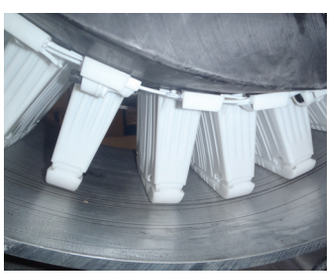
HDX Series

Application

A non corroding, non-metallic casing spacer for Pipe-in-Pipe (PIP) applications such as slip lining and cased crossings for all medium to heavy weight pipe materials including steel, DICL, MSCL, GRE, PVC and HDPE. Suitable for all diameters from 100mm OD to 1600mm OD and beyond by addition of multiple segments.



Construction & Features

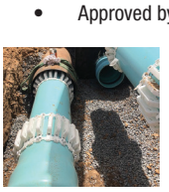
- Made from Kwik-ZIP's engineered thermoplastic blend with high flexural strength, high temperature resistance, low co-efficient of friction, abrasion resistance and outstanding chemical resistance.
- Integrated rubber grip pads under collars to prevent slippage. No requirement to pre-wrap pipe.
- Load sharing suspension system allowing heavy loads to be shared across multiple runners reducing point loading and increasing the overall load capacity of the spacer.
- Minimizes spacer weight bearing capacity and reduces point loading via a unique load sharing runner system.
- Ability to combine different runner heights in the same spacer ring to assist in borehole grade correction.
- Larger diameters are accommodated by joining additional segments.
- Requires only a flat blade screwdriver for installation.

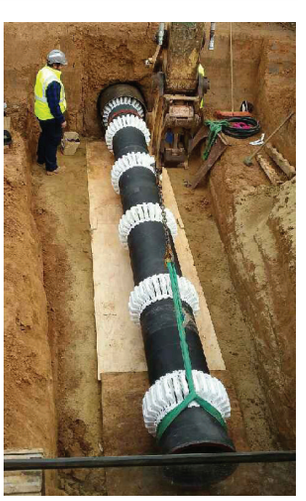
Models

Model	Runner Height	Part #	Operating Temp (Deg C / F)	Recommended for use on Pipe Diameter	Units per carton	Carton Dimensions (L x W x H)	Gross Carton Weight
HDX 38	38mm / 1 ½"	00038	- 20 C to 80 C - 4 F to 176 F in certain applications (temperatures above 50 C / 122 F may require closer intervals)	100mm OD & greater	20	370mm x 350mm x 300mm 14.6" x 13.8" x 11.8"	11 Kg / 24.2 lbs
HDX 65	65mm / 2.56"	00065			20	370mm x 350mm x 330mm 14.6" x 13.8" x 12.9"	13 Kg / 28.6 lbs
HDX 90	90mm / 3.54"	00090			20	370mm x 350mm x 365mm 14.6" x 13.8" x 14.4"	14.6 Kg / 32.1 lbs
HDX 125	125mm / 4.92"	00125			20	370mm x 350mm x 405mm 14.6" x 13.8" x 15.9"	17 Kg / 37.4 lbs

Compliance

- Manufactured under a certified ISO 9001 Quality Management System.
- Compliant with AS/NZS 4020:2018 Products for use in contact with drinking water.
- Compliant with lead free requirements of Section 1417 of the US Safe Water Drinking Act.
- Compliant with WSAA Product Specification # 324 – Casing Spacers.
- Approved by MRWA and SEQ IPAM.





Size table

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
	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

Please refer to the relevant product series installation guide for additional information

* 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.

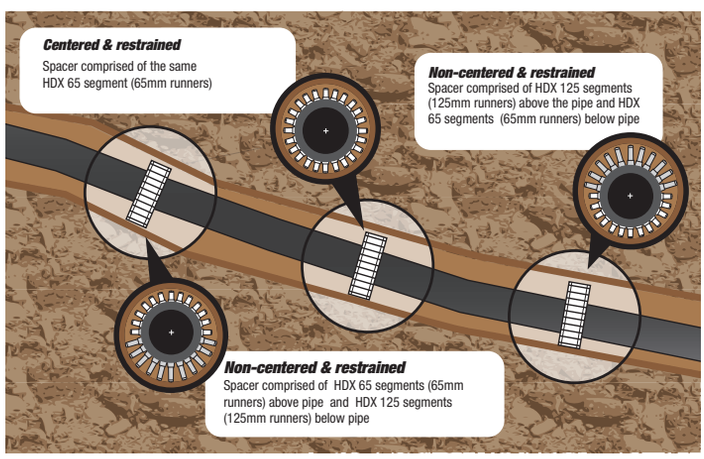
For pipe greater than 800mm OD (e.g. DN 750 and above), for very heavy weight pipe, or if the pipe material is slippery, it is recommended that 12mm stainless steel worm drive banding be applied over the collars. Contact kwik-ZIP for further information.

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.

Load sharing

Using a unique “load sharing runner” system, each HDX segment maximises its weight bearing capacity by distributing the pipe load across multiple runners. This reduces point loading at any one location, boosting and optimising the overall support capacity of the spacer exponentially as pipe size increases. The “load sharing runner” system also delivers a suspension and dampening effect, reducing the transfer of potentially damaging vibration and movement from the outer casing to the carrier pipe. This may be beneficial in tectonically active regions or high traffic areas where ongoing external vibration affects the outer casing.

When used in accordance with the Installation Guide, HDX Spacers will easily handle weights equivalent to a standard Ductile Iron Cement Lined (DICL) pipe full of fluid.



Friction and Wear capabilities

HDX Spacers are fitted with wear pads made from kwik-ZIP’s engineered thermoplastic blend to achieve superior abrasion resistance and a low coefficient of friction, especially under high load conditions.

These properties allow for greater run lengths and lower insertion forces during carrier pipe installation.

For specific advice on load, friction or wear capacities please contact sales@kwikzip.com (Australasia) or usa@kwikzip.com (USA).

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