

A-2 Series Equalizing Standing Valve for D series Landing Nipples

Applications

- Flow control in single or dual completions
- Packer setting tool
- Tubing testing tool

Benefits

- Holds pressure applied above the valve and allows flow from below the valve

Features:

- External fishing neck
- Integral equalizing device
- Available in various materials
- Reliable, field-proven design
- Rugged construction with a large flow area

Description

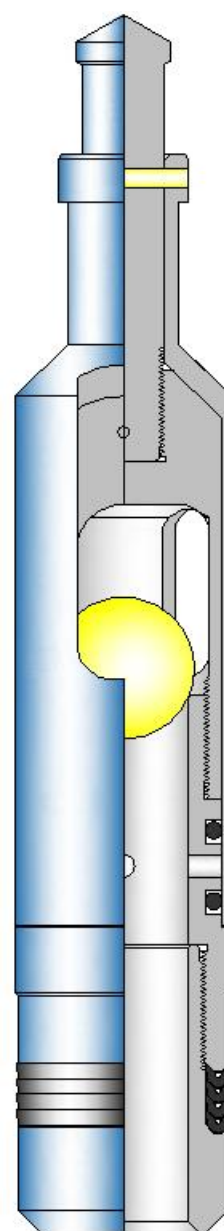
The A-2 series equalizing standing valves are slickline retrievable, ball seat type check valves with integral running and pulling necks designed to hold pressure only from above.

Operation

The A-2 equalizing standing valve is installed in the well using standard slickline methods. The appropriate JD series pulling tool and attached standing valve are lowered into the tubing until the assembly shoulders against the packing bore of the nipple. The valve packing seals in the polished section. Downward jarring

releases the JD pulling tool for retrieval to the surface.

When removing the equalizing standing valve, upward jarring with the appropriate JD series pulling tool equalizes and removes the assembly.



A-2 series equalizing standing valve for D seating nipples					
Size	No-Go OD	Packing OD	Fishing Neck Size	Assembly Code No.	Redress Kit Code No.
1 1/2"	1,484"	1,437"	0,875"	1001.06.000.	1001.06.200.
2"	1,859"	1,812"	1,375"	1001.04.000.	1001.04.200.
2 1/2"	2,296"	2,250"	1,375"	1001.05.000.	1001.05.200.
3"	2,795"	2,750"	2,312"	1001.07.000.	1001.07.200.

A-2 series equalizing standing valve for DS seating nipples					
Size	No-Go OD	Packing OD	Fishing Neck Size	Assembly Code No.	Redress Kit Code No.
2"	1,910"	1,875"	1,375"	1001.08.000.	1001.08.200.
2 1/2"	2,345"	2,312"	1,375"	1001.09.000.	1001.09.200.
3"	2,856"	2,812"	2,312"	1001.10.000.	1001.10.200.

Redress kit contains:

- O-rings
- V-rings
- Ball
- Shear pin

C-Series Top No-Go Lock

Application

- Anchor and seal for subsurface control device in single or dual completions

Benefits

- Positive no-go location
- High-temperature service ratings

Features

- Top no-go style lock
- External running and fishing neck
- Dependable ratchet or collet hold-down
- Field-proven design
- Available in various materials
- Choice of sealing systems

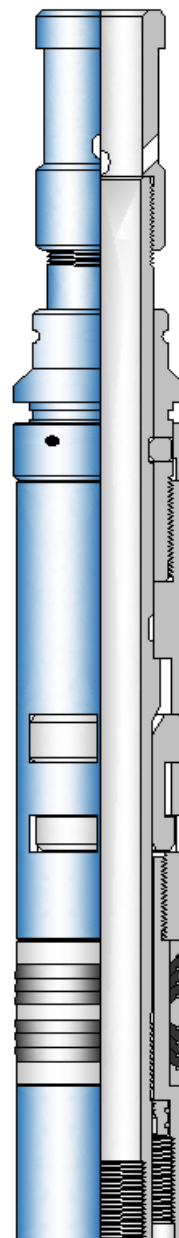
Designed for LOG Oiltools type D or DS nonselective no-go landing nipples, C-series locks are used in applications with differential pressures to 5000 psi (34.475 MPa) above or below the lock assembly.

