# FAQ

LIBERTY LIFT

06.2026

## THE MAX

**Q: IS TOOL RE-DRESSABLE?**

**A:** No. To maintain tool integrity throughout our operating regions, we offer a tool exchange program for all WellWorx Distributor locations. This is a 1 for 1 system where a tool is returned to WellWorx Manufacturing in Midland and a new tool is provided in its place at a discounted rate.

**Q: CAN THE TOOL BE RE-RAN?**

**A:** Yes. Upon visual inspection, if tool is deemed clean, clear and worthy of another run, the tool can be re-ran in the same well at the operators discretion.

**Q: HOW TO TREAT BELOW PACKER?**

**A:** Batch treat weighted chemical down casing.

- Some fluid enters the shroud and dip tube, tries to go up to pump with no success.
- Fluid eventually enters slots, flows through mandrel, through packer exit out Helix Sand Bypass and into casing below packer.

Could also unseat pump and do it that way, this would take more time and is not recommended.

**Q: WHAT ARE THE TOOL/PACKER CHEMICAL LIMITATIONS?**

**A:** Refer to Compatibility Table (below).

**Q: TENSILE STRENGTH OF TOOL?**

**A:** 1.9" Model: 64,056
2 3/8" Model: 88,548

**Q: TORQUE NOTABLES**

**A:** The Max arrives to location pre-torqued to 1350 PSI.

- Packer and Helix are pre-torqued as well

All tubing connections involving the Max BHA can be torqued to 1300-1500 psi depending on tubing size and type:

- Rig Tongs should never be put to the Shroud
- Put Tongs directly below the Shroud

## E1-017: MATERIAL COMPATIBILITY TABLE

| DESIGNATION (Trade Name) Maximum Temperature | NBR (Nitrile) 250°F | HSN (HNBR) 300°F | VITON (Fluorel) 350°F | AFLAS 400°F | EPDM 625°F | STANDARD STEELS N/A | L-80 N/A | P-110 N/A | DUPLEX STEEL (XX-Chrome) N/A |
|---|---|---|---|---|---|---|---|---|---|
| $H^2S$ | R < 5,000 ppm | R < 10,000 ppm | U | U | U | R < 20,000 ppm | R < 20,000 ppm | N | U |
| $CO^2$ | R < 1% | U | U | U | U | S, R < 2% | S, R < 2% | S, R < 2% | U |
| Amine Inhibitors | U | U | S | U | S | U | U | U | U |
| Zn & Ca Bromides | N | N | U | U | U | U | U | U | U |
| Xylene | N | U | N | U | U | U | U | U | U |
| HCL & HF Acid | S | S | U | U | S | S | S | S | S |
| Toluene | N | N | U | U | N | U | U | U | U |
| Sulfuric Acid | S | S | U | U | S | S | S | S | U |
| Steam | R < 250°F | R < 300°F | R < 350°F | R < 400°F | U 625°F | U | U | U | U |
| Crude Oil/Methane | U | U | U | U | N | U | U | U | U |
| KCL & Salt Water | U | U | U | U | U | U | U | U | U |

U - Unrestricted Usage: Elastomer is chemically inert to this environment.
S - Short Term Usage: Continuous exposure should be limited to 3 days or less.
R - Restricted Usage: Can be exposed with limits defined in table or NACE MR0175/ISO15156.
N - No Usage: No exposure to this environment is recommended.

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**Q: WHERE TO PUT TAC?**
**A:** When running a Super Max BHA Assembly it is recommended to land the TAC 100' above the SN or higher if possible.

- This eliminates any tension being pulled into the BHA itself.
- If a TAC MUST be ran below the BHA assembly, a 2 3/8" model Max is recommended

**Q: WHAT ARE THE O-RINGS MADE OF?**
**A:** Viton.

- If fluid properties exceed 250° Fahrenheit, please speak with a WellWorx representative to get specific rings to better fit the application.

