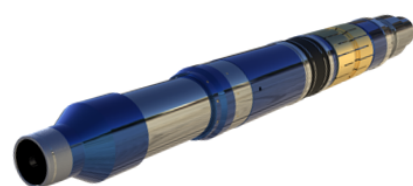


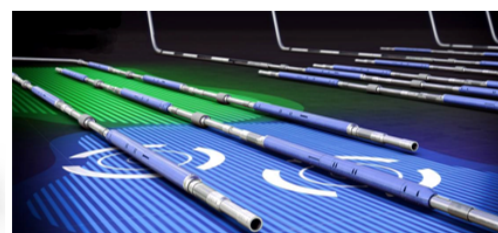
Here's what we do



PRODUCTION COMPLETION



WELL CONSTRUCTION



COMPLETION STIMULATION



INTELLIGENT COMPLETION



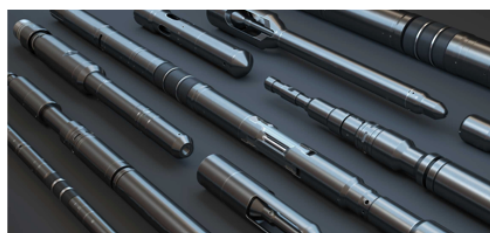
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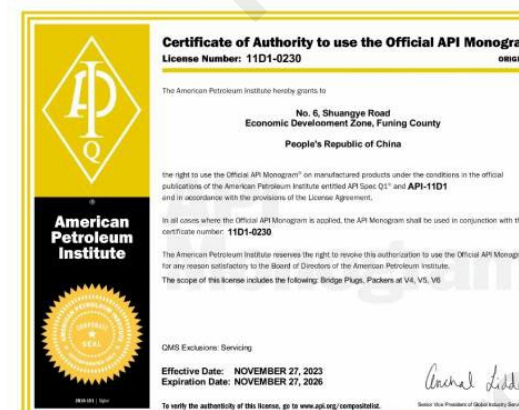




Company Profile

Torrent Oil Tools is a leading provider of innovative and high-performance oilfield tools and technologies, serving the global energy industry. With a strong commitment to engineering excellence, reliability, and operational efficiency, we offer a comprehensive range of solutions across various segments of oil and gas exploration, drilling, completion, and production.

- ✓ **Innovative Engineering:** Advanced technologies for superior well performance.
- ✓ **Proven Reliability:** High-quality tools designed for extreme downhole conditions.
- ✓ **Customized Solutions:** Tailored products to meet diverse operational challenges.
- ✓ **Global Reach:** Strong supply chain and service support across key oil & gas markets.
- ✓ **Commitment to Excellence:** Delivering efficiency, safety, and cost-effectiveness.



Enterprise Certification



ISO 9001



ISO 45001



ISO 14001

Quality Control



Professional R&D Team



QA/QC Management Of Whole Process



Project Management



Ex-work Inspection



Strict Supplier Evaluation
And Approval System



Professional Package



Safty Transportation



24 Hours After-sales Service

Dissolvable Magnesium Alloy & Frac Plug

From basic formulation research to alloy producing, from CNC machining to experimental testing, from workshop to well site servicers, realize this whole industrial chain integration, which can one-stop meet customers' requirement of different geological condition and technology specification, providing the most cost-effective products and technical services.

- ☐ Magnesium Alloy R&D
- ☐ Surface Coating Nanotechnology
- ☐ Customized Development
- ☐ Degradable Sealing Element R&D
- ☐ Experimental Testing
- ☐ Well Site Servicers
- ☐ CNC Machining



dsv-D Frac Plug

Dissolvable Frac Plug Double Grips

Description

The dsv-D Frac Plug utilizes industry leading dissolvable technology to provide a dependable, cost-effective dissolving frac plug that leaves no metal to be cleaned out of the wellbore post-frac, resulting in easier lateral cleanouts and valuable time savings for operators.

Features

- ☐ Sophisticated technology of dissolvable metals plus new-type degradable polymer material, clean and free of residue.
- ☐ Excellent mechanical and degradable properties, pressure grade up to 70Mpa.
Advanced composites material of anchor teeth, high hardness, automatic fragmentation after anchoring period, no residue remain.
- ☐ Rating of temperature 90/120/150/177 , 62-146mm different types of casing sizes match.
20,000+ wells successful operation experience, 100% success rate.

Application

Plug-perf of horizontal well multi-stage fracturing

Specification

Model	Tool OD (mm)	Tool ID (mm)	Length (mm)	Temp. (°C)	Releasing Strength (T)	Setting Stroke (mm)	Pressure (MPa)	Setting Tool	Casing ID (mm)
Y457R-70	70	20	400	30-170	4-6	90	70	BK #5	Φ76-83
Y457R-85	85	25	410	30-170	8-12	100	70	BK #10	Φ99-102
Y457R-89	89	27	495	30-170	10-14	100	70	BK #10	Φ99-104
Y457R-99	99	32	490	30-170	12-16	150	70	BK #20	Φ104-115
Y457R-109	109	40	475	30-170	12-16	150	70	BK #20	Φ118-124

NOTE: Additional size, weight, end connection etc. are also available on request

dsv-S Frac Plug

Dissolvable Frac Plug Single Grip



Description

The dsv-D Frac Plug utilizes industry leading dissolvable technology to provide a dependable, cost-effective dissolving frac plug that leaves no metal to be cleaned out of the wellbore post-frac, resulting in easier lateral cleanouts and valuable time savings for operators.

Features

- Sophisticated technology of dissolvable metals plus new-type degradable polymer material, clean and free of residue.
- Excellent mechanical and degradable properties, pressure grade up to 70Mpa.
Advanced composites material of anchor teeth, high hardness, automatic fragmentation after anchoring period, no residue remain.
- Rating of temperature 90/120/150/177℃ , 62-146mm different types of casing sizes match.
20,000+ wells successful operation experience, 100% success rate.

