



# HYMAX GRIP® REDUCER\*

(40mm - 300mm)

## PRODUCT SPECIFICATIONS

### FEATURES

- JOINS AND RESTRAINS A WIDE RANGE OF PIPING TYPES AND DIFFERENT DIAMETERS
- UNIQUE RADIAL GRIPPING SYSTEM PREVENTS PIPE MOTION
- UNIVERSAL GRIPPING TEETH FIT METAL AND PLASTIC PIPES
- READY TO USE, STAB-FIT DESIGN
- ALLOWS 4° DYNAMIC DEFLECTION PER END, REDUCING FUTURE DAMAGE
- DURABLE DUCTILE IRON BODY
- PATENTED PROGRESSIVE PRESSURE-ASSISTED GASKET WITH 2-STAGE SEALING

### SPECIFICATIONS (\*\*)

#### STANDARDS

ALL PRODUCTS MEET OR EXCEED STANDARDS NSF-61 AND NSF-372.  
PRODUCTS WERE APPROVED BY 3RD PARTY ILAC LAB ACCORDING TO EN 14525.

#### SIZE

AVAILABLE IN NOMINAL DIAMETER SIZES 40mm – 300mm.

#### RANGES

26mm - 28mm: NOMINAL DIAMETERS 40mm – 100mm.  
32mm: NOMINAL DIAMETERS 125mm – 175mm.  
50mm: NOMINAL DIAMETERS 175mm – 300mm.

#### MATERIALS

##### END RINGS

40mm – 80mm: CAST STEEL ASTM A216 WCB.  
100mm – 300mm: DUCTILE IRON CASTING ASTM A536 GRADE 60-40-18.

##### CENTER RING

40mm – 300mm: DUCTILE IRON CASTING ASTM A536 GRADE 65-45-12.  
PRODUCT SIZES 40mm – 300mm WITH HANDLE.

##### GASKET

EPDM COMPOUNDED FOR WATER AND SEWERAGE, MEETS INTERNATIONAL STANDARDS FOR CONTACT WITH DRINKING WATER: NSF-61, KTW-UBA ELASTOMER GUIDELINE, W270, XP P 41-250, AS/NZS 4020, AND BS 6920. MEETS DIN EN 681-1 FOR WATER AND DRAINAGE APPLICATIONS.

##### GRIP CHAIN

| SIZE     | 40mm – 80mm | 100mm – 175mm | 175mm – 300mm |
|----------|-------------|---------------|---------------|
| MATERIAL | AISI-440C   | AISI-420 2B   | AISI-420      |

##### BRIDGE

AISI 304/316 STAINLESS STEEL.

##### SPHERICAL SPACERS

AISI 304/316 STAINLESS STEEL.

##### COATING

100% FUSION BONDED EPOXY FOR ENHANCED CORROSION PROTECTION. AVERAGE THICKNESS 250 MICRON. MEETS NSF-61, BS 6920, W270, ONORM B 5014-1, XP P 41-250, AS/NZS 4020, AND UBA-COATINGS GUIDELINE.

##### NUTS AND BOLTS

AISI 304/316 STAINLESS STEEL. ROLLED THREAD AND ANTI-GALLING COATING.

\* The product is protected by various patents registered in various countries.

\*\* For details about Made to Order (MTO) products please contact your KRAUSZ distributor.



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(40mm - 300mm)

## PRODUCT SPECIFICATIONS

### PRODUCT PERFORMANCE

#### WORKING TEMPERATURE

##### EPDM GASKET

CONTINUOUS OPERATION | -30°C UP TO +85°C  
 SHORT TIME OPERATION | -30°C UP TO +100°C

##### EPOXY COATING

ABOVE GROUND APPLICATIONS | UP TO +50°C  
 BELOW GROUND APPLICATIONS | UP TO +65°C

#### DYNAMIC DEFLECTION

UP TO 4° PER SIDE

#### MIN. PIPE INSERTION

RANGE | ≤ 32mm | 50mm  
 MIN. PIPE INSERTION | 95mm | 125mm

#### MAX. OFFSET FOR MISALIGNED PIPE

40mm – 300mm  
 6mm

#### MAX. OUT OF ROUNDNESS

| RANGE            | ≤ 32mm | 50mm      |
|------------------|--------|-----------|
| NOMINAL DIAMETER | ≤80mm  | 100-175mm |
| OUT OF ROUNDNESS | 3mm    | 4mm       |
|                  |        | ≥175mm    |
|                  |        | 5mm       |