C-series locks include type C and CS locks. While these locks have the same basic design, the C and CS locks have a ratchet locking assembly. CS locks also have a slightly larger OD than C locks. Each C-series lock features an external running and fishing neck that enables the use of most common types of running and pulling tools. Optional high-temperature packing for temperatures above 300°F (149°C) is available for the C-series locks.

Description and operation

When installing a C-series lock in the appropriate landing nipple, the lock and attached flow control device are attached to the appropriate D-series running tool and lowered into the tubing using standard slickline methods. The lock assembly is run until the no-go ring of the lock lands on the nipple no-go shoulder. Downward jarring moves the no-go ring upward and allows the lock expander tube to move down. The expander tube forces the locking dogs into the locking recess in the nipple to seal and anchor the assembly.

When removing the lock after pressure equalization of the flow control device, upward jarring with the appropriate J-series pulling tool unlocks the assembly and allows the lock to be pulled from the well.



C series top no-go lock for D seating nipples						
Size	No-Go OD	Packing OD	ID	Fishing Neck Size	Assembly Code No.	Redress Kit Code No.
1 1/2"	1,484"	1,437"	0,562"	1,188"	7904.00.000.	7904.00.200.
2"	1,859"	1,812"	0,875"	1,375"	7905.00.000.	7905.00.200.
2 1/2"	2,296"	2,250"	1,125"	1,750"	7901.00.000.	7901.00.200.
3"	2,795"	2,750"	1,546"	2,312"	7906.00.000.	7906.00.200.

C series top no-go lock for DS seating nipples						
Size	No-Go OD	Packing OD	ID	Fishing Neck Size	Assembly Code No.	Redress Kit Code No.
2"	1,910"	1,875"	0,875"	1,375"	7907.00.000.	7907.00.200.
2 1/2"	2,345"	2,312"	1,125"	1,750"	7902.00.000.	7902.00.200.
3"	2,856"	2,812"	1,546"	2,312"	7908.00.000.	7908.00.200.

Redress kit contains:

- Shear pins
- V-rings
- Ratchet

M-Series Selective Lock

Description

The M series lock is attached to subsurface control devices and anchors them in place in the tubing string. M series locks are designed to be landed in W selective landing nipples. The lock is used in applications involving differential pressures up to 5000 psi above or below the lock assembly.

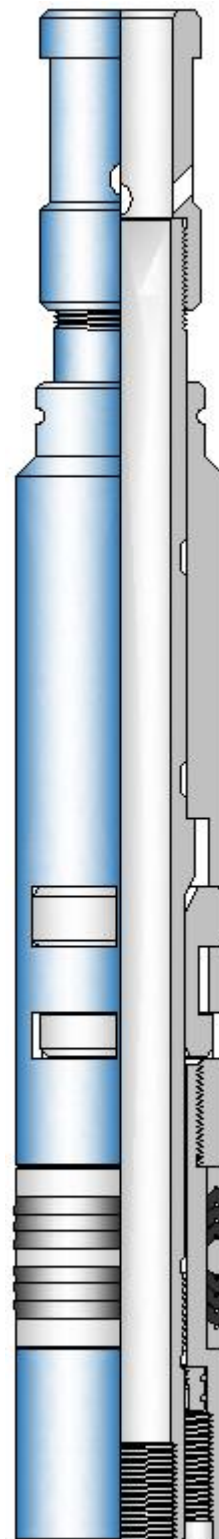
Each M series lock features an external running and fishing neck which enables use of the most common types of running and pulling tools.

The packing assembly on each M series lock seals in the polished bore of the landing nipple. The M series lock is designed so that whenever pressure differential from above or below is experienced, all force will be supported by the locking dogs. Optional high temperature packing stacks for temperatures above 300°F are available for the M locks.

