

Performance....  
Under Pressure

D.B.I.'s Variable Orifice  
Pressure Tip - VOPT

**D.B.I.**

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# Variable Orifice Pressure Tip - VOPT

D.B.I.'s Variable Orifice Pressure Tip (VOPT) is designed to provide smokeless flaring of high-pressure vapors typically released from treaters and compressors in emergency situations. Smokeless operation is achieved by mechanically restricting the opening of the flare tip outlet allowing for self-aspiration of the flare gas. No power is required for smokeless operation but a substantial amount of back pressure must be available to "push" the flare gas through the VOPT. The unique design of the VOPT ensures smokeless operation from 0-10 mmcf/d per tip without the use of sacrificial components common in most variable orifice tip designs. With the use of manifolds mounted on a single standalone riser, up to eight (8) VOPT's may be connected to a common flare gas feed providing a capacity of 80 mmcf/d.

The VOPT can also be used in our hybrid tip design which combines the time tested D.B.I. AF Series Air Flares and up to four (4) VOPT's for use on the high-pressure side while achieving smokeless operation of the low-pressure gases through the Air Assisted portion of the Flare System. The pictures below show examples of the VOPT with the AF Series Air Flares, combined. Once the flare has been sized using the customer supplied flare gas data and flow rate, this equipment will comply with EPA requirements as outlined in 40 CFR 60.18.



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