Application

- Plug-perf of horizontal well multi-stage fracturing

Specification

Model	Tool OD (mm)	Tool ID (mm)	Length (mm)	Temp. (°C)	Releasing Strength (T)	Setting Stroke (mm)	Pressure (MPa)	Setting Tool	Casing ID (mm)
Y257R-70	70	25	270	30-160	4-6	60	70	BK #5	Φ76-83
Y257R-85	85	30	290	30-160	8-12	70	70	BK #10	Φ99-102
Y257R-89	89	35	280	30-160	8-12	90	70	BK #10	Φ99-104
Y257R-99	99	45	270	30-160	12-16	95	70	BK #20	Φ104-115
Y257R-109	109	55	280	30-160	12-16	95	70	BK #20	Φ118-124

NOTE: Additional size, weight, end connection etc. are also available on request

dsv-A Frac Plug

Dissolvable Frac Plug All Metal



Description

100% all-metal design, no degradable sealing element, metal sealing ring expand to the safety range by 24%. no cutting pins or location screws design in structure, which leaves no pins in well after setting. Meet high requirement of fracturing design, reliable and well performance, clean wellbore left for flow back, short design and easier for dissolution, easy storage.

Features

- Sophisticated technology of dissolvable metals plus new-type degradable polymer material, clean and free of residue.
- Excellent mechanical and degradable properties, pressure grade up to 70Mpa.
Advanced composites material of anchor teeth, high hardness, automatic fragmentation after anchoring period, no residue remain.
- Rating of temperature 90/120/150/177 , 62-146mm different types of casing sizes match.
20,000+ wells successful operation experience, 100% success rate.
Short and compact design, good performance, big ID, light weight .

Application

- Plug-perf of horizontal well multi-stage fracturing

Specification

Model	Tool OD (mm)	Tool ID (mm)	Length (mm)	Temp. (°C)	Releasing Strength (T)	Setting Stroke (mm)	Pressure (MPa)	Setting Tool	Casing ID (mm)
Y257RA-54	54	16	240	30-150	3-6	60	70	BK #5	Φ60-68
Y257RA-70	70	25	240	30-200	8-12	60	70	BK #5	Φ76-83
Y257RA-85	85	35	240	30-200	10-14	70	70	BK #10	Φ99-102
Y257RA-89	89	40	220	30-200	10-14	65	70	BK #10	Φ99-104
Y257RA-99	99	50	240	30-200	12-16	70	70	BK #20	Φ104-115
Y257RA-103	103	50	220	30-200	12-16	60	70	BK #20	Φ110-115
Y257RA-106	106	56	220	30-200	12-16	70	70	BK #20	Φ115-118
Y257RA-109	109	60	220	30-200	12-16	70	70	BK #20	Φ118-124

NOTE: Additional size, weight, end connection etc. are also available on request

Frac Ball, Coated Dissolvable Ball

Description

Dissolvable frac ball is make of Dissolvable Magnesium Alloys, it's widely used together with downhole tools such as dissolvable frac plug and slide sleeve etc., the pressure rated to 70 MPa and reliable performance. The dissolving rate can be customized based on specific well condition and dissolving duration design, the size optional range from Ø2mm~Ø144mm, special sizes can be customized.



Dissolvable Magnesium Alloys

Description

Dissolvable alloys are essential materials that have been formulated to provide high corrosion rates in a controlled manner. This material is widely used in construction and manufacturing. Customized to your specification with a quick turnaround, our process of making dissolvable magnesium alloys is produced through alloying, casting, and extrusion along with a special program of heat treatment for different alloys to yield what is expected.



Specification

No.	Serial Numbe	Mechanical Property			Brinell Hardness /HB	Dissoluton Rate	
		Extention Strength/MPa	Yield Strength /MPa	Extend Rate /%		Dissolution Condition	Rate/[mg/(cm ² ·h)]
1	006	≥370	≥260	≥3.0	≥90	93°C/3%KC1	50-80
2	006A	≥300	≥210	≥5.0	≥70	93°C/3%KC1	50-80
3	008	≥400	≥300	≥3.0	≥100	93°C/3%KC1	30-60
4	008C	≥310	≥220	≥10.0	≥80	93°C/3%KC1	30-60
5	011	≥420	≥300	≥3.0	≥105	93°C/3%KC1	15-35
6	016	≥270	≥180	≥14.0	≥60	93°C/3%KC1	30-60
7	018	≥230	≥180	≥12.0	≥55	50°C/0.84KC1	35-55
8	019	≥220	≥170	≥14.0	≥55	50°C/0.84KC1	35-60
9	020	≥170	≥100	≥30.0	≥50	93°C/3%KC1	15-35
10	022	≥300	≥200	≥5.0	≥65	43°C /0.05%KC1	35-55
11	023	≥280	≥200	≥7.5	≥65	43°C/0.05%KC1	25-35
12	024	≥250	≥200	≥7.0	≥60	43°C /0.05%KC1	50-80
13	015	≥270	≥210	≥5.0	≥60	43°C /0.05%KC1	70-100
						20°C/0.01%KC1	30-50
14	025	≥275	≥200	≥10.0	≥75	50°C/0.84%KC1	80-110
15	808	≥370	≥260	≥3.0	≥100	50°C/0.84%KC1	50-80
16	MM8	≥270	≥220	≥10.0	≥65	93°C/3%KC1	90-160
17	026	≥450	≥350	≥3.0	≥110	93°C/3%KC1	10-30
18	035	≥100	≥60	≥45.0	≥40	93°C/3%KC1	40-80
						50°C/0.84%KC1	20-40
19	055	≥210	≥160	≥12.0	≥75	93°C/3%KC1	100-150
20	MM3	≥310	≥230	≥14.0	≥100	93°C/3%KC1	2-10
21	MM6	≥270	≥220	≥9.0	≥65	50°C/0.84%KC1	70-110
22	Mm7	≥280	≥220	≥5.0	≥110	50°C/0.84%KC1	80-130

NOTE: Additional size, weight, end connection etc. are also available on request

WB Bridge Plug

Conventional Bridge Plug Wireline/Hydraulic Set

Description

Wireline or hydraulic setting, compact structure, small OD, integral slips can avoid unanticipated setting, easy to mill. Suitable for variety of casing specifications, from 4 1/2" to 9 5/8", isolate zones for temporary or permanent abandonment.

