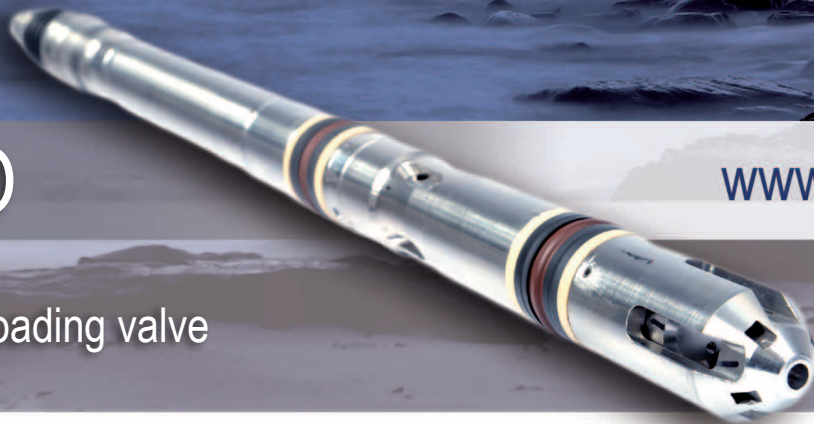


PETROLEUM TECHNOLOGY COMPANY

The Artificial Lift Company



SAFELIFT-IPO

www.ptc.as

1.0", 1.5" - Unloading valve

SAFELIFT-IPO

The PTC SafeLift- IPO is a nitrogen charged Injection Pressure Operated gas lift valve with a true metal-to-metal seal - qualified as a well barrier.

Built on a combination of streamlined design, few moving parts and an optimized material composition – the SafeLift is a very robust valve ideal for long life service in a harsh environment (H₂S, CO₂).

The nitrogen charged bellows is based on revolutionary new design and technology which facilitates unrivaled performance, high pressure resistance whilst pertaining high sensitivity to pressure changes.

Consequently, the valve has a very long lifetime expectancy. In the event of a bellow malfunction the valve goes fail-safe closed.

The SafeLift™ valve is designed to be retrofit to all side-pocket mandrels in the market according to ISO 17078-1. It is designed, built and tested in accordance to ISO 17078 part 1 & 2 (E4, Q1, V1, F1) and ISO 14310-V1/V0.

PTC

www.ptc.as

For further information contact PTC at: post@ptc.as
+47 51 95 08 00 or +1 281 378 4776 or +44 (0)1224 57 93 50

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DESIGN SPECIFICATIONS	
Description	SafeLift- IPO 1.0"
Service	CO ₂ , H ₂ S Unique Service (pp H ₂ S ₀ = 20 bar)
Valve Body Material	Inconel 718 <small>OTHER MATERIAL AVAILABLE ON REQUEST</small>
Dome Material	Inconel 718
Spring Material	MP35N
Elastomer Material	ENDURA/H-NBR/Reinforced PTFE
Seat Protection	TFF Hard Surface Coating
Maximum OD	1.01"
Length	12.6"
Orifice Size	1/8" to 5/16"
Pressure Rating	5 000 PSI (Standard) 7 500 PSI (P1) 10 000 PSI (P2)
Bellows Material	Inconel 718
Dome Pressure Rating	Max 7 500 PSI
Temperature Rating	55 °C to 121 °C (Standard) 4 °C to 121 °C (T0) 55 °C to 149 °C (T1) 55 °C to 185 °C (T2) 55 °C to 200 °C (T3)
Leak Criteria for FAT Test	V1 <small>(V0 available upon request)</small>
Thread Connectin	11-1/16" - 16 UNS- 2
Certification/Qualification	ISO 17078-1 & 2 ISO 14310-V1/V0 ISO 15156

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DESIGN SPECIFICATIONS	
Description	SafeLift- IPO 1.5"
Service	CO ₂ , H ₂ S Unique Service (pp H ₂ SO = 20 bar)
Valve Body Material	Inconel 718 <small>OTHER MATERIAL AVAILABLE ON REQUEST</small>
Dome Material	Inconel 718
Spring Material	MP35N
Elastomer Material	ENDURA/Reinforced PTFE
Seat Protection	TFF Hard Surface Coating
Maximum OD	1.5"
Length	21.65"
Orifice Size	1/8" to 1/2"
Pressure Rating	5 000 PSI (Standard) 7 500 PSI (P1) 10 000 PSI (P2)
Bellows Material	Inconel 718
Dome Pressure Rating	Max 10 000 PSI
Temperature Rating	55 °C to 121 °C (Standard) 4 °C to 121 °C (T0) 55 °C to 149 °C (T1) 55 °C to 185 °C (T2) 55 °C to 200 °C (T3)
Leak Criteria for FAT Test	V1 <small>(V0 available upon request)</small>
Thread Connectin	1-1/16" - 18 UNEF- 2
Certification/Qualification	ISO 17078-1 & 2 ISO 14310-V1/V0 ISO 15156

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