**Q: GOR LIMITATION?**
**A:** No limitation within the total fluid production limitations mentioned previously.

**Q: GLR LIMITATION?**
**A:** No limitation within the total fluid production limitations mentioned previously.

**Q: WHAT ARE THE TWO CUPS MADE OF?**
**A:** HNBR Rubber.

**Q: WHAT SIZE PACKER FOR WHAT SIZE CASING?**
4.5" Casing:

- 9.5-13.5"

5.5" Casing:

- 14-20lb.
- 21-26lb.

7" Casing:

- 17-20lb.
- 23-38lb.

**Q: WHAT IS THE MAX RUNNING SPEED WHEN RUNNING EQUIPMENT DOWNHOLE?**
**A:** Rig operator should not exceed 60'/Min. This causes excessive wear and tear on packer cups.

## THE HELIX

**Q: IS TOOL RE-DRESSABLE?**
**A:** No. To maintain tool integrity throughout our operating regions, we offer a tool exchange program for all WellWorx Distributor locations. This is a 1 for 1 system where a tool is returned to WellWorx Manufacturing in Midland and a new tool is provided in its place at a discounted rate.

**Q: CAN THE TOOL BE RE-RAN?**
**A:** Yes, if the tool has not been in the hole for more than 6 months or ran in harsh environments, and is washed and visually inspected.

**Q: WHAT SIZE SOLIDS CAN BE SEPARATED?**
**A:** 20-100 mesh.

**Q: CAN SCALE/IRON SULFIDES BE SEPARATED?**
**A:** The HELIX can separate all solids as long as the solid is heavier than the fluid it is entrained in.

**Q: WHAT IS THE TENSILE STRENGTH?**
**A:** Refer to Product Specifications Table.

**Q: MAXIMUM PRODUCTION CAPABLE OF BEING RAN THROUGH THE TOOL?**
**A:** Refer to Product Specifications Table.

**Q: MINIMUM PRODUCTION POINT THAT SOLIDS SEPARATION IS STILL VIABLE?**
**A:** 10+bbls/day.

**Q: WHEN SHOULD INTERNAL CERAMIC COATING BE CONSIDERED?**
**A:** ESP, H2S

**Q: WHAT IS THE DIFFERENCE BETWEEN THE ROD PUMP AND ESP MODEL?**
**A:** ESP Model is ceramic coated on ID and OD of tool, top and bottom pins are nickel coated and a stainless steel dip tube is utilized. The ESP model is also ran beneath a dual cup packer unlike the rod pump model.

**Q: WHAT ARE THE PACKER CHEMICAL LIMITATIONS?**
**A:** Refer to Compatibility Table.

# FAQ

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## THE HALO

**Q: IS TOOL RE-DRESSABLE?**
**A:** No. To maintain tool integrity throughout our operating regions, we offer a tool exchange program for all WellWorx Distributor locations. This is a 1 for 1 system where a tool is returned to WellWorx Manufacturing in Midland and a new tool is provided in its place at a discounted rate.

**Q: CAN THE TOOL BE RE-RAN?**
**A:** Yes, if the tool has not been in the hole for more than 6 months or ran in harsh environments, and is washed and visually inspected.

**Q: WHEN TO RUN THE HALO VERSUS WHEN TO RUN THE MAX?**
**A:** Dynamic Production is a key component to keep in mind when designing BHA's. If well is expected to flump or have a large draw down over time, The Max would be the better solution. In steady production environments like C02 or water floods where little drawdown is expected and production volumes are less than 300 barrels per day, The Super Halo would be a great fit.

