



2022 - 2023

**PACKER
SYSTEM
BRIDGE PLUG &
CEMENT RETAINER**

PRODUCT
CATALOGUE



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WELLCARE

Quality Solutions for
Down-Hole Tools

OIL TOOLS



Quality Solutions for
Down-Hole Tools

OIL TOOLS



WELLCARE OIL TOOLS
Quality Solutions for Down-Hole Tools

CORPORATE PROFILE

Wellcare Oil Tools Private Limited, a privately held company is engaged in Design, Manufacturing, and supply of a comprehensive range of highest quality Downhole Drilling & Production Oil Tools for the Oil & Gas Industry comprising Hydraulic/ Mechanical Set, Rotating & Non-rotating Liner Hangers, Mechanical & Hydraulic Permanent & Retrievable Seal Bore / ERD Packers & Accessories, Float Shoes & Collars, Stage Cementing Collars, Wireline set & Retrievable Bridge Plugs, Cement Retainers, Milling & Retrieving Tools, Cementing Heads, Centralizers and Stop Collars, located at **F-209/210, IID, RIICO Industrial Area, Khuskhera, Alwar, Rajasthan, India.**

Wellcare Oil Tools Private Limited is an ISO-9001, ISO-14001 and OHSAS-18001 certified company.

The company has all the quality systems in place for design, planning, manufacturing and quality monitoring & traceability to ensure that WELLCARE products match the highest quality & reliability Standards similar to any International major in this field. A well-established Quality System from Materials receipt to Products delivery ensures consistent quality at all levels of the activity. The required inspection and test facilities are installed in the house. The company complies with all the legal, statutory and regulatory requirements.

The facility is equipped with the latest machining facilities like CNC 3-axis Turning centers, CNC 4-axis milling center, Center Lathe Machines, Deep Hole Drilling, Boring & Honing Machines enabling the Company to meet its production target. Design Department is equipped with CAD and Pro-E facilities and has on rolls qualified & experienced engineers and has been engaged in the development of new products as required in the market place.

WELLCARE has furnished Downhole tools in several metallurgical configurations for service in different geologies, indigenous as well as international Companies. WELLCARE offers services of qualified and experienced engineers for customer training, running & redressing of it's manufactured & supplied products in On-Shore and Off-Shore Oil & Gas Wells.

With continuous improvement in the field of Downhole tool equipment and consistent efforts over the decade, manufacturing of heavy duty products and its testing equipments is possible today. As a result of expansion, we started another division of WELLCARE named **"Wellcare Oil Tools Unit-II Pvt. Ltd."**

In addition to the two dedicated manufacturing facilities a separate facility in the name of **Wellcare Downhole Tools Pvt. Ltd.** Is established for the production of elastomers, seals and centralizers. All industry standard grades of elastomers are being manufactured in house at Wellcare Downhole Tools Pvt. Ltd.



WELLCARE OIL TOOLS
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CORPORATE PROFILE

Wellcare Oil Tools Unit-II Pvt. Ltd. is an ISO-9001, ISO-14001 and OHSAS-18001 certified company and we have ISO integrated Quality Management System, located at **G-169, 170, 171 Karoli Industrial Area, RIICO, Alwar, Rajasthan, India – 301707**

Wellcare Oil Tools Unit-II is committed for, consistent development of challenging technologies solutions that help our clients with their direct involvement, feedback and association, through an extensive research and development (R&D) investment, to maximize the value of their oil and gas assets, moreover timely supply of Quality Products & Services at a reasonable price.

These objectives are achieved through a commitment of understanding and applying defined business processes, complying with established standards and implementing continual improvements.

We expanded Wellcare's infrastructure so that we can complete the industry and customer requirements. With time Wellcare Unit-II has established advanced and latest manufacturing facilities that are equipped with customized machines.

We also have in house test well facility which is equipped with:

- **50 feet deep vertical well**
- **Casing size range from 2-7/8" to 13-3/8"**
- **Temperature Range: Upto 500 deg. F**
- **Accustomed to carry pressure test up to 15,000 PSI**
- **SCADA control panel for testing and reports**
- **Capable for V6 to V0 validation testing**
- **Maximum Load: 250 Tons**
- **Real time graphs are prepared including pressure, temperature and load**

Wellcare Downhole Tool Pvt. Ltd. is dedicatedly engaged in the manufacturing of elastomer products and centralizer. We also manufacture customized dies to maintain high end capacity of elastomer. Wellcare Downhole Tool is manufacturing one of the best quality elastomers.

Wellcare Downhole Tool Polymer Engineering has been supplying high performance seals, o-rings and custom molded rubber components. Our specialized elastomer grades are tailored to provide high sealing efficiency for systems operating in the most inhospitable environments in the world, resistant to explosive decompression, sour gas, extreme temperatures, aggressive chemicals etc.

