HYMAX®

Repair the past. Connect the future.

HYMAX® GRIP
Wide-Range Restraint Solutions

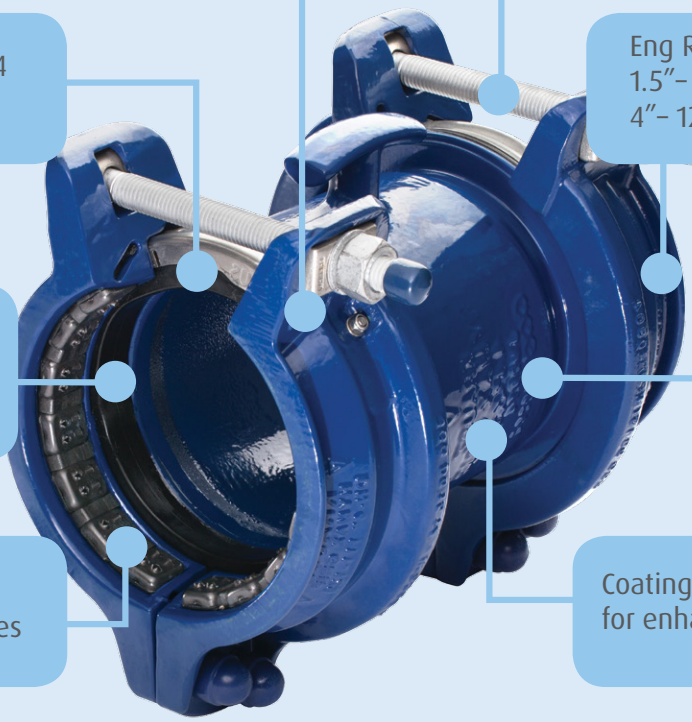
HYMAX GRIP.
THE TEETH MAKE THE DIFFERENCE.

There are many situations that require couplings with additional restraining power. HYMAX restraint products combine the patented technology of the HYMAX® Coupling with a unique restraint system, joining pipe ends while preventing any possible movement. Designed using HYMAX' innovation and patented technology, our restraint solutions work with metal and plastic pipes and are suitable for a wide variety of applications.

JOIN | REPAIR | RESTRAIN

KRAUSZ is the creator of HYMAX

HYMAX® GRIP



Spherical Spacer - Type 304L Stainless Steel

Gasket Bridge - Type 304 Stainless Steel

Gasket - EPDM compounded for water and sewage

Grip chain that restrains both metal & plastic pipes

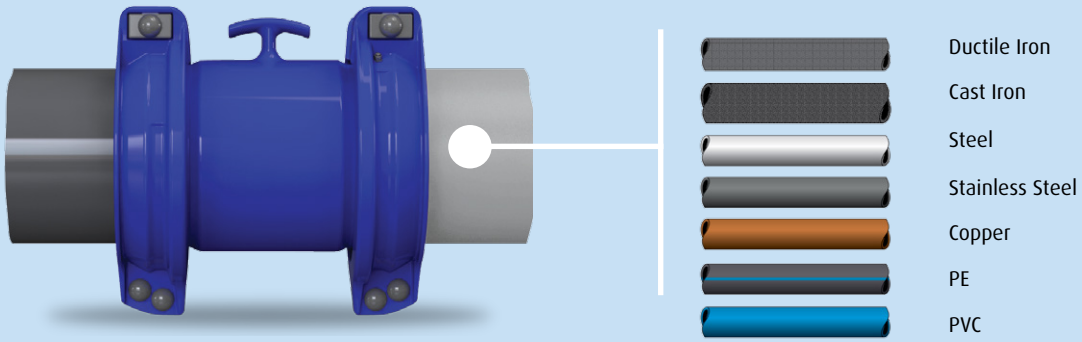
Nuts & Bolts - Type 304 Stainless Steel
Rolled thread and anti-galling coating

Eng Ring:
1.5"– 3" - Cast Steel
4"– 12" - Ductile Iron Casting

Middle Ring + T Handle - Ductile Iron Casting

Coating - 100% fusion bonded epoxy for enhanced corrosion protection

Picture is based on HYMAX GRIP 4" - features may vary between different product sizes.



