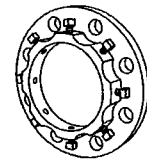
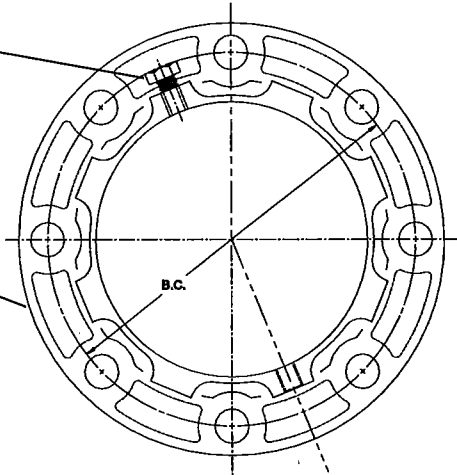


SUBMITTAL INFORMATION**Adapter Flange (UFA200-C-x style)****UNI-FLANGE® SERIES 200 ADAPTER FLANGE FOR DUCTILE IRON PIPE**

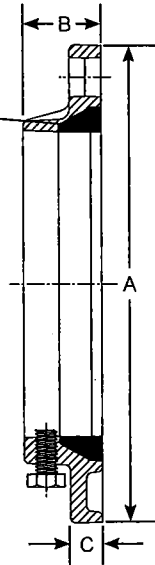
Set Screw - AISI 4140 Steel;
Tensile 190,000 psi
minimum. Heat treated to
35-39 Rockwell C and zinc
plated for corrosion resistance

Flange - Ductile Iron per
ASTM A536, Grade 65-45-12.
Drilling to AWWA Class D,
ANSI B16.1 (125 lb. cast iron),
or ANSI B16.5 (150 lb. steel)

Color Code: Red for ductile
iron applications



Gasket - SBR (Buna-S)
mechanical joint gasket



NOM. PIPE SIZE	DUCTILE IRON PIPE		APPROX. WT. LBS.	PRESSURE RATING PSI	SET SCREWS		FLANGE			NO. OF BOLT HOLES	BOLT CIRCLE DIA.	✓ SUBMITTED ITEM(S)
	OD	CATALOG NO.			NUMBER	SIZE	OD A	THICKNESS B	THICKNESS C			
2"	2.50	UFA200-C-2	4.2	200	2	1/2"x1"	6"	1-13/16"	3/4"	4	4-3/4"	
3"	3.96	UFA200-C-3	6.0	200	4	1/2"x1"	7-1/2"	1-13/16"	3/4"	4	6"	
4"	4.80	UFA200-C-4	8.5	200	4	1/2"x1"	9"	1-13/16"	3/4"	8	7-1/2"	
6"	6.90	UFA200-C-6	10.7	200	8	1/2"x1"	11"	1-13/16"	3/4"	8	9-1/2"	
8"	9.05	UFA200-C-8	19.6	200	8	5/8"x1-1/4"	13-1/2"	2-1/4"	22/25"	8	11-3/4"	
10"	11.10	UFA200-C-10	25.3	175	12	5/8"x1-1/4"	16"	2-15/16"	1"	12	14-1/4"	
12"	13.20	UFA200-C-12	33.2	175	12	5/8"x1-1/4"	19"	2-15/16"	1"	12	17"	

FEATURES

- Restraint is provided by a set screw locking device similar to that used in mechanical joint retainer glands
- The gasket is an SBR (Buna-S) mechanical joint gasket. Available with optional EPDM or NBR (Buna-N) gasket
- Designed for ease of on-site installation. Eliminates bolt hole alignment problems and allows for pipe deflection
- Series 200 adapter flanges are not recommended for use on PVC pipe. Use the Uni-Flange Series 900 flanges instead
- Optional uni-torque set screws are available for use with Series 200 adapter flanges for ductile iron pipe, class 52-56. To order, add -UT to the catalog number. Example: UFA200-C-6-UT
- Optional stainless steel set screws, type 410 per ASTM F593, are available for Series 200 adapter flanges. To order, add -SS to the catalog number. Example: UFA200-C-6-SS.

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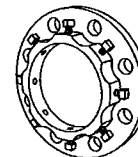
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03/14/18

Submitted By:

SUBMITTAL INFORMATION

Adapter Flange (UFA400-C-x style)

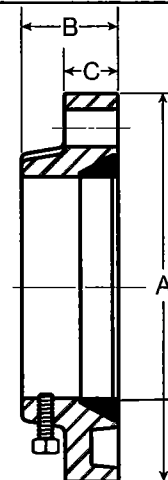
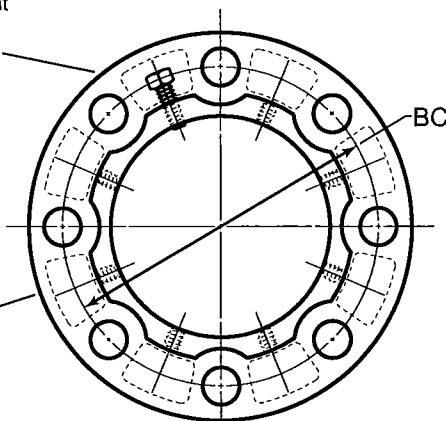


UNI-FLANGE® SERIES 400 ADAPTER FLANGE FOR DUCTILE IRON PIPE

Set Screw - AISI 4140 Steel;
Tensile 190,000 psi minimum. Heat
treated to 35-39 Rockwell C, and
zinc plated for corrosion resistance

Flange - Ductile Iron per ASTM
A536, Grade 65-45-12. Drilling
to AWWA Class D and E,
ANSI B16.1 (125 lb. cast iron), or
ANSI B16.5 (150 lb. steel)

Color Code: Red for ductile iron
applications



Gasket - SBR (Buna-S)
Mechanical Joint Gasket

NOM. PIPE SIZE	DUCTILE IRON PIPE		APPROX. WT. LBS.	PRESSURE RATING PSI	SET SCREWS		FLANGE			No. OF BOLT HOLES	BOLT CIRCLE DIA.	✓ SUBMITTED ITEM(S)
	OD	CATALOG No.			NUMBER	SIZE	OD A	APPROX. THICKNESS B	APPROX. THICKNESS C			
**2"	2.50	**Use UFA200-C-2										
3"	3.96	UFA400-C-3	8	250	4	1/2"x1"	7-1/2"	2-1/8"	1-7/64"	4	6"	
4"	4.80	UFA400-C-4	11	250	8	1/2"x1"	9"	2-1/8"	1-7/64"	8	7-1/2"	
6"	6.90	UFA400-C-6	14	250	8	5/8"x1-1/4"	11"	2-3/8"	1-7/64"	8	9-1/2"	
8"	9.05	UFA400-C-8	21	250	8	5/8"x1-1/4"	13-1/2"	2-3/8"	1-7/64"	8	11-3/4"	
10"	11.10	UFA400-C-10	38	250	12	5/8"x1-1/4"	16"	2-7/16"	1-3/16"	12	14-1/4"	
12"	13.20	UFA400-C-12	56	250	12	5/8"x1-1/4"	19"	2-1/2"	1-1/4"	12	17"	
14"	15.30	UFA400-C-14	70	150	12	5/8"x1-1/4"	21"	2-7/8"	1-3/8"	12	18-3/4"	
16"	17.40	UFA400-C-16	79	150	16	5/8"x1-1/4"	23-1/2"	2-13/16"	1-24/64"	16	21-1/4"	
18"	19.50	UFA400-C-18	90	150	16	3/4"x2"	25"	3-1/16"	1-9/16"	16	22-3/4"	
20"	21.60	UFA400-C-20	145	150	20	3/4"x2"	27-1/2"	3-3/16"	1-11/16"	20	25"	
24"	25.80	UFA400-C-24	175	150	20	3/4"x2"	32"	3-3/8"	1-7/8"	20	29-1/2"	
30"	32.00	UFA400-C-30	270	100	28	1"x2-1/4"	38-3/4"	4-1/8"	2-7/64"	28	36"	
36"	38.30	UFA400-C-36	400	100	32	1"x2-1/4"	46"	4-3/8"	2-3/8"	32	42-3/4"	
42"	44.50	UFA400-C-42	495	100	36	1"x2-1/4"	53"	4-5/8"	2-5/8"	36	49-1/2"	
48"	5.80	UFA400-C-48	660	100	44	1"x2-1/4"	59-1/2"	4-3/4"	2-3/4"	44	56"	

FEATURES

- Restraint is provided by a set screw locking device similar to that used in mechanical joint retainer glands.
- The gasket is an SBR (Buna-S) mechanical joint gasket. Available in optional EPDM or NBR (Buna-N) gasket
- Designed for ease of on-site installation. Eliminates bolt hole alignment problems and allows for pipe deflection.
- Series 400 adapter flanges are not recommended for use on PVC pipe. Use the Uni-Flange® Series 900 flanges instead.
- Optional uni-torque set screws are available for use with 3"-16" Series 400 adapter flanges for ductile iron pipe, class 52-56. To order, add -UT to the catalog number. Example: UFA400-C-6-UT.
- Optional stainless steel set screws, type 410 per ASTM F593, are available for Series 400 adapter flanges. To order, add -SS to the catalog number. Example: UFA400-C-6-SS

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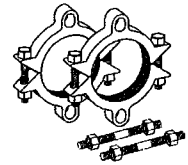
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03/16/18

Submitted By:

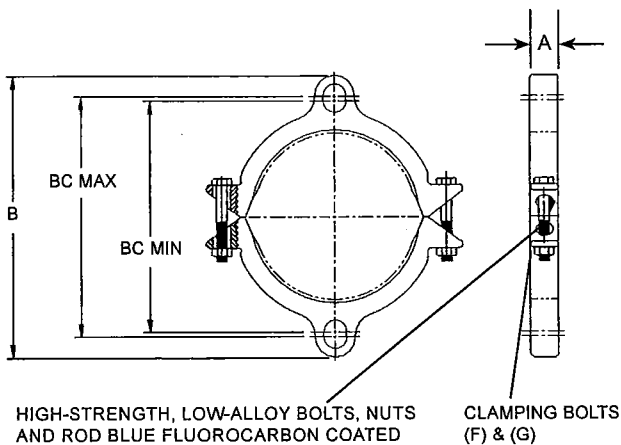
SUBMITTAL INFORMATION

Uni-Flange Restraint (UFR1390-C-x-RB-I style)

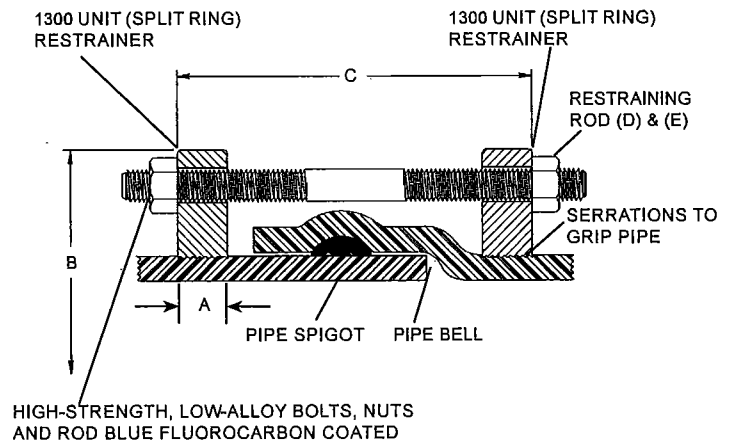


SERIES 1390-C RESTRAINT DEVICE FOR C900 PVC AND DUCTILE IRON PIPE PIPE BELL JOINTS
WITH BLUE FLUOROCARBON-COATED ACCESSORIES

