

FLOATING EQUIPMENT

Professional Floating Equipment Expert
Ensuring Cementing Quality



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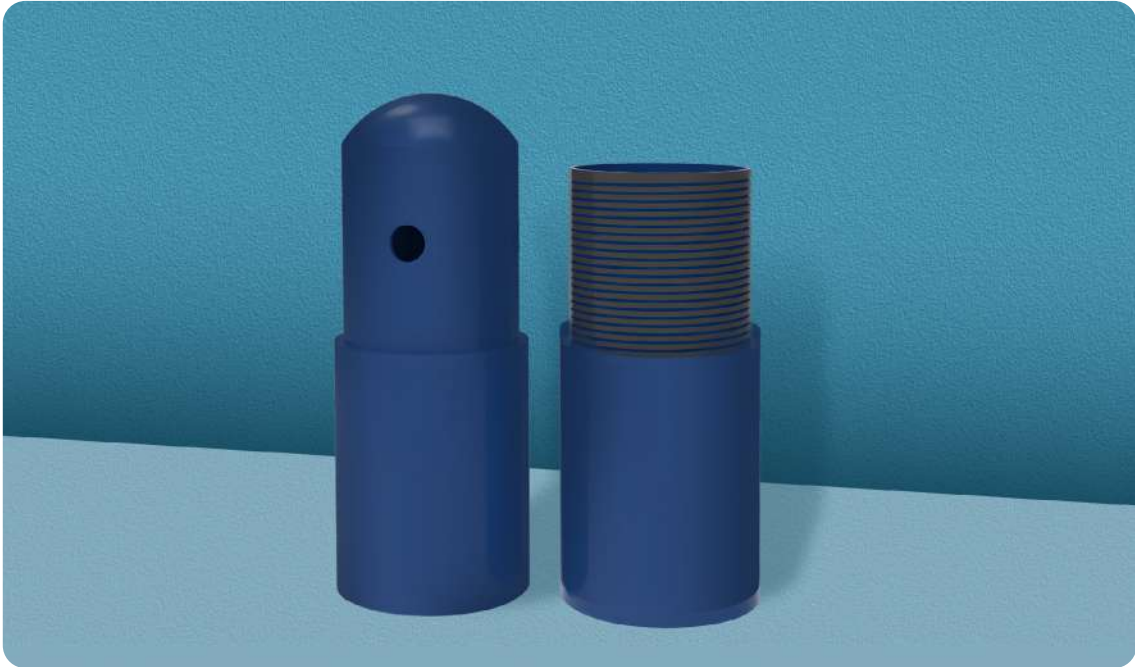
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Float Collar & Float Shoe

We offer a wide variety of float collars and float shoes, including non-rotating type, stab-in type, welded type, and double-valve configurations. According to the design, these float collars prevent cement slurry backflow via a one-way valve, while the float shoes guide the casing into the wellbore and prevent backflow. All internal components are constructed from drillable materials. Float collars and float shoes have a wide applications. They are not only suitable for large-diameter surface casing and technical casing, but also for deep wells, ultra-deep wells, and special process wells. The single-flow valve can withstand pressures up to 70 MPa.



Advantages

01

A reliable valve body structure ensures minimal resistance to cement slurry flow.

02

The specialized structural design effectively prevents cement slurry backflow.

03

All internal components are fully drillable, with a bore diameter identical to that of the casing.

04

Thread types can be machined to API or special threads according to customer requirements.

Applications



- The float collar is installed 20–30 meters from the bottom end of the casing string, serving as a landing collar and back pressure valve function.
- The float shoe is attached to the bottom end of the casing string, serving as both a guide shoe and a back pressure valve.
- The float collar and float shoe play a critical role in drilling and production operations. They are suitable not only for standard intermediate casings and production casings, but also to deep wells, ultra-deep wells, and special process wells.

Type

⦿ Non-Rotating Float Shoe / Float Collar

Features

The internal design includes an non-rotating spline head, which works together with an anti-rotating plug to prevent rotation during cement plug drill-out, making it easier to drill out. The non-rotating float collar and float shoe can secure both the upper and lower plugs, reducing plug drill-out time.

Valve body and spring material

The float equipment valve (with an non-rotating disc on the top to match the plug) is made of drillable materials. The main body is constructed from phenolic resin, and the spring is made of tin bronze.

