

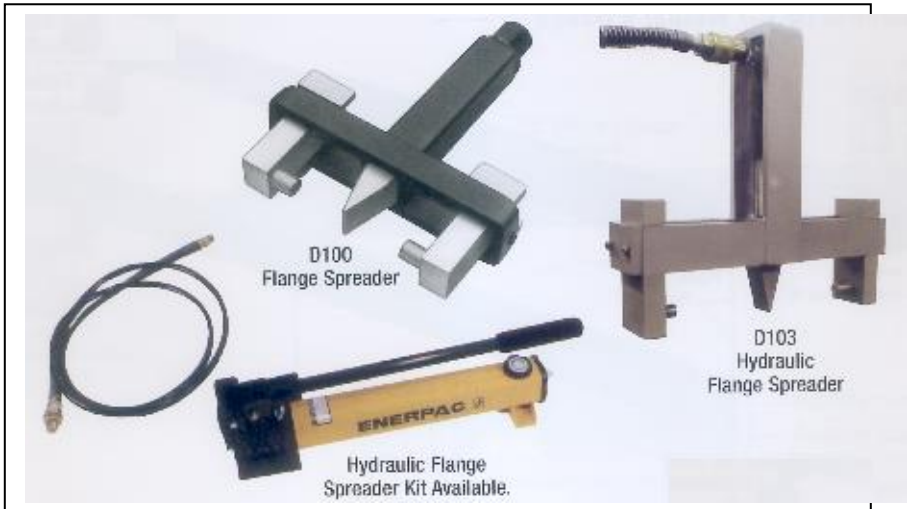


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Flange Spreader Parts and Operating Manual



General Information

The Flange Spreader is used to efficiently separate 150 – 300 pound flanges for the replacement of the flange gasket or the application of new sealant on the flange face. The Spreader, which attaches to the flange mounting hole, spreads the flange faces without the risk of damage to the flange sealing surfaces. The wedge action of the Flange Spreader spreads the gap between flanges up to 1 1/4" (31.8mm) with 100 ft-pounds of torque applied to the Manual Flange Spreader and yields up to 12,000 lbs. of spreading force.

Hydraulic Kits (D104-KIT) are required for the operation of the D101, D102 and D103 Hydraulic Flange Spreaders.

D100

The Manual Flange spreader is designed for use on 2" to 12" (51 – 305mm) 300-pound flanges. The hex nut at the top of the flange spreader requires a 1 1/4" wrench or socket. The dimensions of the Flange Spreader are:

- A. Overall height – 10 1/2 inches (267)
- B. Width – 8 7/8 inches (225)
- C. Maximum width between pins – 3 9/16 inches (90mm)
- D. Height between the top of the pin and the bottom of the cross bar – 1 3/32 inches (28mm)

D101

The D101 Hydraulic Flange Spreader is designed for use on 12" to 24" (305 – 610mm) 150 & 300-pound flanges. The dimensions of the Flange Spreader are:

- A. Overall height – 14 1/2" (369mm)
- B. Width – 2 1/2" (64mm)
- C. Maximum width between pins – 9 1/2" (241mm)
- D. Height between the top of the pin and the bottom of the cross bar – 1 1/2" (38mm)

D102

The D102 Hydraulic Flange Spreader is designed for use on 26" to 36" (660 – 914mm) 150 & 300-pound flanges. The dimensions of the Flange Spreader are:

- A. Overall height – 14 1/2" (369mm)
- B. Width – 2 5/8" (66.7mm)
- C. Maximum width between pins – 13" (330mm)
- D. Height between the top of the pin and the bottom of the cross bar – 1 1/2" (38mm)

D103

The D103 Hydraulic Flange Spreader is designed for use on 2" to 12" (51 – 305mm) 150 & 300-pound flanges. The dimensions of the Flange Spreader are:

- A. Overall height – 13" (330mm)
- E. Width – 2 ½" (64mm)
- F. Maximum width between pins – 8 ½" (215mm)
- G. Height between the top of the pin and the bottom of the cross bar – 1 3/8" (35mm)

D104-KIT

A Hydraulic Hand Pump with reservoir hoses and quick disconnect, such as the Enerpac model 82C-OHP (maximum output of 10, 000 psi (689 bar) or equal, can be used to actuate the Hydraulic Flange Spreader.

Operation

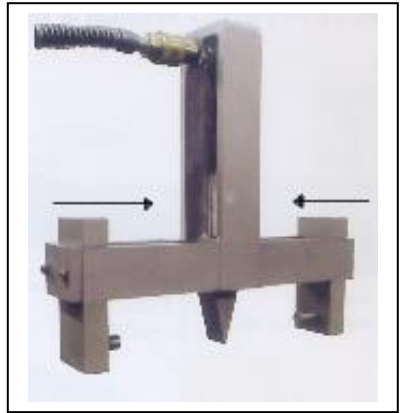
Two (2) Flange Spreaders and Hand Pumps with Reservoirs are required for spreading the flange to avoid damage to the flange sealing face.