1300 SPLIT RESTRAINER



1390 ASSEMBLY



NOM PIPE SIZE	PVC PIPE WITH DI PIPE OD STYLE 1390-C		A	B APPROX	C MAX	RESTRAINING RODS		CLAMPING BOLTS		BC MAX	BC MIN	✓ SUBMITTED ITEMS
	OD	CATALOG No.				No. D	SIZE E	No. F	SIZE G			
4"	4.80	UFR1390-C-4-RB-I	1-1/8"	9-1/8"	15"	2	3/4" x 17"	4	5/8" x 3-1/2"	7.50"	7.14"	
6"	6.90	UFR1390-C-6-RB-I	1-1/8"	11-1/8"	15"	2	3/4" x 17"	4	5/8" x 3-1/2"	9.50"	9.14"	
8"	9.05	UFR1390-C-8-RB-I	1-1/4"	14-5/8"	15"	2	3/4" x 17"	4	3/4" x 4"	12.98"	11.36"	
10"	11.10	UFR1390-C-10-RB-I	1-3/8"	16-5/8"	22"	4	3/4" x 24"	4	7/8" x 5"	15.00"	13.50"	
12"	13.20	UFR1390-C-12-RB-I	1-3/8"	19-1/4"	22"	4	3/4" x 24"	4	7/8" x 5"	17.62"	15.62"	

FEATURES

- 4" - 12" sizes: Cast ductile iron per ASTM A536 grade 65-45-12
- 360° contact and support of the pipe wall
- Restraining rods are high strength, low alloy steel per ANSI / AWWA C111 / A21.11, with blue fluorocarbon-coating
- Clamping bolts and nuts are Grade 5 with blue fluorocarbon coating
- Black e-coat epoxy-coated
- Rated at full-rated pressure of any class of PVC pipe, minimum 2:1 safety factor.
- Ductile iron pipe shall have the following pressure ratings: 4" through 8" = 250 psi
10" and 12" = 200 psi

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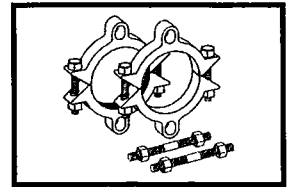


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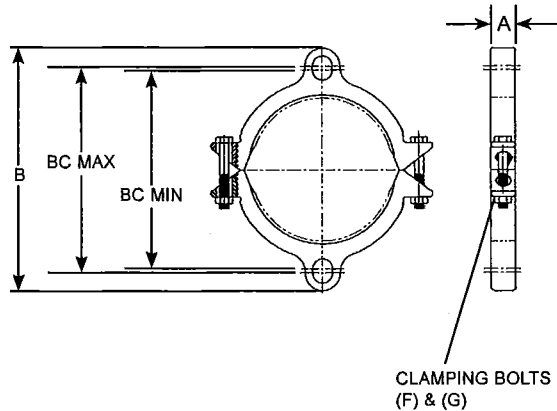
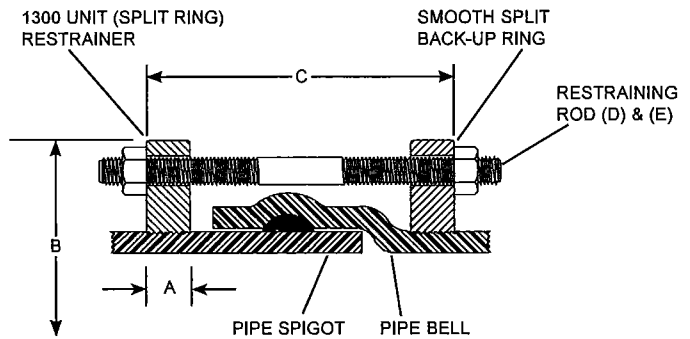


08/01/16

Submitted By:

SUBMITTAL INFORMATION**Uni-Flange Restraint (UFR1355-C-x-RB-U style)**

**4"-12" SERIES 1355-C RESTRAINT DEVICE FOR C900 PVC PIPE BELL JOINTS
WITH BLUE FLUOROCARBON-COATED ACCESSORIES**

1300 SPLIT RESTRAINER**1355 ASSEMBLY**

NOM PIPE SIZE	PVC PIPE WITH DI PIPE OD STYLE 1355-C		A	B APPROX	C MAX	RESTRAINING RODS		CLAMPING BOLTS		BC MAX	BC MIN	✓ SUBMITTED ITEMS
	OD	CATALOG No.				No. D	SIZE E	No. F	SIZE G			
X 4"	4.80	UFR1355-C-4-RB-U	1-1/8"	9-1/8"	12"	2	3/4" x 17"	4	5/8" x 3-1/2"	7.50"	7.14"	
X 6"	6.90	UFR1355-C-6-RB-U	1-1/8"	11-1/8"	13"	2	3/4" x 17"	4	5/8" x 3-1/2"	9.50"	9.14"	
X 8"	9.05	UFR1355-C-8-RB-U	1-1/4"	14-5/8"	15"	2	3/4" x 17"	4	3/4" x 4"	12.98"	11.36"	
X 10"	11.10	UFR1355-C-10-RB-U	1-3/8"	16-5/8"	16"	4	3/4" x 24"	4	7/8" x 5"	15.00"	13.50"	
X 12"	13.20	UFR1355-C-12-RB-U	1-3/8"	19-1/4"	18"	4	3/4" x 24"	4	7/8" x 5"	17.62"	15.62"	

FEATURES

- 4" - 12" sizes: Cast ductile iron per ASTM A536, Grade 65-45-12
- 360° contact and support of the pipe wall
- Restraining rods are high strength, low alloy steel per ANSI / AWWA C111 / A21.11 with blue fluorocarbon coating
- Rated at full-rated pressure of any class of PVC pipe, minimum 2:1 safety factor
- Rated for 150 psi on ductile iron pipe up to 10". Rated for 125 psi on 12" size
- Castings are manufactured in the United States of America

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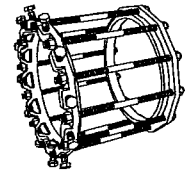


04/26/16

Submitted By:

SUBMITTAL INFORMATION

Uni-Flange Retainer (UFR1450-D-x-RB-I style)

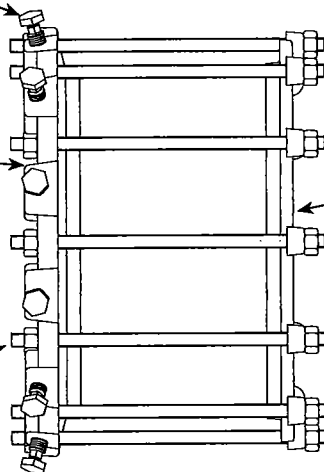


WEDGE ACTION SERIES 1450-D RESTRAINT ASSEMBLY (WITH BLUE FLUOROCARBON-COATED ACCESSORIES) FOR DUCTILE IRON PUSH-ON CONNECTIONS

Auto-Tork Set Screw
Ductile Iron per ASTM
A536 Grade 65-45-12
ANSI/AWWA C111/
A21.11

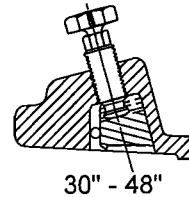
Series 1400
Ductile Iron per ASTM
A536 Grade 65-45-12
ANSI/AWWA C111/
A21.11

Tie Rod and Nuts
High strength, low
alloy steel per ANSI/
AWWA C111/A21.11
or high strength steel
per ASTM A193, grade
B7 (blue fluorocarbon-
coated)

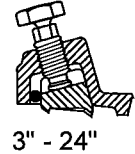


Back-Up Ring
Ductile Iron per ASTM
A536 Grade 65-45-12
ANSI/AWWA C111/
A21.11 or Carbon Steel
per ASTM A36
(Assembled on bell end)

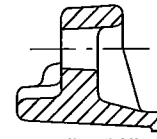
1400 PROFILE



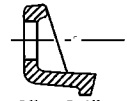
30" - 48"



3" - 24"



30" - 48"



3" - 24"

NOM. PIPE SIZE	PIPE O.D.	RODS No.	ROD LENGTH	ROD DIA.	PRESSURE RATING (PSI)	**MAX BELL DIA.	APPROX. WT. (LBS.)	CATALOG NUMBER	✓ SUBMITTED ITEM(S)
3"	3.96	4	14"	5/8"	350	5.50"	12	UFR1450-D-3-RB-I	
4"	4.80	4	17"	3/4"	350	6.62"	20	UFR1450-D-4-RB-I	
6"	6.90	6	17"	3/4"	350	8.62"	29	UFR1450-D-6-RB-I	
8"	9.05	6	17"	3/4"	350	10.88"	35	UFR1450-D-8-RB-I	
10"	11.10	8	24"	3/4"	350	13.12"	56	UFR1450-D-10-RB-I	
12"	13.20	8	24"	3/4"	350	15.38"	62	UFR1450-D-12-RB-I	
14"	15.30	10	24"	3/4"	350	17.88"	90	UFR1450-D-14-RB-I	
16"	17.40	12	24"	3/4"	350	20.12"	113	UFR1450-D-16-RB-I	
18"	19.50	12	24"	3/4"	250	22.38"	132	UFR1450-D-18-RB-I	
20"	21.60	14	24"	3/4"	250	24.62"	160	UFR1450-D-20-RB-I	
24"	25.80	16	24"	3/4"	250	29.12"	181	UFR1450-D-24-RB-I	
30"	32.00	10	24"	1"	250	35.80"	341	* UFR1450-D-30-RB-I	
36"	38.30	12	24"	1"	250	42.60"	430	* UFR1450-D-36-RB-I	
42"	44.50	28	52"	1-1/4"	250	49.25"	1350	UFR1450-D-42-RB-I	
48"	50.80	32	52"	1-1/4"	250	56.125"	1570	UFR1450-D-48-RB-I	

* Backup ring is painted steel for 30" and 36"

** Connecting rods WILL NOT CLEAR a pipe bell with a maximum diameter larger than the listed measurement.

FEATURES

- Back-up ring: Ductile iron per ASTM A536 grade 65-45-12 or carbon steel per ASTM A36
- Wedge activating screw: Ductile iron per ASTM A536 grade 65-45-12
- Gland: Ductile iron per ASTM A536 grade 65-45-12
- Wedge: Ductile iron per ASTM A536 heat treated to hardness of 370 BHN minimum
- Restraining rods & nuts: High strength, low alloy steel per ANSI/AWWA C111/A21.11 or high strength steel per ASTM A193, grade B7, blue fluorocarbon coated
- Coating: E-coat epoxy
- New installations only

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01/30/18

Submitted By:



HYMAX® FLANGE ADAPTOR* AND HYMAX LONG BODY FLANGE ADAPTOR (1.5"-60")

HYMAX®
Repair the past. Connect the future.

PRODUCT SPECIFICATIONS

FEATURES

- USING THE GAME-CHANGING HYMAX TECHNOLOGY, PROVEN IN OVER 1M INSTALLATIONS IN THE US
- SUITABLE FOR ALL TYPES OF PIPES - DUCTILE IRON, CAST IRON, STEEL, COPPER, PE, PVC, AC, GRP
- PATENTED HYDRAULICALLY-ASSISTED GASKET WITH 2-STAGE SEALING
- LIGHTWEIGHT CONSTRUCTION ENABLES FAST AND EASY INSTALLATION
- ALLOWS 4° DYNAMIC DEFLECTION, REDUCING FUTURE PIPE DAMAGE

ITEMS 31-39

SPECIFICATIONS

STANDARDS

HYMAX FLANGE ADAPTOR AND LONG BODY FLANGE ADAPTOR MEET OR EXCEED REQUIREMENTS OF STANDARDS: AWWA C219, NSF-61 AND NSF-372.

SIZE/LENGTH

AVAILABLE IN NOMINAL DIAMETER FROM 1.5"-24" STANDARD.
26"-60" MTO (MADE TO ORDER). CONTACT KRAUSZ FOR DETAILS.

MATERIALS

FLANGED BODY

1.5"-12" ASTM A53 GRADE A STEEL.
14"-60" ASTM A283 / A283M GRADE C STEEL.

FLANGE

1.5"-2" OVAL FLANGE FOR FLOW METER.
3" MEETS ANSI B16.5.
4"-24" MEETS AWWA CLASS D.
26"-60" CONTACT KRAUSZ FOR DETAILS.