PRODUCT SPECIFICATIONS

HYMAX GRIP COUPLING
1.5″ - 12″

HYMAX GRIP END CAP
1.5″ - 12″

HYMAX GRIP FLANGE ADAPTOR
3″ - 12″

HYMAX GRIP COUPLING 1.5″ – 3″

Krausz Part Number	DN (inch)	Overall Range (inch)	Before removing the inner layer (inch)	After removing the inner layer (inch)	Working Pressure (PSI)	Rated Pressure (PSI)
890-56-015039-16	1.5/2	1.54 - 2.64	1.54 - 2.20	2.17 - 2.64	232	350
890-56-025059-16	2.5	2.32 - 3.43	2.32 - 2.99	2.95 - 3.43	232	350
890-56-030080-16	3	3.15 - 4.17	3.15 - 3.74	3.70 - 4.17	232	350

HYMAX GRIP COUPLING 4″ – 12″

Krausz Part Number	DN (inch)	Overall Range (inch)	Working Pressure (PSI)	Rated Pressure (PSI)
890-56-04111-16	4	4.40 - 5.10	232	350
890-56-06165-16	6	6.50 - 7.20	232	350
890-56-08216-16	8	8.50 - 9.40	232	350
890-56-10270-16	10	10.65 - 11.55	232	350
890-56-12322-16	12	12.68 - 13.39	232	350

HYMAX GRIP END-CAP 1.5″ – 3″

Krausz Part Number	DN (inch)	Overall Range (inch)	Before removing the inner layer (inch)	After removing the inner layer (inch)	Working Pressure (PSI)	Rated Pressure (PSI)
867-56-015039-16	1.5/2	1.54 - 2.64	1.54 - 2.20	2.17 - 2.64	232	350
867-56-025059-16	2.5	2.32 - 3.43	2.32 - 2.99	2.95 - 3.43	232	350
867-56-030080-16	3	3.15 - 4.17	3.15 - 3.74	3.70 - 4.17	232	350

HYMAX GRIP END-CAP 4″ – 12″

Krausz Part Number	DN (inch)	Overall Range (inch)	Working Pressure (PSI)	Rated Pressure (PSI)
867-56-04111-16	4	4.40 - 5.10	232	350
867-56-06165-16	6	6.50 - 7.20	232	350
867-56-08216-16	8	8.50 - 9.40	232	350
867-56-10270-16	10	10.65 - 11.55	232	350
867-56-12322-16	12	12.68 - 13.39	232	350

HYMAX GRIP FLANGED ADAPTOR 3″

Krausz Part Number	DN (inch)	Overall Range (inch)	Before removing the inner layer (inch)	After removing the inner layer (inch)	Working Pressure (PSI)	Rated Pressure (PSI)
130-56-030080-16	3	3.15 - 4.17	3.15 - 3.74	3.70 - 4.17	232	350

HYMAX GRIP FLANGED ADAPTOR 4″ - 12″

Krausz Part Number	DN (inch)	Overall Range (inch)	Working Pressure (PSI)	Rated Pressure (PSI)
130-56-04111-16	4	4.40 - 5.10	232	350
130-56-06165-16	6	6.50 - 7.20	232	350
130-56-08216-16	8	8.50 - 9.40	232	350
130-56-10270-16	10	10.65 - 11.55	232	350
130-56-12322-16	12	12.68 - 13.39	232	350

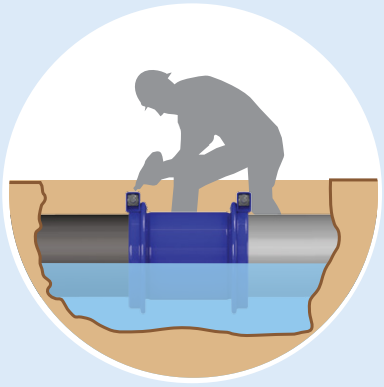
THE HYMAX® GRIP

Unmatched performance

- Patented pipe grip – universal gripping system designed to restrain metal and plastic pipes.
- The unique patented radial closing mechanism holds pipes tightly in place during installation, allowing full control over the gap between pipes.
- The patented GRIP chain offers circular restraint around the pipe, unlike typical wedge - style restraints that point-load the pipe.
- As the pipe applies axial pressure, the GRIP chain increasingly tightens over the pipe, preventing pullout.