CAPABILITIES



Quality Solutions for Down-Hole Tools OIL TOOLS



PRODUCTION AREA

CNC MACHINING CENTER



ASSEMBLY AREA

CAPABILITIES



THREAD INSPECTION

TORQUE MACHINE CENTRALIZER TESTING



ENGINEERING DESIGN

CAPABILITIES



TEST WELL
15,000 PSI

THREAD GAUGE
CALIBRATION



FIELD
PREPARATION

CAPABILITIES



NDT LABORATORY FACILITIES

TRAINING



RAW MATERIAL YARD

FACILITY



Wellcare Oil Tools

F-209/210, IID, RIICO Industrial Area,
Khuskhera, Alwar, Rajasthan, India.

Wellcare Oil Tools Unit-II

G-169, 170, 171 Karoli Industrial Area,
RIICO, Alwar, Rajasthan, India.



Wellcare Downhole Tools

G-174 Karoli Industrial Area,
RIICO, Alwar, Rajasthan, India.

HYDRAULIC PACKER SYSTEM

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74	WC-WSRP	WIRE LINE SET RETRIEVABLE SEAL BORE PACKER
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77	WC-WSSDP WC-WSDDP	WIRE LINE SET SINGLE & DOUBLE SEAL BORE DRILLABLE PACKER
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83	WC-HSSDP WC-HSDDP	HYDRAULIC SET SINGLE / DOUBLE / LARGE SEAL BORE DRILLABLE PACKER
86	WC-FAB	RETAINER PRODUCTION PACKER

ACCESSORY | PACKER SYSTEM

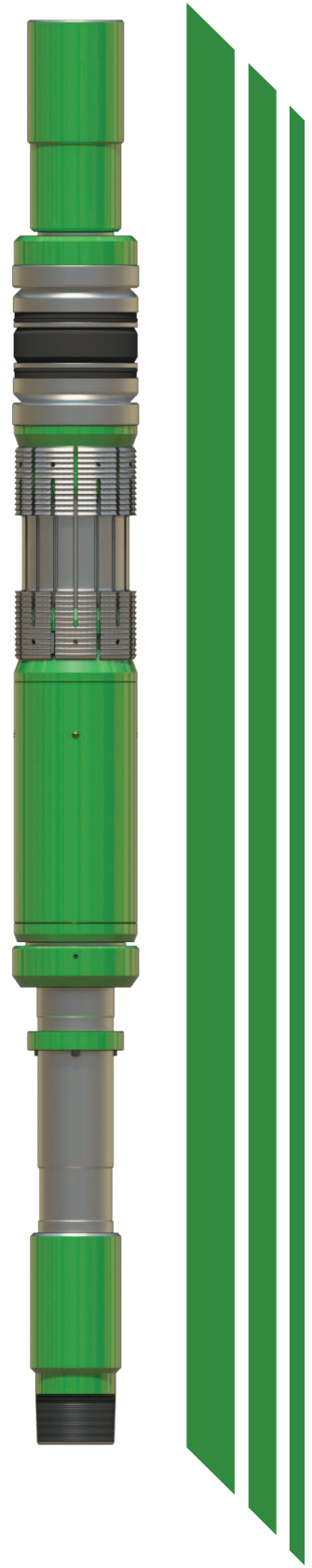
88	WC-HTS	HYDRO TRIP PRESSURE SUB
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90	WC-POP-A / POP-H	AUTO FILL PUMP OUT PLUG / PUMP OUT PLUG WITH HALF MULE
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103	WC-LTSA LTSA-AO	LOCATOR TUBING SEAL ASSEMBLY
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106	WC-FC / BJ	FLOW COUPLING / BLAST JOINT
106	WC-MOE	MILL-OUT EXTENSION
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124	WC-WLRBP	WIRE LINE SET RETRIEVABLE BRIDGE PLUG
127	WC-MSRBP	MECHANICAL SET RETRIEVABLE BRIDGE PLUG
129	WC-HMBP	HYDRO MECHANICAL BRIDGE PLUG
131	WC-WAKDB	WIRELINE ADAPTER KIT (FOR DRILLABLE)
132	WC-WAKB	WIRELINE ADAPTER KIT (FOR RETRIEVABLE)
133	WC-SSB	SNAP LATCH STRINGER SUB
134	WC-CU	CONTROL UNIT
135	WC-SLST	SNAP LATCH SETTING TOOL
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138	WC-RTRB-W	WIRELINE RETRIEVING TOOL FOR RETRIEVABLE BRIDGE PLUG
139	WC-RTMRB	RETRIEVING TOOL FOR MECHANICAL SET RETRIEVABLE BRIDGE PLUG

PERMANENT PACKER SELECTION CHART				
Product Application	Single Bore	Double Bore	Setting Method	
			Wireline/ Hydraulic Setting Tool	Hydraulic
WC-FAB		x	x	
WC-WSSDP, WC-WLSDP	x		x	
WC-WSDDP, WC-WLDDP		x	x	
WC-HSSDP	x			x
WC-HSDDP & WC-HSDDPL		x		x

PACKER SYSTEM & ACCESSORIES



HYDRAULIC SET RETRIEVABLE PRODUCTION PACKER

OVERVIEW

The **Wellcare Model WC-HP-1** is an industry standard, hydrostatic set, Double-Grip and shear release single string retrievable packer. The packer is hydraulically activated by applying tubing pressure against underneath plugging device. The packer requires straight pull or rotation to release.