END RINGS

1.5"-12" ASTM A283 / A283M GRADE C STEEL.
14"-16" ASTM A283 / A283M GRADE C STEEL.
(OR DUCTILE IRON CASTING ASTM A536 GRADE 60-40-18).
18"-60" ASTM A283 / A283M GRADE C STEEL.

SPHERICAL SPACERS

AISI 304 STAINLESS STEEL.

GASKET

EPDM AND NBR AVAILABLE. BOTH ARE COMPOUNDED FOR WATER AND SEWAGE, MEET INTERNATIONAL STANDARDS FOR CONTACT WITH DRINKING WATER.

BRIDGE

AISI 304 STAINLESS STEEL.

COATING

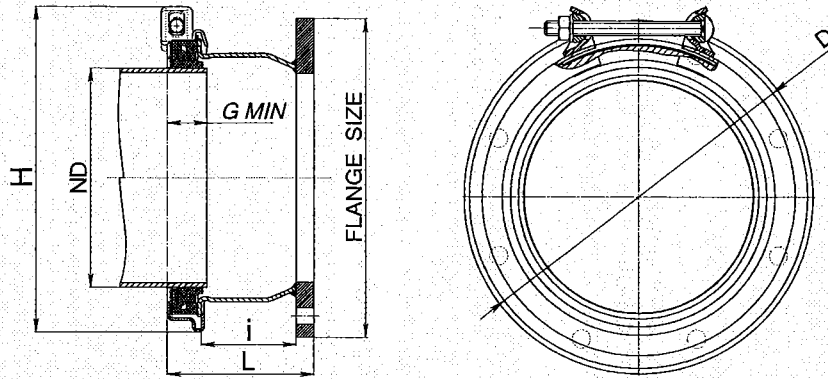
100% FUSION BONDED EPOXY FOR ENHANCED CORROSION PROTECTION.
NOMINAL THICKNESS 14 MIL.

NUTS AND BOLTS

AISI 304 STAINLESS STEEL. ROLLED THREAD AND ANTI-GALLING COATING.

PRODUCT TABLES

HYMAX FLANGE ADAPTOR NOMINAL SIZES 1.5"-12"



Krausz Part Number	ND (mm)	Flange (inch)	Overall Range (inch)	Before removal of inner layer (inch)	After removal of inner layer	D1 (inch)	H (inch)	i (inch)	L (inch)	D2 (inch)	B (inch)	Bolts Qty. -Size	Approx. Weight (Lbs)
874-56-01004112	15	1.5	1.61-2.13	1.61-1.97	1.96-2.13	Ø3.9	5.0	4.1	5.8	5.4	Ø1.95	1-M12	7
874-XX-02005412	2	2	2.10-3.03	2.10-2.60	2.56-3.03	Ø5.2	5.7	3.7	5.7	6.0	Ø2.44	1-M12	8
874-XX-03008812	3	3	3.46-4.33	3.46-3.90	3.86-4.33	Ø6.7	7.1	2.9	4.8	Ø7.5	Ø4.02	1-M12	12
874-XX-04010812	4	4	4.25-5.63	4.25-5.00	4.92-5.63	Ø8.7	9.3	2.9	5.1	Ø9.0	Ø5.24	1-M14	14
874-XX-05013012	5	5	5.12-6.38	5.12-5.75	5.71-6.38	Ø9.5	10	4	6.2	Ø10.0	Ø6.14	1-M14	21
874-XX-06013012	5	6	5.12-6.38	5.12-5.75	5.71-6.38	Ø9.5	10	4	6.2	Ø11.0	Ø7.24	1-M14	22
874-XX-06016312	6	6	6.42-7.68	6.42-7.05	7.01-7.68	Ø10.8	11.3	4	6.2	Ø11.0	Ø7.24	1-M14	23
874-XX-08019012	7	8	7.48-8.74	7.48-8.11	8.07-8.74	Ø11.7	12.2	4	6.2	Ø13.5	Ø9.41	1-M14	31
874-XX-08021712	8	8	8.54-9.84	8.54-9.17	9.13-9.84	Ø12.9	13.1	4	6.2	Ø13.5	Ø9.41	1-M14	32
874-XX-10027212	10	10	10.70-12.00	10.70-11.37	11.33-12.00	Ø15.0	15.6	4	6.2	Ø16.0	Ø11.61	1-M14	38
874-XX-10027812	10	10	10.96-12.26	10.96-11.63	11.59-12.26	Ø15.3	15.8	4	6.2	Ø16.0	Ø11.61	1-M14	41
874-XX-12031512	12	12	12.40-13.66	12.40-13.03	12.99-13.66	Ø16.6	17.5	4	6.2	Ø19.0	Ø14.02	1-M14	52
874-XX-12033412	12	12	13.15-14.41	13.15-13.78	13.74-14.41	Ø17.3	18.1	4	6.2	Ø19.0	Ø14.02	1-M14	57



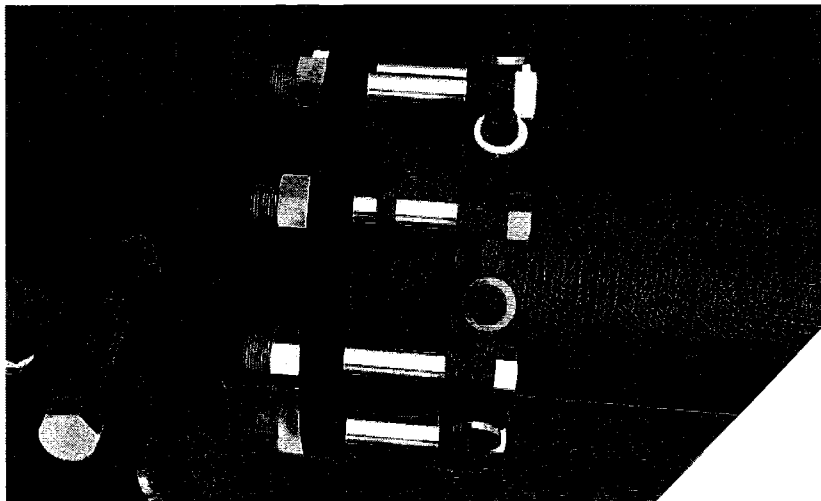
ITEMS 40-54

Series 2100

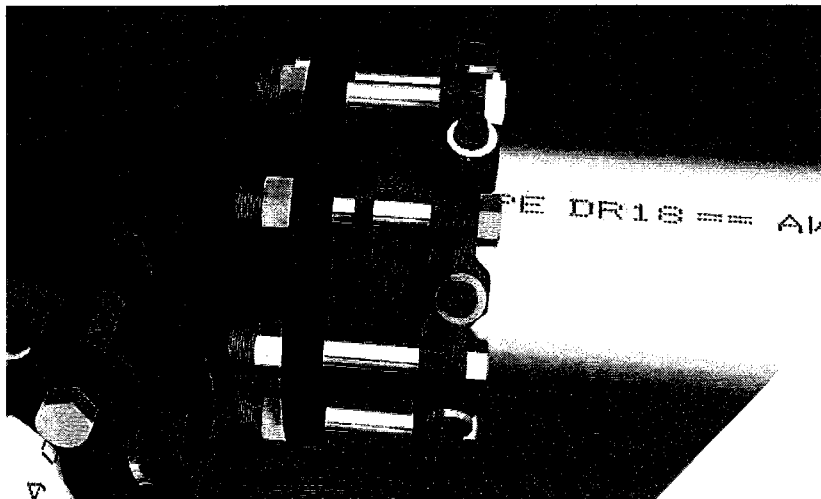
MEGAFLANGE®

Restrained Flange Adapter

U.S. Patent Nos. 4627774 and 5071175



Series 2106 on Ductile Iron Pipe



Series 2106 on C900 PVC Pipe

Features and Applications:

- MEGAFLANGE adapts and restrains plain end Ductile Iron, PVC, Steel and HDPE pipe to flanged pipe or fittings, where the flange conforms to ANSI/AWWA C111/A21.11 with flange surface facing in accordance with ANSI/AWWA C207 of the latest revision.
 - Meets ANSI B16.5 Class 150/125 drilling pattern.
 - Flange Bolts are zinc coated, fastener class coated bolts or stainless steel bolts are available
 - Not for use on plain end fittings
 - MEGA-BOND® Restraint Coating System
 - For more information regarding MEGA-BOND, refer to our web site @ www.ebaa.com
 - Minimum 2 to 1 Safety Factor
 - Fully Restrained
 - Constructed of ASTM A536 Ductile Iron
 - UL listed on sizes 3 inch through 12 inch
 - FM approved on sizes 4 inch through 12 inch on C900 Class 150 and Class 200 PVC Pipe
 - Pipe can be cut to length in the field
 - Joint deflection up to 5°
 - Easy dismantling allows fast removal of valves, meters or fittings for replacement or repair
 - *Xylan Coated Machined B&N*
- For use on water or wastewater pipelines subject to hydrostatic pressure and tested in accordance with either AWWA C600, C605 or ASTM D2774.

Sample Specification

Restrained flange adapters shall be used in lieu of threaded or welded flanged spool pieces. Flanged adapters shall be made of ductile iron conforming to ASTM A536 and have flange bolt circles that are compatible with ANSI/AWWA C110/A21.10 (125#/Class 150 Bolt Pattern).

Restraint for flange adapter shall consist of a plurality of individual actuated gripping wedges to maximize restraint capability. Torque limiting actuating screws shall be used to insure proper initial set of gripping wedges.

The flange adapters shall be capable of deflection during assembly or permit lengths of pipe to be field cut to allow a minimum 0.6 inch gap between the end of the pipe and the mating flange without affecting the integrity of the seal.

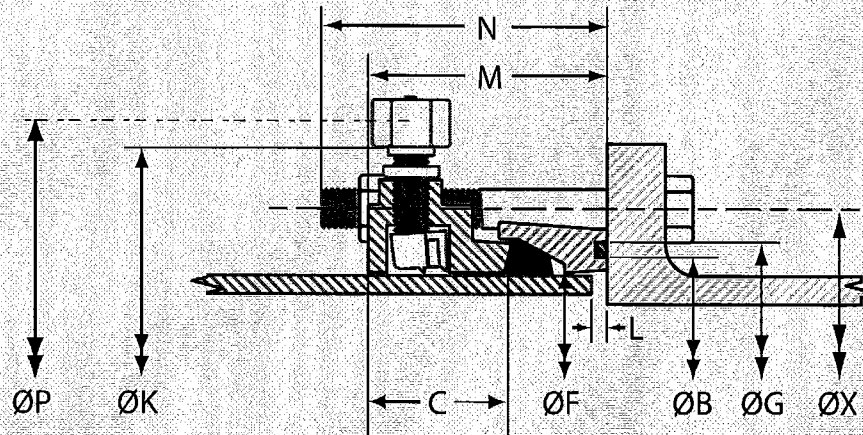
All internal surfaces of the gasket ring (wetted parts) shall be lined with a minimum of 15 mills of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C213. The coating shall meet ANSI/NSF-61. Exterior surfaces of the gasket ring shall be coated with a minimum of 6 mills of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C116/A21.16.

Restraint Ring coated with MEGA-BOND® Restraint Coating System. More information regarding MEGA-BOND can be found at www.ebaa.com.

Pressure ratings shall be a minimum of those shown in the table within current brochure.

The flange adapter shall be the Series 2100 MEGAFLANGE® Restrained Flange Adapter as produced by EBAA Iron, Inc. or approved equal.

