kwik-ZIP®

INERT CENTRALIZER & SPACER SYSTEMS

INSTALLATION GUIDE

HDX SPACERS

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

IMPORTANT: PLEASE READ IN FULL
BEFORE INSTALLATION

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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	- 20 C to 80 C - 4 F to 176 F in certain applications (temperatures above 50 C / 122 F may require closer intervals).	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 size and setting guide table in 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, 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 (Figure 1).

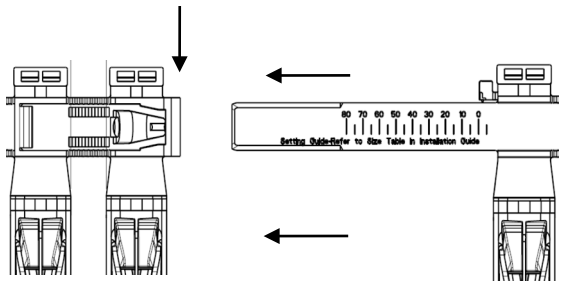


Figure 1

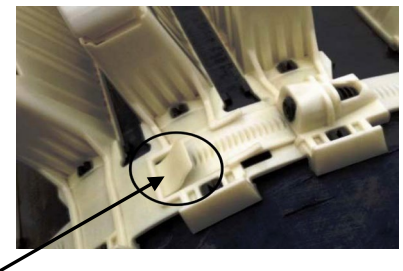


Figure 2

Ensure that the collar straps extend beyond and are fed under the strap deflector (Figure 2).

Step 2.

Line up the leading edge of each screw housing (Figure 1.) with the appropriate number on the Setting Guide.

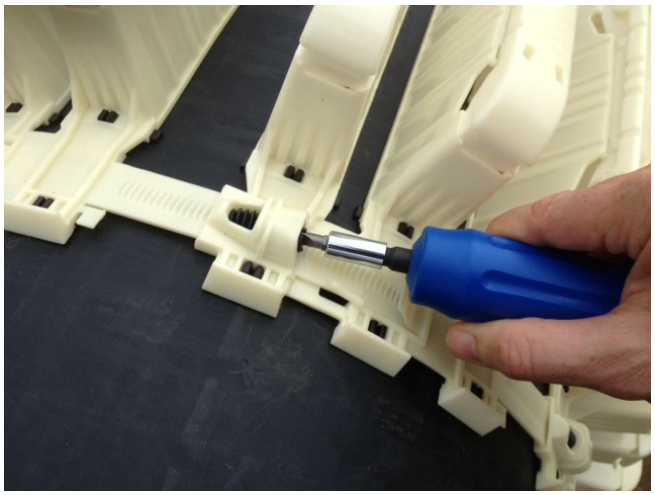
Step 3.

Once all segments are set, they can be wrapped around the pipe, and the final joints can be fastened. This method allows the spacer to be made up mostly by hand.

All screws must be tightened and always tighten the screws underneath the pipe last as this will provide greater tension and better grip.

A flat screwdriver of approx. 8mm ($^{5}/_{16}$”) is used to tighten the screws once the segments are fixed to the pipe.

Alternatively, a cordless drill with screwdriver attachment can be used provided care is taken not to over torque the screws.



Important Notes:

- ***Do not over tension the screws as this may cause damage to the thread. Maximum torque of 10 inch-lbs (1.13Nm) is recommended.***
- ***Care must be taken to support the pipe outside the casing during horizontal applications as unsupported pipe can lead to excess loads on the spacers.***

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

SIZE TABLE & SETTING GUIDE

NPS	Pipe OD (mm)	Pipe OD (Inches)	Recommended # Segments	Banding Recommended	Approx Setting Guide Position
3.5	101.60	4.00	2		0
4	114.30	4.50	2		20
4.5	127.00	5.00	2		40
5	141.30	5.56	2		65
	150.00	5.91	3		5
	160.00	6.30	3		15
6	168.27	6.62	3		20
	180.00	7.09	3		30
	200.00	7.87	3		55
8	219.08	8.63	4		10
	240.00	9.45	4		25
	250.00	9.84	4		35
10	273.05	10.75	5		10
12	323.85	12.75	5		40
14	355.60	14.00	6		25
16	406.40	16.00	7		20
18	457.20	18.00	8		20
20	508.00	20.00	9		20
22	558.00	21.97	10		15
24	609.60	24.00	11		15
26	660.40	26.00	12		15
28	711.20	28.00	12		25
30	762.00	30.00	13		25
32	812.80	32.00	14	Yes	20
34	863.60	34.00	14	Yes	30
36	914.40	36.00	15	Yes	30
40	1016.00	40.00	17	Yes	30
42	1066.80	42.00	18	Yes	30
44	1117.60	44.00	19	Yes	30
46	1168.40	46.00	20	Yes	30
48	1219.20	48.00	21	Yes	30
52	1320.80	52.00	22	Yes	35
56	1422.40	56.00	23	Yes	40
60	1524.00	60.00	25	Yes	30

* 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 advice.

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.

CONDITIONS OF SALE AND USE / WARRANTY:

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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.