WC-HPL-1 is the large bore version of the WC-HP-1 packer. Features, advantages and operational procedures are the same as those for WC-HP-1 packer.

FEATURES & BENEFITS

- **No Tubing Manipulation Required.** The setting mechanism of this packer is triggered with pump pressure. The packer can be set after the well is flanged up and the tubing is displaced.
- **Hydraulic Set for Low Hydrostatic Head Wells.** The 'WC-HP1' Hydrostatic Packer can be set by tubing pressure alone at any depth. However hydrostatic pressure also helps in setting the packer
- **Setting Mechanism.** The design of the setting Mechanism ensures sustained pack-off force throughout the life of the packer. This tool does not depend on trapped hydraulic pressure, but mechanically locks initial setting forces into the Packing Elements. Any additional bottom hole pressure Or mechanical load due to tubing expansion is transmitted as additional pack-off force Reduction of bottom hole pressure or tubing contraction, however, does not diminish the initial setting force.
- **Multiple** Packing Element System.
- **Hydraulic Hold-Down.** The Pistons of the Hydraulic Hold-Down are protected against dulling while running in the hole by Restraining Pins installed inside the Piston Springs. After the tool is set, the Restraining Pins shear, allowing the Pistons to bite into the casing before pressure differential from below is sufficient to move the packer.
- **No Mandrel Movement after Setting.** All downward movement of the Receptacle with respect of the tubing, and all upward movement at the tubing with respect to the Receptacle during setting are trapped in the Body Lock Ring. Once set, the packer will withstand slack off or up strain (within the limits of the shear value selected). All



slack-off goes into the Packing Elements, whereas all up strain goes through the Shear Ring (or Shear Nut) to the Slip Ring and Slips to the casing.

• **Optional Rotational Release.** An optional right-hand rotational release with a safety shear value of 50,000 lbs.

Application

This packer can be used in the following applications: production, injection, and zonal isolation; single-string selective completions or dual-string completions with multiple packers; deviated wells or other applications when rotation for installation or removal is not beneficial; when it is beneficial to displace and set packers after the well is flanged up; when testing the tubing string before packer setting or to independently set and test individual packers in multiple-packer completions is beneficial.

HYDRAULIC SET RETRIEVABLE PRODUCTION PACKER

SPECIFICATION GUIDE (WC-HP-1)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
5	11.5-15	4.408	4.560	4.250	1.995	2 3/8, 4.7 PPF EU	7,500	V3
	15-18	4.276	4.408	4.125				
5 1/2	13-15.5	4.950	5.038	4.781	1.995	2 3/8, 4.7 PPF EU	7,500	V3
	14-20	4.778	5.012	4.641				
	20-23	4.670	4.778	4.500				
7	20-26	6.276	6.456	6.078	2.441	2 7/8, 6.5 PPF EU	10,000	V3
	26-29	6.184	6.276	5.968				
	32-35	6.004	6.094	5.812				
9 5/8	29.3-36	8.921	9.063	8.593	2.992	3 1/2, 9.3 PPF EU	7,500	V3
	40-47	8.681	8.835	8.437				
	47-53.5	8.535	8.681	8.281				

Packer is drifted with the corresponding API tubing drift size.

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

NOTE: Wellcare model WC-HP-1 are also available in V0 validation grade.

HYDRAULIC SET RETRIEVABLE PRODUCTION PACKER (LARGE BORE)
SPECIFICATION GUIDE (WC-HPL-1)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
7	20-26	6.276	6.456	6.078	2.992	3 1/2, 9.3 PPF EU	10,000	V3
	26-32	6.094	6.276	5.968				
	32-35	6.004	6.094	5.812				
9 5/8	29.3-36	8.921	9.063	8.593	3.958	4 1/2, 12.75 PPF EU	7,500	V3
	40-47	8.681	8.835	8.437				
	47-53.5	8.535	8.681	8.218				

Packer is drifted with the corresponding API tubing drift size.

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

NOTE: Wellcare model WC-HPL-1 are also available in V0 validation grade.



For more information, contact **Wellcare** representative or visit us at www.wellcareoiltools.com

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WELLCARE OIL TOOLS

ISOLATION PACKER

OVERVIEW

The **Wellcare Model WC-HP-2** 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 & BENEFITS

- 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

- Low-pressure wells.
- Stacked applications.
- Applications prohibiting tubing rotation.
- Isolation of casing holes and perforations.