Series 2100 Submittal Reference Drawing



Nominal Pipe Size	Series Number	Restraint Ring			Gasket Ring			Bolts				L MAX.	Assembly Deflection		P*	Ship Weight (lbs.)
		K	F	C	F	B	G	No.	Dia.	Length	X		Degrees	M		
X 3	2103	7.5	4.1	2.2	4.1	4.3	4.9	4	5/8	5 1/2	6.00	0.7	5.0	4.0	9.2	14
X 4	2104	9.0	4.9	2.2	4.9	5.4	6.0	8	5/8	5 1/2	7.50	0.6	5.0	4.0	10.0	20
X 6	2106	11.0	7.0	2.3	7.0	7.5	8.1	8	3/4	6	9.50	0.8	5.0	4.3	12.1	32
X 8	2108	13.5	9.2	2.4	9.2	9.8	10.4	8	3/4	6	11.75	0.9	5.0	4.5	14.3	38
X 10	2110	16.0	11.2	2.5	11.2	11.8	12.4	12	7/8	7 1/2	14.25	1.0	3.0	4.7	16.3	65
X 12	2112	19.0	13.3	2.5	13.3	13.8	14.4	12	7/8	7 1/2	17.00	1.0	3.0	4.8	18.4	73
X 14	2114	21.0	15.5	2.5	15.5	16.1	16.9	12	1	8	18.75	1.3	2.0	5.0	20.6	89
X 16	2116	23.5	17.6	2.5	17.6	18.2	19.0	16	1	8	21.25	1.3	2.0	5.0	22.6	109
X 18	2118	25.0	19.7	2.6	19.7	20.2	21.0	16	1 1/8	8 1/2	22.75	1.3	1.5	5.1	24.7	134
X 20	2120	27.3	21.8	2.6	21.8	22.4	23.2	20	1 1/8	8 1/2	25.00	1.3	1.5	5.1	26.8	157
X 24	2124	32.0	26.0	2.6	26.0	26.7	27.5	20	1 1/4	8 1/2	29.50	1.3	1.0	5.1	31.0	192
X 30	2130	38.5	32.2	3.3	32.2	32.9	34.1	28	1 1/4	11	36.00	2.0	1.0	6.0	38.8	296
X 36	2136	45.5	38.5	3.3	38.5	39.2	40.4	32	1 1/2	10 1/2	42.75	2.0	1.0	6.0	44.6	426
X 42	2142	52.3	44.7	4.1	44.7	45.8	47.0	36	1 1/2	12	49.50	2.0	1.0	8.0	50.8	642
X 48	2148	58.8	51.0	4.1	51.0	52.1	53.3	44	1 1/2	12	56.00	2.0	1.0	8.0	57.1	797

* The "P" dimensions is measured with torque-limiting nuts twisted off.

Nominal Pipe Size	Minimal Distance Required To Install N
----------------------	----------------------------------------------

3	4.75
4	4.56
6	5.00
8	4.88
10	6.31
12	6.25
14	6.62
16	6.56
18	6.94
20	6.81
24	6.62
30	8.88
36	8.12
42	9.38
48	9.25

MEGAFLANGE TESTING RESULTS

PVC TESTING

- Quick Burst Test
- DR18 tested to 755 PSI
- DR14 tested to 985 PSI
- Long Term Pressure Test
- On DR18 PVC pipe at 615 PSI for 1000 hours without failure
- Cyclic Pressure Test
- DR18 tested from 94 to 188 PSI for over 1,000,000 cycles

DUCTILE IRON AND STEEL TESTING

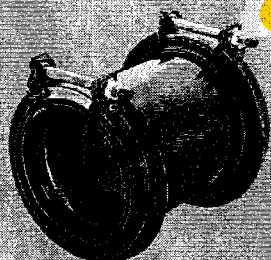
- Leakage Test (one minute required)
- Tested to twice rated pressure without leakage
- Hydrostatic Test (one minute required)
- 3 inch though 6 inch sizes tested to 5 times rated pressure
- 8 inch and 10 inch sizes tested to 4 times rated pressure
- 12 inch size tested to 3 times rated pressure
- Flexural Test
- Tested to withstand a bending moment based on requirements of NFPA 12-1991 "Standard for Installation of Sprinkler Systems"



APPROVED



Note: Dimensions are in inches
and are subject to change without notice. All Dimensions are $\pm 1\%$.



ITEMS 55-56

HYMAX® COUPLING*

(1.5"-60")

HYMAX®

Repair the past. Connect the future.

PRODUCT SPECIFICATIONS

FEATURES

- GAME-CHANGING WIDE-RANGE COUPLING, PROVEN IN OVER 1M INSTALLATIONS IN THE US
- SUITABLE FOR ALL TYPES OF PIPES - DUCTILE IRON, CAST IRON, STEEL, COPPER, PE, PVC, AC, GRP
- PATENTED HYDRAULICALLY-ASSISTED GASKET WITH 2-STAGE SEALING
- LIGHTWEIGHT CONSTRUCTION ENABLES FAST AND EASY INSTALLATION
- ALLOWS 4° DYNAMIC DEFLECTION ON EACH END, REDUCING FUTURE PIPE DAMAGE
- ONE PRODUCT CAN CONNECT PIPES OF TWO DIFFERENT MATERIALS

SPECIFICATIONS

STANDARDS

HYMAX MEETS OR EXCEEDS STANDARDS AWWA C-219, NSF 61, NSF 372.

SIZE

AVAILABLE IN NOMINAL DIAMETER FROM 1.5" - 60".
CALL KRAUSZ FOR DETAILS.

MATERIALS

END RINGS

1.5"- 12" ASTM A283 / A283M GRADE C STEEL.
14"- 16" ASTM A283 / A283M GRADE C STEEL.
(OR DUCTILE IRON CASTING ASTM A536 GRADE 60-40-18).
18"- 60" ASTM A283 / A283M GRADE C STEEL.

CENTER RING

1.5"- 12" ASTM A53 GRADE A STEEL.
14"- 60" ASTM A283 / A 283M GRADE C STEEL.

GASKETS

EPDM AND NBR AVAILABLE. BOTH ARE COMPOUNDED FOR WATER AND SEWAGE,
MEET INTERNATIONAL STANDARDS FOR CONTACT WITH DRINKING WATER.

BRIDGE

AISI 304 STAINLESS STEEL.

SPHERICAL SPACERS

AISI 304 STAINLESS STEEL.

COATING

100% FUSION BONDED EPOXY FOR ENHANCED CORROSION PROTECTION.
NOMINAL THICKNESS 14 MIL.

NUTS AND BOLTS

AISI 304 STAINLESS STEEL. ROLLED THREAD AND ANTI-GALLING COATING.

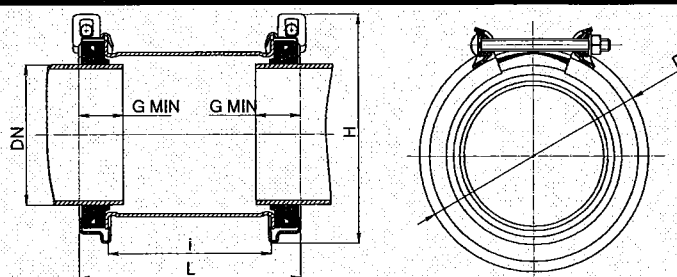
* REGISTERED PATENT

PRODUCT PERFORMANCE (*)

WORKING TEMPERATURE	EPDM: -20°F UP TO +125°F NBR: -4°F UP TO +125°F			
DYNAMIC DEFLECTION	UP TO 4° PER SIDE.			
MIN. PIPE INSERTION	1.5"-12" 2.25"	14"- 60" 4"		
MAXIMUM OFFSET FOR MISALIGNED PIPES	1.5"- 3" 0.39"	4"- 60" 0.51"		
MAXIMUM OUT OF ROUNDNESS	1.5" 0.08"	2"- 3" 0.20"	4"- 12" 0.31"	14"- 60" 0.51"
WORKING PRESSURE	1.5"- 16" 260 PSI	18"- 24" 232 PSI	26"- 60" CALL KRAUSZ FOR DETAILS.	
RATED PRESSURE	1.5"- 16" 390 PSI	18"- 24" 350 PSI	26"- 60" CALL KRAUSZ FOR DETAILS.	
VACUUM TEST	12 PSI			

* SEE SUBMITTAL DRAWINGS FOR DETAILS.

PRODUCT TABLES



PRODUCT CONFIGURATIONS

The product is offered in several different configurations. Note that the "xx" marking in the Cat. no. should be replaced as directed:

Part Number 860-XX

56 -> EPDM gasket

57 -> NBR gasket

860-XX-0054-16 should be read as 860-56-0054-16 for EPDM gasket and 860-57-0054-16 for NBR gasket.

HYMAX COUPLING NOMINAL SIZES 1.5"-12"

TORQUE DATA for ND 1.5"-12" (*)

ND (inch)	EPDM (Ft-Lb)	NBR (Ft-Lb)
1.5	35	NA
2	50	50
3	50	50
4	65	75
5	65	75
6	65	75
7	65	75
8	65	75
10	65	75
12	65	75

Krausz Part Number	Nominal Diameter (inch)	Overall Range (inch)	Before Removal of Inner Layer (inch)	After Removal of Inner Layer (inch)	D (inch)	H (inch)	i (inch)	L (inch)	Working Pressure (PSI)	Rated Pressure (PSI)	Bolts Qty. -Size	Approx. Weight (Lbs)
860-56-0041-16	1.5	1.61-2.13	1.61-1.97	1.96-2.13	Ø3.9	5.0	3.9	6.1	260	390	2 -M12	5
860-XX-0054-16	2	2.10-3.03	2.10-2.60	2.56-3.03	Ø5.2	5.7	3.9	6.8	260	390	2 -M12	7.5
860-XX-0088-16	3	3.46-4.33	3.46-3.90	3.86-4.33	Ø6.7	7.1	5.9	8.8	260	390	2 -M12	10.8
860-56-0108-16C 860-57-0108-16	4	4.25-5.63	4.25-5.00	4.92-5.63	Ø8.7	9.3	5.9	8.8	260	390	2 -M14	15
860-XX-0130-16	5	5.12-6.38	5.12-5.75	5.71-6.38	Ø9.5	10.0	8.0	10.8	260	390	2 -M14	19
860-XX-0163-16	6	6.42-7.68	6.42-7.05	7.01-7.68	Ø10.8	11.3	8.0	10.8	260	390	2 -M14	23
860-XX-0190-16	7	7.48-8.74	7.48-8.11	8.07-8.74	Ø11.7	12.2	8.0	10.8	260	390	2 -M14	24
860-XX-0217-16	8	8.54-9.84	8.54-9.17	9.13-9.84	Ø12.9	13.1	8.0	10.8	260	390	2 -M14	28
860-XX-0272-16	10	10.70-12.00	10.70-11.37	11.33-12.00	Ø15.0	15.6	8.0	10.8	260	390	2 -M14	32
860-XX-0278-16	10	10.96-12.26	10.96-11.63	11.59-12.26	Ø15.3	15.8	8.0	10.8	260	390	2 -M14	33
860-XX-0315-16	12	12.40-13.66	12.40-13.03	12.99-13.66	Ø16.6	17.5	8.0	10.8	260	390	2 -M14	39
860-XX-0334-16	12	13.15-14.41	13.15-13.78	13.74-14.41	Ø17.3	18.1	8.0	10.8	260	390	2 -M14	39

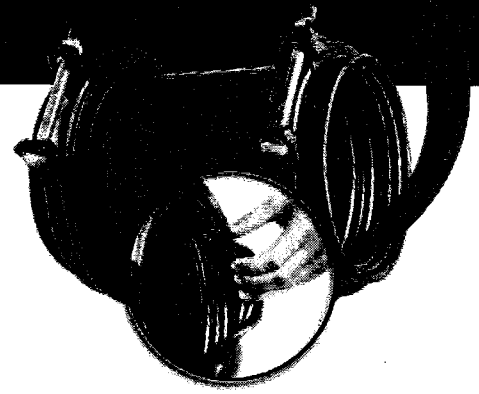
3 * NBR gasket available in sizes 2"-12"

PRODUCT SPECIFICATIONS

ITEMS 57-61

HYMAX 2

HYMAX[®] 2 COUPLING (4" - 12")