Operation

When installing an M-series lock in the appropriate nipple, the lock and attached flow control device are attached to the appropriate W-series running tool and lowered into the tubing using standard wireline methods. The lock assembly is run below the desired landing nipple. The control device and running tool are then pulled back up through the nipple, tripping the running tool. The running tool and control device are then lowered back into the nipple. Downward jarring moves the expander tube downward, forcing the locking dogs out into the nipple locking recess, anchoring the assembly.

When removing the lock after pressure equalization of the flow control device, upward jarring with the appropriate J-series pulling tool unlocks the assembly and allows the lock to be pulled from the well.



M series selective lock for W seating nipples					
Size	Packing OD	ID	Fishing Neck Size	Assembly Code No.	Redress Kit Code No.
2"	1,875"	0,875"	1,375"	7909.00.000.	7909.00.200.
2 1/2"	2,312"	1,125"	1,750"	7910.00.000.	7910.00.200.
3"	2,812"	1,546"	2,312"	7911.00.000.	7911.00.200.

Redress kit contains:

- V-rings
- Ratchet

A-2 Series Blanking Plug

The A-series blanking plug is designed to seal tubing pressure from either above or below the plug. It is installed in combination with C-series or CS-series lock, then set in the proper landing nipple.

Applications

- Flow control in single or dual completions
- Diagnostic tool for single or dual completions

Benefits

- Compatible with different lock types
- Materials available to match various well environments

Features:

- Integral equalizing device
- Prong and melon design
- Single-trip installation
- Rugged field-proven design
- Choice of sealing systems

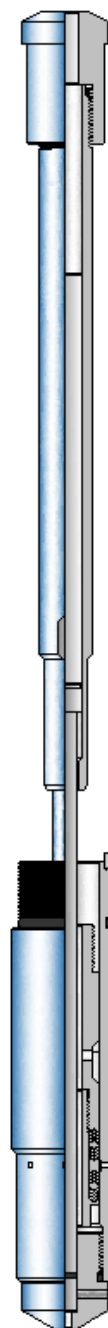
Description

A-series blanking plugs may be used for any application which requires either bleeding off pressure in the tubing or circulating above the plugs. They may also be used as testing tubing or packers.

Operation

During the running operation, the downplug section of the blanking plug is in the up position to permit fluid bypass through and around the blanking plug assembly. When the assembly is locked in the nipple, the downplug is forced downward by the expander tube in the lock and the bypass ports are closed and sealed by the packing on the downplug.

In order to pull the plug, a prong must first be retrieved. After equalization occurs, the remainder of the plug and lock may be pulled using a JDC pulling tool.



A-2 series blanking plug for C or M series locks				
Size	Plug OD	Fishing Neck Size	Assembly Code No.	Redress Kit Code No.
1 1/2"	1,421"	0,875"	7912.00.000.	7912.00.200.
2"	1,786"	1,375"	7913.00.000.	7913.00.200.
2 1/2"	2,187"	1,375"	7903.00.000.	7903.00.200.
3"	2,718"	2,312"	7914.00.000.	7914.00.200.

Redress kit contains:

- O-rings
- V-rings
- Shear pin

C-Series Circulating Plug

The C-series blanking and circulating plug assembly is used to plug formation pressure in the tubing string while providing adequate flow area for pumping into the formation.

Application

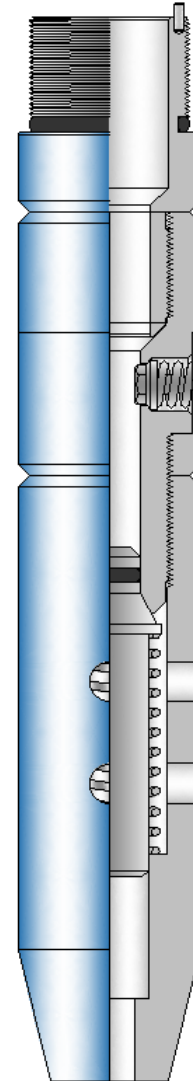
Directional flow-control device in single or dual completions

Benefits

- Plug provides temporary pressure control in flowing wells. One-way plug provides a large flow path to allow pumping into formation while the lock and plug are in place.
- Integral equalizing feature eliminates the need to apply pressure above the plug.

