## SIZE TABLE & SETTING GUIDE

| NPS (ASME) | *Carrier Pipe OD (mm) | *Carrier Pipe OD (Inches) | **Carrier Pipe Nominal Size (DN) | Recommended # Segments | Banding | Approx Setting Guide Position |
|---|---|---|---|---|---|---|
| 3.5 | 101.60 | 4.00 | | 2 | No | 0 |
| | 110.00 | 4.33 | | 2 | No | 10 |
| | 122.00 | 4.80 | 100 | 2 | No | 30 |
| 4.5 | 127.00 | 5.00 | | 2 | No | 40 |
| 5 | 141.30 | 5.56 | | 2 | No | 65 |
| | 160.00 | 6.30 | | 3 | No | 15 |
| 6 | 168.27 | 6.62 | | 3 | No | 20 |
| | 177.00 | 6.97 | 150 | 3 | No | 30 |
| | 200.00 | 7.87 | | 3 | No | 55 |
| 8 | 219.08 | 8.63 | | 4 | No | 10 |
| | 232.00 | 9.13 | 200 | 4 | No | 20 |
| | 259.00 | 10.20 | 225 | 4 | No | 40 |
| 10 | 273.05 | 10.75 | | 5 | No | 10 |
| | 286.00 | 11.26 | 250 | 5 | No | 20 |
| 12 | 323.85 | 12.75 | | 5 | No | 40 |
| | 345.00 | 13.58 | 300 | 6 | No | 20 |
| 16 | 406.40 | 16.00 | | 7 | No | 20 |
| | 426.00 | 16.77 | 375 | 7 | No | 30 |
| | 453.00 | 17.83 | 400 | 8 | No | 20 |
| 20 | 507.00 | 19.96 | 450 | 9 | No | 20 |
| 22 | 560.00 | 22.05 | 500 | 10 | No | 15 |
| 24 | 609.60 | 24.00 | | 11 | No | 15 |
| | 630.00 | 24.80 | | 11 | No | 20 |
| | 667.00 | 26.26 | 600 | 12 | No | 15 |
| 28 | 711.20 | 28.00 | | 12 | No | 25 |
| 30 | 762.00 | 30.00 | | 13 | No | 25 |
| | 800.00 | 31.50 | | 14 | Yes | 20 |
| | 826.00 | 32.52 | 750 | 14 | Yes | 25 |
| | 900.00 | 35.43 | | 15 | Yes | 25 |
| | 1000.00 | 39.37 | | 17 | Yes | 25 |
| 42 | 1066.80 | 42.00 | | 18 | Yes | 30 |
| 44 | 1117.60 | 44.00 | | 19 | Yes | 30 |
| 48 | 1219.20 | 48.00 | | 21 | Yes | 30 |
| 52 | 1320.80 | 52.00 | | 22 | Yes | 35 |
| | 1400.00 | 55.12 | | 23 | Yes | 30 |
| | 1564.00 | 61.57 | | 25 | Yes | 35 |
| | 1600.00 | 62.99 | | 26 | Yes | 35 |
| | 1668.00 | 65.67 | | 27 | Yes | 35 |

* For PE Pipe refer to the nearest Carrier Pipe OD.
** OD for Nominal Size (DN) designations is a guide only. If unsure please confirm actual carrier pipe OD.

**For pipe greater than 800mm OD (e.g. DN 750 and above), for very heavy weight pipe, or if the pipe material is slippery, it is recommended that 12mm stainless steel worm drive banding be applied over the collars. Contact kwik-ZIP for further information.**

**HDX Spacers are generally suitable for heavy pipe run lengths up to 300m (approx. 1,000 ft) in good condition casings. Longer run lengths may be possible with casing lubrication, banding, and/or closer spacer intervals. Contact kwik-ZIP for further advice.**



# kwik-ZIP®

***INERT CENTRALIZER & SPACER SYSTEMS***
***FOR THE DRILLING & CIVIL CONSTRUCTION INDUSTRY***

# INSTALLATION GUIDE

## HDX SPACERS

**FOR PIPE IN PIPE (PIP)**
**APPLICATIONS SUCH AS SLIP LINING,**
**CASED CROSSINGS, ETC.**

## IMPORTANT: PLEASE READ IN FULL BEFORE INSTALLATION

**www.kwikzip.com**

*Issue Date: Sept 18*

## PRODUCT SELECTION GUIDE

The table below shows Model details, Part # and maximum operating temperatures:

| Model & (Runner Height) | Part # | Max Operating Temp (Deg C/F) | Recommended for use on Pipe Diameter: |
|---|---|---|---|
| HDX 38 : (1 ½ " / ~ 38mm) | 00038 | 80 C / 176 F | 3.5" NPS (101.6 mm OD & greater) |
| HDX 65 : (2.56" / ~ 65mm) | 00065 | | |
| HDX 90 : (3.54" / ~ 90mm) | 00090 | | |
| HDX 125: (4.92" / ~ 125mm) | 00125 | | |

*HDX Spacers are made with rubber grip pads under the collars to prevent slippage on the pipe, however banding of collars with 12mm stainless steel worm drive banding may be required in certain circumstances.*

*HDX Spacer runners incorporate a load sharing suspension system allowing heavy loads to be shared across multiple runners, thereby reducing point loading and increasing the overall load capacity of the spacer.*

**Selecting Model (Runner Height):** The HDX Model # corresponds to the runner height. To select the correct runner height, calculate the annular clearance between the inner pipe and the outer casing (assuming centralisation in the casing). The annular clearance is half the difference between the outer casing ID and the inner pipe OD.