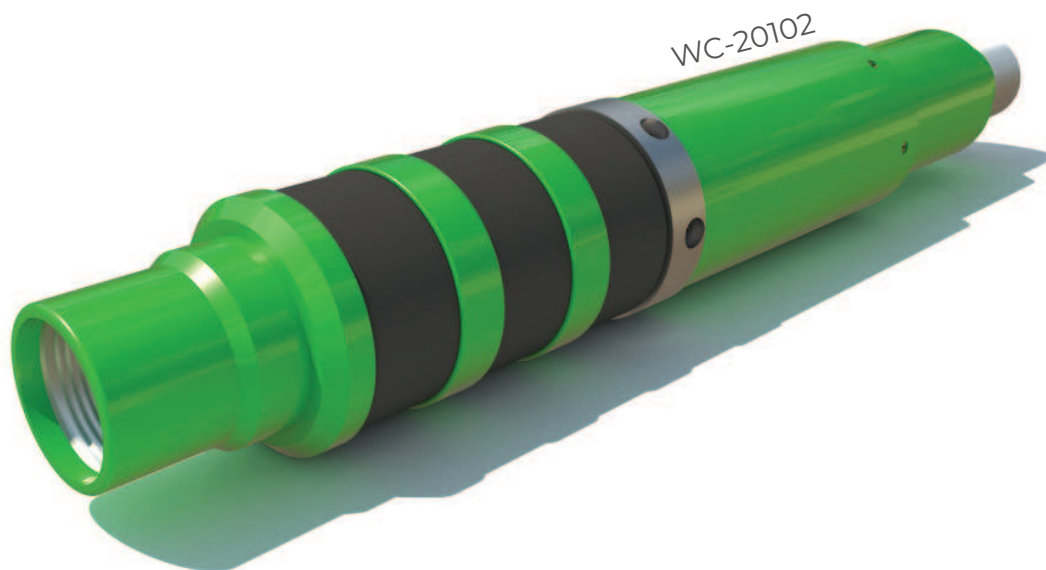
ISOLATION PACKER

SPECIFICATION GUIDE (WC-HP-2)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
5 1/2	13-20	4.778	5.038	4.641	1.995 /	2 3/8, 4.7 PPF EU / 2 7/8, 6.5 PPF EU	3,000	V3
	20-23	4.670	4.778	4.500	2.441			
7	17-26	6.276	6.530	6.110	2.441	2 7/8, 6.5 PPF EU	3,000	V3

Packer is drifted with the corresponding API tubing drift size.

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



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WELLCARE OIL TOOLS

HYDRAULIC SET HIGH ANGLE PRODUCTION PACKER

OVERVIEW

The **Wellcare Model WC-HP-3** 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. This allows the well to be kept positively controlled at all times because the tubing is landed and the wellhead installed before circulating or displacing well fluids prior to setting the packer. Two or more packers can be set either at once or in any desired sequence. Packer design features bi-directional, one piece slips located below a three element packing system consisting of dual durometer rubber elements. The slips are fully enclosed in a shear pinned slip housing which in turn is protected by a full diameter guide located below the slip housing. Two balanced pistons are utilized during the setting process. The lower piston moves down to set and anchor the slips while the upper piston moves upward to compress the packing. This action imparts the total setting force to both slips and packing thus assuring a positive anchor and pack-off. The pack-off is retained by a single ratchet ring that locks in and stores the setting force applied to both the slips and packing elements.

This packer incorporates two methods of release, straight pull or rotation. Both methods are contained in the same releasing nut which is located at the upper end of the packer. Straight pull release is accomplished by shearing retaining screws of a pre-determined quantity which frees the tubing. Rotation release is accomplished by approximately eight right hand turns of the tubing which also frees the packer. Straight pull then is applied to completely relax the packer for retrieval. An equalizing valve is also located in the releasing section. The positive acting valve is automatically opened during the releasing procedure to equalize pressures and allow circulation between the annulus and tubing. In addition, a large diameter fluid by-pass is located inside the packing mandrel which allows fluid passage for rapid retrieving while reducing element swabbing.

FEATURES & BENEFITS

- No tubing movement is required for setting the Packer. This allows the well to be kept positively controlled at all the times.
- 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.
- It has three elements with hardness according to well conditions.



- Setting and packing are achieved by generating pressure inside the tubing, by using a device that allows keeping certain pressure during the process.
- Premature set has been blocked by an integral lock nut.
- In production wells where it is necessary to recover the tubing without moving the packer, an On-Off tool (Left disconnection) can be added.
- Simple rotation release system.
- A post-released lock system that allows the tool, totally equalized, to be perfectly moved upwards or downwards indistinctively, once it has been released.
- High Pressure rating up to 7,500 psi differential with low repair and redress cost.
- It is made from material with mechanical properties higher than N80 materials and as per customer's requirements and demand.

Application

- Injection & Production.
- Fracturing
- Single or multiple zone isolation.
- Deviated well where conditions are not suitable for mechanical or wireline set packers.

