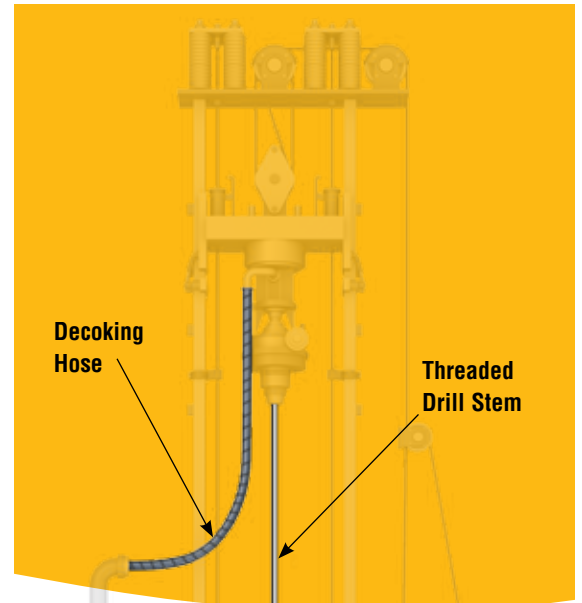


Hydraulic Decoking Systems

Decoking Hoses and Threaded Drill Stems

Under its Worthington®, Pacific® and IDP® heritage names, Flowserve hydraulic decoking systems are installed in more than 150 refineries worldwide.



Decoking Hoses and Drill Stems

The hose and drill stem of the Flowserve hydraulic decoking system carry high-pressure cutting fluid from the deck up to the rotary joint and back down to the AutoShift™ cutting tool. The high-pressure hoses are oil and chemical resistant with a tough outer cover over multiple layers of wire reinforcement for strength and durability. The threaded drill stems are extremely durable with side load strength four times greater than comparable welded drill stem designs.

Hose

- Optional stainless steel armored hoses are available.
- Flowserve decoking hoses are manufactured to specification with 4-inch, 5-inch or 6-inch, 1500 pound or 2500 pound ANSI RTJ flanges. The hoses are built to API 7K specifications.
- Flanges are butt-welded to built-in steel couplings that are permanently bonded to the hose.
- A swivel flange enables easier installation of the hose by allowing it to rotate without disengaging the flange bolting.
- Factory-certified visual and hydrostatic test reports with supporting graphs are furnished with each hose.
- Pressure ratings of 275, 345 and 520 bar (4000, 5000 and 7500 psig) are available.

Drill Stem

- Fabricated from ASTM A-519 Gr. 4140 steel tubing in 6-meter (20-foot) sections; 7-in OD x 3/4-in wall thickness standard.
- Hot process expansion maintains wall thickness of tube through the swaged female threaded end and reduces stress in the area of thread engagement.
- Heat treated for maximum strength to Rc 29-37.
- Multiple end attachment options for both the rotary joint and cutting tool ends. Choices include:
 - Compact flange
 - 3000 and 5000 lb Unibolt couplings with integral threads
 - ASME B16.5 1500 and 2500 lb RTJ



Decoking Hose



Drill Stem Assembly

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