Multiple applications

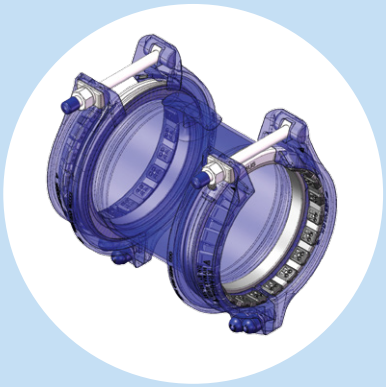
- Suits a wide range of pipe diameters, replacing the need to use dedicated products and thus reducing inventory costs and saving shelf space.
- The HYMAX GRIP fits different types of plastic and metal pipes and allows transition capability of up to 1.1".



Ease of use

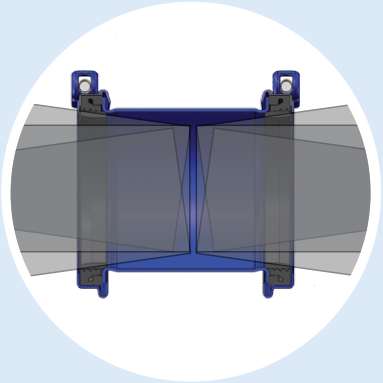
- Ready to use, stab-fit design features top-facing bolts for quick and easy installation, reducing time in the ditch and improving worker safety.
- Comfortably slides over the pipe before final positioning.

FAMILY FEATURES



Extremely durable design

- High-quality sealing solution – Patented hydraulically-assisted gasket features two-stage sealing: mechanical sealing that is effective under vacuum or non-pressure and self-inflated gasket using water pressure.
- Advanced anti-galling using unique dry treatment process on nuts and bolts, with Molecular Anti-Galling (MAG) based on embedded zinc, prevents galling and enables repeated bolt tightening; it also eliminates the need for grease, preventing dust and dirt build-up.
- Fusion-bonded epoxy coating enables an insulated product and prevents corrosion.
- Innovative radial closing design and sealing systems eliminate installation errors.



Flexible connection

- Allows up to 4° angular deflection on each end.
- Absorbs post-installation dynamic pipe deflection of up to 4° on each end, reducing the risk of damage and cracking due to ground shifts and temperature changes.
- Adapts to out-of-round pipe shape (up to 0.16”), for optimum fit on both ends.

The HYMAX GRIP provides the best join and restraint solution for:

- Section replacement near angle, T or dead-ends
- Replaces old restraint section/product
- Dead-end pressure testing
- A restraint system currently in use or being installed

HYMAX® GRIP Product information

1. HYMAX GRIP meets or exceeds all specifications of AWWA Standard C219, NSF-61 and NSF-372.
2. End rings:
   - 1.5" - 3": Steel Casting ASTM A216 WCB.
   - 4" - 12": Ductile Iron Casting ASTM A536 grade 60-40-18.
3. Body / Center Ring:
   -Ductile Iron Casting ASTM A536 grade 65-45-12.
   -HYMAX GRIP Flange Adapter - flange compatible with AWWA Class D, ANSI Class 125/150.
   -Sizes 1.5", 2", and 2.5" without handle or lifting eye.
4. Bolts, Nuts and Washers: ASIS 304 Stainless Steel impregnated with zinc via the MAG process.
5. Gasket: EPDM compounded for water and sewage meets international standards for contact with drinking water NSF-61 and NSF-372.
6. Gasket bridge: AISI 304 Stainless Steel.
7. Spherical spacers: AISI 304L Stainless Steel.
8. Coating: 100% fusion bonded epoxy for enhanced corrosion protection NSF-61 and NSF-372.
   - Average thickness 14 mil.
9. Working temperature: -20°F up to +125°F.
10. Min. Pipe Insertion of 3.6".
11. Dynamic deflection up to 4° per side.
12. Working pressure: 232 PSI.
13. Rated pressure: 350 PSI.
14. Vacuum test: 12 PSI.

* Data may vary according to product type and size. For product specification sheet please refer to our website: www.krauszusa.com

90 YEARS OF INNOVATIVE PIPE JOIN AND REPAIR SOLUTIONS

For 90 years, Krausz, the creator of HYMAX has developed and manufactured market-leading products for the repair and connection of different pipe types in the potable water and sewerage markets.
We have a solid reputation selling a wide variety of innovative, easy-to-use, durable products that save time and reduce inventory.

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