Features

- Wireline or hydraulic setting, directly with Baker wireline setting tools
- Shear studs are Baker style and connect directly to the Baker Adjuster Sub
- The ratchet lock ring maintains the setting load to ensure safe setting under pressure changes
- One piece packing element and smooth metal back up rings combine for a superior seal

Application

Isolate zones for temporary or permanent abandonment

Specification

Casing OD(mm)	Casing WT(mm)	Tool Setting Range		Tool OD(mm)
in	lbs/ft	Min.in	Max in	in
4.500	9.5-16.9	3.687	4.111	3.593
5.000	11.5-21.4	4.126	4.572	3.937
5.500	14-28.4	4.476	5.012	4.312
5.750	14-25.2	4.890	5.290	4.700
6.625	20-32	5.523	6.070	5.370
7.000	20-38	5.890	6.456	5.687
7.625	24-428	6.464	7.025	6.312
8.625	24-49	7.310	8.069	7.125
9.625	32.3-64.9	8.281	9.001	8.120

NOTE: Additional size, weight, end connection etc. are also available on request



MB Bridge Plug

Conventional Bridge Plug Mechanical Set

Description

Mechanical setting, compact structure, small OD, integral slips can avoid unanticipated setting, easy to mill. Suitable for variety of casing specifications, from 4 1/2" to 9 5/8", isolate zones for temporary or permanent abandonment.

Features

- Sets securely in most hardness casing
- Ratchet lock rings secure dynamic setting force
- One piece packing element and smooth metal back up rings combine for a superior seal
- Compact, easy running
- These bridge plugs can be set on any standard Baker-style mechanical setting tool

Application

Isolate zones for temporary or permanent abandonment

Specification

Casing OD(mm)	Casing WT(mm)	Tool Setting Range		Tool OD(mm)
in	lbs/ft	Min.in	Max in	in
4.500	9.5-16.6	3.825	4.090	3.593
5.000	11.5-21.4	4.125	4.560	3.937
5.500	13-23	4.580	5.044	4.312
6.000	18-26	5.140	5.552	4.700
6.625	17-32	5.595	6.135	5.370
7.000	17-35	6.004	6.538	5.687
7.625	20-39	6.625	7.15	6.312
8.625	24-49	7.511	8.097	7.125
9.625	29.3-58.4	8.435	9.063	8.120
10.750	32.75-60.7	9.650	10.225	9.438
11.750	60-94	10.156	10.772	9.940
11.750	38-66.7	10.653	11.214	10.438
13.375	48-85	12.070	12.738	11.880

NOTE: Additional size, weight, end connection etc. are also available on request



RWB Bridge Plug

Retrievable Bridge Plug Wireline/Hydraulic Set



Description

It can be run in single or multiple zone installations. It is recommended for deviated wells where conditions are not suitable for mechanical set packers. No tubing movement is required or generated to set the packer. Once set, the packer is locked in place by one-piece no-directional slips. The packer can be released by straight pull. They are available in 4 1/2" through 9 5/8" casing.

Features

- ☐ Wireline or hydraulic setting
- ☐ Released by straight pull with tubing or line, no tubing movement
- ☐ Ratchet lock rings secure dynamic setting force
- ☐ One piece double grips sets securely in any hardness casing

Application

Production, injection and zonal isolation

Specification

Casing OD(mm)	Casing WT(mm)	Tool OD(mm)	Releasing Strength
in	lbs/ft	in	lbs
4-1/25	9.5-13.5	3.771	30,000
5	15-18	4.125	
5-1/2"	20-23	4.5	
	15.5-20	4.641	
	13-15.5	4.781	55,000
6-5/8"	24-32	5.5	
7	32-35	5.812	
	26-29	5.968	
	23-26	6.078	
	17-20	6.266	
7-5/8	33.7-39	6.453	
	24-29.7	6.672	
8-5/8"	32-40	7.531	
9-5/8"	40-47	8.437	
	47-53.5	8.218	

NOTE: Additional size, weight, end connection etc. are also available on request

CB Composite Frac Plug

Composite Frac Plug



Description

Utilizes a combination of advanced composite materials engineering, rigorous qualification testing, and robust quality control to deliver a plug that consistently performs successfully downhole with results that exceed operators' expectations.

Features

- ☐ Three pieces packing element and smooth metal back up rings combine for a superior seal
- ☐ Tungsten Carbide teeth anti-slip, easy drilled
- ☐ Compact design and quick setting
- ☐ Reliable and easy drilled composite material, light weight cuttings easy for flow back

Application

Plug-perf of horizontal well multi-stage fracturing

Specification

Casing OD(mm)	Casing WT(mm)	Tool Setting Range		Tool OD(mm)	
in	lbs/ft	Min.in	Max.in	in	mm
4 1/2	9.5-16.6	3.754	4.090	3.594	91.29
5	11.5-20.8	4.156	4.560	3.930	99.82
5 1/2	23-26.8	4.500	4.670	4.130	104.90
5 1/2	1723	4.670	4.892	4.370	111.00
7	17-35	6.004	6.538	5.680	144.27

NOTE: Additional size, weight, end connection etc. are also available on request

Wireline Setting Tools

Description

Wireline setting tools are used for setting of bridge plug, retainers and production packers. By burning powder column, high pressure gas is generated in the cylinder liner to push the piston to generate the corresponding stroke and pushing force to seat and release the tool below.

Features

- ☐ HPHT sealing ring, cyclic utilization;
- ☐ Lower end adopts the international standard interface form,
- ☐ Suitable for bridge plugs, retainers and production packers.

Application

Setting for bridge plugs, retainers and production packers

Specification

Tool OD(mm)	Max. temperature/pressure	Max. temperature/pressure	Max. Pressure of Wellbore
in	°F/PSI	lbs	PSI
3 1/2	400 / 20,000	60,000	15,000
1.72	400 / 10,000	15,000	10,000
3 1/2	400 / 15,000	60,000	8,000
3 1/2	400 / 20,000	60,000	15,000

NOTE: Additional size, weight, end connection etc. are also available on request



Hydraulic Setting Tools



Description

Used to run and set packers, bridge plugs and cement retainers on a work string, production tubing or coil tubing, suitable for Baker setting tools. It allows setting in high-angle or deviated wells where it is often difficult to use wireline equipment. While running in the hole, the setting tool automatically fills with well bore fluid and remains balanced to prevent premature setting.