Features

- Dependable spring-loaded equalizing check
- Integral side dart equalizing device
- Rugged, field-proven design
- Available in various materials



The C plug assembly includes an equalizing sub. The C plug features a metal-to-metal double seal, as well as an O-ring for an initial gas seal.

Description and operation

The C plug assembly is used to plug formation pressure in the tubing string of flowing wells. At the same time, the assembly provides adequate flow area through its center for pumping into the formation. When run in combination with a lock, it is seated in an appropriate landing nipple. If the tubing string does not include a landing nipple, the C plug assembly may be run with an A slip lock.

The C circulating plug is made up to the appropriate C or M-series lock. A prong in the running tool is used to hold the plug off seat during installation. This assembly is run into the tubing, landed, and locked in the nipple using standard slickline methods. Upward jarring removes the running tool and prong.

When retrieving the assembly, the pulling tool and equalizing prong are run into the tubing. Upon contact, the pulling tool latches the lock fishing neck, and the prong pushes the equalizing dart off the seat, allowing pressure equalization. Upward jarring releases the lock, and the assembly can be retrieved from the well.

C series circulating plug for C or M series locks			
Size	Plug OD	Assembly Code No.	Redress Kit Code No.
2"	1,750"	7921.01.000.	7921.01.200.
2 1/2"	2,156"	7921.02.000.	7921.02.200.
3"	2,718"	7921.03.000.	7921.03.200.

Redress kit contains:

- O-rings
- Springs

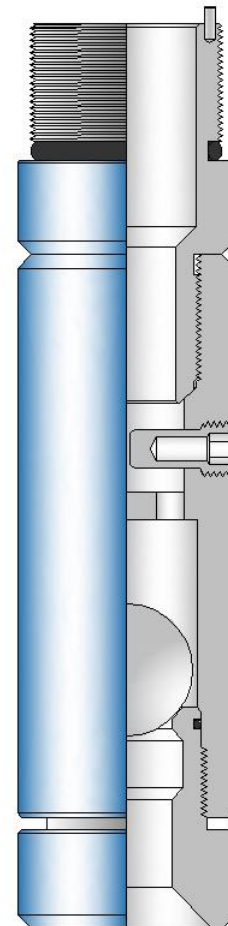
Equalizing check valve bottom with equalizing knock off plug for C or M locks

The LOG equalizing check valves prevent downward flow while allowing upward flow through the device.

These wireline retrievable check valves are run and landed with C or M series locks.

They are utilized to test tubing, set hydraulic packers and prevent fluids from entering the formation during intermitted gas lift installation.

The pressure is equalized prior to retrieval by knocking off an equalizing plug.



Equalizing check valve bottom with equalizing knock off plug for C or M locks			
Size	Plug OD	Assembly Code No.	Redress Kit Code No.
2"	1,786"	7922.01.000.	7922.01.200.
2 1/2"	2,187"	7922.02.000.	7922.02.200.

Redress kit contains:

- O-rings
- Ball
- Knock off plug

1. No-Go Seating Nipple type "D"

2 3/8" Landing Nipple with "D" Top No-Go Profile and 1,437" Seal Bore

Type: 2 3/8"-1,437" D Nipple
Drawing number: 1001.08.000.

Size: OD = 77,8 mm
ID = 1,437"

Seal bore: $D_T = 1,437"$

Top connection thread: 2 3/8"- 4,7 lbs/ft EU Box
Bottom connection thread: 2 3/8"- 4,7 lbs/ft EU Pin
Materials: 42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc

2. No-Go Seating Nipple type "D"

2 3/8" Landing Nipple with "D" Top No-Go Profile and 1,812" Seal Bore

Type: 2 3/8"-1,812" D Nipple
Drawing number: 1001.06.000.