#### WORKING PRESSURE

16 BAR

#### RATED PRESSURE

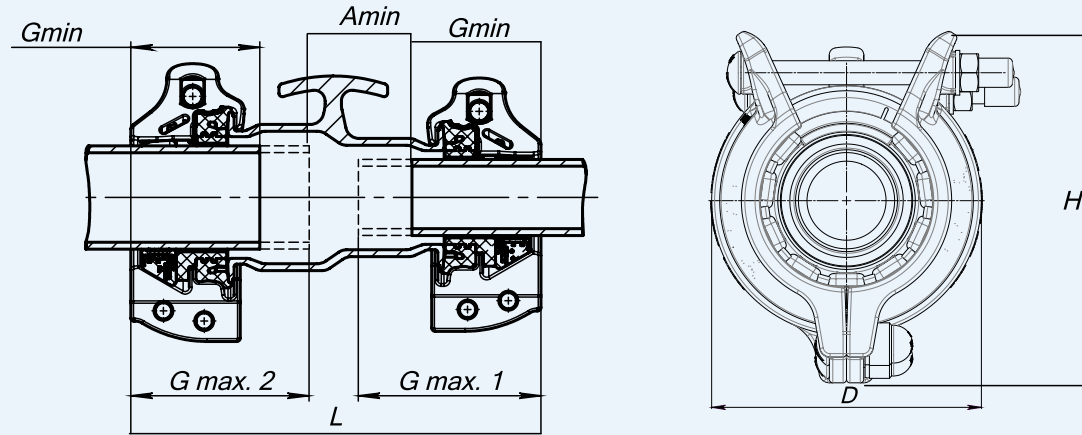
24 BAR

#### VACUUM TEST

0.8 BAR

## PRODUCT TABLES

### HYMAX GRIP REDUCER 40-200



X=5 -> 304 STAINLESS STEEL

X=7 -> 316 STAINLESS STEEL

#### HYMAX GRIP REDUCER NOMINAL SIZES 40-100mm

| Krausz Part Number | DN (mm)      | Range 1            |                                    |                                   | Range 2            |                                    |                                   | L (mm) | H (mm) | D (mm) | G-Max 1 Stab Depth (mm) | G-Max 2 Stab Depth (mm) | A min (mm) | Bolts Qty. -Size (mm) | Torque 1 (Nm) | Torque 2 (Nm) | Approx Weight (kg) |
|--------------------|--------------|--------------------|------------------------------------|-----------------------------------|--------------------|------------------------------------|-----------------------------------|--------|--------|--------|-------------------------|-------------------------|------------|-----------------------|---------------|---------------|--------------------|
|                    |              | Overall Range (mm) | Before removal of inner layer (mm) | After removal of inner layer (mm) | Overall Range (mm) | Before removal of inner layer (mm) | After removal of inner layer (mm) |        |        |        |                         |                         |            |                       |               |               |                    |
| 86382X0039005916   | (40/50) x 65 | 39-67              | 39-56                              | 55-67                             | 59-87              | 59-76                              | 75-87                             | 302    | 204.5  | 157    | 140                     | 140                     | 20         | 2 - M14               | 65            | 65            | 8.33               |
| 86382X0059008016   | 65 x 80      | 59-87              | 59-76                              | 75-87                             | 80-106             | 80-95                              | 94-106                            | 302    | 230    | 176    | 140                     | 140                     | 20         | 2 - M14               | 65            | 65            | 11.21              |
| 86382X0080010416   | 80 x 100     | 80-106             | 80-95                              | 94-106                            | 104-130            | 104-118                            | 117-130                           | 318    | 249    | 199    | 150                     | 140                     | 20         | 2 - M16               | 65            | 100           | 12.15              |

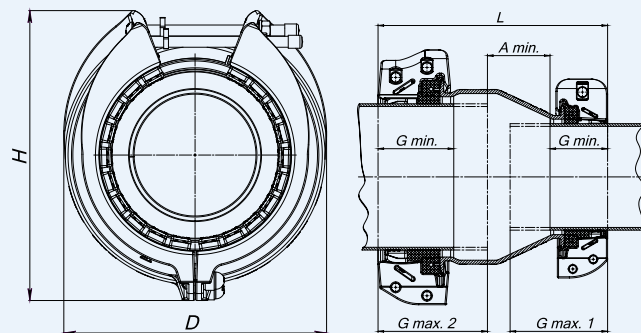
#### HYMAX GRIP REDUCER NOMINAL SIZES 100-200mm