HYDRAULIC SET HIGH ANGLE PRODUCTION PACKER

SPECIFICATION GUIDE (WC-HP-3)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
5 1/2	13-15.5	4.950	5.038	4.781	1.995	2 3/8, 4.7 PPF EU	7,500	V3
	14-20	4.778	5.012	4.641				
	20-23	4.670	4.778	4.500				
6 5/8	20-24	5.921	6.049	5.750	2.441	2 7/8, 6.5 PPF EU	7,500	V3
	28-32	5.675	5.791	5.500				
7	20-26	6.276	6.456	6.078	2.441	2 7/8, 6.5 PPF EU	7,500	V3
	29-32	6.094	6.184	5.891				
9 5/8	43.5-53.5	8.535	8.755	8.250	2.992	3 1/2, 9.3 PPF EU	7,500	V3

Packer is drifted with the corresponding API tubing drift size.

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

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WELLCARE OIL TOOLS

HYDRAULIC SET LARGE BORE PRODUCTION PACKER

OVERVIEW

The **Wellcare Model WC-HPL-4** Retrievable Packer is hydraulic set, large bore double grip Packer, used for Production, zone isolation, multiple string completions and for stimulation.

The Setting starts on application of pump pressure to the tubing. The "WC-HPL-4" sets and packs off due to the force applied by tubing pressures. The design of the setting mechanism ensures sustained pack-off force throughout the life of the Packer. Opposed Double Grip slips prevent movement of the Packer in either direction due to pressure differentials, while allowing landing of the tubing in tension, compression, or neutral.

The standard model "WC-HPL-4" Packer is equipped with Shear Screws for a straight pickup release. The Packer is suitable for maximum **5,000 psi** differential pressure.

FEATURES & BENEFITS

- **Large Flow Path ID:** 2.441" ID for 5 1/2" Size.
- **No Tubing movement** for packer setting allows well to be kept positively controlled at all the times.
- **Two or more packers** to be set together in any desired sequence.
- **Bi-Directional** slips to arrest upward & downward movement.
- **High performance** triple seal multidurometer element package.
- **Straight pull** release.
- **No Premature setting** of packer, blocked by an integral lock nut.



WC-20103

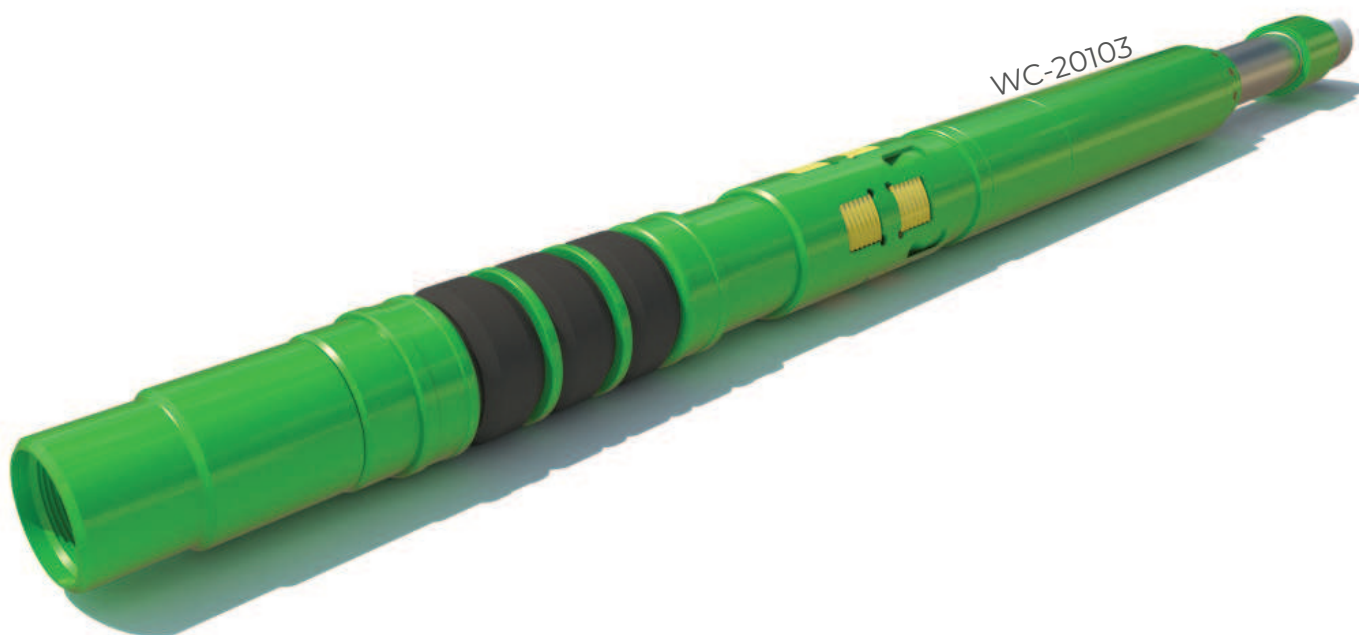
HYDRAULIC SET LARGE BORE PRODUCTION PACKER

SPECIFICATION GUIDE (WC-HPL-4)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
5 1/2	13-15.5	4.950	5.038	4.781	2.441	2 7/8, 6.5 PPF EU	5,000	V3
	15.5-20	4.778	4.950	4.656				
	20-23	4.670	4.778	4.540				

Packer is drifted with the corresponding API tubing drift size.