Size: OD = 77,8 mm
ID = 1,812"

Seal bore: $D_T = 1,812"$

Top connection thread: 2 3/8"- 4,7 lbs/ft EU Box
Bottom connection thread: 2 3/8"- 4,7 lbs/ft EU Pin
Materials: 42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc

3. No-Go Seating Nipple type "D"

2 3/8" Landing Nipple with "D" Top No-Go Profile and 1,812" Seal Bore

Type: 2 3/8"-1,812" D Nipple
Drawing number: 1001.06.000/T

Size: OD = 70,5 mm
ID = 1,812"

Seal bore: $D_T = 1,812"$

Top connection thread: 2 3/8"- 4,6 lbs/ft TSH Blue Box
Bottom connection thread: 2 3/8"- 4,6 lbs/ft TSH Blue Pin
Materials: 42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc

4. No-Go Seating Nipple type "DS"

2 3/8" Landing Nipple with "DS" Top No-Go Profile and 1,875" Seal Bore

Type: 2 3/8"-1,875" DS Nipple
Drawing number: 1001.07.000.

Size: OD = 77,8 mm
ID = 1,875"

Seal bore: $D_T = 1,875"$

Top connection thread: 2 3/8"- 4,7 lbs/ft EU Box
Bottom connection thread: 2 3/8"- 4,7 lbs/ft EU Pin
Materials: 42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc

5. No-Go Seating Nipple type "DS"

2 3/8" Landing Nipple with "DS" Top No-Go Profile and 1,875" Seal Bore

Type: 2 3/8"-1,875" DS Nipple
Drawing number: 1001.07.000/T

Size: OD = 70,5 mm
ID = 1,875"

Seal bore: $D_T = 1,875"$

Top connection thread: 2 3/8"- 4,6 lbs/ft TSH Blue Box
Bottom connection thread: 2 3/8"- 4,6 lbs/ft TSH Blue Pin
Materials: 42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc

6. No-Go Seating Nipple type "D"

2 7/8" Landing Nipple with "D" Top No-Go Profile and 2,250" Seal Bore

Type: 2 7/8"-2,250" D Nipple
Drawing number: 1001.01.000.

Size: OD = 93,2 mm
ID = 2,250"

Seal bore: $D_T = 2,250"$

Top connection thread: 2 7/8"- 6,5 lbs/ft EU Box
Bottom connection thread: 2 7/8"- 6,5 lbs/ft EU Pin
Materials: 42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc

7. No-Go Seating Nipple type "D"

2 7/8" Landing Nipple with "D" Top No-Go Profile and 2,250" Seal Bore

Type: 2 7/8"-2,250" D Nipple
Drawing number: 1001.01.000/T

Size: OD = 84 mm
ID = 2,250"

Seal bore: $D_T = 2,250"$

Top connection thread: 2 7/8"- 6,4 lbs/ft TSH Blue Box
Bottom connection thread: 2 7/8"- 6,4 lbs/ft TSH Blue Pin
Materials: 42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc

8. No-Go Seating Nipple type "DS"

2 7/8" Landing Nipple with "DS" Top No-Go Profile and 2,250" Seal Bore

Type: 2 7/8"-2,312" DS Nipple
Drawing number: 1001.03.000.

Size: OD = 93,2 mm
ID = 2,312"

Seal bore: $D_T = 2,312"$

Top connection thread: 2 7/8"- 6,5 lbs/ft EU Box
Bottom connection thread: 2 7/8"- 6,5 lbs/ft EU Pin
Materials: 42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc

9. No-Go Seating Nipple type "DS"

2 7/8" Landing Nipple with "DS" Top No-Go Profile and 2,250" Seal Bore

Type: 2 7/8"-2,312" DS Nipple
Drawing number: 1001.03.000/T

Size: OD = 84 mm
ID = 2,312"

Seal bore: $D_T = 2,312"$

Top connection thread: 2 7/8"- 6,4 lbs/ft TSH Blue Box
Bottom connection thread: 2 7/8"- 6,4 lbs/ft TSH Blue Pin
Materials: 42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc

10. No-Go Seating Nipple type "D"

3 1/2" Landing Nipple with "D" Top No-Go Profile and 2,750" Seal Bore

Type: 3 1/2"-2,750" D Nipple
Drawing number: 1001.10.000.