| Krausz Part Number | DN (mm)       | Range 1            |                                    |                                   | Range 2            |                                    |                                   | L (mm) | H 1 (mm) | H 2 (mm) | D 1 (mm) | D 2 (mm) | G-Max 1 Stab Depth (mm) | G-Max 2 Stab Depth (mm) | A min (mm) | Bolts Qty. -Size (mm) | Torque 1 (Nm) | Torque 2 (Nm) | Approx Weight (kg) |
|--------------------|---------------|--------------------|------------------------------------|-----------------------------------|--------------------|------------------------------------|-----------------------------------|--------|----------|----------|----------|----------|-------------------------|-------------------------|------------|-----------------------|---------------|---------------|--------------------|
|                    |               | Overall Range (mm) | Before removal of inner layer (mm) | After removal of inner layer (mm) | Overall Range (mm) | Before removal of inner layer (mm) | After removal of inner layer (mm) |        |          |          |          |          |                         |                         |            |                       |               |               |                    |
| 86382X0104013016   | 100 x 125     | 104-130            | 104-118                            | 117-130                           | 130-162            | 130-146                            | 145-162                           | 324    | 249      | 299      | 199      | 253      | 150                     | 140                     | 25         | 2-M16                 | 110           | 110           | 17.1               |
| 86382X0104015816   | 100 x 150     | 104-130            | 104-118                            | 117-130                           | 158-190            | 158-174                            | 173-190                           | 334    | 249      | 330      | 199      | 280      | 145                     | 145                     | 25         | 2-M16                 | 110           | 130           | 18                 |
| 86382X0130015816   | 125 x 150     | 130-162            | 130-146                            | 145-162                           | 158-190            | 158-174                            | 173-190                           | 360    | 299      | 330      | 253      | 280      | 170                     | 160                     | 25         | 2-M16                 | 110           | 130           | 21.3               |
| 86382X0130019816   | 125 x 175/200 | 130-162            | 130-146                            | 145-162                           | 198-230            | 198-214                            | 213-230                           | 362    | 299      | 375      | 253      | 324      | 150                     | 150                     | 35         | 2-M16                 | 110           | 130           | 23.7               |
| 86382X0158019816   | 150 x 175/200 | 158-190            | 158-174                            | 173-190                           | 198-230            | 198-214                            | 213-230                           | 360    | 330      | 375      | 280      | 324      | 170                     | 160                     | 35         | 2-M16                 | 130           | 130           | 24.7               |

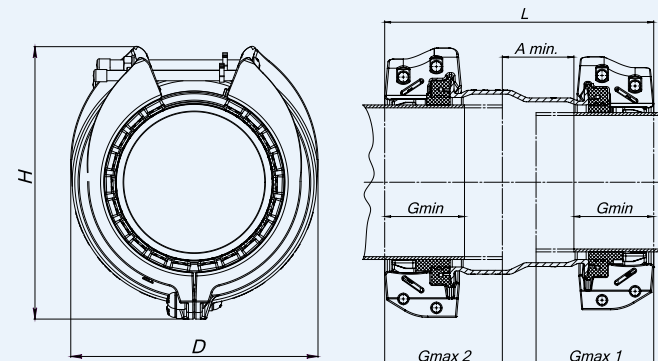
## PRODUCT TABLES

### HYMAX GRIP REDUCER NOMINAL SIZES 150-300mm

HYMAX GRIP REDUCER 150&200



HYMAX GRIP REDUCER 175-300



X=5 -> 304 STAINLESS STEEL

X=7 -> 316 STAINLESS STEEL

| Krausz<br>Part Number | DN<br>(mm) | Range 1                  |                                             |                                            | Range 2                  |                                             |                                            | L<br>(mm) | H<br>(mm) | D<br>(mm) | G-max 1<br>stab<br>depth<br>(mm) | G-max 2<br>stab<br>depth<br>(mm) | A min<br>(mm) | Bolts<br>Qty. -Size<br>(mm) | Torque 1<br>(Nm) | Torque 2<br>(Nm) | Approx<br>Weight<br>(kg) |
|-----------------------|------------|--------------------------|---------------------------------------------|--------------------------------------------|--------------------------|---------------------------------------------|--------------------------------------------|-----------|-----------|-----------|----------------------------------|----------------------------------|---------------|-----------------------------|------------------|------------------|--------------------------|
|                       |            | Overall<br>Range<br>(mm) | Before<br>removal of<br>inner layer<br>(mm) | After<br>removal of<br>inner layer<br>(mm) | Overall<br>Range<br>(mm) | Before<br>removal of<br>inner layer<br>(mm) | After<br>removal of<br>inner layer<br>(mm) |           |           |           |                                  |                                  |               |                             |                  |                  |                          |
| 86382X0158021416      | 150 x 200  | 158-190                  | 158-174                                     | 173-190                                    | 214-264                  | 214-239                                     | 238-264                                    | 383       | 424       | 390       | 170                              | 185                              | 35            | 4 - M16                     | 130              | 140              | 37.2                     |
| 86382X0190021416      | 175 x 200  | 190-240                  | 190-215                                     | 214-240                                    | 214-264                  | 214-239                                     | 238-264                                    | 423       | 424       | 390       | 200                              | 190                              | 35            | 4 - M16                     | 120              | 140              | 46.8                     |
| 86382X0214026616      | 200 x 250  | 214-264                  | 214-239                                     | 238-264                                    | 266-316                  | 266-291                                     | 290-316                                    | 423       | 480       | 442       | 195                              | 185                              | 55            | 4 - M16                     | 140              | 140              | 55.1                     |
| 86382X0266031216      | 250 x 300  | 266-316                  | 266-291                                     | 290-316                                    | 312-362                  | 312-337                                     | 336-362                                    | 423       | 525       | 489       | 190                              | 200                              | 55            | 4 - M16                     | 140              | 180              | 63.7                     |

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