



Stop Collars

Weatherford's stop collars are run on casing strings to maintain centralizer placement during running and cementing operations. Designed for cased-hole or openhole applications, Weatherford's stop collars offer a low-risk, cost-effective method of securing centralizers to the pipe, ensuring proper standoff, facilitating mud removal, and helping to run casing/liners to total depth. Failing to secure centralizers properly to the casing string can result in a poor primary cementing job, requiring expensive and time-consuming remedial cementing operations.

Weatherford offers a variety of stop collars that are manufactured with a robust steel design capable of withstanding high axial forces. Available in slip-on or latch-on configurations, the stop collars can be installed above, below, under, or between centralizers, providing operational flexibility for demanding well conditions. Stop collars are characterized by the special holding mechanisms listed below:

- Set screws
- Spiral nail
- Slips



Double-bevel stop collar



Double-row single-bevel stop collar

Applications

- Cased-hole or openhole wellbores requiring pipe centralization
- Horizontal or vertical wells with tight clearances
- Drillpipe and low-end applications with a large annular clearance below ID restriction(s)
- Any well where bow-spring or rigid centralizers are run

Features, Advantages and Benefits

- The robust steel designs can withstand high axial forces, making them suitable for demanding well conditions.
- The stop collar is a cost-effective tool to prevent centralizer movement, providing excellent casing centralization and standoff.



Stop Collars

Features, Advantages and Benefits (continued)

- Placing stop collars under bow-spring centralizers ensures that the centralizers are pulled in and out of the wellbore, minimizing centralizer deformation and nonproductive time.
- Stop collars can be installed with a thread-locking compound, improving holding force.
- Several features of the set-screw holding mechanisms provide operational flexibility for well applications:
 - Single-row and double-row configurations enable the holding force to be increased with additional set screws as required.
 - Slip-on and latch-on configurations enable easy installation, reducing rig time.
 - Beveled option provides a shallow-angle leading edge to reduce the risk of the stop collar or centralizer being caught on wellbore debris or ledges during operations.
- Several features of the spiral-nail holding mechanism greatly enhance installation, reducing rig time:
 - Internal groove into which the spiral nail is driven firmly locks the stop collar against the casing, providing maximum annular clearance.
 - Hinged design enables the stop collar to be latched on casing strings with minimal effort.
- Several features of the slip's holding mechanism provide exceptional holding forces:
 - Multiple, evenly spaced slips provide the highest holding forces without excessive penetration of the outer diameter of the pipe, ensuring proper functionality.
 - Slip-on, low-profile design is capable of withstanding significant string manipulation and applications requiring rotation capabilities.
 - Bidirectional slips enable axial holding force in either direction.



Stop Collars

Specifications

Size (in./mm)	Stop Collar OD							
	Model 602 (in./mm)	Model 603 (in./mm)	Model 60370 (in./mm)	Model 605 (in./mm)	Model 608 (in./mm)	Model JSH (in./mm)	Model J10S (in./mm)	Model J10H (in./mm)
4.500 114.3	5.500 139.7	5.250 133.4	5.125 130.2	6.000 152.4	5.500 139.7	5.687 144.4	5.240 133.1	5.530 140.5
5.000 127.0	6.000 152.4	5.750 146.1	5.625 142.9	6.500 165.1	6.000 152.4	6.192 157.3	5.750 146.1	6.030 153.2
5.500 139.7	6.500 165.1	6.250 158.8	6.125 155.6	7.000 177.8	6.500 165.1	6.697 170.1	6.220 158.0	6.540 166.1
6.625 168.3	7.625 193.7	7.375 187.3	7.250 184.2	8.125 206.4	7.625 193.7	7.833 199.0	7.360 186.9	—
7.000 177.8	8.000 203.2	7.750 196.9	7.625 193.7	8.500 215.9	8.000 203.2	8.212 208.6	7.760 197.1	8.050 204.5
7.625 193.7	8.625 219.1	8.375 212.7	8.250 209.6	9.125 231.8	8.625 219.1	8.843 224.6	8.390 213.1	—
8.625 219.1	9.688 246.1	9.625 244.5	9.625 244.5	10.125 257.2	—	9.853 250.3	9.570 243.1	—
9.625 244.5	10.688 271.5	10.625 269.9	10.625 269.9	11.125 282.6	—	10.863 275.9	10.710 272.0	11.020 279.9
10.750 273.1	11.875 301.6	11.750 298.5	11.750 298.5	12.250 311.2	—	11.999 304.8	—	12.160 308.9
11.750 298.5	12.875 327.0	12.750 323.9	12.750 323.9	13.250 336.6	—	13.009 330.4	—	—
13.375 339.7	14.500 368.3	14.375 365.1	14.375 365.1	14.875 377.8	—	14.650 372.1	14.530 369.1	14.810 376.2
16.000 406.4	17.125 435.0	17.000 431.8	17.000 431.8	17.500 444.5	—	17.460 443.5	—	—
20.000 508.0	21.125 536.6	21.000 533.4	21.000 533.4	21.500 546.1	—	21.500 546.1	—	—



Stop Collars

Options

Stop-Collar Availability	
Holding Mechanism	Installation Method
Set screw	Slip-on or latch-on
Spiral nail	Latch-on
Slips	Slip-on



Friction type (605)



Slip type, slip-on (Automatic)



Set-screw type with single row,
slip-on (603)



Set-screw type with single row,
latch-on (J4H)



Set-screw type with bevel,
slip-on (60370)



Spiral-nail type, latch-on (JSH)



Set-screw type with single row,
latch-on (602)