Standard

Thread machining and inspection comply with API 5B standards; overall performance meets API RP 10F IIIC requirements.

Scope of application

Especially suitable for drilling operations in directional wells, horizontal wells, and complex formations.



Non-Rotating Float Collar Specifications

Size (mm)/(in)		Outer Diameter (mm)	Inner Diameter (mm)	Height (mm)	Flow Port Diameter (mm)	Applicable Thread Type	Pressure-Bearing Capacity (MPa)	Unit Weight (KG)
140	5-1/2	160	127.3–118.6	500	45	API thread / special thread	35	36
168	6-5/8	187.8	153.6–144.1	550	45	API thread / special thread	35	40
178	7	200	166–150.4	550	45	API thread / special thread	35	54
194	7-5/8	219.1	178.4–162	550	45	API thread / special thread	35	62
219	8-5/8	244.5	205.6–190.8	550	45	API thread / special thread	35	70
244	9-5/8	269.7	226.6–214.3	550	70	API thread / special thread	35	76
273	10-3/4	298	258.9–242.8	550	70	API thread / special thread	35	96
298	11-3/4	323.9	281.5–273.6	600	70	API thread / special thread	35	118
340	13-3/8	365	320.4–313.6	600	70	API thread / special thread	35	146
406	16	431.8	384.1–381.3	650	70	API thread / special thread	21	180
473	18-5/8	508	450.9	650	70	API thread / special thread	21	228
508	20	531.2	485.7–475.7	650	70	API thread / special thread	21	310

Note: Products with special specifications and models can be custom designed.

Non-Rotating Float Shoe Specifications

Size (mm)/(in)		Outer Diameter (mm)	Inner Diameter (mm)	Height (mm)	Flow Port Diameter (mm)	Applicable Thread Type	Pressure Rating (MPa)	Unit Weight (KG)
140	5-1/2	160	127.3–118.6	490	45	API thread / special thread	35	38
168	6-5/8	187.8	153.6–144.1	560	45	API thread / special thread	35	45
178	7	200	166–150.4	560	45	API thread / special thread	35	54
194	7-5/8	219.1	178.4–162	560	45	API thread / special thread	35	62
219	8-5/8	244.5	205.6–190.8	560	45	API thread / special thread	35	72
244	9-5/8	269.7	226.6–214.3	570	70	API thread / special thread	35	86
273	10-3/4	298	258.9–242.8	570	70	API thread / special thread	35	100
298	11-3/4	323.9	281.5–273.6	570	70	API thread / special thread	35	120
340	13-3/8	365	320.4–313.6	580	70	API thread / special thread	35	146
406	16	431.8	384.1–381.3	580	70	API thread / special thread	21	188
473	18-5/8	508	450.9	580	70	API thread / special thread	21	240
508	20	531.2	485.7–475.7	650	70	API thread / special thread	21	304

Note: Products with special specifications and models can be custom designed.

⦿ Aluminum Alloy Float Collar / Float Shoe

Features

The float equipment valve is made of drillable material, the body is constructed from 6061 aluminium alloy, and the spring is made of tin bronze.

Standard

Thread machining and inspection comply with API 5B standards; overall performance meets API RP 10F IIIC requirements.

Scope of application

Suitable not only for standard intermediate casings and production casings, but also for deep wells, ultra-deep wells, and special process wells. The float equipment valve can withstand pressures up to 70 MPa.



Aluminum Alloy Float Collar Specifications

Size (mm)/(in)		Outer Diameter (mm)	Inner Diameter (mm)	Height (mm)	Flow Port Diameter (mm)	Applicable Thread Type	Pressure Rating (MPa)	Unit Weight (KG)
140	5-1/2	160	127.3–118.6	350	55	API thread / special thread	35	14
168	6-5/8	187.8	153.6–144.1	350	55	API thread / special thread	35	21
178	7	200	166–150.4	400	55	API thread / special thread	35	25
194	7-5/8	219.1	178.4–162	400	55	API thread / special thread	35	28
219	8-5/8	244.5	205.6–190.8	400	55	API thread / special thread	35	35
244	9-5/8	269.7	226.6–214.3	420	60	API thread / special thread	35	50
273	10-3/4	298	258.9–242.8	450	60	API thread / special thread	35	52
298	11-3/4	323.9	281.5–273.6	450	60	API thread / special thread	35	60
340	13-3/8	365	320.4–313.6	450	60	API thread / special thread	35	73
406	16	431.8	384.1–381.3	450	60	API thread / special thread	21	85
473	18-5/8	508	450.9	450	60	API thread / special thread	21	88
508	20	531	485.7–475.7	450	60	API thread / special thread	21	98

Note: Products with special specifications and models can be custom designed.

