

ISOLATION/UNIVERSAL TOOLS



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ISOLATION TOOLS

Casing Isolation Tool (Universal Tool)

The Casing Isolation Tool completely isolates low pressure surface equipment from treatment pressure.

Features

- Manufactured to API standards
- Can be installed on various types of wellheads. (ie. BOPs, Master valves, Frac stacks)
- Corrosion and erosion protection against high proppant concentration and acid
- Remote valve system with highly visible open/ close indicator
- Patented primary and secondary sealing assembly to create an effective seal below surface equipment
- Three, four and five port connections are available for high rate jobs

Specifications

- Installed and removed under pressure
- 15,000 PSI (103.5 MPa) working pressure
- Casing sizes: 4.50"–9.625"
- Stroke lengths: 84", 96", 120"
- Mandrel ID: 2.250" (57.15mm)
- Pumping rate capacity: 10m³/min



Isolation Tools

Big Bore Casing Isolation Tool (Universal Tool)

The casing isolation tool completely isolates low pressure surface equipment from treatment pressure.

Features

- Manufactured to API standards
- Can be installed on various types of wellheads (ie. BOPs, Master valves, Frac stacks)
- Corrosion and erosion protection against high proppant concentration and acid
- Remote valve system with highly visible open/close indicator
- Patented primary and secondary sealing assembly to create an effective seal below surface equipment
- Three, four and five port connections are available for high rate jobs

Specifications

- Installed and removed under pressure
- 15,000 PSI (103.5 MPa) Working Pressure
- Casing sizes: 4.50"–9.625"
- Stroke lengths: 84", 96", 120"

Casing size	Mandrel ID	Pumping Rate Cap
3-1/16"	2.750" (69.85mm)	15 m ³ /min
4-1/16"	3.750" (95.25mm)	15 m ³ /min



Isolation Tools

Tubing Isolation Tool (Universal Tool)

The Tubing Isolation Tool completely isolates low pressure surface equipment from treatment pressure.

Features

- Manufactured to API standards
- Can be installed on various types of wellheads (ie. BOPs, Master valves, Frac stacks)
- Corrosion and erosion protection against high proppant concentration and acid
- Remote valve system with highly visible open/close indicator
- Patented primary and secondary sealing assembly to create an effective seal below surface equipment
- Three, four and five port connections are available for high rate jobs

Specifications

- Installed and removed under pressure
- 15,000 PSI (103.5 MPa) Working Pressure
- Stroke lengths: 84", 96"