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



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WELLCARE OIL TOOLS

HYDRAULIC SET PRODUCTION PACKER

OVERVIEW

The **Wellcare Model WC-HP-5** Packer is a hydraulically set, mechanically held pressure-balanced packer ideal for deep, high pressure oil and gas production. The hydraulic setting feature combined with the pressure balance system make this tool a proven performer in multiple zone and deviated hole applications.

The packer components are locked into a single rigid unit while running in by the body lock feature. The body lock is a simple mechanical lock designed to prevent preset going in the hole. Stacked packer installations for alternate zone completions are more practical due to the HP-5's pressure balance system. The HP-5 is hydraulically actuated and pressure balanced to offset pressure fluctuations and reversals when in the set position.

The HP-5 releases quickly and easily by pulling tension into the tubing. Releasing shear value is field adjustable without disassembly.

FEATURES & BENEFITS

- Holds forces and pressure differentials from both directions.
- Mechanical slip system above and below provides positive engagement with casing under all conditions.
- Compatible with packer accessories.
- Innovative packing element system for positive pressure enhanced pack-off.
- Proven pre-set prevention system.
- All components locked to prevent pre-set.
- Release shear pins not affected by rated differential pressures.
- Tension force to release the packer is easily adjustable in the field.
- Straight pull release.

APPLICATIONS

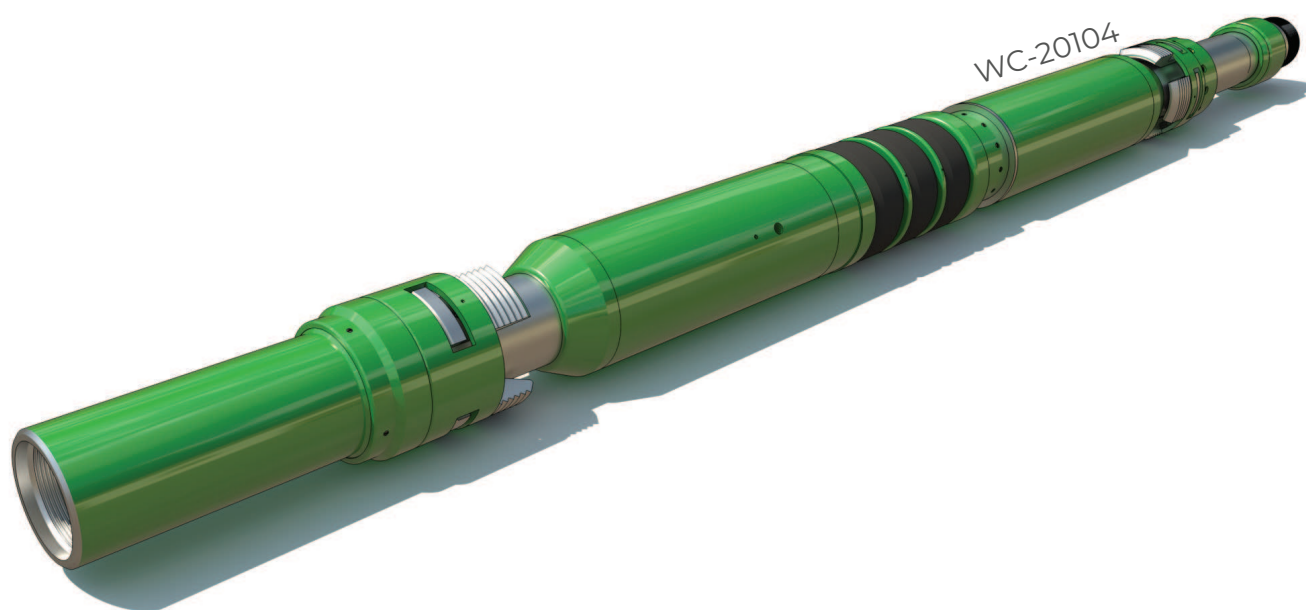
- Production or Injection.
- Dual or Stacked Packer Installations.
- Highly deviated wells and doglegs.
- Coiled tubing completions.