Aluminum Alloy Float Shoe Specifications

Size (mm)/(in)		Outer Diameter (mm)	Inner Diameter (mm)	Height (mm)	Flow Port Diameter (mm)	Applicable Thread Type	Pressure Rating (MPa)	Unit Weight (KG)
140	5-1/2	160	127.3–118.6	350	55	API thread / special thread	35	14
168	6-5/8	187.8	153.6–144.1	350	55	API thread / special thread	35	21
178	7	200	166–150.4	400	55	API thread / special thread	35	25
194	7-5/8	219.1	178.4–162	400	55	API thread / special thread	35	28
219	8-5/8	244.5	205.6–190.8	400	55	API thread / special thread	35	35
244	9-5/8	269.7	226.6–214.3	420	60	API thread / special thread	35	50
273	10-3/4	298	258.9–242.8	450	60	API thread / special thread	35	52
298	11-3/4	323.9	281.5–273.6	450	60	API thread / special thread	35	60
340	13-3/8	365	320.4–313.6	450	60	API thread / special thread	35	73
406	16	431.8	384.1–381.3	450	60	API thread / special thread	21	85
473	18-5/8	508	450.9	450	60	API thread / special thread	21	88
508	20	531	485.7–475.7	450	60	API thread / special thread	21	98

Note: Products with special specifications and models can be custom designed.

Stab-in Float Shoe / Float Collar

Features

In float collars and float shoes, 'stab-in' specifically refers to an installation method where a stab-in connector is connected to the internal seat of the casing. This design is suitable for efficient cementing of large-diameter casings, offering advantages such as cost savings, simplified operations, and enhanced sealing performance.

Valve body and spring materials

The float equipment valve is made of drillable materials, with the body constructed from phenolic resin and the spring made of tin bronze.

Standard

Thread machining and inspection comply with API 5B standards; The overall performance of the float valve meets API RP 10F IIIC requirements.

Scope of application

Suitable for single-stage cementing of large-diameter surface casings and intermediate casings, and capable of supporting a drill string weight of up to 30 tons.



Stab-in Float Collar Specifications

Size (mm)/(in)		Outer Diameter (mm)	Inner Diameter (mm)	Height (mm)	Flow Port Diameter (mm)	Applicable Thread Type	Pressure Rating (MPa)	Unit Weight (KG)
140	5-1/2	160	127.3–118.6	500	45	API thread / special thread	35	38
168	6-5/8	187.8	153.6–144.1	550	45	API thread / special thread	35	42
178	7	200	166–150.4	550	45	API thread / special thread	35	56
194	7-5/8	219.1	178.4–162	550	45	API thread / special thread	35	64
219	8-5/8	244.5	205.6–190.8	550	45	API thread / special thread	35	72
244	9-5/8	269.7	226.6–214.3	550	70	API thread / special thread	35	78
273	10-3/4	298	258.9–242.8	550	70	API thread / special thread	35	98
298	11-3/4	323.9	281.5–273.6	600	70	API thread / special thread	35	120
340	13-3/8	365	320.4–313.6	600	70	API thread / special thread	35	148
406	16	431.8	384.1–381.3	650	70	API thread / special thread	21	182
473	18-5/8	508	450.9	650	70	API thread / special thread	21	230
508	20	531.2	485.7–475.7	650	70	API thread / special thread	21	312

Note: Products with special specifications and models can be custom designed.

