



CITY OF SAN MARCOS
STANDARD PRODUCTS LIST

SPL No. WW-27A

Sheet 1 of 2

for

JOINT RESTRAINT DEVICES, 4 INCH THROUGH 24 INCH DIAMETER

ISSUED: 09/01/2014

REVISED: 08/15/2018

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" – 24" Ductile Iron (DI) pipe or 4"– 24" 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.

APPROVAL DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
10/1/1996	EBAA IRON, INC. Box 857 Eastland, TX 76448	Megalug: 1104 to 1116, Black MJ retainer gland for DI pipe 1704 to 1716, Black Bell Joint Restraint Harness 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
6/1/2018	UNI-FLANGE/DIVISION OF FORD METER BOX CO. P.O. Box 443 Wabash, IN 46992-0443	Uni-Flange: UFR 1300 Split full-circle grip-rings w/HSLA bolts and stainless steel clamping bolts. DI Pipe: C-4 to C-16 PVC Pipe: C-4 to C-12 UFR 1390 Split full-circle grip-rings w/HSLA threaded rods and stainless steel clamping bolts. DI Pipe: C-4 to C-16 PVC Pipe: C-4 to C-12 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-16, Red MJ retainer gland for PVC pipe Note: CA = Kit; C = Gland & -I = Import; -U = USA Made
4/1/1998	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" PVC grip: 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
10/1/1998	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" RomaGrip, Red MJ retainer gland for PVC pipe, 4" - 12"



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APPROVAL DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT
8/15/2018	A-1 FOUNDRY (CHINA) SIGMA CORP P.O. Box 300 Rt. 537 Goldman Road Cream Ridge, NJ 08514	<u>Wedge Restraint</u> One-Lok Series (SLD) Black MJ retainer gland for DI pipe (SLC) Red MJ retainer gland for PVC pipe <u>Bell Joint Serrated Restraint</u> - split full circle grip w/HSLA threaded rods and stainless steel calmping bolts One-Lok Series (SLDEH) Black for DI pipe PV-Lok Series (PWP-C) Red for PVC pipe
7/1/2009	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"
7/1/2011	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.
10/1/2012	INFACT CORP. 7555 Caney Fork Rd. Fairview, TX 37062	Bolt-through Type: Foster MJ x MJ Adaptor
4/1/2013	GAOMI ZHONGYIDE (China) ACCUCAST 415 South 21st Avenue Waco, TX 76706	Bolt-through Type: MJ x MJ Accu Adaptor
5/1/2015	SIP Industries 2900 Patio Dr. Houston, TX 77017	Mechanical Joint Restraint Glands EZDI Black for Ductile Iron, EZPVC Red for PVC Pipe Pipe to Pipe Bell Restraints EZPVC Red for PVC

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.]