

PETROLEUM TECHNOLOGY COMPANY

The Artificial Lift Company

DH-ASV

www.ptc.as



DH-ASV

The retrievable packer is run as an integral part of the completion string and is hydraulically set and released by cutting the primary mandrel. To set the packer, hydraulic pressure is applied to the tubing via a port into the piston chamber. The hydraulic pressure compresses the seal elements and slips against the casing wall, creating a seal and locking the tubing and packer to the casing. The locking prevents the setting force from releasing after the setting pressure is bled off.

During setting there is no movement of the packer relative to the casing string. To release the packer a dedicated cutting tool deployed on tubing or wireline cuts the packer mandrel directly below the retainer ring. The lower tubing pulls the bottom sub downwards until it contacts the retainer ring releasing the compression on the seal element and slips. Picking up string weight the slips fully retract and the packer is pulled from the well.

The packer mandrel is machined from a single steel bar. There is no potential leak path from the tubing bore to the annulus via the mandrel below the seal element. The packer mandrel can be drilled to accept bypass for up to eight 0.25" control lines.

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PETROLEUM TECHNOLOGY COMPANY

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10 3/4"

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DESIGN SPECIFICATIONS	
Description	730ASV1075020
Service	STANDARD, CO ₂ , H ₂ S
Material	13% CR STAINLESS STEEL 80 000 PSI
Casing size/weight/ID	10 3/4" 55#
Maximum OD	9.56"
Minimum ID	4.669"
Length	78.7"
Pressure Rating	5 000 PSI
Minimum Setting Pressure	5 000 PSI
Temperature Rating	4 °C to 110 °C
Polymers/Elastomers	Viton O-Rings and H-NBR Seal Element
Primary Thread Connections	5 1/2" 23# Tenaris Box X Pin
Secondary Thread Connections	12" - 8 TPI Stub Acme
Secondary Bore ID	1.38"
Control Line Bypass Thread	3 EA of 1/4" NPT Box
Release Mechanism	Sondex Cutter
Reference Testing Standards	ISO 14310 'V' 0 Norsok D-010

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DESIGN SPECIFICATIONS	
Description	730ASV1075022
Service	STANDARD, CO ₂ , H ₂ S
Material	13% CR STAINLESS STEEL 80 000 PSI
Casing size/weight/ID	10 3/4" 60.7#
Maximum OD	9.46"
Minimum ID	4.669"
Length	78.7"
Pressure Rating	5 000 PSI
Minimum Setting Pressure	5 000 PSI
Temperature Rating	4 °C to 110 °C
Polymers/Elastomers	Viton O-Rings and H-NBR Seal Element
Primary Thread Connections	5 1/2" 23# Tenaris Box X Pin
Secondary Thread Connections	12" - 8 TPI Stub Acme
Secondary Bore ID	1.38"
Control Line Bypass Thread	3 EA of 1/4" NPT Box
Release Mechanism	Sondex Cutter
Reference Testing Standards	ISO 14310 'V' 0 Norsok D-010

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DH-ASV

13 5/8"

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DESIGN SPECIFICATIONS

Description	730ASV1363050
Service	STANDARD, CO ₂ , H ₂ S
Material	13% CR STAINLESS STEEL 80 000 PSI
Casing size/weight/ID	13 5/8" 88.2#
Maximum OD	12.205"
Minimum ID	4.892"
Length	75.6"
Pressure Rating	5 000 PSI
Minimum Setting Pressure	5 000 PSI
Temperature Rating	4 °C to 110 °C
Polymers/Elastomers	Viton O-Rings and H-NBR Seal Element
Primary Thread Connections	5 1/2" 17# Tenaris Box X Pin
Secondary Thread Connections	2 3/8" VAM ACE
Secondary Bore ID	1.38"
Control Line Bypass Thread	4 EA of 1/4" NPT Box
Release Mechanism	Sondex Cutter
Reference Testing Standards	ISO 14310 'V' 0 Norsok D-010

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DESIGN SPECIFICATIONS

Description	730ASV1363051
Service	STANDARD, CO ₂ , H ₂ S
Material	13% CR STAINLESS STEEL 80 000 PSI
Casing size/weight/ID	13 5/8" 88.2#
Maximum OD	12.205"
Minimum ID	4.736"
Length	75.6"
Pressure Rating	5 000 PSI
Minimum Setting Pressure	5 000 PSI
Temperature Rating	4 °C to 110 °C
Polymers/Elastomers	Viton O-Rings and H-NBR Seal Element
Primary Thread Connections	5 1/2" 17# Tenaris Box X Pin
Secondary Thread Connections	2 3/8" 6.3# VAM ACE
Secondary Bore ID	1.38"
Control Line Bypass Thread	4 EA of 1/4" NPT Box
Release Mechanism	Sondex Cutter
Reference Testing Standards	ISO 14310 'V' 0 Norsok D-010

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