Features

- ☐ Tubing RIH, reliable setting and releasing
- ☐ Uses the same adapters for running as are used with a Baker 10# or 20# setting too,
- ☐ Hydraulically balanced while running in the hole to prevent premature setting,
- ☐ Easy maintenance, long service life,

Application

Run and setting for packers, bridge plugs and cement retainers

Specification

Size	Casing OD	Tool OD		Max. Setting Strength	Box up
		in	mm	Max. lbs	
5#	3 1/2" and below	1.716	43.60	13,000	1"AMMT
10#	4" -41/2"	3.500	88.90	70,000	23/8EU
20#	5" and above	3.875	98.43	78,000	27/8" EU

NOTE: Additional size, weight, end connection etc. are also available on request

Mechanical Setting Tools

Description

Design for running and setting of bridge plugs and retainers, the upper slips are held in a safe retracted position while running. Right turn and move down to release the up grip, then pull up to complete setting

Features

- ☐ Specially designed Bow Spring provides positive control and allows one size Mechanical.
- ☐ Setting Tools to cover a large range of casing weight.
- ☐ The Upper slips are held in a safe retracted position while running.
- ☐ Allows users to set pressure test tubing, and squeeze in a single trip.

Application

Run and setting bridge plugs and cement retainers



Specification

Casing OD	Casing Weight	Tool OD	
in	Lbs/ft	in	mm
41/2	9.5-16.6	3.593	91.26
5	11.5-21		
51/2	13-23	4.312	109.52
5 3/4	14-26	4.700	119.38
65/8	17-32	5.375	136.53
7	17-35	5.500	139.70
75/8	20-39	6.270	159.26
85/8	24-49	7.125	180.98
95/8	29.3-64.9	8.125	206.38
103/4	32.75-60.7	9.438	239.73
113/4	38-66.7	10.438	265.13
	60-94	9.940	252.48
133/8	48-85	11.880	301.75

NOTE: Additional size, weight, end connection etc. are also available on request

Conventional Cementing Retainers Mechanical Set



Description

Conventional Cementing Retainers are used for squeezing operation, consisted with setting part, anchoring part, sealing part, slide sleeve, etc. The retainer is run with wireline or hydraulic setting tools, after squeezing can be released and retrieved, and recycle use after maintenance.

Features

- ☐ Reliable setting, special hydraulic running tools for solid setting.
- ☐ Accurate running, setting strength controlled by tension bar, to make sure Secure setting
- ☐ Reliable anti-sticking design, built-in grip structure, smooth running in wellbore
- ☐ Special anchoring mechanism, ensure safe setting under up & down pressure
- ☐ Safety releasing mechanism, step by step releasing mechanism

Application

- ☐ Temporary or permanent formation isolation
- ☐ Secondary cementing.

Specification

Model	Tool OD(mm)	Tool Length(mm)	Max. Pressure(Mpa)	Temperature(°C)	Releasing Strength (KN)	Hydraulic Setting Pressure(Mpa)	Casing OD(mm)
QSC-80	80	810	≤50	130	50-100	18-20	86-89
QSC-93	93	893	≤50	130	50-100	18-20	100-102
QSC-100	100	910	≤50	130	50-100	18-20	108.6-112.0
QSC-105	105	647	≤50	130	50-100	18-20	113-115
QSC-110	110	640	≤50	130	50-100	18-20	118.6-121.4
QSC-114	114	640	≤50	130	50-100	18-20	121.4-124.3
QSC-148	148	681	≤35	130	50-100	18-20	154.8—159.4
QSC-150	150	681	≤25	130	50-100	18-20	157.1—162
QSC-210	210	1162	≤15	130	50-100	18-20	222.4—224.4

NOTE: Additional size, weight, end connection etc. are also available on request

Drillable Cementing Retainers Hydraulic Set



Description

Drillable Cementing Retainers (Hydraulic Set) consisted with setting tool, anchoring mechanism and sealing elements, suitable for high pressure squeezing of lower part.

Features

- ☐ One tubing run for setting and squeezing, easy operation, automatic closing after squeezing
- ☐ Open design for stinger and bridge plug, effectively prevent sand fouling blockage, eliminate switch failure
- ☐ Shorter design, suitable for shallow well and horizontal well

Application

- ☐ Temporary or permanent formation isolation
- ☐ Secondary cementing.

Specification

OD (mm)	Suitable casing (mm)	Squeeze Tool ID (mm)	length (mm)	Rated Pressure (MPa)	Rated Temperature (°C)	Release Pressure (Mpa)	Connection
112	118-124	30	1110	70	120	18-20	2-7/8" EU

NOTE: Additional size, weight, end connection etc. are also available on request

Retrievable Cementing Retainers Hydraulic Set



Description

Retrievable Cementing Retainers (Hydraulic Set) consisted with setting tool, anchoring tool and sealing element, suitable for high pressure lower

Features

- ☐ One tubing run for setting and squeezing, easy operation, automatic closing after squeezing
- ☐ Open design for stinger and bridge plug, effectively prevent sand fouling blockage, eliminate switch failure
- ☐ After squeezing or if premature setting, special fishing tool can be run for catch up

Application

- ☐ Temporary or permanent formation isolation
- ☐ Secondary cementing.

Specification

OD (mm)	Suitable casing (mm)	Squeeze Tool ID (mm)	length (mm)	Rated Pressure (MPa)	Rated Temperature (°C)	Release Pressure (Mpa)	Connection
114	118-124	30	1315	70	120	24	2-7/8" EU

NOTE: Additional size, weight, end connection etc. are also available on request

Integrated Cementing Retainers Mechanical Set



Description

Integrated Cementing Retainers (Mechanical Set) are used for secondary cementing operations. These drillable retainers set securely in any hardness casing. A ratchet lock ring stores the setting force in the retainer. The one piece packing element and metal back up rings combine for a superior seal. The case hardened, one piece slips virtually eliminate premature setting, yet can be easily drilled out. They are available for 4 1/2" through 16" casing.