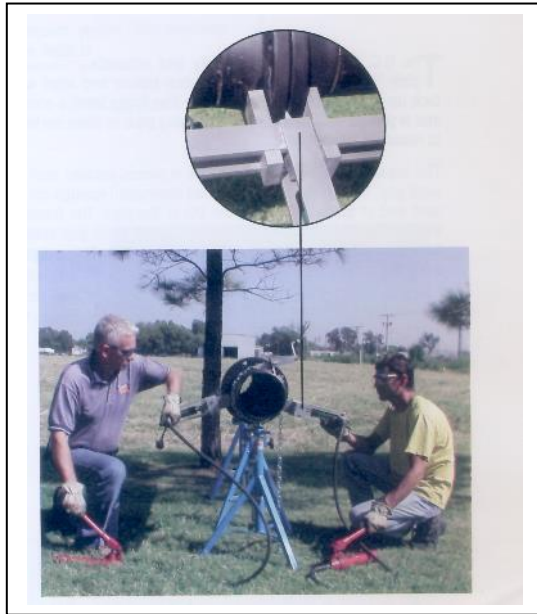
A - 1st Flange Spreader

1. Center the wedge of Flange Spreader over the space between the two flanges.
2. Center the stud of the Holder Ears in the flange hole and push the Holder Ears in the direction of the arrows shown in the picture.
3. Apply hydraulic pressure or tighten the nut at the top of Flange Spreader so that it is held in position on the flange.

B - 2nd Flange Spreader

1. Center the wedge of the second Flange Spreader over the space between the two Flanges on the opposite side of the first Flange Spreader.
2. Center the stud of the Holder Ears in the flange hole and push the Holder Ears in the direction of the arrows shown in the picture.
3. Apply hydraulic pressure or tighten the nut at the top of Flange Spreader so that it held in position on the flange.





C – Spreading the Flange Faces

Once the above operation has been completed, apply pressure to each Flange Spreader equally to avoid damage to the flange sealing face.

Maintenance

The Flange spreader should be cleaned and inspected after each use in case of any damage, such as cracks, to the flange spreader. An Enerpac Model RC-53 hydraulic cylinder or equal can be used, if the hydraulic cylinder of the Hydraulic Flange Spreader requires replacement.

Warranty

If any merchandise sold hereunder (except merchandise manufactured by other persons or firms) by Mathey Dearman, Inc. (the "Company") is not in accordance with specifications shown on the order within customarily accepted tolerances, or is defective on account of workmanship or material, and if such merchandise is returned at the customer's expense and risk, to the Company's manufacturing facility (or at the Company's option, is returned to a repair facility authorized by the Company), within ninety (90) days after the Company's date of shipment thereof, the Company will, at its option, replace or repair the merchandise. This agreement, however, is upon the conditions: (A) that the customer promptly notifies the Company in writing of any claim under this agreement, setting forth in detail any such claimed defect. (B) That the Company be afforded a reasonable opportunity to examine the merchandise and to investigate the claimed defect at the Company's manufacturing facility or at an authorized repair facility, the Company shall not be, in any event, liable for damages beyond the price paid by the customer for such defective merchandise; specifically but without limitation, the Company may fulfill its obligations under this Agreement by tendering such purchase price at any time. **THE COMPANY SHALL NOT BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL, PUNITIVE, OR EXEMPLARY DAMAGES.** This agreement does not obligate the Company to bear any transportation charges in connection with the replacement or the repair of defective merchandise. As to any item manufactured by other persons or firms, the Company agrees to present a request for adjustment for repair to such manufacturer, and the customer agrees that the liability of the Company shall not exceed any adjustment with respect to which such manufacturer accepts responsibility. **THE ABOVE AGREEMENT IS IN LIEU OF ALL WARRANTIES, EXPRESSED OR IMPLIED AND IT IS AGREED THAT THERE IS NO EXPRESSED OR IMPLIED WARRANTY BY THE COMPANY AS TO THE FITNESS, MERCHANTABILITY CAPACITY, OR EFFICIENCY OF ANY MERCHANDISE SOLD, AND THAT THERE ARE NO ORAL OR WRITTEN EXPRESSED OR IMPLIED WARRANTIES MADE IN CONNECTION WITH ANY SALE BY THE COMPANY.** No modification or addition to this agreement, either before or after the contract of sale, shall be made except on written authority of the President or Vice President of the Company.