Stab-in Float Shoe Specifications								
Size (mm)/(in)		Outer Diameter (mm)	Inner Diameter (mm)	Height (mm)	Flow Port Diameter (mm)	Applicable Thread Type	Pressure Rating (MPa)	Unit Weight (KG)
140	5-1/2	160	127.3–118.6	490	45	API thread / special thread	35	40
168	6-5/8	187.8	153.6–144.1	560	45	API thread / special thread	35	48
178	7	200	166–150.4	560	45	API thread / special thread	35	56
194	7-5/8	219.1	178.4–162	560	45	API thread / special thread	35	64
219	8-5/8	244.5	205.6–190.8	560	45	API thread / special thread	35	74
244	9-5/8	269.7	226.6–214.3	570	70	API thread / special thread	35	88
273	10-3/4	298	258.9–242.8	570	70	API thread / special thread	35	102
298	11-3/4	323.9	281.5–273.6	570	70	API thread / special thread	35	122
340	13-3/8	365	320.4–313.6	580	70	API thread / special thread	35	148
406	16	431.8	384.1–381.3	580	70	API thread / special thread	21	190
473	18-5/8	508	450.9	580	70	API thread / special thread	21	242
508	20	531.2	485.7–475.7	650	70	API thread / special thread	21	306

Note: Products with special specifications and models can be custom designed.

Double Valve Float Collar Specifications								
Size (mm)/(in)		Outer Diameter (mm)	Inner Diameter (mm)	Height (mm)	Flow Port Diameter (mm)	Applicable Thread Type	Pressure Rating (MPa)	Unit Weight (KG)
140	5-1/2	160	127.3–118.6	800	45	API thread / special thread	35	36
168	6-5/8	187.8	153.6–144.1	850	45	API thread / special thread	35	40
178	7	200	166–150.4	850	45	API thread / special thread	35	54
194	7-5/8	219.1	178.4–162	850	45	API thread / special thread	35	62
219	8-5/8	244.5	205.6–190.8	900	45	API thread / special thread	35	70
244	9-5/8	269.7	226.6–214.3	900	70	API thread / special thread	35	76
273	10-3/4	298	258.9–242.8	900	70	API thread / special thread	35	96
298	11-3/4	323.9	281.5–273.6	950	70	API thread / special thread	35	118
340	13-3/8	365	320.4–313.6	950	70	API thread / special thread	35	146
406	16	431.8	384.1–381.3	1000	70	API thread / special thread	21	180
473	18-5/8	508	450.9	1000	70	API thread / special thread	21	228
508	20	531	485.7–475.7	1000	70	API thread / special thread	21	310

Note: Products with special specifications and models can be custom designed.

🕒 Double Valve Float Shoe / Float Collar

Features

The double valve design enhances sealing performance and functionality, making it particularly suitable for complex well conditions and demanding cementing operations.

Valve body and spring materials

The check valve is made of drillable materials, with the body constructed from phenolic resin and the spring made of tin bronze.

Standard

Thread machining and inspection comply with API 5B standards; The overall performance of the float valve meets API RP 10F IIIC requirements.

Scope of application

Suitable not only for standard intermediate casings and production casings, but also for deep wells, ultra-deep wells, and special process wells.



Double Valve Float Shoe Specifications								
Size (mm)/(in)		Outer Diameter (mm)	Inner Diameter (mm)	Height (mm)	Flow Port Diameter (mm)	Applicable Thread Type	Pressure Rating (MPa)	Unit Weight (KG)
140	5-1/2	160	127.3–118.6	840	45	API thread / special thread	35	38
168	6-5/8	187.8	153.6–144.1	910	45	API thread / special thread	35	45
178	7	200	166–150.4	910	45	API thread / special thread	35	54
194	7-5/8	219.1	178.4–162	910	45	API thread / special thread	35	62
219	8-5/8	244.5	205.6–190.8	880	45	API thread / special thread	35	72
244	9-5/8	269.7	226.6–214.3	920	70	API thread / special thread	35	86
273	10-3/4	298	258.9–242.8	920	70	API thread / special thread	35	100
298	11-3/4	323.9	281.5–273.6	920	70	API thread / special thread	35	120
340	13-3/8	365	320.4–313.6	930	70	API thread / special thread	35	146
406	16	431.8	384.1–381.3	930	70	API thread / special thread	21	188
473	18-5/8	508	450.9	930	70	API thread / special thread	21	240
508	20	531	485.7–475.7	1000	70	API thread / special thread	21	304

Note: Products with special specifications and models can be custom designed.