Features

- ☐ Sets securely in most hardness casing
- ☐ Ratchet lock rings secure dynamic setting force
- ☐ One piece packing element and rocker action metal back up rings combine for a superior seal
- ☐ Compact, easy running
- ☐ Pressure balanced sleeve valve is opened and closed by tubing manipulation from the surface for better control
- ☐ Set with Mechanical Setting Tool

Application

- ☐ Temporary or permanent formation isolation
- ☐ Secondary cementing.

Specification

Casing OD	Casing WT	Setting Range Min ID	Setting Range Max ID	Tool OD	Max. Pressure MPa	Max. Temperature °C
4 1/2	9.5-16	3.83	4.09	3.59	70	150
5	11.5-20	4.16	4.56	3.93	70	150
5 1/2	13-23	4.58	5.04	4.31	70	150
5 3/4	14-26	4.89	5.29	4.7	70	150
6 5/8	17-32	5.60	6.14	5.37	70	150
7	17-35	6.00	6.54	5.68	70	150
7 5/8	20-39	6.63	7.13	6.31	70	150
8 5/8	24-49	7.51	8.10	7.12	70	150
9 5/8	29.3-58	8.44	9.06	8.12	70	150
10 3/4	32.75-6	9.66	10.19	9.43	70	150
11 3/4	60-83	10.19	10.77	9.94	70	150
11 3/4	38-60	10.77	11.15	10.43	70	150
13 3/8	48-80.7	12.18	12.72	11.88	70	150
16	65-118	14.58	15.25	14.12	70	150
20	94-133	18.73	19.12	18.37	70	150

NOTE: Additional size, weight, end connection etc. are also available on request

Integrated Cementing Retainers Hydraulic Set



Description

Integrated Cementing Retainers are used for hydraulic setting and worked with stinger seal part, more reliable in running process, avoid premature setting. Compact structure, small ID, easy for drilled out. Suitable for various range of casing size. Ratchet lock rings secure dynamic setting force, One piece packing element and rocker action metal back up rings combine for a superior seal, one piece slips virtually eliminate premature setting.

Features

- Setting with special hydraulic setting tools
- Design for drilled out
- One run completed setting and squeezing
- Apply to high-deviated well, horizontal well and ultra-deep well

Application

- Temporary or permanent formation isolation
- Secondary cementing.

Specification

Cement Retainer Parameters

Type	Suitable Casing (mm)	OD (mm)	Bolt Release Force (t)	Rated Pressure (MPa)	Rated Temperature(°C)
4"	86-90	80	14-16	35	120
5-1/2"	118.6-124.3	110	14-16	35	120
7"	154.8-159.4	148	18-20	25	120

Parameters of Hydraulic Setting Tool

Type	Suitable Casing (mm)	OD (mm)	Boylinderareacm (cm²)	Setting/Release Pressure (MPa)	ID/Squeezing Area (mm/cm²)	Rated Temperature(°C)
4"	86-90	76	45.3	14-18/22-20	18.00/4.0	120
5-1/2"	118.6-124.3	110	95.5	16-18/24-16	19.05/4.0	120
7"	154.8-159.4	148	95.5	18-22/28/-25	28.00/8.0	120

NOTE: Additional size, weight, end connection etc. are also available on request

Retrievable Cementing Retainers Hydraulic Set

Description

Retrievable Cementing Retainers (Hydraulic Set) consisted with squeezing bridge plug, hydraulic setting tool and gnihsfitool. It's reliable in running process, avoid premature setting. Compact structure, small ID, easy for drilled out. Suitable for various range of casing size. Ratchet lock rings secure dynamic setting force, One piece packing element and rocker action metal back up rings combine for a superior seal, one piece slips virtually eliminate premature setting.

Features

- Setting with special hydraulic setting tool
- Design for retrievable after squeezing operation
- One tubing run for setting and squeezing

Application

- Temporary or permanent formation isolation
- Secondary cementing.

Specification

Type	OD (mm)	length(mm)	Rated Pressure (MPa)	Rated Temperature(°C)	Unsel Load(KN)	Suitable casing (mm)
QsC-110	110	1223	50	150	40-60	118.6-124.3
QSC-114	114	1223	50	150	40-60	124.3-127

NOTE: Additional size, weight, end connection etc. are also available on request



RP-MS2 Packer

Retrievable Packer Mechanical Set Single Grip



Description

MS2 Packer is a retrievable, testing, treatment and squeezing packer, which is one of the most used and well known service packers in the industry for over 60 years includes a J-slot mechanism, mechanical slips, packer elements, and hydraulic slips. Large, heavy-duty slips in the hydraulic hold-down mechanism help prevent the tool from being pumped up the hole.

Features

- ☐ Packer can be set and relocated as many times as necessary
- ☐ Full opening design of the packer mandrel bore allows large volumes of fluid to pump through the tool
- ☐ Reliable sealing element system, high duration in operation for up & lower pressure
- ☐ Suitable for various size of Casing

Application

- ☐ Simple, versatile means for testing, treating and squeeze cement operations

Specification

Type	Suitable casing (mm)	Length(mm)	OD(mm)	ID(mm)	Rated Pressure(MPa)	Centralizer OD (mm)	Rated Temperature(°C)	Connection
Y221-80(42)	88.6-90.1	964	80	40	70	90	150	2-3/8"EU
Y221-80	88.0-90.1	941	80	32	50	90	130	2-3/8"EU
Y221-90	96.4-100.7	1115	90	36	50	108	130	2-3/8"EU
Y221-93	100.7-105.4	1115	93	36	50	110	130	2-7/8"EU
Y221-100	108.8-111	1154	100	40	50	118	130	2-7/8"EU
Y221-105	112.6-121.1	1184	105	40	50	118	130	2-7/8"EU
Y221-110	118.2-124.3	1137	110	50	50	131	130	2-7/8"EU
Y221-112	121.1-124.3	1141	112	52	50	130	130	2-7/8"EU
Y221-114	121.1-127.1	1152	114	52	50	134	130	2-7/8"EU
Y221-148	157.1-164.2	1322	148	60	50	174	130	2-7/8"EU
Y221-210	222.4-224.4	1987	210	76	30	232	130	3-1/2"EU

NOTE: Additional size, weight, end connection etc. are also available on request

RP-MS1 Packer

Retrievable Packer Mechanical Set Single Grip



Description

RP-MS1 non-rotational packer is ideal for deepwater, extended-reach situations where getting enough torque downhole to manipulate the tool string can be a major challenge. It is made up of a hookwall retrievable packer with a concentric bypass and a continuous indexing J-slot. Each assembly includes an indexing J-slot mechanism, mechanical slips, packer elements, hydraulic slips, and a concentric bypass.