Size: OD = 114,3 mm
ID = 2,750"

Seal bore: $D_T = 2,750"$

Top connection thread: 3 1/2"- 9,3 lbs/ft EU Box
Bottom connection thread: 3 1/2"- 9,3 lbs/ft EU Pin
Materials: 42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc

11. No-Go Seating Nipple type "D"

3 1/2" Landing Nipple with "D" Top No-Go Profile and 2,750" Seal Bore

Type: 3 1/2"-2,750" D Nipple
Drawing number: 1001.10.000/T

Size: OD = 100 mm
ID = 2,750"

Seal bore: $D_T = 2,750"$

Top connection thread: 3 1/2"- 9,2 lbs/ft TSH Blue Box
Bottom connection thread: 3 1/2"- 9,2 lbs/ft TSH Blue Pin
Materials: 42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc

12. No-Go Seating Nipple type "DS"

3 1/2" Landing Nipple with "DS" Top No-Go Profile and 2,812" Seal Bore

Type: 3 1/2"-2,812" DS Nipple
Drawing number: 1001.11.000.

Size: OD = 114,3 mm
ID = 2,812"

Seal bore: $D_T = 2,812"$

Top connection thread: 3 1/2"- 9,3 lbs/ft EU Box
Bottom connection thread: 3 1/2"- 9,3 lbs/ft EU Pin
Materials: 42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc

13. No-Go Seating Nipple type "DS"

3 1/2" Landing Nipple with "DS" Top No-Go Profile and 2,812" Seal Bore

Type:	3 1/2"-2,812" DS Nipple
Drawing number:	1001.11.000/T
Size:	OD = 100 mm ID = 2,812"
Seal bore:	$D_T = 2,812"$
Top connection thread:	3 1/2"- 9,2 lbs/ft TSH Blue Box
Bottom connection thread:	3 1/2"- 9,2 lbs/ft TSH Blue Pin
Materials:	42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc

D-Series Top No-Go Landing Nipple

Application

- Single and dual completions

Benefit

- Field-proven design

Features

- Dependable no-go style
- Choice of materials for most environments
- Thread connection choices to match tubing

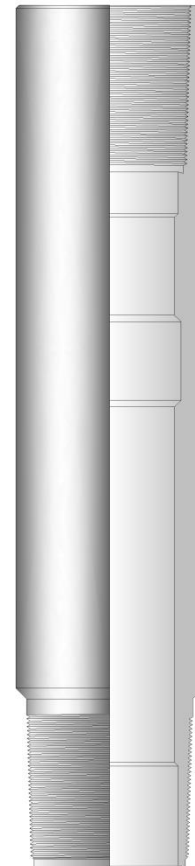
D-series landing nipples include a shoulder that engages the no-go of the appropriate lock and a locking recess. When installed, the locking dogs move outward into the nipple locking recess, and the lock packing seals in the nipple polished bore.

These nipples are suitable for a variety of applications, working pressures, and environments.

The D nipple receives a C lock. The DS nipple, with a larger ID, receives CS lock.

Description and operation

To install a no-go lock in these nipples, the lock and attached flow control device are run into the tubing using standard slickline methods. The assembly is lowered until the no-go of the lock contacts the no-go shoulder in the nipple. Downward jarring forces the locking dogs into the nipple locking recess and anchors the assembly and packs off in the sealbore.



14. Tubing Stop

for 1,9"-1,437" type "D" Top No-Go Seating Nipple

Type: 1,9"-1,437" Tubing Stop

Drawing number: 7900.10.001.

Size: OD = 37,7 mm

Fishing neck size: OD_F = 30,2 mm

Materials: 42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc

15. Tubing Stop

for 2 3/8"-1,812" type "D" Top No-Go Seating Nipple

Type: 2 3/8"-1,812" Tubing Stop

Drawing number: 7900.10.002.

