MJ retainer gland for DI pipe, 4" - 16" (SLC) Red MJ retainer gland for PVC pipe, 4" - 12"	K. Flowers
07/01/09	TYLER UNION 11910 CR 492 Tyler, TX 75706	TUFGrip (TLD) Black MJ retainer gland for DI pipe, 4" - 16" (TLP) Red MJ retainer gland for PVC pipe, 4" - 12"	R. Lamb
07/01/11	SMITH-BLAIR, INC. 30 Globe Ave. Texarkana, AR 71854	Bell-Lock Serrated Joint Restraint Harness Model 165 Split full-circle grip-rings w/HSLA threaded rods and stainless steel clamping bolts. Black for DI, red for PVC.	R. Lamb
10/01/12	INFACOT CORP. 7555 Caney Fork Rd. Fairview, TX 37062	Bolt-through Type: Foster MJ x MJ Adaptor	R. Lamb

NOTE:

1. Only manufacturer's products indicated shall be used.
2. Restraint devices for DI pipe shall have a black coating.
3. Restraint devices for PVC pipe shall have a red coating.
4. These devices are not to be used on Plain-end DI fittings.
5. Specifying or use of restraint devices outside the indicated size range requires prior approval by Austin Water Utility on a project-by-project basis.
6. Threaded thrust rods and nuts used with split, full-circle grip-ring restraint devices must be High Strength Low Alloy steel supplied by the restraint device manufacturer. Galvanized All-thread or similar rod is not allowed.
7. High Strength Low Alloy components must meet AWWA C111.
8. Warning tape shall be placed on the top of PVC pipe restrained by these devices and on the top of polyethylene wrap around DI pipe restrained with these devices for the full length of restrained joint pipe and fittings. The warning tape shall be yellow and shall have black lettering at least 2 inches high that states "Restrained Joint / Junta de Restriccion" at intervals not exceeding 24 inches. The warning tape shall be polypropylene having a minimum thickness of 2 mils, a minimum width of 3 inches, and adhesive backing on the side opposite the lettering.

[Inspector—show location of restrained pipe and fittings on intersection drawings. Also show on record drawings along with manufacturer's name.]