Features

- ☐ Easily operated in extended-reach or highly-deviated wellbores
- ☐ No rotation required to set the packer
- ☐ Locked in the "run in hole" position until the hydrostatic pressure at a predetermined depth is reached or annulus pressure is applied
- ☐ Easily relocated to multiple zones during a single-trip for treating, testing, or squeezing

Application

- ☐ Ideal For Deepwater, Extended-reach Applications
- ☐ Coiled tubing horizontal well multi-stage fracturing

Specification

Type	Suitable casing (mm)	Length(mm)	OD(mm)	ID(mm)	Lower Differential pressure(MPa)	Setting Load KN	Rated Temperature(°C)	Connection
Y211-80	88.6-90.1	1510	80	32	70	100-160	150	2-3/8"EU
Y211-102	108.8-111	2086	102	40	50	100-160	130	2-3/8"EU
Y211-112	121-124.3	2109	112	48	50	100-160	130	2-3/8"EU
Y211-114	121-127.3	2109	114	48	50	100-160	130	2-7/8"EU
Y211-148	157.1-164.2	1667	148	58	50	100-160	130	2-7/8"EU

NOTE: Additional size, weight, end connection etc. are also available on request

RP-MS-0 Packer

Retrievable Packer Mechanical Set



Description

RP-MS-0 Retrievable Packer is setting with support of lower packer or liner, and pull up to release, it's usually used together with retrievable mechanical packer, mainly used for production, treatment, etc.

Features

- ☐ HTHP durable
- ☐ Also used in combination with anchor,
- ☐ Repeated setting, easy operation.

Application

- ☐ Production, treatment, etc

Specification

Type	Suitable casing (mm)	Length(mm)	OD(mm)	ID(mm)	Lower Differential pressure(MPa)	Rated Temperature(°C)	SettingForce (T)	Connection
Y111-80	88.6-90.1	614	80	32	50	130	9-11	2-3/8"EU
Y111-105	112.6-121.1	708	105	40	50	130	9-11	2-7/8"EU
Y111-110	118.2-124.3	680	110	50	50	130	9-11	2-7/8"EU
Y111-112	121.1-124.3	778	117	52	50	130	9-11	2-7/8"EU
Y111-114	121.1-127.3	778	114	61	50	130	9-11	2-7/8"EU
Y111-148	161.7-162.9	705	148	62	50	130	9-11	2-7/8"EU

NOTE: Additional size, weight, end connection etc. are also available on request

RP-HD Packer

Permanent Bridge Plug Hydraulic Set Double Grips



Description

PB-HD Packer Wireline-Set Permanent Packer is designed to set in the well casing to divert casing-to-tubing flow. It is either hydraulically set with the hydraulic setting tool with tubing string pressure or the E-line setting tool. The packer is mechanically moved and locked in the set position by the internal slip. An external set of opposing slips holds the packer against downward and upward forces. The removal of packer is by drill or milled out. The packer is designed with a left hand seal bore compatible with nipple seal assemblies and the bottom sub thread is compatible with a mill-out extension or with a seal bore extension. The Packer is designed to be milled if removal from the wellbore required. Firstly remove the nipple seal nipple from packer by tubing string, right-hand rotation with tension on the tubing to disengage the Sur-Latch from the packer head.

Features

- ☐ Field proved reliable, Economical, Simple to operation
- ☐ Wireline and Hydraulic setting tools set
- ☐ Full seal bore ID through the packer
- ☐ Milled if removal
- ☐ Protected from pre-setting when run in hole

Application

- ☐ Sand control
- ☐ Horizontal completion assemblies
- ☐ Hanger packer in frac and stimulation jobs
- ☐ Production and injection sealbore packer

Specification

Technical Data							
Casing Size		Casing Weight		Packer OD		Packer ID	
in.	mm	lb/ft	kg/m	in.	mm	in.	mm
5 1/2	139.70	13-20	19.34-29.76	4.55	115.57	2.75	69.85
		23-26	34.22-38.69	4.36	110.74	2.75	69.85
7	177.80	23-32	34.22-47.62	5.87	149.19	3.88	98.55
		32-38	47.62-56.55	5.69	144.45	3.88	98.55
7 5/8	193.7	26.4-39	39.29-58.04	6.37	161.92	3.88	98.55
		45.3-47.1	67.41-70.09	6.18	156.97	3.88	98.55
9 5/8	244.48	36-53.5	53.57-79.62	8.25	209.58	5.00	127.00

NOTE: Additional size, weight, end connection etc. are also available on request

RP-HD Packer

Retrievable Bridge Plug Hydraulic Set Double Grips



Description

RB-HD Packer adopts bi-directional slip, stable and reliably. Apply for casing well to bottom layer plugging and selected layer fracturing.