HYDRAULIC SET PRODUCTION PACKER
SPECIFICATION GUIDE (WC-HP-5)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
5 1/2	13-15.5	4.950	5.038	4.781	2.375	2 7/8, 6.5 PPF EU	6,000	V3
	15.5-20	4.778	4.950	4.625				
	20-23	4.670	4.778	4.500				
6 5/8	20-24	5.921	6.049	5.750	2.375	2 7/8, 6.5 PPF EU	6,000	V3
	24-32	5.675	5.921	5.500				
7	26-29	6.184	6.276	6.000	2.875	3 1/2, 9.3 PPF EU	6,000	V3
	32-35	6.004	6.094	5.812				
7 5/8	29.7-39	6.625	6.875	6.453	2.875	3 1/2, 9.3 PPF EU	6,000	V3
9 5/8	40-53.5	8.535	8.835	8.250	2.875	3 1/2, 9.3 PPF EU	6,000	V3
					3.958	4 1/2, 12.75 PPF EU		

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



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WELLCARE OIL TOOLS

HYDRULIC SET HIGH ANGLE PRODUCTION PACKER

OVERVIEW

The **Wellcare Model WC-HP-6** Hydraulic Set High Angle Production Packer is compact, economical, packer designed for low to medium-pressure applications. The short Body length makes it ideal for tight radius deviations and Horizontal applications. The packer requires no movement for setting, allowing stacked applications. Straight Pull releases the packer and built-in by pass ports equalize pressure across the packer for ease in retrieval. The shear Release mechanism is isolated from the packer hydraulics to allow Low release force even at full pressure differential.

FEATURES

- No mandrel movement for setting.
- Low setting pressure.
- Straight pull release, adjustable up to 55,000 lbs
- Shear screw isolated from hydraulic pressure.
- Short in length.
- Pressure differential rating 7,500 psi.
- Tested in Q125 casing.
- Packer is available with materials and elastomers for hostile environment, providing flexibility in wellbore applications.

BENEFITS

- Low shear out force required, even at full pressure differential.
- Economical design makes packer easy to redress.
- May be set with rig pumps.
- Stacked packer installations with sequential setting.
- Single trip saving rig time.

APPLICATIONS

- Offshore oil and gas applications.
- Highly deviated wells and severe doglegs.
- Stacked-packer completions.
- Coiled-tubing completions.

THIS PACKER IS ALSO AVAILABLE WITH ROTATIONAL RELEASE FEATURE. (WC-HPR-6 / WC-25402)



HYDRAULIC SET HIGH ANGLE PRODUCTION PACKER

SPECIFICATION GUIDE (WC-HP-6)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
4 1/2	9.5-13.5	3.920	4.090	3.771	1.995	2 3/8, 4.7 PPF EU	7,500	V3
5	11.5-15	4.408	4.560	4.250	1.995	2 3/8, 4.7 PPF EU	7,500	V3
	15-18	4.276	4.408	4.125				
5 1/2	13-15.5	4.950	5.038	4.781	1.995	2 3/8, 4.7 PPF EU	7,500	V3
	14-20	4.778	5.012	4.625				
	20-23	4.670	4.778	4.540				
6 5/8	20-24	5.921	6.049	5.791	1.995	2 3/8, 4.7 PPF EU	7,500	V3
	24-28	5.921	5.791	5.625				
	28-32	5.675	5.791	5.500				
7	20-26	6.276	6.456	6.000	2.441/	2 7/8, 6.5 PPF EU / 3 1/2, 9.3 PPF EU	7,500	V3
	26-32	6.094	6.276	5.891	2.992			
	32-35	6.004	6.094	5.812	2.441			
7 5/8	33.7-39	6.625	6.765	6.453	2.441/ 2.992	2 7/8, 6.5 PPF EU/ 3 1/2, 9.3 PPF EU	7,500	V3
	24-29.7	6.875	7.025	6.672				
	20-24	7.025	7.125	6.812				
9 5/8	36-43.5	8.755	8.921	8.531	2.992/ 3.958	3 1/2, 9.3 PPF EU/ 4 1/2, 12.75 PPF EU	7,500/ 5,000	V3
	40-47	8.681	8.835	8.437				
	47-53.5	8.535	8.681	8.281				

Packer is drifted with the corresponding API tubing drift size.