FEATURES

- ADVANCED WIDE-RANGE COUPLING WITH A PATENTED FLIP GASKET
- ELIMINATES GASKET REMOVAL MISTAKES AND MAXIMIZES INSTALLER WORK EFFICIENCY
- ONLY 2-4 TOP FACING BOLTS, FOR FASTER AND SAFER INSTALLATION
- READY-TO-USE DESIGN TO ELIMINATE EXTENSIVE PREPARATORY UNDER-PIPE DIGGING
- ALLOWS 4° DYNAMIC DEFLECTION ON EACH END, REDUCING FUTURE PIPE DAMAGE
- PATENTED HYDRAULICALLY-ASSISTED GASKET WITH 2-STAGE SEALING
- SUITABLE FOR ALL TYPES OF PIPES - DUCTILE IRON, CAST IRON, STEEL, COPPER, PE, PVC, AC, GRP
- ONE PRODUCT CAN CONNECT PIPES OF TWO DIFFERENT MATERIALS
- BASED ON THE GAME-CHANGING HYMAX THAT HAS BEEN FIELD-PROVEN IN MILLIONS OF INSTALLATIONS IN THE US
- PRODUCT PERFORMANCE, OD RANGE AND PRESSURES ARE IDENTICAL TO THOSE OF THE ORIGINAL HYMAX

SPECIFICATIONS

STANDARDS	SIZE	MATERIALS
HYMAX2 MEETS OR EXCEEDS STANDARDS AWWA C-219, NSF 61, NSF 372.	AVAILABLE IN NOMINAL DIAMETER FROM 4" - 12" STANDARD. CALL KRAUSZ FOR DETAILS.	END RINGS 4"-12" ASTM A283 / A283M GRADE C STEEL.
		CENTER RING 4"-12" ASTM A53 GRADE A STEEL.
		GASKETS EPDM COMPOUNDED FOR WATER AND SEWAGE, MEETS INTERNATIONAL STANDARDS FOR CONTACT WITH DRINKING WATER.
		BRIDGE AISI 304 STAINLESS STEEL.
		SPHERICAL SPACERS AISI 304L STAINLESS STEEL.
		COATING 100% FUSION BONDED EPOXY FOR ENHANCED CORROSION PROTECTION. NOMINAL THICKNESS 14 MIL.
		NUTS & BOLTS AISI 304 STAINLESS STEEL. ROLLED THREAD AND ANTI-GALLING COATING.

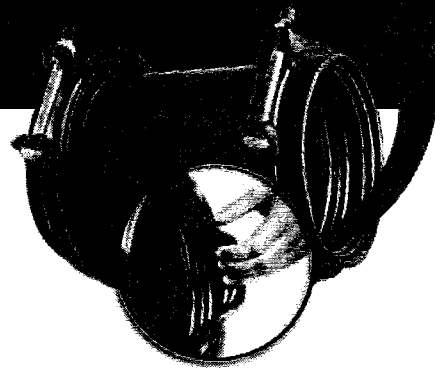
HYMAX[®]

Repair the past. Connect the future.

KRAUSZ is the creator of HYMAX

PRODUCT SPECIFICATIONS

HYMAX 2



PRODUCT PERFORMANCE (*)

WORKING TEMPERATURE	-20°F UP TO +125°F
DYNAMIC DEFLECTION	UP TO 4° PER SIDE
MIN. PIPE INSERTION	2.25"
MAXIMUM OFFSET FOR MISALIGNED PIPES	0.51"
MAXIMUM OUT OF ROUNDES	0.31"
WORKING PRESSURE	260
RATED PRESSURE	390
VACUUM TEST	12 PSI

* See Submittal Drawings For Details.

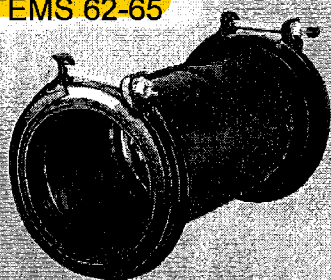
PRODUCT TABLES

HYMAX®2 NOMINAL SIZES (4" - 12")

	Krausz Part Number	Nominal Diameter (inch)	Overall Range (inch)	Range in closed gasket position (inch)	Range in open gasket position (inch)	Bolt Qty. and Size (mm)	Torque (Ft-Lbs)	Approx. Weight (Lbs)
×	860-54-0108-16	4	4.25-5.63	4.25-5.00	4.92-5.63	2 -M14	75	15
	860-54-0130-16	5	5.12-6.38	5.12-5.75	5.71-6.38	2 -M14	75	19
×	860-54-0163-16	6	6.42-7.68	6.42-7.05	7.01-7.68	2 -M14	75	23
	860-54-0190-16	7	7.48-8.74	7.48-8.11	8.07-8.74	2 -M14	75	24
×	860-54-0217-16	8	8.54-9.84	8.54-9.17	9.13-9.84	2 -M14	75	28
	860-54-0272-16	10	10.70-12.00	10.70-11.37	11.33-12.00	2 -M14	75	32
×	860-54-0278-16	10	10.96-12.26	10.96-11.63	11.59-12.26	2 -M14	75	33
	860-54-0315-16	12	12.40-13.66	12.40-13.03	12.99-13.66	2 -M14	80	39
×	860-54-0334-16	12	13.15-14.41	13.15-13.78	13.74-14.41	2 -M14	80	39

For specific sizes of products in stock, call Krausz for details.

ITEMS 62-65



HYMAX[®] COUPLING LONG BODY (1.5"-60")

HYMAX[®]
Repair the past. Connect the future.

PRODUCT SPECIFICATIONS

FEATURES

- GAME-CHANGING WIDE-RANGE COUPLING, PROVEN IN OVER 1M INSTALLATIONS IN THE US
- SUITABLE FOR ALL PIPES - DUCTILE IRON, CAST IRON, STEEL, COPPER, PE, PVC, AC, GRP
- PATENTED HYDRAULICALLY-ASSISTED GASKET WITH 2-STAGE SEALING
- LONG BODY FOR EXTRA SIZE FLEXIBILITY
- LIGHTWEIGHT CONSTRUCTION ENABLES FAST AND EASY INSTALLATION
- ALLOWS 4° DYNAMIC DEFLECTION ON EACH END, REDUCING FUTURE PIPE DAMAGE
- ONE PRODUCT CAN CONNECT PIPES OF TWO DIFFERENT MATERIALS

SPECIFICATIONS

STANDARDS

HYMAX LONG BODY MEETS OR EXCEEDS STANDARDS
AWWA C-219, NSF 61, NSF 372.

SIZE

AVAILABLE IN NOMINAL DIAMETER FROM 1.5"-24" STANDARD.
26"-60" MTO (MADE TO ORDER). CALL KRAUSZ FOR DETAILS.

MATERIALS

END RINGS

1.5" - 12" ASTM A283 / A283M GRADE C STEEL
14" - 16" ASTM A283 / A283M GRADE C STEEL
(OR DUCTILE IRON CASTING ASTM A536 GRADE 60-40-18)
18" - 60" ASTM A283 / A283M GRADE C STEEL.

CENTER RING

1.5" - 12" ASTM A53 GRADE A STEEL
14" - 60" ASTM A283 / A283M GRADE C STEEL.

GASKETS

EPDM COMPOUNDED FOR WATER AND SEWERAGE.
MEETS INTERNATIONAL STANDARDS FOR CONTACT WITH DRINKING WATER.

BRIDGE

AISI 304 STAINLESS STEEL.

SPHERICAL SPACERS

AISI 304L STAINLESS STEEL.

COATING

100% FUSION BONDED EPOXY FOR ENHANCED CORROSION PROTECTION.
NOMINAL THICKNESS 14 MIL.

NUTS AND BOLTS

AISI 304 STAINLESS STEEL. ROLLED THREAD AND ANTI-GALLING COATING.

PRODUCT PERFORMANCE (*)

WORKING TEMPERATURE	-20°F UP TO +125°F.			
DYNAMIC DEFLECTION	UP TO 4° PER SIDE.			
MIN. PIPE INSERTION	1.5" 2.25"	2" - 3" 5.5"	26" - 60" 5.9"	
MAXIMUM OFFSET FOR MISALIGNED PIPES	1.5" - 3" 0.39"	4" - 60" 0.51"		
MAXIMUM OUT OF ROUNDNESS	1.5" 0.08"	2" - 3" 0.20"	4" - 12" 0.31"	14" - 60" 0.51"
WORKING PRESSURE	1.5" - 16" 260 PSI	18" - 24" 232 PSI	26" - 60" CALL KRAUSZ FOR DETAILS.	
RATED PRESSURE	1.5" - 16" 390 PSI	18" - 24" 350 PSI	26" - 60" CALL KRAUSZ FOR DETAILS.	
VACUUM TEST	12 PSI			

* SEE SUBMITTAL DRAWINGS FOR DETAILS.

PRODUCT TABLES

HYMAX LONG BODY NOMINAL SIZES 1.5"-12"

Krausz Part Number	Nominal Diameter (inch)	Overall Range (inch)	Before removal of the inner layer (inch)	After removal of the inner layer (inch)	Bolts Num. and Size (mm)	Torque (Ft-Lbs)	Working Pressure (PSI)	Rated Pressure (PSI)	Approx. Weight (Lbs)
862-56-0041-16	1.5	1.61-2.13	1.61-1.97	1.96-2.13	2 - M12	35	260	390	7
862-56-0054-16	2	2.10-3.03	2.10-2.60	2.56-3.03	2 - M12	50	260	390	8
862-56-0088-16	3	3.46-4.33	3.46-3.90	3.86-4.33	2 - M12	50	260	390	14
862-56-0108-16C	4	4.25-5.63	4.25-5.00	4.92-5.63	2 - M14	65	260	390	21
862-56-0130-16	5	5.12-6.38	5.12-5.75	5.71-6.38	2 - M14	65	260	390	28
862-56-0163-16	6	6.42-7.68	6.42-7.05	7.01-7.68	2 - M14	65	260	390	32
862-56-0190-16	7	7.48-8.74	7.48-8.11	8.07-8.74	2 - M14	65	260	390	36
862-56-0217-16	8	8.54-9.84	8.54-9.17	9.13-9.84	2 - M14	65	260	390	42
862-56-0272-16	10	10.70-12.00	10.70-11.37	11.33-12.00	2 - M14	65	260	390	50
862-56-0278-16	10	10.96-12.26	10.96-11.63	11.59-12.26	2 - M14	65	260	390	53
862-56-0315-16	12	12.40-13.66	12.40-13.03	12.99-13.66	2 - M14	65	260	390	54
862-56-0334-16	12	13.15-14.41	13.15-13.78	13.74-14.41	2 - M14	65	260	390	56

PRODUCT TABLES

HYMAX LONG BODY NOMINAL SIZES 14"-24"

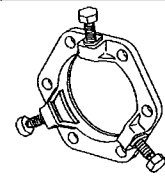
	Krausz Part Number	Nominal Diameter (inch)	Overall Range (inch)	Before removal of the inner layer (inch)	After removal of the inner layer (inch)	Bolts Num. and Size (mm)	Torque (Ft-Lbs)	Working Pressure (PSI)	Rated Pressure (PSI)	Approx. Weight (Lbs)
×	862-56-0378-16P	14	15.00-17.10	15.00-16.10	16.02-17.10	4 -M16	150	260	390	107
×	862-56-0434-16P	16	17.10-19.20	17.10-18.19	18.11-19.20	4 -M16	150	260	390	123
×	862-56-0488-16P	18	19.20-21.30	19.20-20.29	20.21-21.30	4 -M16	150	232	350	132
	862-56-0497-16P	20	19.60-21.70	19.60-20.69	20.61-21.70	4 -M16	150	232	350	136
×	862-56-0540-16P	20	21.25-23.35	21.25-22.35	22.27-23.35	4 -M16	150	232	350	141
	862-56-0606-16P	24	23.85-25.95	23.85-24.96	24.88-25.95	4 -M16	150	232	350	158
	862-56-0624-16P	24	24.60-26.70	24.60-25.67	25.59-26.70	4 -M16	150	232	350	163

HYMAX LONG BODY NOMINAL SIZES 26"-60"

	Krausz Part Number	Nominal Diameter (inch)	Overall Range (inch)	Before removal of the inner layer (inch)	After removal of the inner layer (inch)	Torque (Ft-Lbs)	Working Pressure (PSI)	Rated Pressure (PSI)	Approx. Weight (Lbs)
	862-56-0800-09P	30	31.50-33.60	31.50-32.60	32.50-33.60	250	130	195	256
	862-56-0963-07P	36	37.90-40.00	37.90-39.00	38.90-40.00	300	110	165	278
	862-56-1116-06P	42	43.90-46.00	43.90-45.00	44.90-46.00	300	95	142	335
	862-56-1280-05P	48	50.40-52.50	50.40-51.50	51.40-52.50	350	80	120	342
	862-56-1552-05P	60	61.10-63.20	61.10-62.20	62.10-63.20	350	65	97	405

SUBMITTAL INFORMATION

Uni-Flange® Restraint - (UFR1400-DAP-x-RB-I style)



WEDGE ACTION SERIES 1400-D RESTRAINT GLAND FOR DUCTILE IRON PIPE WITH BLUE FLUOROCARBON-COATED ACCESSORIES

Gland body is of high strength ductile iron per ASTM A536, Grade 65-45-12. Compatible with all mechanical joints conforming to ANSI/AWWA C111/A21.11.

