



CHINA GATE GENERAL TRADING

***Professional pipe
fitting and material supplier***



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ABOUT US

China Gate is a general trading company that targets the Gulf market with the aim of supplying the best quality and cost-efficient sources of safety, building, and hardware materials.

China Gate has obtained authority approvals for various manufacturers in the infrastructure sector, covering a range of products such as DI Pipes & Fittings, Carbon Steel Pipes & Fittings, HDPE Pipes & Fittings, Manhole Covers & Frames, Electromagnetic Flowmeters, and various types of Valves.

We are able to service both local and international customers by efficiently sourcing and providing commodities and materials. Our extensive in-house database allows us to swiftly locate the required items, offer competitive quotations, and ensure prompt delivery.



SKID SPACER

The Skid Spacer is used to support and electrically insulate a cathodically protected pipeline from a casing pipe through which it will pass. Made from High-Density Polyethylene (HDPE) with no metal material, the skid spacer is an ideal solution for pipeline protection and supporting.

H50, H160 and H200 is available to protect different diameter carrier pipes by connection of the required number of elements and tightening them with 3 PA66 nylon bolts fasteners.

OUR GOAL

It is our belief that a high standard of quality in the manufacture and distribution products can be achieved reliably, honorably and profitably. We also believe that in order to truly achieve success, we must continue to deliver the most up-to-date technology at the most competitive prices in order to assist our customer in meeting their product and industry needs.

H SERIES SKID SPACER

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, DCL, MSCL, GRE, PVC and HDPE. Suitable for all diameters from 400mm OD to 1600mm OD and beyond by addition of multiple segments.



H50



H160



H200

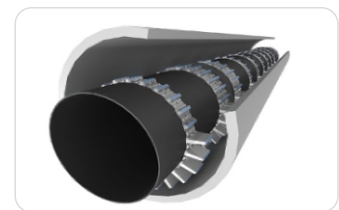
Construction & Features



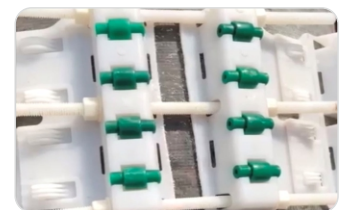
Made from HDPE with high flexural strength, high temperature resistance, low coefficient of friction, abrasion resistance and outstanding chemical resistance.



Insert friction is reduced with rollers, allowing the pipe to be moved freely during installation. Formation of the spacer is accomplished by a snap connection joint for the desired number of elements. After the spacer is wrapped around the pipe, nylon screws fix the spacer firmly to the pipe. Spacers are delivered to customer in the required element sets for the pipe OD.



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.

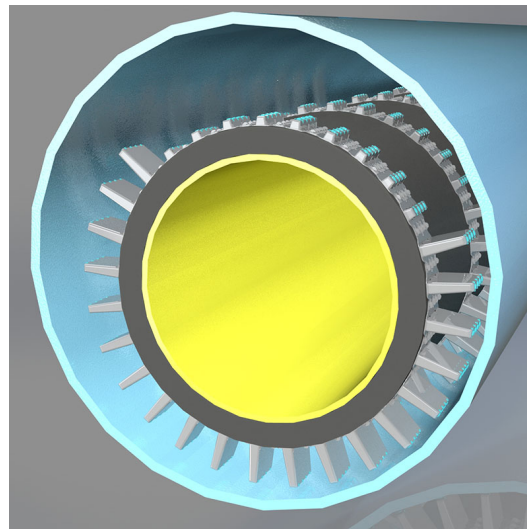


Larger diameters are accommodated by joining additional segments.



Size Table

Carrier Pipe OD (mm)	Number of Elements
400-429	9
500-525	10
526-575	11
576-625	12
626-675	13
676-725	14
726-775	15
776-825	16
826-875	17
876-925	18
926-975	19
976-1025	20
1026-1075	21
1076-1125	22
1126-1175	23
1176-1225	24
1226-1275	25
1276-1325	26
1326-1375	27
1376-1425	28
1426-1475	29
1476-1525	30