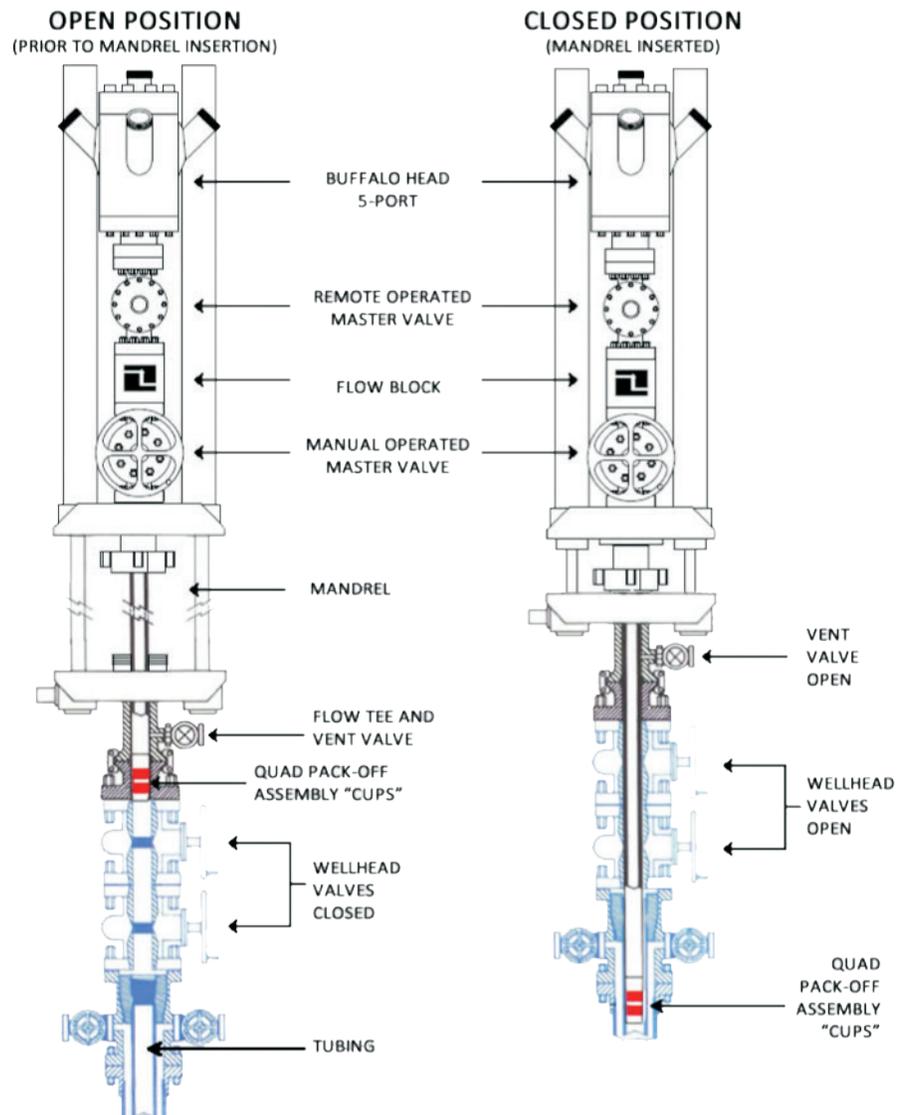
Tubing size	Mandrel ID	Pumping Rate Cap
2.375" (60.3 mm)	1.000" (25.4mm)	2 m ³ /min
2.875" (73.0 mm)	1.438" (36.52mm)	4 m ³ /min
3.500" (88.9 mm)	1.750" (44.45mm)	6 m ³ /min



Isolation Tools

Installation and Removal

- Tool can be safely installed by equalizing pressure and using hydraulic rams to stroke the tool into the well.
- Once the tool is stroked into the well, the flow tee vent can be opened, allowing the pressure to activate the sealing assembly.
- To remove, use the same procedure in reverse order.
- Once the tool is stroked out of the well, the wellhead can be bled off and the tool removed.



Isolation Tools

Mix Master

The Stinger Mix Master is designed to effectively isolate the surface equipment while fracturing down the annulus with the tubing as a dead leg or both annulus and tubing. The Mix Master provides a mandrel and patented sealing assembly mounted on the bottom end for pack-off in the casing of the well to be stimulated. The Mix Master is locked into place with a lockdown nut that prevents upward movement by fluid pressures from within the well bore.

Features

- Eliminates killing the well as the tool can be installed and removed under pressure
- Reduces rig time since there is less tripping of pipe
- Generally eliminates snubbing
- Packer not required
- Allows flow-back for cost effective cleanout
- Permits circulation of sand for cleanout via tubing or annulus
- Allows for the installation of perforating guns prior to tool installation
- Full bore tubing facilitates swabbing and running down hole equipment
- Can only be removed under pressure with a class 3 BOP system
- A working platform is provided with the tool. The platform is complete with handrails and ladder for easy access.
- Additional stairs can be attached and are available upon request

Specifications

Pressure rating: 69 Mpa (10,000psi) working pressure

Sizes

- Casing: 4-1/2" (114mm) to 9-5/8" (244mm)
- Tubing: 2-3/8" (60.3mm) to 2-7/8" (73mm)

Maximum Pumping Rates

- 3 m³/min. for 2-3/8" tubing and 4-1/2" casing
- 6 m³/min. for 2-7/8" tubing and 5-1/2" casing
- 8 m³/min. for 2-3/8" tubing and 5-1/2" casing

Higher rates can be achieved by pumping down both the annulus and tubing

