

Liquip API 403 Bottom Loading Adaptor

Through-Flow Cross-Sectional Area

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Tech Talk No: **T003**
Product: **Bottom Loading Adaptor**
Part Number: **API 403**

API 403 has been designed in accordance with API 1004.

Flow area is a full 4 inch equivalent diameter throughout. For example, the rear flange hole diameter is 110 mm (4.33 inches) to allow for the effect of the boss for the operating shaft. This is a 17% increase over nominal flow area.

This full area for liquid flow is maintained throughout the valve by increasing the annulus outside diameter to allow for webbing and the poppet head.

Liquip can confidently state the API 403 valve is equal to or better than competitive valves on the market.

Streamlining

Similarly, the API 403 is as good as, or better, than competitors in streamlining the flow through the valve.

Flow is essentially concentric and by *not* making the valve too short, changes of direction imposed on the product are more gradual. It is sudden changes of direction which create pressure drop.