**Q: WHAT IS THE TENSILE STRENGTH?**
**A:** Refer to Product Specifications Table (below).

**Q: CAN THE TAC BE RAN BELOW THE TOOL?**
**A:** Yes.

**Q: GOR LIMITATION?**
**A:** No limitation within the total fluid production limitations mentioned previously.

**Q: GLR LIMITATION?**
**A:** No limitation within the total fluid production limitations mentioned previously.

**Q: MAXIMUM PRODUCTION LIMITATION BASED ON?**
**A:** .4FPS DFV Total Bbls. through the tool.

**Q: RECOMMENDED CLEAN OUT PROCEDURES?**
**A:** Visual, pressure wash, or exchange.

## LIBERTY LIFT PRODUCT SPECIFICATIONS

| DESCRIPTION | 1.9" MAX Gas Separator w/ 4" shroud | 1.9" MAX 40' Gas Separator w/3-3/4" shroud | 2-3/8" MAX 40' Gas Separator | 3" HALO Separator (4.5" Applications) | 3-3/4" HALO Separator (5.5" Application) | 4.125" DOMINATOR Separator (5.5" Application) | 5" HALO Separator (7" Application) | Rod Pump HELIX Sand ByPass |
|---|---|---|---|---|---|---|---|---|
| PART # | 10-6291500 | 10-6291501 | 10-6292375 | 11-3003000 | 11-3003750 | 11-3004125 | 11-3005000 | 10-3732875 |
| LENGTH | 39'6" | 39'6" | 39'6" | 20' | 20' | 25' | 20' | 9' |
| TOOL ID | 1.5 | 1.5 | 1.99 | 2.25" | 3" | 3.625" | 4.25" | 3" |
| TOOL OD | 1.9 | 1.9 | 2.375 | 3" | 3-3/4" | 4.125" | 5" | 3-3/4" |
| SHROUD OD/ID | 4"/3-3/4" | 3-3/4"/3-1/2" | 4"/3-3/4" | N/A | N/A | N/A | N/A | N/A |
| DIP TUBE OD/ID | 1.05/0.824 | 1.05/0.824 | 1.315"/0.957 | 1.05/0.824 (gas) | 1.05/0.824 (gas) | 1.05/0.824 (gas) | 1.05/0.824 (gas) | 2.375"/1.9375" |
| CONNECTIONS | Top: 2-3/8" Pin Bottom: 2-3/8" Box | Top: 2-3/8" Pin Bottom: 2-3/8" Box | 2-7/8" Pins top/bottom | 2-3/8" Pins top/bottom | 2-7/8" Pins top/bottom | 2-7/8" Pins top/bottom | 2-7/8" Pins top/bottom | 2-7/8" Pins top/bottom |
| SLOT SIZE L/W | 4"/1" | 4"/1" | 4"/1" | 4"/1" | 4"/1" | 4"/1" | 4"/1" | 4"/1" |
| #OF SLOTS | 6 | 6 | 6 | 4 | 4 | 4 | 4 | 3 |
| CALMING AREA OD/ID-LENGTH | 2-3/8"/1-5/8"-5' | 2-3/8"/1-5/8"-5' | 2-5/8"/1-7/8"-5' | N/A | N/A | N/A | N/A | N/A |
| INNER TUBE METALLURGY | 316SS | 316SS | 316SS | 316SS | 316SS | 316SS | 316SS | 316SS |
| OUTER TUBE METALLURGY | L80 | L80 | L80 | 1026 DOM | 1026 DOM | 1026 DOM | 1026 DOM | 1026 DOM |
| TOP SLOT/SHROUD METALLURGY | 1026 DOM | 1026 DOM | 1026 DOM | | | | | |
| PORTED COUPLING | 4130 Alloy Steel | 4130 Alloy Steel | 4130 Alloy Steel | | | | | |
| TENSILE | 80k | 80k | 80k | 80k | 80k | 80k | 80k | 80k |
| MAX PRODUCTION LIMITATION | 646 bbls/day * Based on 5.5" 20 lbs. casing | 646 bbls/day * Based on 5.5" 20 lbs. casing | 578 bbls/day | 133 bbls/day | 265 bbls/day | 405 bbls/day | 803 bbls/day | 6000+bbls/day |
| WEIGHT/LBS | 250 | 250 | 325 | 233 | 330 | 300 | 436 | 150 |