Size: OD = 47,2 mm

Fishing neck size: OD_F = 34,9 mm

Materials: 42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc

16. Tubing Stop

for 2 7/8"-2,250" type "D" Top No-Go Seating Nipple

Type: 2 7/8"-2,250" Tubing Stop

Drawing number: 7900.10.004.

Size: OD = 58,3 mm

Fishing neck size: OD_F = 44,5 mm

Materials: 42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc

17. Tubing Stop

for 3 1/2"-2,750" type "D" Top No-Go Seating Nipple

Type: 3 1/2"-2,750" Tubing Stop

Drawing number: 7900.10.006.

Size: OD = 71 mm

Fishing neck size: OD_F = 58,7 mm

Materials: 42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc

18. Tubing Stop

for 2 3/8"-1,875" type "DS" Top No-Go Seating Nipple

Type: 2 3/8"-1,875" Tubing Stop

Drawing number: 7900.10.003.
Size: OD = 48,5 mm
Fishing neck size: OD_F = 34,9 mm
Materials: 42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc

19. Tubing Stop

for 2 7/8"-2,312" type "DS" Top No-Go Seating Nipple

Type: 2 7/8"-2,312" Tubing Stop
Drawing number: 7900.10.005.

Size: OD = 59,6 mm
Fishing neck size: OD_F = 44,5 mm
Materials: 42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc

20. Tubing Stop

for 3 1/2"-2,812" type "DS" Top No-Go Seating Nipple

Type: 3 1/2"-2,812" Tubing Stop
Drawing number: 7900.10.007.

Size: OD = 72,5 mm
Fishing neck size: OD_F = 58,7 mm
Materials: 42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc

21. Wireline Entry Guide

Type: 2 3/8" Wireline Entry Guide
Drawing number: 7497.11.000.

Size: OD = 77,8 mm
ID = 50,7 mm
Top connection thread: 2 3/8"- 4,7 lbs/ft EU Box
Bottom connection thread: 2 3/8"- 4,7 lbs/ft EU Pin
Materials: 42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc

22. Wireline Entry Guide

Type: 2 3/8" Wireline Entry Guide
Drawing number: 7497.11.000/T

Size: OD = 70,5 mm
ID = 49,5 mm
Top connection thread: 2 3/8"- 4,6 lbs/ft TSH Blue Box
Bottom connection thread: 2 3/8"- 4,6 lbs/ft TSH Blue Pin
Materials: 42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc

23. Wireline Entry Guide

Type: 2 7/8" Wireline Entry Guide
Drawing number: 7497.12.000.

Size: OD = 93,2 mm
ID = 62 mm

Top connection thread: 2 7/8"- 6,5 lbs/ft EU Box
Bottom connection thread: 2 7/8"- 6,5 lbs/ft EU Pin
Materials: 42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc

24. Wireline Entry Guide

Type: 2 7/8" Wireline Entry Guide
Drawing number: 7497.12.000/T

Size: OD = 84 mm
ID = 61,1 mm

Top connection thread: 2 7/8"- 6,4 lbs/ft TSH Blue Box
Bottom connection thread: 2 7/8"- 6,4 lbs/ft TSH Blue Pin
Materials: 42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc

25. Wireline Entry Guide

Type: 3 1/2" Wireline Entry Guide
Drawing number: 7497.13.000.

Size: OD = 114,3 mm
ID = 76 mm

Top connection thread: 3 1/2"- 9,3 lbs/ft EU Box
Bottom connection thread: 3 1/2"- 9,3 lbs/ft EU Pin
Materials: 42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc

26. Wireline Entry Guide

Type: 3 1/2" Wireline Entry Guide
Drawing number: 7497.13.000/T

Size: OD = 100 mm
ID = 75,4 mm

Top connection thread: 3 1/2"- 9,2 lbs/ft TSH Blue Box
Bottom connection thread: 3 1/2"- 9,2 lbs/ft TSH Blue Pin
Materials: 42CrMo4 / AISI 4140 / API L80-1 / 18-22 HRc