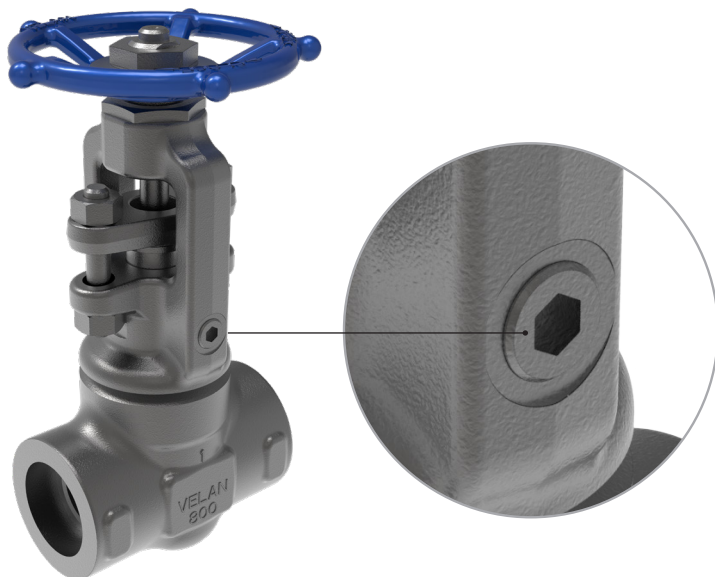




**SAVE MONEY,  
REDUCE RISK,  
AND  
INCREASE  
SAFETY.**



# **A FIELD-REPAIRABLE UPGRADE TO API 602 WELDED BONNET VALVES**

Conventional welded bonnet valves are essentially non-repairable in the field, leading to costly downtime and replacement expenses. With the Field Injection Port (FIP) now integrated into the standard valve, even welded bonnet valves become field-repairable—enabling quick, safe, and cost-effective remediation of leaks.

Velan's latest patent-pending design includes pre-drilled/tapped field injection ports providing pre-positioned access to the valve's packing chamber for the precise application of injectable packing should a leak be detected in an LDAR fugitive emissions compliance program. In addition to saving end-users money and reducing down time per valve replaced, this innovation will also help:

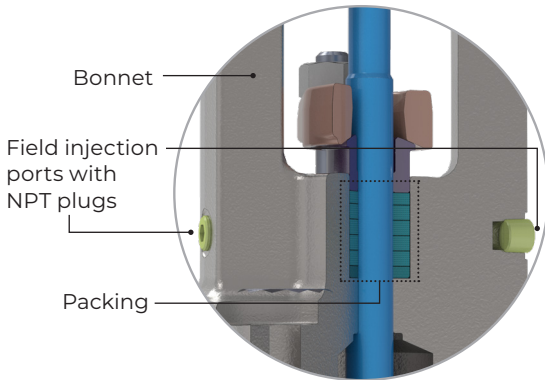
- Minimize impacts of packing degradation over time.
- Enable quick, safe, and cost-effective remediation of leaks.
- Reduce operational disruption and lower total cost of ownership by allowing in-place repairs instead of full valve replacement.

**Velan. Quality that lasts.**

# OUR COMPETITIVE ADVANTAGE

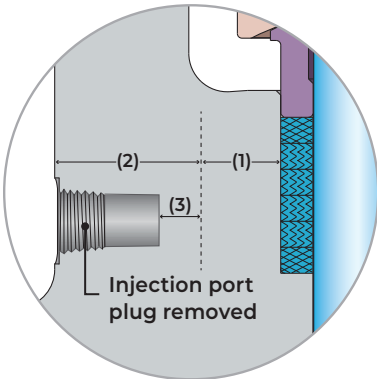
- Extends the life of an already high-performing valve.
- Field injection port includes pre-drilled/tapped field injection ports providing pre-positioned access with proper vertical and perpendicular packing alignment, minimizing the risk of drill-through, and protecting valve internals.
- Manufacturer-controlled wall thickness and pre-drilled/tapped depth, ensuring precision and consistency.
- A quicker repair time lowers the cost for drill and tap, and injection.
- Valve ready for final drilling step and packing injection if needed, making it a reliable and low maintenance option.
- Fully backed by Velan's engineering expertise to support LDAR (leak detection and repair) programs and ESG (environmental social governance) initiatives.
- A sustainable solution that helps reduce fugitive emissions.

## Bonnet with field injection port



The field injection port is standard on bolted bonnet and welded bonnet gate and globe NPS ¼-2 (DN 8-50) Class 150-1500.

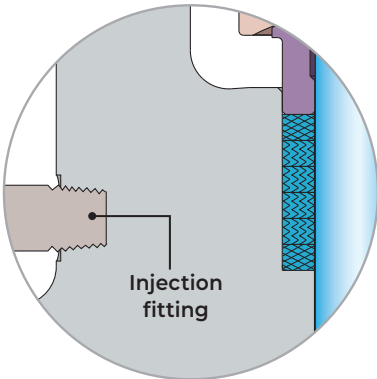
## FIELD INJECTION GENERALIZED DRILLING STEPS<sup>(4)</sup>



### STEP 1:

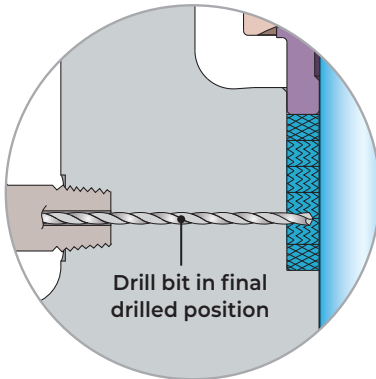
Locate and select one of the two field injection ports from either side of the bonnet, and remove the NPT plug.

- (1) API 602 wall compliance.
- (2) Additional forging wall available for injection port integration.
- (3) Remaining additional forging wall after injection port integration.



### STEP 2:

Install injection fitting into the field injection port.



### STEP 3:

Drill to the specified injection depth.<sup>(4)</sup>

**⚠ Caution:** Valve drilling and field injection is to be performed by a qualified valve injection professional.

<sup>(4)</sup> Consult Velan for detailed technical support.

Contact us to find out how we can solve your process challenges  
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