For ease of insertion it is recommended that the selected runner height is at least 10mm (0.3937") less than the annular clearance. The runner height should also be at least 15mm (0.59") greater than the height of the bell.

Different casing positions can be achieved by combining different runner heights in the same spacer, including centred, or restrained. Contact kwik-ZIP if assistance is required.

**Spacer Interval:** Subject to project specifications, recommended intervals for medium to heavy weight pipe (including Standard Ductile Iron) up to 1200 DN (48" NPS) are 1m (3.28 ft) in the case of an un-grouted annulus, and 2m (6.56 ft) when the annulus is grouted. A spacer should also be placed within 500mm (20") of each end of the pipe. For pipe diameters greater than 1200 DN (48" NPS), please contact kwik-ZIP for further advice. Flange weight should also be considered on large diameter Flanged Ductile Iron.

If installing on heavy weight pipe with an annular clearance of greater than 200mm (7.875") (more than 400mm (15.75") difference between inner pipe OD and casing ID), contact kwik-ZIP for confirmation of the interval between spacers.

Subject to project specifications & pipe sag between spacers, intervals of up to 3m (9.84 ft) can be used on light to medium weight pipe (e.g. PVC & HDPE) when the annulus is to be grouted.

## INSTALLATION INSTRUCTIONS

The table on the back page of this guide indicates the number of HDX Spacer segments required to make each complete spacer and the approx. setting position for various pipe diameters.



**Step 1.** When you have established the appropriate setting guide position (see table on rear page), place the segments on a flat surface and insert the male section of each segment into the mouth of the screw housing on the next segment as indicated by the arrows (Fig. 1). Ensure that the collar straps extend beyond and are fed under the strap deflector (Fig. 2).

Fig. 1

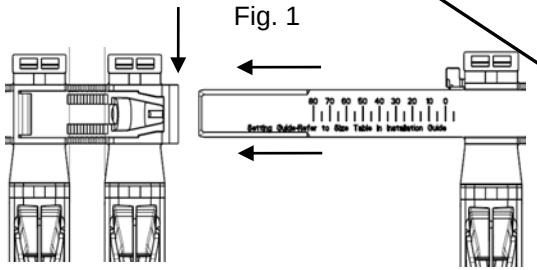
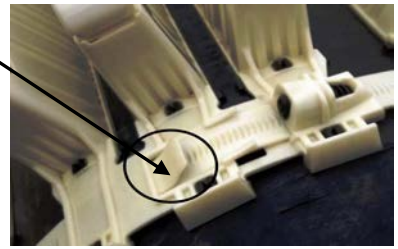


Fig. 2

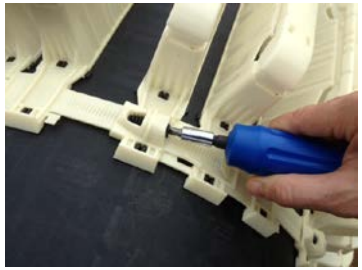


**Step 2.** Line up the leading edge of each screw housing (Fig 1.) with the appropriate number on the Setting Guide.

**Step 3.** Once all segments are set, they can be wrapped around the pipe and the final joints can be fastened. This method allows the centralizer to be made up mostly by hand. Alternatively a cordless drill with screw driver attachment can be used provided care is taken not to over torque the screws.

Always tighten the screws underneath the pipe last as this will provide greater tension and better grip.

A flat screwdriver of approx. 6mm ($^5/_{16}$") is used to tighten the screws once the segments are fixed to the pipe.



***Important Notes:***
***Do not over tension the screws as this may cause damage to the thread. Maximum torque of 10 inch-lbs is recommended.***

*kwik-ZIP®* ***products should not be exposed to a naked flame or sparks from welding. Failure to shield the product whilst welding may result in damage.***

***Conditions of Sale and Use / Warranty:***

*Due to the varying conditions and applications for which kwik-ZIP products are used, neither kwik-ZIP Pty Ltd or kwik-ZIP Marketing Pty Ltd (collectively, kwik-ZIP) offer any warranty for the products suitability for any particular purpose. Accordingly, the Purchaser is deemed to have assessed the suitability of the goods for the intended application and to the extent permitted by law, liability of kwik-ZIP for breach of any implied, express, or statutory warranty or condition which cannot be excluded is restricted, at kwik-ZIP's option, to:*

*i) The replacement of goods found to be defective in material and workmanship; or*

*ii) The payment of the cost of having such goods replaced;*

*Replacement of or payment for such goods is subject the goods being returned to us within 12 months of shipment by kwik-ZIP.*

*Issue Date: Sept 18*