Ductile iron wedge actuating screw, with the Auto-Tork break-away head design, ensures proper torque during installation.



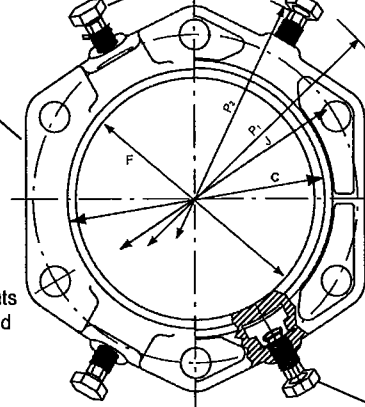
Pipe Lube



High strength low alloy T-bolts and nuts AWWA C111 blue fluorocarbon coated

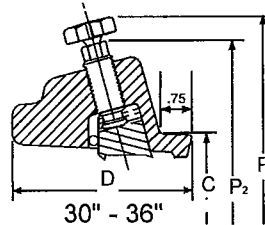


Mechanical joint gasket AWWA C111

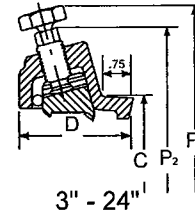


Front

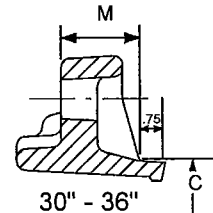
Back



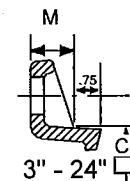
30" - 36"



3" - 24"



30" - 36"



3" - 24"

Wedges are ductile iron and heat treated to a hardness of 370 BHN minimum.



NOM. PIPE SIZE	O.D.	CATALOG NUMBER	PRESSURE RATING (PSI)	NO. OF WEDGES	APPROX. WEIGHT (LBS.)	P1*	P2**	C	D	F	M	J	✓ SUBMITTED ITEM(S)
3	3.96	UFR1400-DAP-3-RB-I	350	2	8.6	11.04	9.06	4.84	2.65	4.06	0.68	6.19	
4	4.80	UFR1400-DAP-4-RB-I	350	2	11.7	11.9	10.0	5.92	2.65	4.90	0.88	7.50	
6	6.90	UFR1400-DAP-6-RB-I	350	3	17.6	14.0	12.1	8.02	2.65	7.00	0.88	9.50	
8	9.05	UFR1400-DAP-8-RB-I	350	4	21.7	16.2	14.3	10.17	2.65	9.15	1.10	11.75	
10	11.10	UFR1400-DAP-10-RB-I	350	6	31.9	18.2	16.3	12.22	2.75	11.20	1.10	14.00	
12	13.20	UFR1400-DAP-12-RB-I	350	8	41.5	20.3	18.4	14.32	2.75	13.30	1.10	16.25	
14	15.30	UFR1400-DAP-14-RB-I	350	10	57.0	22.9	20.9	16.40	3.00	15.50	1.50	18.75	
16	17.40	UFR1400-DAP-16-RB-I	350	12	64.0	25.0	23.0	18.50	3.00	17.60	1.56	21.00	
18	19.50	UFR1400-DAP-18-RB-I	250	12	81.0	28.1	25.8	20.60	3.05	19.70	1.65	23.25	
20	21.60	UFR1400-DAP-20-RB-I	250	14	90.0	30.2	27.9	22.70	3.10	21.82	1.70	25.50	
24	25.80	UFR1400-DAP-24-RB-I	250	16	107.0	34.4	32.1	26.90	3.20	26.04	1.85	30.00	
30	32.00	UFR1400-DAP-30-RB-I	250	20	264.0	40.6	38.6	33.29	4.30	32.29	2.25	36.88	
36	38.30	UFR1400-DAP-36-RB-I	250	24	318.0	46.9	44.9	39.59	4.50	38.62	2.25	43.75	

* Maximum O.D. of gland on pipe before break-away heads have been removed (as received).

** Maximum O.D. of gland on pipe after wedges have been activated and break-away heads have been removed.

FEATURES

- Eliminates the need of costly and time consuming concrete thrust blocks and corrosion susceptible steel tie rods
- "Auto-Tork" wedge actuating screws assure proper installation
- Wedges are contoured to fit the pipe
- Set of high strength, low alloy T-Bolts and nuts (AWWA C111) with blue fluorocarbon coating
- Mechanical joint gasket (AWWA C111) 3"-24" sizes, Uni-Seal gasket 30" and 36" sizes
- Gland, screws and wedges are black e-coated
- Imported ductile iron castings
- Assembled, inspected and packaged in the U.S.A.
- FM Approved (4"-12") and UL Listed (4"- 48")

The Ford Meter Box Company considers the information in this submittal form to be correct at the time of publication. Item and option availability, including specifications, are subject to change without notice. Please verify that your product information is current.



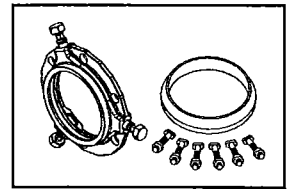
The Ford Meter Box Company, Inc.
P.O. Box 443, Wabash, Indiana U.S.A. 46992-0443
Phone: 260-563-3171 / Fax: 800-826-3487
Overseas Fax: 260-563-0167
www.fordmeterbox.com

06/27/18

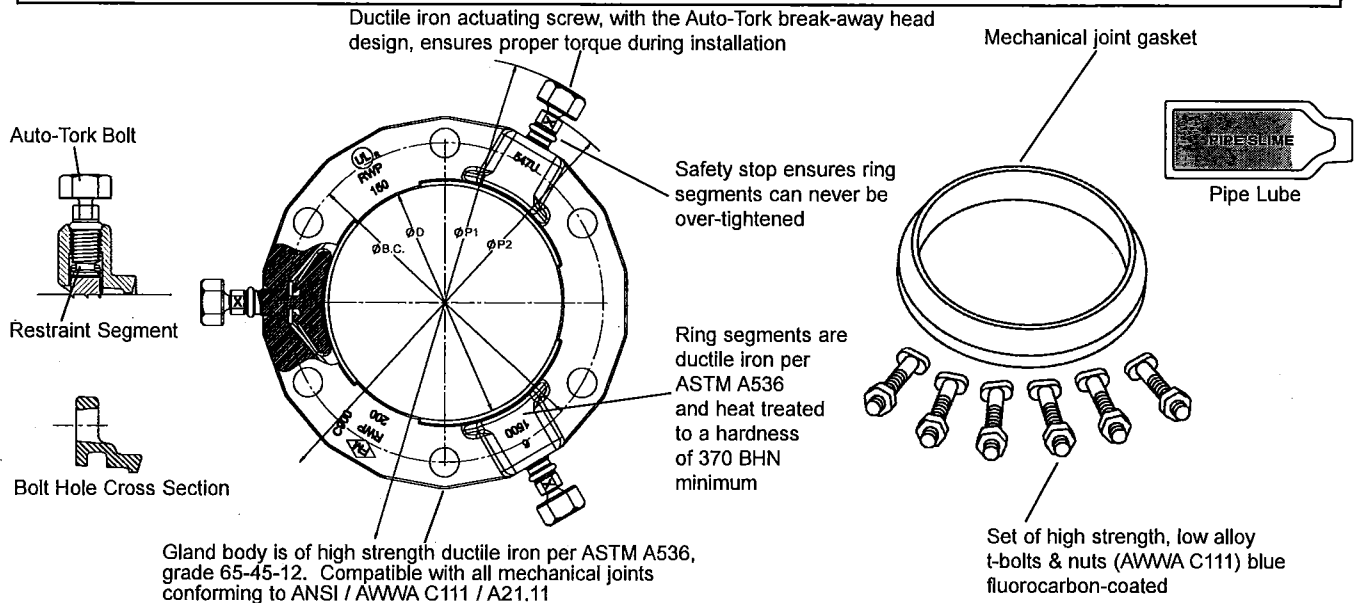
Submitted By:

SUBMITTAL INFORMATION

Mechanical Joint Restraint (UFR1500-CAP-x-RB-I style)



4" - 12" SERIES UFR1500 MECHANICAL JOINT RESTRAINT FOR C900, C909 PVC OR HDPE PACKAGED WITH FLUOROCARBON-COATED ACCESSORIES



NOM PIPE SIZE	PIPE O.D.	CATALOG NUMBER	No. OF SEGMENTS	APPROX. WEIGHT (LBS)	P1*	P2**	BC	D	PRESSURE RATING				✓SUBMITTED ITEM(S)
						C900 C909			C900			C909	
									DR-14	DR-18	DR-25	PC-235	
4"	4.80	UFR1500-CAP-4-RB-I	2	12.5	13.00"	9.40"	7.50"	4.90"	305	235	165	235	
6"	6.90	UFR1500-CAP-6-RB-I	3	18.0	15.13"	11.60"	9.50"	7.00"	305	235	165	235	
8"	9.05	UFR1500-CAP-8-RB-I	4	23.0	17.25"	13.75"	11.75"	9.15"	305	235	165	235	
10"	11.10	UFR1500-CAP-10-RB-I	8	33.0	19.38"	16.00"	14.00"	11.20"	305	235	165	235	
12"	13.20	UFR1500-CAP-12-RB-I	8	38.0	21.50"	18.05"	16.25"	13.30"	305	235	165	235	

*Maximum O.D. of gland on pipe before Auto-Tork heads are removed (as shipped)

**Maximum O.D. of gland on pipe after Auto-Tork heads are removed

Note: Ford recommends the use of a properly sized insert stiffener when using UFR1500 on HDPE

FEATURES

- Fits C900, C909 and HDPE
- Full circle contact and support of the pipe wall.
- "Auto-Tork" actuating screws with heads specially designed to twist off at the correct installation torque, leaving a hex head in case future system maintenance or removal is required
- Set of high strength, low alloy t-bolts and nuts with blue fluorocarbon-coating (AWWA C111)
- Mechanical joint gasket (AWWA C111)
- Series 1500 eliminates the need to pour expensive and time consuming concrete thrust blocks
- Restraining segments are mechanically retained in pockets
- Gland, screws and segments are black epoxy coated using the e-coat process
- Gland colored red for identification purposes

The Ford Meter Box Company considers the information in this submittal form to be correct at the time of publication. Item and option availability, including specifications, are subject to change without notice. Please verify that your product information is current.



The Ford Meter Box Company, Inc.

P.O. Box 443, Wabash, Indiana U.S.A. 46992-0443
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Overseas Fax: 260-563-0167
www.fordmeterbox.com



06/27/18

Submitted By:



A/C COMMON GROOVE TRANSITION GASKETS (FOR CI & IPS PIPE)

MATERIAL SPECIFICATIONS

GASKET: SBR per ASTM D 2000 MBA 710, compounded for water and sewer service. Other compounds available on request.

USE: The gasket is designed to be used in cast iron fittings with an A/C common groove, or asbestos-cement couplings for adapting to C900 PVC or ductile iron pipe.