● Butt Weld Float Shoe / Float Collar

Features

The welded end utilizes a 30° butt-weld connection. (The outer diameter of the butt weld casing collar matches that of the casing, and the upper end is beveled only, without any recess, allowing direct welding to the casing.)

Valve body and spring materials

The check valve is made of drillable materials, with the body constructed from phenolic resin and the spring made of tin bronze.

Standard

Thread machining and inspection comply with API 5B standards; The overall performance of the float valve meets API RP 10F IIIC requirements.

Scope of application

Suitable for large-diameter surface casing and shallow intermediate casing ranging from 12-3/4" to 30".



Butt Weld Float Shoe /Float Collar Specifications

Size (mm)/(in)		Outer Diameter (mm)	Inner Diameter (mm)	Height (mm)	Flow Port Diameter (mm)	Pressure Rating (MPa)	Unit Weight (KG)
325	12-3/4	325.4	309	610	70	35	100
508	20	531.2	485.7–475.7	650	70	21	310
600	–	600	565	600	70	14	372
610	24	630	594	550	70	14	368
711	28	716	673	750	70	14	594
762	30	762	712	930	70	14	890
914	36	920	876	875	70	14	1050



● Float Equipment Valve

Overview

The valve body and piston of the float equipment valve are constructed from high-strength phenolic resin, providing excellent resistance to high temperatures, wear, oil, and corrosion. The piston ball head sealing area is coated with a rubber material that is highly resistant to high temperatures, wear, and oil, and provides strong elasticity and excellent sealing performance. The spring is made of tin bronze, offering superior wear resistance, corrosion resistance, and outstanding mechanical properties. All materials are easily drillable.



Technical parameter

As the core component of the float collar and float shoe, its overall performance meets the requirements of API RP 10F IIIC. It can withstand a pressure of 35 MPa. It is erosion resistant and can endure temperatures up to 204 °C. It supports a flow rate of up to 2000 L/min, and has a service life of up to 24 hours.

Float Equipment Valve Specifications

Size (mm)/(in)		Outer Diameter (mm)	Height (mm)	Inlet Diameter (mm)	Outlet Diameter (mm)	Unit Weight (Kg)	Pressure Rating (MPa)	Temperature Resistance (°C)	Flow Rate (L/min)	Drawing Number
50.8	2"	95	150	50.5	66.5	1.2	70	204	2000	CV0200
63.5	2-1/2"	140	200	63.5	94	1.8	70	204	2000	CV0212



Cementing Plug

We provide three types of cementing plugs: standard type, non-rotating type, and wiper type. All types are typically used in pairs as upper and lower plugs. According to the design, the upper plug is solid core, while the lower plug is hollow. When the lower plug withstands a pressure of 2–4 MPa, the rubber membrane can be ruptured, providing a channel for the cement slurry and establishing circulation. Cementing plug core is manufactured from aluminum alloy or polymer materials, while the plug is made from high-quality nitrile rubber. The structure adopts the 5W type design.



Advantages

01

The wiper fin made of polyurethane offers excellent casing cleaning capability and superior wear resistance.

02

Our non-rotating plug features an non-rotating mechanism, significantly increasing drill-out speed.

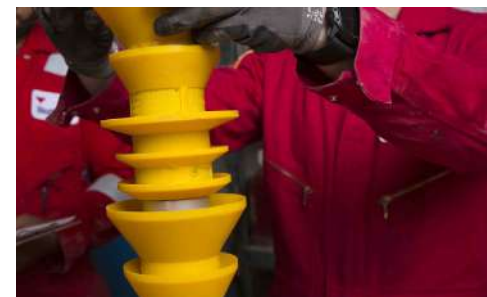
03

Our products are aluminum or composite material plugs, designed for rapid drill-out to save subsequent operation time.

04

Compatible with a wide range of casing sizes (4-1/2" – 20") and suitable for high-temperature, high-pressure wells (temperature resistance up to 200 °C).

Applications



- Effectively isolates cement slurry to prevent mixing with drilling fluid.
- Capable of wiping cement slurry adhering to the inner wall of the casing.
- When the cementing plug contacts the float collar, it can accurately indicate the completion and integrity of the cementing operation.

Type

Standard Cementing Plug

The standard cementing plug is constructed from graded rubber fused onto a composite or aluminum core. For double-plug cementing, both plugs are used; for single-plug cementing, typically only the upper plug is utilized. The plug core is made of drillable material, making it fully drillable with a PDC drill bit.