Diameter Range: 400mm and above

Spacer height including roller: 50mm, 166mm and 211mm

Spacer width: 240mm

Spacer material HDPE

Operation temperature: -20°C ~ 80°C

Distance between circles: 1.0m ~ 2.0m depends on pipe OD

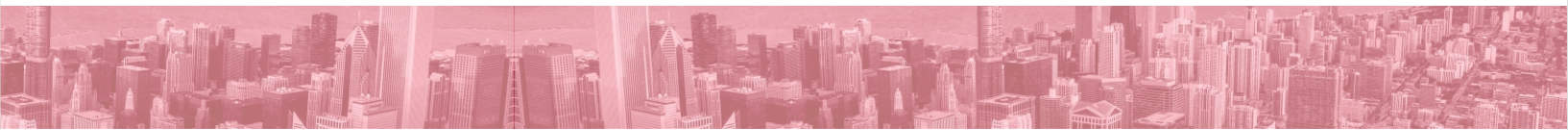
Screw material: Nylon

Screw size: M10 for pipes under 1025mm and M12 for pipe above 1025mm

Maximum static load: 3200kg

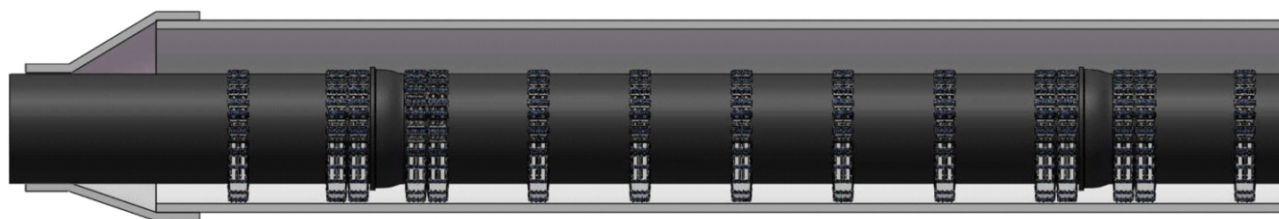
CALCULATION OF SPACER (TABLE I)

Pipe Model	DN400	DN600	DN800	DN900
Inside Diameter	400mm	600mm	800mm	900mm
OD of Socket	516.2mm	738.5mm	974mm	1082mm
OD of Spigot	429mm	635mm	842mm	945mm
OD of Restrain Gland	630mm	853mm	1100mm	1218mm
Height to be covered	100mm	109mm	129mm	136.5mm
Skid Spacer Height	166mm	166mm	166mm	166mm
Pipe Length	6m	6m	6m	6m
Pipe Weight	482kg	882kg	1394kg	1691kg
Water Weight	753kg	1696kg	3014kg	3815kg
Total Weight	1235kg	2578kg	4408kg	5506kg
Count of Rings	3	3	5	5
Spacer Capacity	3200kg	3200kg	3200kg	3200kg
Total Capacity	9600kg	9600kg	16000kg	16000kg
Safety Factor	7.77	3.72	3.62	2.9
Segments	6xH160+3xH50	8xH160+5xH50	10xH160+7xH50	12xH160+7xH50



CALCULATION OF SPACER (TABLE II)

Pipe Model	DN1000	DN1200	DN1400	DN1600
Inside Diameter	1000mm	1200mm	1400mm	1600mm
OD of Socket	1191mm	1412.5mm	1592.1mm	1815.9mm
OD of Spigot	1048mm	1255mm	1462mm	1668mm
OD of Restrained Gland	1391mm	1609mm	1857mm	2032mm
Height to be covered	172mm	177mm	179mm	182mm
Skid Spacer Height	200mm	200mm	200mm	200mm
Pipe Length	6m	6m	6m	6m
Pipe Weight	2017kg	2758kg	3669kg	4666kg
Water Weight	4710kg	6782kg	9231kg	12057kg
Total Weight	6727kg	9540kg	12900kg	16723kg
Count of Rings	7	7	7	9
Spacer Capacity	3200kg	3200kg	3200kg	3200kg
Total Capacity	22400kg	22400kg	22400kg	28800kg
Safety Factor	3.3	2.35	1.73	1.72
Segments	13xH200+8xH50	16xH200+9xH50	19xH200+10xH50	21xH160+12xH50





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LOADING TEST

The pressure test was done in the workshop of LV TOP. The press testing was done as following:

Quantity of Spacer: 8 for each model

Pressure
Stage:

1t for
30 secs

2t for
30 secs

3.2t for
30 secs

0-4.6t for
30 secs

Test Result:

Spacer: the spacers do not have any deformation after 4.6t pressure, and the spacer meet the designed capacity of 3.2t.