NSF61 certified upon request.



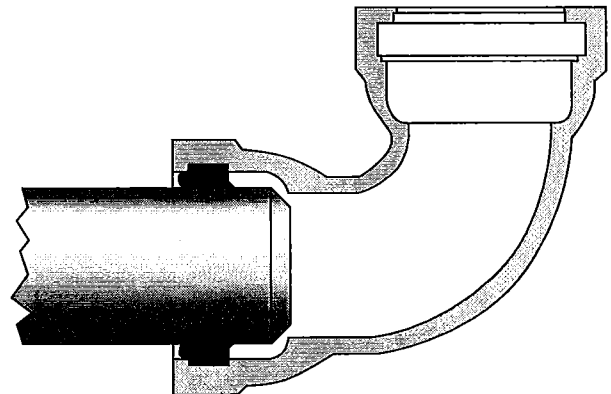
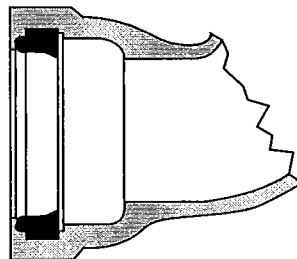
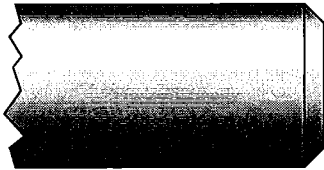
Certified to NSF/ANSI 61 & 372

A/C x CI TRANSITION GASKET

NOM. PIPE SIZE	CATALOG NUMBER	APPROX. WEIGHT (lbs.)	LIST PRICE
4"	4" - A/C x CI Transition Gasket	0.3 #	\$14.42
6"	6" - A/C x CI Transition Gasket	0.5 #	17.79
8"	8" - A/C x CI Transition Gasket	0.8 #	21.03
10"	10" - A/C x CI Transition Gasket	1.0 #	29.53
12"	12" - A/C x CI Transition Gasket	1.0 #	37.99

TO ORDER: Specify catalog number.

ITEMS 94-97



MISCELLANEOUS

MATERIAL SPECIFICATIONS

GASKET: SBR per ASTM D 2000 MBA 710, compounded for water and sewer service. Other compounds available on request.

USE: The gasket is designed to be used in cast iron fittings with an A/C common groove, or asbestos-cement couplings for adapting to PVC or steel pipe (IPS dimension).



NSF61 certified upon request.



Certified to NSF/ANSI 61 & 372

A/C x IPS TRANSITION GASKET

NOM. PIPE SIZE	CATALOG NUMBER	APPROX. WEIGHT (lbs.)	LIST PRICE
4"	4" - A/C x IPS Transition Gasket	0.3 #	\$13.04
6"	6" - A/C x IPS Transition Gasket	0.5 #	15.35
8"	8" - A/C x IPS Transition Gasket	0.8 #	20.15

TO ORDER: Specify catalog number.

A/C x PVC Sewer Adapter Gasket available. See Page 7-9.



SUBMITTAL

(Current revisions for the noted Standards apply)

Tyler Union Waterworks provides that our *Mechanical and Push-On joint gaskets and dimensions conform to the specifications in ANSI/AWWA C111/A21.11 (current revision). Markings include size, mold number, gasket manufacturer's mark, country where molded, and product identification letters. No markings are placed on sealing surfaces per the AWWA C111 standard.

*Note: Push-On and Mechanical Joint transition gasket design standards and markings are not addressed by ANSI/AWWA C111/A21.11 (current revision). Transition gaskets provided by Tyler Union follow the material testing standards and specifications established for ANSI/AWWA C111/A21.11 gaskets.

Gasket material is vulcanized styrene butadiene rubber (SBR). Purchaser may request special application elastomers (EPDM, Nitrile, Neoprene & FKM) which will be identified on all documentation and corresponding gaskets. Gaskets are free of foreign materials, porous areas, or other defects that make them unfit for the intended use.

Tyler Union gaskets are manufactured under quality control standards and procedures that are maintained by the gasket supplier. Appropriate documentation is maintained by the manufacturer and available for review upon request. Properties and test methods for SBR, EPDM, Nitrile, Neoprene and FKM gaskets are as provided.

Property	ASTM Test Method	Required Value
Hardness, Shore "A"	D2240-86	75 (+-5)
Minimum Tensile	D412-87	1500 psi (10MPa)
Minimum Elongation	D412-87	150 %
Minimum Aging	D572-88	60 %
Maximum Compression Set	D395-89, Method B	20 %
Resistance to surface Ozone cracking	D1149-86	No cracking

Tyler Union's approved suppliers maintain a quality assurance program that is reviewed and updated on an ongoing basis to ensure product quality. Tyler Union's gasket suppliers submit gaskets for testing and provide materials for testing to Underwriters Laboratories, Inc. Tyler Union's gasket providers are recognized under the component program (UL 194/ UL 157) of Underwriters Laboratories, Inc.. Tyler Union UL approved gaskets meet NSF-61, NSF-372 and Annex G.

Tyler Union provides that our Mechanical and Push-On joint gaskets for potable or wastewater projects will perform as designed when selected per the chart provided and installed per AWWA C600-10.

SBR (Styrene Butadiene rubber)(Buna-S) Not Recommended for Hydrocarbon Service	20°F to 180°F	Suitable for Water, Wastewater, most moderate chemicals, wet or dry organic acids, alcohols, ketones, and aldehydes
EPDM (Ethylene Propylene) Not Recommended for Hydrocarbon Service	-10°F to 250°F	Ideal for water, wastewater, ozone, & strong oxidizing chemicals May be used on steam and air within its temperature range
CR (Neoprene)	-10°F to 200°F	Recommended for moderate chemicals and acids, oil fats, greases, many solvents and air with hydrocarbons. Will not support combustion
NBR (Nitrile)(Buna-N)(Hycar)	-40°F to 250°F	Ideally suited for gasoline, petroleum products, hydrocarbons, water, mineral and vegetable oils
*FKM(Fluoroelastomer) *Check with Customer Service for availability	10°F to 425°F	Ideally suited for hydrocarbons, acids, vegetable oils & petroleum

Gasket Types Offered:

(1)Mechanical Joint std.(2) Push-On Joint std.(3)Mechanical Joint DUO
(4)Mechanical & Push-on Joint Transition(5)Push-on Restraining
(6)Mechanical Joint Armor Tip Conductivity(7)Compact tapping Sleeve

Unless other wise requested by the purchaser upon order placement, all gaskets provided will be of our standard SBR material.



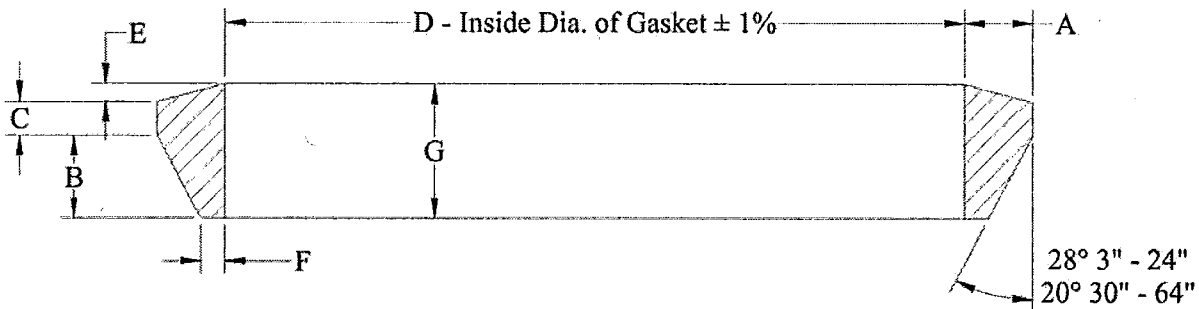
**31U – Standard Mechanical &
Push-On Joint Gaskets
(SBR, NBR, EPDM, Neoprene, FKM)**
Revised 10/2016

✕ **Mechanical Joint Gaskets**

ANSI/AWWA C111/A21.11-12
*MJ Tru-Lock Gaskets 30-48 inch

Pipe Size	Pipe OD	A ±0.01"	B	C	D ±1%	E ±0.01%	F ±0.01"	G ±0.02"
**2	2.50	0.48	0.62	0.31	2.48	0.12	0.15	1.05
3	3.96	0.48	0.62	0.31	3.86	0.12	0.15	1.05
4	4.80	0.62	0.75	0.31	4.68	0.16	0.22	1.22
6	6.90	0.62	0.75	0.31	6.73	0.16	0.22	1.22
8	9.05	0.62	0.75	0.31	8.85	0.16	0.22	1.22
10	11.10	0.62	0.75	0.31	10.87	0.16	0.22	1.22
12	13.20	0.62	0.75	0.31	12.95	0.16	0.22	1.22
14	15.30	0.62	0.75	0.31	14.99	0.16	0.22	1.22
16	17.40	0.62	0.75	0.31	17.07	0.16	0.22	1.22
18	19.50	0.62	0.75	0.31	19.13	0.16	0.22	1.22
20	21.60	0.62	0.75	0.31	21.20	0.16	0.22	1.22
24	25.80	0.62	0.75	0.31	25.34	0.16	0.22	1.22
30	32.00	0.73	1.00/* .50	.38/* .50	31.47	0.16	.37/* .55	1.54/* 1.16
36	38.30	0.73	1.00/* .50	.38/* .50	37.67	0.16	.37/* .55	1.54/* 1.16
42	44.50	0.73	1.00/* .50	.38/* .50	43.78	0.16	.37/* .55	1.54/* 1.16
48	50.80	0.73	1.00/* .50	.38/* .50	49.98	0.16	.37/* .55	1.54/* 1.16

** Not included in AWWA C111. Manufacture's Standard does not meet AWWA C111



**** Mechanical Joint Transition Gasket Dimensions in Inches**

Pipe Size	A ± 0.01"	B	C	D ±1%	E	F ± 0.01"	G ± 0.02"
2	0.57	0.62	0.31	2.28	0.16	0.24	1.08
3	0.70	0.62	0.31	3.45	0.16	0.37	1.11
4	0.77	0.75	0.31	4.43	0.16	0.37	1.26
6	0.76	0.75	0.31	6.53	0.16	0.36	1.25
8	0.82	0.75	0.31	8.50	0.16	0.42	1.27
10	0.79	0.75	0.31	10.59	0.16	0.39	1.26
12	0.84	0.75	0.31	12.56	0.16	0.44	1.28

** Not included in AWWA C111. Manufacture's Standard does not meet AWWA C111

Anniston: 1501 W 17th St. • Anniston, AL 36201 • (800) 226-7601
Corona: 1001 El Camino Ave. • Corona, CA 92879 • (866) 527-8471
Tyler: 11910 CR 492 • Tyler, Texas 75706 • (800) 527-8478
Dallas: 1201 Ave. S. Suite100 • Grande Prairie, TX 75050

Elmer: 701 Kenyon Ave. Elmer, New Jersey 03318
New Lenox: 2200 West Haven • New Lenox, IL 60451
Portland: 15670 N. Lombard St. • Portland, OR 97203
Oxford: 1800 Greenbrier Dear Road • Anniston, AL 36207


PROSELECT™

PIPE JOINT LUBRICANT

Product Features

- All purpose pipe lube can be used on most types of pipe including cast iron, ductile iron, carbon steel, stainless steel, concrete, clay, PVC, CPVC and more.
- Improved temperature range:
 - ♦ Spreads easily down to -10°F.
 - ♦ Stays stable up to 150°F
- Less odor
- Contains no petroleum, phosphate or silicone
- Will not support bacteria growth
- Biodegradable
- Non-toxic
- Smoother consistency - easier to spread
- Water dispersible - can be washed or rinsed from surfaces easily
- Minimal to no separation
- Clings well to most any surface

PSLUBXL1Q
PSLUBXL1G
PSLUBXL5G



Pipe Diameter (inches)	Estimated Pounds of Lube per 100 Joints
4	3
6	4
8	4
10	5
12	6
15	10
18	12
21	14
24	16
27	18
30	21
36	26
42	31
48	37
54	42
60	50
66	57
72	64
78	70
84	78

Directions for Use

- Clean all joint surfaces. Make certain that the gasket is properly positioned.
- Apply an even coating of lubricant to the inside of the bell and outside of spigot and gasket.
- Assemble the joint according to the pipe manufacturer's directions.

