

Accessories – Lifting handles

Description

Lifting handles are very useful to lift and hold the flanges, of which most diaphragm seals are made. On some occasions, the flanges can become very heavy and rather than lifting the diaphragm seal system by the capillaries, it is recommended to lift them by these lifting handles. Especially the 2" or 3" flanges and the higher ratings as from cl. 900 and higher, can be considered heavy with weights over 10kg per flange up to 35kg for a 3" cl. 2500. Selecting these lifting handles will add significantly to the health, safety and wellbeing of the operators in the field, as the handling and installation will be significantly improved.

The lifting handles ensure the capillaries are not used as lifting gear, and the handles allow for easy lifting. Also, for installation purposes, the lifting handles allow for easier positioning of the diaphragm seal flange. The diaphragm remains the delicate part and needs to be handled with care. This is important, because if the diaphragm bumps into a nozzle, it will probably be dented or scratched, which destroys a good measurement.

The heavier diaphragm seal models should always have these lifting handles. It is recommended to check the weight of the diaphragm seals and consider its impact. On some occasions, lifting handles could also be handy for the heavy flush or reducer flange assemblies, when there is nothing to hold them with. The handling of these heavy seals is made easier so the risk of damage during internal transport to installation site is even less. It is our recommendation to always use them for following size and classes:

- 2" cl. 1500 and higher
- 3" cl. 900 and higher
- 4" cl. 600 and higher

Often it is we recommend the lifting handles in combination with a heavy duty support tube, IP54 or IP68, to extra protect the capillaries welded to the seal part and make it extra robust.



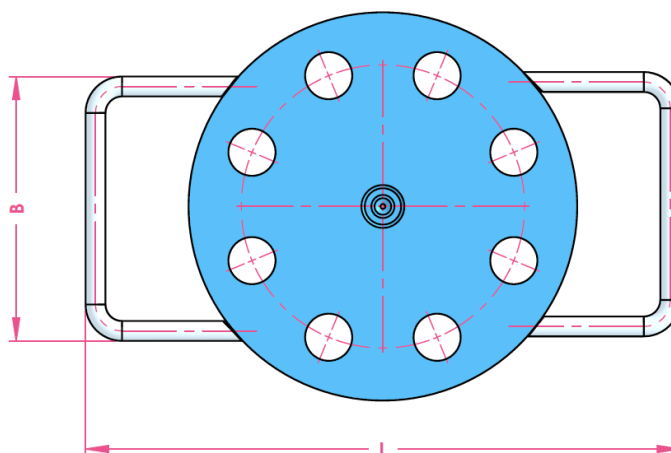
Material of construction

The handles are always made from AISI316(L) material. Also, with exotic flanges the lifting handles are AISI316(L). The handles are made from solid bar material and welded to the flange. The handles are strong enough to lift them on one handle to the wanted position. As the handles are not a wetted or pressurized part, no welding qualification, NDE or material certification is applicable.

Solution background

The handles are introduced many years ago to support maintenance and installation personnel in mounting heavy flanges. After close cooperation with our end-users the dimensions geometry is determined. The opening and the width of the handle is perfect to grab the flange with industrial type of gloves without getting stuck. The solid bar material and the welds to the flange are all designed to last. Even when the flange is lifted by a crane or other lifting support it will hold.

There are two sizes available, one for the cl. 1500 and cl. 2500, and one for the cl. 600. It is advised to use these handles in combination with the 2", 3" and 4" flange sizes.



Size	Class	Size B	Size L	Total weight flange
2"	cl. 900-1500	160.0	335	10 kg
	cl. 2500		365	15 kg
3"	cl. 900	160.0	370	13 kg
	cl. 1500		400	19 kg
	cl. 2500		450	35 kg
4"	cl. 600	124.0	440	17 kg
	cl. 900	160.0	435	27 kg
	cl. 1500		460	40 kg
	cl. 2500		510	54 kg

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Change log

Date	Change

Holland – Romania – India – Thailand – Dubai – USA

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