Features

- ☐ Bi-directional slip system prevent movement during higher pressure operations
- ☐ High pressure and high temperature resistance
- ☐ Easy operation, hydraulic setting, special fishing tool for pull up releasing
- ☐ Well cleanout and reverse cleanout design in running process

Application

- ☐ Cementing isolation, fracturing & acidizing

Specification

Type	Suitable casing (mm)	Length(mm)	OD(mm)	Rated pressure(MPa)	Rated Temperature(°C)	Unsel Load Kn	Fishing head thread standard
Y445-110	121.1-124.3	110	1192	50	120	20-60	M42X3
Y445-114	124.3-127.3	114	1192	50	120	20-60	M42X3
Y445-148	157.1-161.7	148	1227	50	120	30-60	M50X3

NOTE: Additional size, weight, end connection etc. are also available on request

RP-H1 Packer

Isolation Packer Hydraulic & Lock Set



Description

RP-H1 Isolation Packer is a hydraulic set, single string tandem packer used in multiple zone wells. It is used as the upper packer in multiple zone applications. Isolation Packer run above another hydraulic retrievable packer to isolate a zone between them for treatment, injection, or production. The field-proven isolation packer can also isolate casing holes or perforations. The simple design and straight tubing-pull release make the packer a cost-effective tool to isolate zones in low pressure applications.

Features

- ☐ Economical Design.
 - ☐ The straight-pull, shear-release pins are unaffected by differential pressure, enabling easy changes to the release force before running.
 - ☐ The compact design eases passage through doglegs and deviated wells to help prevent sticking and improve running efficiency.
- The hydraulic setting avoids the need to rotate the work string in running or retrieving the packer, which simplifies procedures, improves efficiency, and saves rig time.

Application

- ☐ Treatment, injection, or production

Specification

Type	Suitable casing (mm)	Length(mm)	OD(mm)	ID(mm)	Lower Differential pressure(MPa)	Rated Temperature(°C)	Connection
Y341-80	88.6-90.1	614	80	42	50	130	2-7/8"EU
Y341-110	118.2-124.3	1207	110	48	50	130	2-7/8"EU
Y341-114	1211-127.3	1245	114	50	50	130	2-7/8"EU
Y341-148	157.1-164.2	1760	148	70	50	130	2-7/8"EU

NOTE: Additional size, weight, end connection etc. are also available on request

RP-H4 Packer

Retrievable Packer Mechanical Set



Description

RP-H4 open hole packer is designed to be run in both cased and open hole applications in both vertical and horizontal wells for multi-stage frac application. The Isolation Packer is a non-anchoring packer, so it can be used together with the Anchor which incorporates a one piece bi-directional slip system in order to help prevent movement during higher pressure operations whereby. It can be ran as a single zone application packer or ran in conjunction with several packers in a multiple zone completion.

Features

- ☐ Three element ensure sealing, pressure rating up to 10,000PSI
- ☐ Outer components locked to prevent pre-set
- ☐ Field adjustable setting / shear pressure
- ☐ Designed for cased hole or open hole

Application

- ☐ Injection, fracturing and acidizing
- ☐ Combination with constant pressure Var for channeling or leaking point search

Specification

Type	Suitable casing (mm)	Length(mm)	OD(mm)	ID(mm)	Lower Differential pressure(MPa)	Rated Temperature(°C)	SettingForce (T)	Connection
Y344-110	88.6-90.1	614	80	32	50	130	9-11	2-3/8"EU
Y344-115	112.6-121.1	708	105	40	50	130	9-11	2-7/8"EU

NOTE: Additional size, weight, end connection etc. are also available on request

RP-HD Packer

Retrievable Packer Hydraulic Set Double Grips



RP-HS Packer

Retrievable Packer Hydraulic Set Single Grip



Description

The RP-HD Packer is a hydraulic set packer that can be run in single or multiple zone installations. It is highly recommended for deviated wells where conditions are not suitable for mechanical or wireline set packers. No tubing movement is required or generated in order to set the packer. Packer design features bi-directional, one piece slips located below a three element packing system consisting of dual durometer rubber elements.

Features

- ☐ No tubing movement is required for setting the Packer.
- ☐ Two or more packers can be set together or in any desired sequence.
- ☐ Bi-directional slips to arrest movement of packer once it has been set.
- ☐ Two balanced pistons are utilized during the setting of the Packer.
- ☐ The packer could be released with straight pull or by rotation.

Application

- ☐ Treatment, injection, or production for deviated wells or directional wells

Specification

Type	Suitable casing (mm)	Length(mm)	OD(mm)	ID(mm)	Rated pressure(MPa)	Rated Temperature(°C)	Setting pressure(MPa)	Connection
Y441-80	88.6-90.1	1403	80	25	50	130	16-20	2-3/8"EU
Y441-110	118.2-124.3	1551	110	45	50	130	16-20	2-7/8"EU
Y441-114	121.1-127.3	1551	114	48	50	130	16-20	2-7/8"EU
Y441-150	157.1-164.2	1594	150	62	50	130	16-20	2-7/8"EU

NOTE: Additional size, weight, end connection etc. are also available on request

Description

The RP-HS Packer is used in production, injection and zonal isolation. It can be run in single or multiple zone installations. It is recommended for deviated wells where conditions are not suitable for mechanical or wireline set packers. No tubing movement is required or generated to set the packer. Once set, the packer is locked in place by one-piece no-directional slips. The packer can be released by straight pull. They are available in 4 1/2 through 95/8" casing.

Features

- ☐ Hydraulically activated, hydrostatic set
- ☐ Built-in unloader and bypass
- ☐ Packoff is mechanically locked and constantly reinforced by hydrostatic pressure
- ☐ Triple seal multi-durometer elements
- ☐ No Mandrel movement during setting allows stacked packer applications
- Straight pull release

Application

- ☐ Deviated well fracturing, acidizing, testing and production

Specification

Type	Suitable casing (mm)	Length(mm)	OD(mm)	ID(mm)	Rated pressure(MPa)	Rated Temperature(°C)	Setting pressure(MPa)	Connection
Y241-80	88.6-90.1	962	80	30	50	130	16-20	2-3/8"EU
Y241-112	121.1-124.3	1306	112	50	50	130	16-20	2-7/8"EU
Y241-114	121.1-127.3	1182	114	62	50	130	16-20	2-7/8"EU
Y241-148	157.1-164.2	1700	148	62	50	130	16-20	2-7/8"EU

NOTE: Additional size, weight, end connection etc. are also available on request

RP-HA Packer

Retrievable Packer Hydraulic Anchor Set



Description

RP-HA Packer is self-setting by hydraulic pressure and support by anchoring system, it contains reverse injection clean function, which allow cycling clean for well bore, the high pressure, the better sealing effect, it also withstand for high temperature, big inner diameter allow bigger displacement, it's reliable and stable performance.