Application

Standard type cementing plugs are suitable for various float collars and float shoes.

Advantages

Conventional design with five wiper fins for effective casing wiping; Drillable with PDC and roller cone bits; The bottom plug is equipped with an integrated rupture disk.



Standard Cementing Plug Specifications					
Size (mm)/(in)		Outer Diameter (mm)	Main Body Diameter (mm)	Height (mm)	Casing wall (IB/FT)
114	4-1/2	114	76	206	9.5–15.1
127	5	127	94	210	11.5–21.4
140	5-1/2	141	105	212	14–23
168	6-5/8	168	120	245	12–40.2
178	7	178	135	241	17–38
194	7-5/8	185	145	247	26.4–47.1
219	8-5/8	210	163	230	24–49
244	9-5/8	243	195	255	32.3–58.4
273	10-3/4	273	212	292	32.75–65.7
298	11-3/4	298	236	260	42–60
340	13-3/8	340	286	365	48–72
406	16	403	338	400	65–109
508	20	498	412	433	87.5–133



Non-Rotating Cementing Plug

The non-rotating cementing plug is equipped with a non-rotating guide plate, manufactured from phenolic resin compressed under high temperature and high pressure, providing excellent torque resistance; the outer shell is made of wear-resistant nitrile rubber. All components are drillable.



Application

The non-rotating cementing plug is suitable for non-rotating type float collars and float shoes.

Advantages

It reduces drilling-out time and lowers operational costs; dual-stage sealing design delivers superior sealing performance.

Non-Rotating Cementing Plug					
Size (mm)/(in)		Outer Diameter (mm)	Main Body Diameter (mm)	Height (mm)	Casing Wall Thickness (IB/FT)
140	5-1/2	136	92	210	14–43.1
178	7	171	135	247	23–38
194	7-5/8	185	145	247	26.4–47.1
219	8-5/8	210	170	253	32–49
244	9-5/8	242	197	255	32–75.6
339.7	13-3/8	336	276	343	48–72
406.4	16	403	338	451	65–109
473/508	18-5/8 / 20	500	380	495	94–133

● Drill Pipe Wiper Plug

The drill pipe wiper plug is used to wipe the interior of the drill pipe and running tools after cementing is completed, ensuring the pipe remains clean and ready for use. The plug is launched from the cementing head and is pumped through the drill pipe and running tools by fluid circulation. They can be used in various ways and are manufactured from different materials, including PTFE or aluminum.

Application

Used in inner string cementing operations, this cementing technique is especially suitable for large-diameter (16" – 30") conductor or surface casing cementing, effectively solving the challenges associated with large-diameter cementing plugs and cement heads.

Advantages

Dual-stage sealing design for superior sealing performance; excellent wear and temperature resistance.



Drill Pipe Wiper Plug Specifications

Size (mm)/(in)		Outer Diameter (mm)	Main Body Diameter (mm)	Height (mm)	Number of Sealing Lips	Unit Weight (KG)
73	2-7/8	77.5	31	202	3	1
89	3-1/2	96	36	228	3	1.2



Casing Guide Shoes

The casing guide shoe is a critical tool installed at the bottom of the casing string in oil drilling, specifically designed for efficient and safe casing running operations. Its streamlined design effectively reduces running resistance and prevents collisions with the wellbore wall. The built-in one-way float valve blocks the backflow of drilling fluids and cement slurry, ensuring cementing quality.

It is suitable for directional wells, deep wells, and complex formations, significantly minimizing running obstructions, well control risks, and workover costs. Optional high-temperature and high-pressure resistant materials are available to accommodate harsh operating conditions. As a cost-effective casing accessory, the guide shoe greatly enhances operational efficiency, making it an ideal choice for drilling contractors.





Advantages

01

The front end is typically designed with a beveled or streamlined profile, effectively avoiding wellbore obstructions (such as cuttings, reduced diameter sections, or doglegs) and reducing frictional resistance during casing running.

02

Prevents direct impact of the casing bottom against the wellbore or formation, thereby avoiding thread damage or deformation.