Product Specifications

Model Number	Description	Carton Weight
PSLUBXL1Q	Pipe Joint Lubricant	1 quart or 2 lbs
PSLUBXL1G	Pipe Joint Lubricant	1 gallon or 8 lbs
PSLUBXL5G	Pipe Joint Lubricant	5 gallons or 40 lbs

Certification and Approvals

- NSF/ANSI Standard 61 G compliant
- Complies with Calif. AB-1953 and Vermont Act 193
- FGG/BM/CZ™ System Compatible*

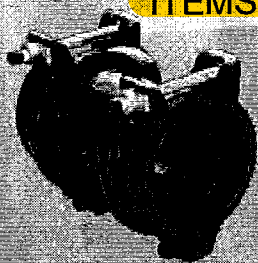
*FBC™ System Compatible indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with FlowGuard Gold®, BlazeMaster®, and Corzan® pipe and fittings. FBC™, FlowGuard Gold®, BlazeMaster®, and Corzan® are licensed trademarks of The Lubrizol Corporation.

CALIFORNIA PROP 65 WARNING: This product may contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Wash Hands After Handling.

Distributed Exclusively by Ferguson and Wolseley Canada



ITEMS 114-118



HYMAX®* DI HIGH PRESSURE COUPLING (1.5" - 12")

HYMAX®

Repair the past. Connect the future.

PRODUCT SPECIFICATIONS

FEATURES

- DURABLE DUCTILE IRON BODY
- ACCOMMODATES HIGHER WATER PRESSURE
- READY TO USE, STAB-FIT DESIGN
- ONLY 2 TOP-FACING BOLTS FOR FASTER AND SAFER INSTALLATION
- SUITABLE FOR BOTH METAL AND PLASTIC PIPES
- ALLOWS 4° DYNAMIC DEFLECTION PER END, REDUCING FUTURE DAMAGE

SPECIFICATIONS

STANDARDS

HYMAX DI HIGH PRESSURE MEETS OR EXCEEDS STANDARDS AWWA C-219, NSF 61, NSF 372.

SIZE

AVAILABLE IN NOMINAL DIAMETER FROM 1.5" - 12".

MATERIALS

END RINGS

DUCTILE IRON CASTING ASTM A536 GRADE 60-40-18.

CENTER RING

DUCTILE IRON CASTING ASTM A536 GRADE 65-45-12.

GASKETS

EPDM, COMPOUNDED FOR WATER AND SEWAGE,
MEET INTERNATIONAL STANDARDS FOR CONTACT WITH DRINKING WATER.

BRIDGE

AISI 304 STAINLESS STEEL.

SPHERICAL SPACERS

AISI 304 STAINLESS STEEL.

COATING

100% FUSION BONDED EPOXY FOR ENHANCED CORROSION PROTECTION.
NOMINAL THICKNESS 14 MIL.

NUTS AND BOLTS

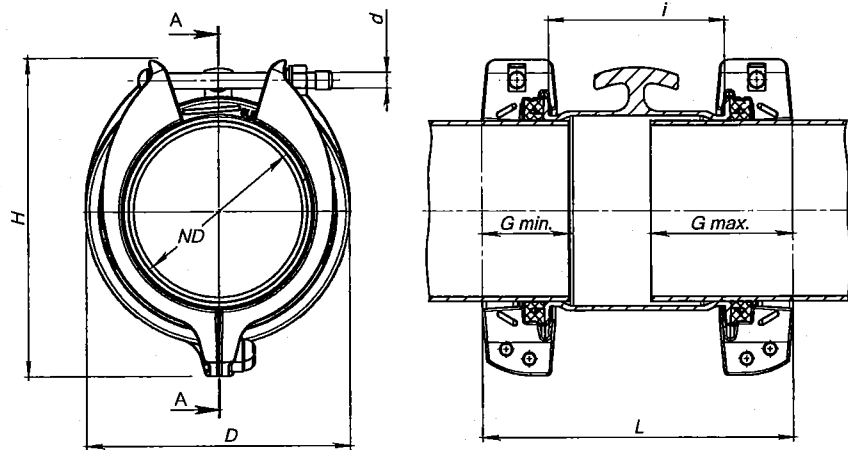
AISI 304 STAINLESS STEEL. ROLLED THREAD AND ANTI-GALLING COATING.

* REGISTERED PATENT

PRODUCT PERFORMANCE (*)

WORKING TEMPERATURE	UP TO +180°F
DYNAMIC DEFLECTION	UP TO 4° PER SIDE
MIN. PIPE INSERTION	3.6"
MAXIMUM OFFSET FOR MISALIGNED PIPES	0.25"
MAXIMUM OUT OF ROUNDNESS	0.16"
VACUUM TEST	12 PSI
WORKING PRESSURE	333 PSI
RATED PRESSURE	500 PSI

PRODUCT TABLES

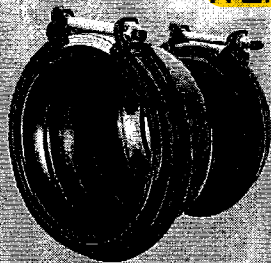


HYMAX DI HIGH PRESSURE COUPLING SIZES 4"-12"

Krausz Part Number	ND (inch)	Overall Range (inch)	D (inch)	H (inch)	i (inch)	L (inch)	G-Min Pipe Insert (inch)	G- Max Pipe Insert (inch)	Bolts Qty. and Size (mm)	Torque (Ft-Lb)	Working Pressure (PSI)	Rated Pressure (PSI)	Approx. Weight (Lbs)
× 890-53-04111-23	4	4.40-5.10	8.7	10.6	5.9	11.4	3.6	5.3	2 - 5/8	60	333	500	30.8
× 890-53-06165-23	6	6.50-7.20	10.9	12.9	7.3	12.8	3.6	5.9	2 - 5/8	60	333	500	41.4
× 890-53-08216-23	8	8.50-9.40	13.8	15.7	7.3	13.3	3.6	6.1	2 - 3/4	90	333	500	71.8
× 890-53-10270-23	10	10.65-11.55	16.2	18.2	7.3	13.5	3.6	6.3	2 - 3/4	90	333	500	89.3
× 890-53-12322-23	12	12.68-13.39	17.4	19.8	7.3	13.5	3.6	6.3	2 - 3/4	90	333	500	96.9

This product is protected under a registered patent. see Krausz website for details. Copyright © 2017 Krausz Industries Ltd., All rights reserved

ITEM 119



HYMAX® REDUCER

(1.5"-60")

HYMAX®
Repair the past. Connect the future.

PRODUCT SPECIFICATIONS

FEATURES

- USING THE GAME-CHANGING HYMAX TECHNOLOGY, PROVEN IN OVER 1M INSTALLATIONS IN THE US
- SUITABLE FOR ALL TYPES OF PIPES - DUCTILE IRON, CAST IRON, STEEL, COPPER, PE, PVC, AC, GRP
- JOINS PIPES OF DIFFERENT SIZES
- PATENTED HYDRAULICALLY-ASSISTED GASKET WITH 2-STAGE SEALING
- LIGHTWEIGHT CONSTRUCTION ENABLES FAST AND EASY INSTALLATION
- ALLOWS 4° DYNAMIC DEFLECTION ON EACH END, REDUCING FUTURE PIPE DAMAGE
- ONE PRODUCT CAN CONNECT PIPES OF TWO DIFFERENT MATERIALS

SPECIFICATIONS

STANDARDS

HYMAX REDUCER MEETS OR EXCEEDS STANDARDS AWWA C-219, NSF 61, NSF 372.

SIZE

AVAILABLE IN NOMINAL DIAMETERS FROM 1.5"-24" STANDARD. 26"-60" MTO (MADE TO ORDER). CALL KRAUSZ FOR DETAILS.

MATERIALS

END RINGS

1.5"-12"- ASTM A283 / A 283M GRADE C STEEL.
14"-16"- ASTM A283 / A 283M GRADE C STEEL.
(OR DUCTILE IRON CASTING ASTM A536 GRADE 60-40-18)
18"-60"- ASTM A283 / A283M GRADE C STEEL.

CENTER RING

1.5"-12"- ASTM A53 GRADE A STEEL.
14"-60"- ASTM A283 / A283M GRADE C STEEL.

GASKETS

EPDM AND NBR AVAILABLE. BOTH ARE COMPOUNDED FOR WATER AND SEWAGE, MEET INTERNATIONAL STANDARDS FOR CONTACT WITH DRINKING WATER.

BRIDGE

AISI 304 STAINLESS STEEL.

SPHERICAL SPACERS

AISI 304 STAINLESS STEEL.

COATING

100% FUSION BONDED EPOXY FOR ENHANCED CORROSION PROTECTION. NOMINAL THICKNESS 14 MIL.

NUTS AND BOLTS

AISI 304 STAINLESS STEEL. ROLLED THREAD AND ANTI-GALLING COATING.

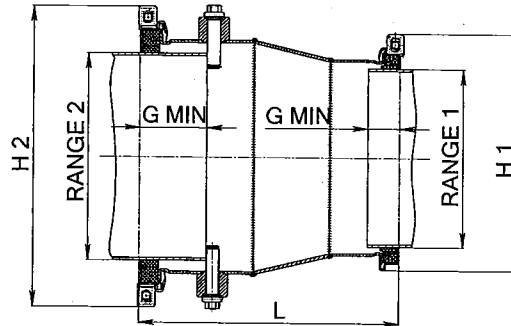
PRODUCT PERFORMANCE (*)

WORKING TEMPERATURE	EPDM: -20°F UP TO +125°F NBR: -4°F UP TO +125°F			
DYNAMIC DEFLECTION	1.5"-48" UP TO 4° PER SIDE	>48" UP TO 3° PER SIDE		
MIN. PIPE INSERTION	1.5"-12" 2.25"	14"-60" 4"		
MAXIMUM OFFSET FOR MISALIGNED PIPES	1.5"-3" 0.39"	4"-60" 0.51"		
MAXIMUM OUT OF ROUNDNESS	1.5" 0.08"	2"-3" 0.20"	4"-12" 0.31"	14"-60" 0.51"
WORKING PRESSURE	1.5"-16" 260 PSI	18"-24" 232 PSI	26"-60" CALL KRAUSZ FOR DETAILS	
RATED PRESSURE	1.5"-16" 390 PSI	18"-24" 350 PSI	26"-60" CALL KRAUSZ FOR DETAILS	
VACUUM TEST	12 PSI			

* SEE SUBMITTAL DRAWINGS FOR DETAILS.

PRODUCT TABLES

HYMAX REDUCER NOMINAL SIZES 12"-14"



Krausz Part Number	ND (inch)	Overall Range 1 (inch)	Before Removal of Inner Layer 1 (inch)	After Removal of Inner Layer 1 (inch)	Overall Range 2 (inch)	Before Removal of Inner Layer 2 (inch)	After Removal of Inner Layer 2 (inch)	Bolts Qty. -Size	H1 (inch)	H2 (inch)	L (inch)	Approx. Weight (Lbs)
X 861560315035316	12 x 14	12.40-13.66	12.40-13.03	12.99-13.66	13.90-16.00	13.90-15.00	14.92-16.00	1 -M14 2 -M16	17.5	23.2	20.3	90
861560315037816	12 x 14	12.40-13.66	12.40-13.03	12.99-13.66	15.00-17.10	15.00-16.10	16.02-17.10	1 -M14 2 -M16	17.5	23.2	20.3	100
861560334037816	12 x 14	13.15-14.41	13.15-13.78	13.74-14.41	15.00-17.10	15.00-16.10	16.02-17.10	1 -M14 2 -M16	18.1	23.2	20.3	100