Features

- Self-setting by hydraulic pressure, reliable withstand for up and lower pressure
- Built-in pressure relief and bypass device
- Mechanical setting and locking, annular pressure enhanced seal
- No Mandrel movement during setting

Application

- Deviated well workover, fracturing, acidizing, testing squeezing, etc.

Specification

Type	Length(mm)	OD(mm)	ID(mm)	Rated pressure(MPa)	Rated Temperature(°C)	Connection
Y531-81/36-120/50	1150	81	36	50	120	2-3/8" EU
Y531-103/45-120/50	1150	103	45	50	120	2-7/8" EU
Y531-111/55-120/50	1250	111	55	50	120	2-7/8" EU
Y531-115/58-120/50	1250	115	58	50	120	2-7/8" EU
Y531-148/62-120/50	1250	148	62	50	120	3-1/2" NU
Y531-166/76-120/50	1250	166	76	50	120	3-1/2" NU
Y531-211/76-120/50	1250	211	76	50	120	3-1/2" NU

NOTE: Additional size, weight, end connection etc. are also available on request

RP-HA/S Packer

Retrievable Packer Hydraulic Set



Description

RP-HA/S is designed for production, injection, and formation isolation, it can be used as single or multiple, especially for deviated well horizontal well, it's setting without string moving tubing. After setting, the packer will be locked by lower grip slips and the anchoring, this design allow the packer more reliable stable for up and lower pressure. It's releasing by pull up tubing and suitable for various range of casing size from 4 1/2" to 9 5/8"

Features

- Self-setting by hydraulic pressure, reliable withstand for up and lower pressure
- Built-in pressure relief and bypass device
- Mechanical setting and locking, annular pressure enhanced seal
- No Mandrel movement during setting

Application

- Deviated well production, injection, and formation isolation, etc.

Specification

Type	Length(mm)	OD(mm)	ID(mm)	Rated pressure(MPa)	Rated Temperature(°C)	Connection
Y541-81/36-120/50	1150	81	36	50	120	2-3/8" EU
Y541-103/45-120/50	1150	103	45	50	120	2-7/8" EU
Y541-111/55-120/50	1250	111	55	50	120	2-7/8" EU
Y541-115/58-120/50	1250	115	58	50	120	2-7/8" EU
Y541-148/62-120/50	1250	148	62	50	120	3-1/2" NU
Y541-166/76-120/50	1250	166	76	50	120	3-1/2" NU
Y541-211/76-120/50	1250	211	76	50	120	3-1/2" NU

NOTE: Additional size, weight, end connection etc. are also available on request

RP-Ex4 Packer

Retrievable Expansion Packer



Description

PR-Ex4 Expansion Packer is a type of packer that uses an inflatable bladder to expand the packer element against the casing or wellbore. With the hydraulic pressure required to inflate the packer provided by carefully applying surface pump pressure. These packers are capable of relatively large expansion ratios, an important factor in through-tubing work where the tubing size or completion components can impose a significant size restriction on devices designed to set in the casing or liner below the tubing. It's usually used together with water distributor to make the injection string.

Features

- ☐ No expansion in process of wellbore clean, big displacement
- ☐ Totally releasing when pressure up from casing
- ☐ Small size, effective prevent sticking or stuck.

Application

- ☐ Staged injection, acidizing, squeezing, fracturing, etc.

Specification

Type	Suitable Casing (mm)	Length(mm)	OD(mm)	ID(mm)	Rated pressure(MPa)	Rated Temperature(°C)	Connection
K344-110	121.1-124.3	1320	110	60	70	120	2-3/8" EU
K344-115	121.1-127.3	1280	115	60	70	120	2-7/8" EU

NOTE: Additional size, weight, end connection etc. are also available on request

RP-Ex1 Packer

Retrievable Expansion Packer Lock Set



Description

PR-Ex1 is designed for staged injection, setting base on tubing pressure, independent sealing element, even suitable for small deformed casing. It has reverse clean function, pull up to release the packer.

Features

- ☐ Dependent sealing element design, reliable and long section of sealing system
- ☐ Radial expansion, high elastic ratio;
- ☐ The one-way flow structure is sealed reliably
- ☐ Dependent reserve well clean bypass design

Application

- ☐ Staged injection, acidizing, squeezing, fracturing, etc.
- ☐ Open hole well test

Specification

Type	Suitable casing (mm)	Length(mm)	OD(mm)	ID(mm)	Setting pressure(MPa)	Rated pressure(Mpa)	Rated Temperature(°C)	Connection
k341-56	62-72	2280	56	16	>2	15	150	1-1/2TBG
k341-70	76-89	2280	70	28	>2	25	150	2-3/8"EU
k341-75	89-95	2280	75	30	>2	40	150	2-3/8"EU
k341-80	95-110	2280	80	36	>2	50	150	2-3/8"EU
k341-90	99-108	1980	90	36	>2	50	150	2-3/8"EU
k341-100	108-128	2300	100	46	>2	50	150	2-3/8"EU
k341-105	114-128	2040	105	46	>2	70	150	2-7/8"EU
k341-110	118-128	2040	110	55	>2	70	150	2-7/8"EU
k341-114	122-130	2040	114	55	>2	70	150	2-7/8"EU
k341-120	130-150	2040	120	55	>2	70	150	2-7/8"EU
k341-138	150-165	2040	138	55	>2	55	150	2-7/8"EU
k341-142	155-165	2500	142	55	>2	55	150	2-7/8"EU
k341-160	165-185	2500	160	55	>2	45	150	2-7/8"EU
k341-178	185-220	2500	178	55	>2	35	150	2-7/8"EU
k341-196	220-255	2550	196	55	>2	40	150	2-7/8"EU
k341-245	255-260	2580	245	55	>2	40	150	NC38

NOTE: Additional size, weight, end connection etc. are also available on request

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