03

The guide shoe often integrates a one-way valve (float valve). During cementing operations, this valve prevents cement backflow, ensuring complete annular fill and avoiding the formation of "cement bridges" or voids.

04

Simple in structure yet significantly reduces operational risks, preventing costly workover expenses caused by casing damage or cementing failures.

Applications

- Used as a tool to run casing or liner to the target depth, primarily in wellbores where severe sticking issues are anticipated.
- Well-suited for horizontal wells and extended reach wells, delivering excellent performance.
- The reaming guide shoe can be equipped with a one-way float valve, providing the functionality of a float shoe.
- The base of the guide shoe can be customized with various thread types to match customer-specific casing, allowing direct connection to the casing or liner.

Type

Hydraulic Rotary Guide Shoe

The hydraulic rotary guide shoe is a high-efficiency casing guide shoe with rotation capability, designed to optimize casing running operations. By inducing rotation, it alters the flow pattern of the drilling fluid at the wellbore bottom, reducing casing running friction, enhancing the cuttings-carrying capacity of the drilling fluid, preventing sticking in the formation, and addressing challenges such as wellbore shrinkage and formation collapse.



Advantages

Powered by a hydraulic turbine mechanism, the shoe head rotates to generate a high-speed swirling flow of drilling fluid, effectively cleaning and conditioning the wellbore wall. The guide head, made of aluminum or eccentric resin, enables smooth passage over obstructions or borehole restrictions, facilitating easier casing entry. The shoe body is constructed from PDC drillable material for easy post-cementing drilling. The exterior features helical wear-resistant bands embedded with premium tungsten carbide cylinders, enhancing durability and providing additional scraping action during casing descent.

Hydraulic Rotary Guide Shoe Specifications

Size (mm)/(in)		Outer Diameter (mm)	Inner Diameter (mm)	Height (mm)	Flow Port Diameter (mm)	Applicable Thread Type	Pressure Rating (MPa)	Unit Weight (KG)
140	5-1/2	160	127.3–118.6	840	45	API thread / special thread	35	38
168	6-5/8	187.8	153.6–144.1	910	45	API thread / special thread	35	45
178	7	200	166–150.4	910	45	API thread / special thread	35	54
194	7-5/8	219.1	178.4–162	910	45	API thread / special thread	35	62
219	8-5/8	244.5	205.6–190.8	880	45	API thread / special thread	35	72
244	9-5/8	269.7	226.6–214.3	920	70	API thread / special thread	35	86
273	10-3/4	298	258.9–242.8	920	70	API thread / special thread	35	100
298	11-3/4	323.9	281.5–273.6	920	70	API thread / special thread	35	120
340	13-3/8	365	320.4–313.6	930	70	API thread / special thread	35	146
406	16	431.8	384.1–381.3	930	70	API thread / special thread	21	188
473	18-5/8	508	450.9	930	70	API thread / special thread	21	240
508	20	531	485.7–475.7	1000	70	API thread / special thread	21	304

Note: Products with special specifications and models can be custom designed.

Reaming Shoe

The reaming shoe is filled internally with high H₂S-resistant oil well cement and features a tapered nose to guide the casing smoothly into the wellbore. It is suitable for use with various casing and liner sizes. When the wellbore experiences shrinkage or ledges, the reaming shoe helps condition and enlarge the borehole, allowing the casing string to pass through obstructions. The shoe performs effectively during rotation or reciprocation while running the casing.



