

Water, Sewer & Drain Fittings B-12

Mechanical Joint Accessories

Standard Ductile Iron Glands



SIZE	WT.	PRODUCT NUMBER
3"	4	44040
4"	4	44085
6"	6	40155
8"	8	44225
10"	10	44300
12"	12	44365
14"	16	44418
16"	20	44441
18"	31	44467
20"	43	44486
24"	50	44505 1

T-Bolts and Nuts



SIZE	NO. PER JOINT	SIZE & LENGTH	PRODUCT NUMBER
3"	4	5/8" x 3"	44050
4"	4	3/4" x 3 1/2"	44095
6"	6	3/4" x 3 1/2"	40095
8"	6	3/4" x 3 1/2"	40095
10"	8	3/4" x 3 1/2"	40095
12"	8	3/4" x 3 1/2"	40095
14"	10	3/4" x 4"	44235
16"	12	3/4" x 4"	44235
18"	12	3/4" x 4"	44235
20"	14	3/4" x 4"	44235
24"	16	3/4" x 4 1/2"	44430

NOTE: The bolt lengths given are for C-153 compact ductile iron fittings and glands; longer bolts are required when using C-110 cast or ductile iron fittings and valves as well as some joint restraints.

SHORT SPEC:

Mechanical joint nuts and bolts will be Corten or Ductile Iron and shall conform to AWWA C-111, 11-7.5 and ANSI A21.11 for high strength low alloy steel having the following composition; a maximum of .20% carbon, 1.25% manganese, .05% sulfur, .25% nickel, .20% copper and a minimum combined 1.25% of nickel, copper and chromium. The mechanical joint nuts and bolts shall also have a minimum yield strength of 45,000 psi and an elongation in 2" increments of 20%.

MJ Packaged Accessories



SIZE	PRODUCT NUMBER	
	STANDARD	TRANSITION*
2"	43998 1	43998
3"	44032	44031
4"	44089	44088
6"	44159	44166
8"	44229	44228
10"	44304	44304 1
12"	44369	44368
14"	44419	—
16"	44442	—

* Transition accessory sets are for IPS O.D. pipe; see table to the right.

SHORT SPEC:

Mechanical joint gaskets shall comply with AWWA C-111 and ANSIA21.11 for SBR (Styrene-Butadiene (synthetic) Rubber) gaskets.

MJ Gaskets



Standard Gasket SBR

SIZE	PRODUCT NUMBER		
	STANDARD	MJ x IPS	MJ x SDR 35
2"	43996	43997	—
3"	44405	44060	—
4"	44090	44105	44106
6"	44160	44170	44171
8"	44230	44245	44246
10"	44305	44315	44316
12"	44370	44380	44381
14"	44425	—	—
16"	44455	—	—
18"	44475	—	—
20"	44495	—	—
24"	44515	—	—

Gasket I.D. Chart

SIZE	GASKETS FIT PIPE WITH THESE O.D.'S		
	STANDARD	MJ x IPS	MJ x SDR 35
2"	2.50	2.38	—
3"	3.96	3.50	—
4"	4.80	4.50	4.21
6"	6.90	6.63	6.27
8"	9.05	8.63	8.40
10"	11.10	10.75	10.50
12"	13.20	12.75	12.50
14"	15.30	—	—
16"	17.40	—	—
18"	19.50	—	—
20"	21.60	—	—
24"	25.80	—	—

Water, Sewer & Drain Fittings B-14

Mechanical Joint Restraining Accessories

Rod Clamps



Rod Clamps are attached to ductile iron or cast iron pipe to restrain underground pipe joints and to prevent joint separation due to thrust and earth movement. They are used in conjunction with Rod Clamp Washers, Threaded Rod, and Heavy Hex Nuts.

ROD CLAMPS	SIZE	PRODUCT NUMBER
	3"	44575
	4"	44580
	6"	44585
	8"	44590
	10"	44595
	12"	44600
	14"	44605
	16"	44610
	18"	44612
20"	44614	

Tie Bolts



Tie Bolts are used in place of "T" Bolts in mechanical joint connections to accept the threaded rod for restraining underground pipe joints.

SIZE	PRODUCT NUMBER
5/8" x 3"	44555
3/4" x 4"	44560

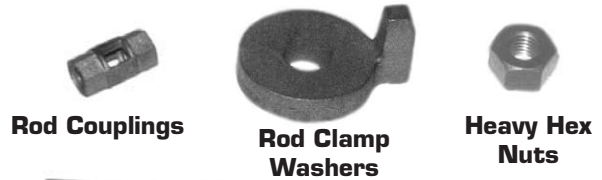
Duc Lugs



Duc Lugs are used to restrain the mechanical joint. They are placed between the MJ gland and the mechanical joint bell and accept the "T" bolt and the threaded rod. They restrain underground pipe joints without interfering with the MJ gland compressing the MJ gasket.

SIZE	PRODUCT NUMBER
3/4"	44565

Threaded Rod and Accessories

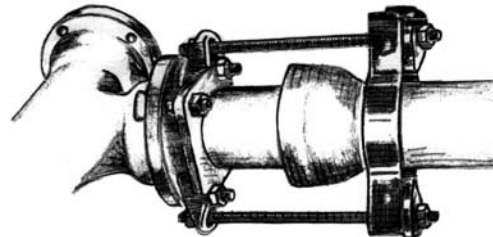


Rod Couplings

Rod Clamp Washers

Heavy Hex Nuts

Threaded Rod



Typical Application

SIZE	DESCRIPTION	PRODUCT NUMBER
5/8"	Threaded Rod	44535
3/4"	Threaded Rod	44540
1"	Threaded Rod	44541
5/8"	Rod Coupling	44545
3/4"	Rod Coupling	44550
1"	Rod Coupling	44552
3/4"	Rod Clamp Washer	44615
1"	Rod Clamp Washer	44617
5/8"	Hex Nut	44620
3/4"	Hex Nut	44625
1"	Hex Nut	44632