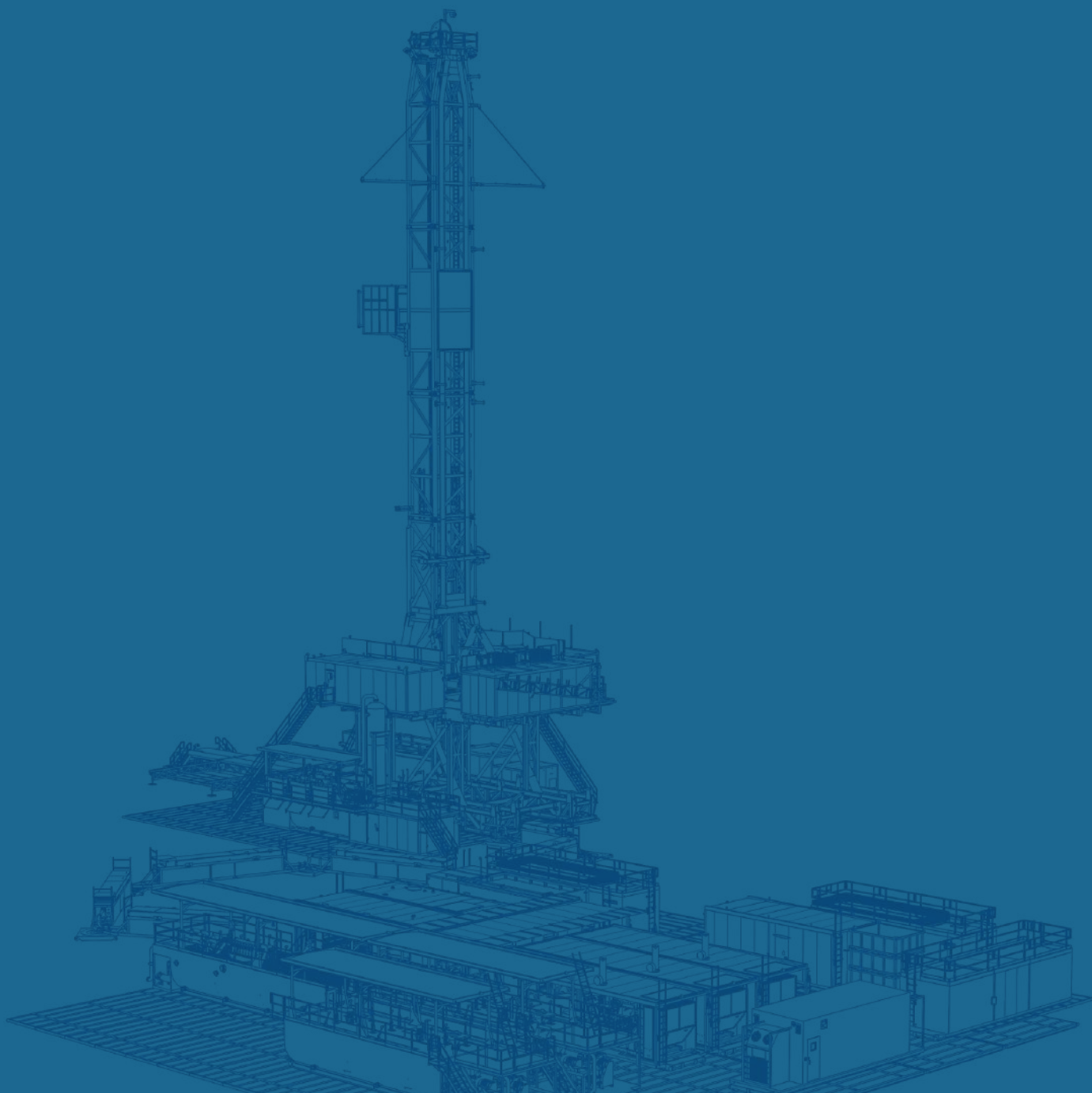
Advantages

Eccentric guide head design helps the casing string navigate irregular well sections. Constructed from aluminum and fully PDC-drillable; Provides full borehole coverage during rotation and reaming, preventing gas channeling during cementing operations; Can be equipped with a built-in one-way float valve, pressure-rated to 35 MPa and temperature-resistant up to 204 °C.

Reaming Shoe Specifications

Size (mm)/(in)		Outer Diameter (mm)	Inner Diameter (mm)	Height (mm)	Flow Port Diameter (mm)	Applicable Thread Type	Pressure Rating (MPa)	Unit Weight (KG)
140	5-1/2	160	127.3–118.6	840	45	API thread / special thread	35	38
168	6-5/8	187.8	153.6–144.1	910	45	API thread / special thread	35	45
178	7	200	166–150.4	910	45	API thread / special thread	35	54
194	7-5/8	219.1	178.4–162	910	45	API thread / special thread	35	62
219	8-5/8	244.5	205.6–190.8	880	45	API thread / special thread	35	72
244	9-5/8	269.7	226.6–214.3	920	70	API thread / special thread	35	86
273	10-3/4	298	258.9–242.8	920	70	API thread / special thread	35	100
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Note: Products with special specifications and models can be custom designed.



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