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

HYDRAULIC SET HIGH ANGLE PRODUCTION PACKER

SPECIFICATION GUIDE (WC-HPR-6)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
4 1/2	9.5-13.5	3.920	4.090	3.771	1.995	2 3/8, 4.7 PPF EU	7,500	V3
5	11.5-15	4.408	4.560	4.250	1.995	2 3/8, 4.7 PPF EU	7,500	V3
	15-18	4.276	4.408	4.125				
5 1/2	13-15.5	4.950	5.038	4.781	1.995	2 3/8, 4.7 PPF EU	7,500	V3
	14-20	4.778	5.012	4.625				
	20-23	4.670	4.778	4.540				
6 5/8	20-24	5.921	6.049	5.791	1.995	2 3/8, 4.7 PPF EU	7,500	V3
	24-28	5.921	5.791	5.625				
	28-32	5.675	5.791	5.500				
7	20-26	6.276	6.456	6.000	2.441/	2 7/8, 6.5 PPF EU / 3 1/2, 9.3 PPF EU	7,500	V3
	26-32	6.094	6.276	5.891	2.992			
	32-35	6.004	6.094	5.812	2.441	3 1/2, 9.3 PPF EU		
7 5/8	33.7-39	6.625	6.765	6.453	2.441/	2 7/8, 6.5 PPF EU/ 3 1/2, 9.3 PPF EU	7,500	V3
	24-29.7	6.875	7.025	6.672	2.992			
	20-24	7.025	7.125	6.812				
9 5/8	36-43.5	8.755	8.921	8.531	2.992/	3 1/2, 9.3 PPF EU/ 4 1/2, 12.75 PPF EU	7,500/ 5,000	V3
	40-47	8.681	8.835	8.437	3.958			
	47-53.5	8.535	8.681	8.281				

Packer is drifted with the corresponding API tubing drift size.

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

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WELLCARE OIL TOOLS

HYDRULIC SET HIGH ANGLE PRODUCTION PACKER

OVERVIEW

The **Wellcare Model WC-HP-6H** Hydraulic Set High Angle Production Packer is compact, economical, packer designed for High-pressure applications. The short Body length makes it ideal for tight radius deviations and Horizontal applications. The packer requires no movement for setting, allowing stacked applications. Straight Pull releases the packer and built-in by pass ports equalize pressure across the packer for ease in retrieval. The shear Release mechanism is isolated from the packer hydraulics to allow Low release force even at full pressure differential.

FEATURES

- No mandrel movement for setting.
- Low setting pressure.
- Straight pull release, adjustable up to 55,000 lbs
- Shear screw isolated from hydraulic pressure.
- Short in length.
- Pressure differential rating 10,000 psi.
- Tested in Q125 casing.

BENEFITS

- Low shear out force required, even at full pressure differential.
- Economical design makes packer easy to redress.
- May be set with rig pumps.
- Stacked packer installations with sequential setting.

APPLICATIONS

- Offshore oil and gas applications.
- Highly deviated wells and severe doglegs.
- Stacked-packer completions.
- Coiled-tubing completions.

THIS PACKER IS ALSO AVAILABLE WITH ROTATIONAL RELEASE FEATURE. (WC-HPR-6H / WC-25406)



HYDRAULIC SET HIGH ANGLE
PRODUCTION PACKER

SPECIFICATION GUIDE (WC-HP-6H)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
5 1/2	13-15.5	4.950	5.038	4.781	1.995	2 3/8, 4.7 PPF EU	7,500	V0
	14-20	4.778	5.012	4.625				
	20-23	4.670	4.778	4.540				
7	20-26	6.276	6.456	6.000	2.441/	2 7/8, 6.5 PPF EU / 3 1/2, 9.3 PPF EU	7,500	V0
	26-32	6.094	6.276	5.891	2.992			
	32-35	6.004	6.094	5.812	2.441	3 1/2, 9.3 PPF EU		
9 5/8	36-43.5	8.755	8.921	8.531	2.992/ 3.958	3 1/2, 9.3 PPF EU/ 4 1/2, 12.75 PPF EU	7,500	V0
	40-47	8.681	8.835	8.437				
	47-53.5	8.535	8.681	8.281				

Packer is drifted with the corresponding API tubing drift size.

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

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WELLCARE OIL TOOLS

HYDRAULIC SET HIGH ANGLE STRAIGHT PULL OR ROTATIONAL RELEASE PRODUCTION PACKER

OVERVIEW

The **Wellcare Model WC-HPSR-6** Hydraulic Set high Angle Straight pull or Rotational Release Production Packer is compact, economical, packer designed for low to medium-pressure applications. The short Body length makes it ideal for tight radius deviations and Horizontal applications. The packer requires no movement for setting, allowing stacked applications. Straight Pull OR Rotation releases the packer and built-in by pass ports equalize pressure across the packer for ease in retrieval. The shear Release mechanism is isolated from the packer hydraulics to allow Low release force even at full pressure differential.

FEATURES

- No mandrel movement for setting.
- Low setting pressure
- Shear screw isolated from hydraulic pressure
- Short in length.
- Pressure differential rating 7,500 psi
- Tested in Q125 casing.
- High performance triple seal multidurometer element package
- The packer is available with materials and elastomers designed for hostile environments, providing flexibility in wellbore applications.
- Packer having both integrated option to release, Straight pull Release or Rotational Release which provides flexibility to operators.

BENEFITS

- Low shear out force required, even at full pressure differential.
- Economical design makes packer easy to redress.
- May be set with rig pumps.
- Stacked packer installations with sequential setting.

APPLICATIONS

- Offshore & Onshore oil and gas applications.
- Highly deviated wells and severe doglegs.
- Stacked-packer completions.
- Coiled-tubing completions.



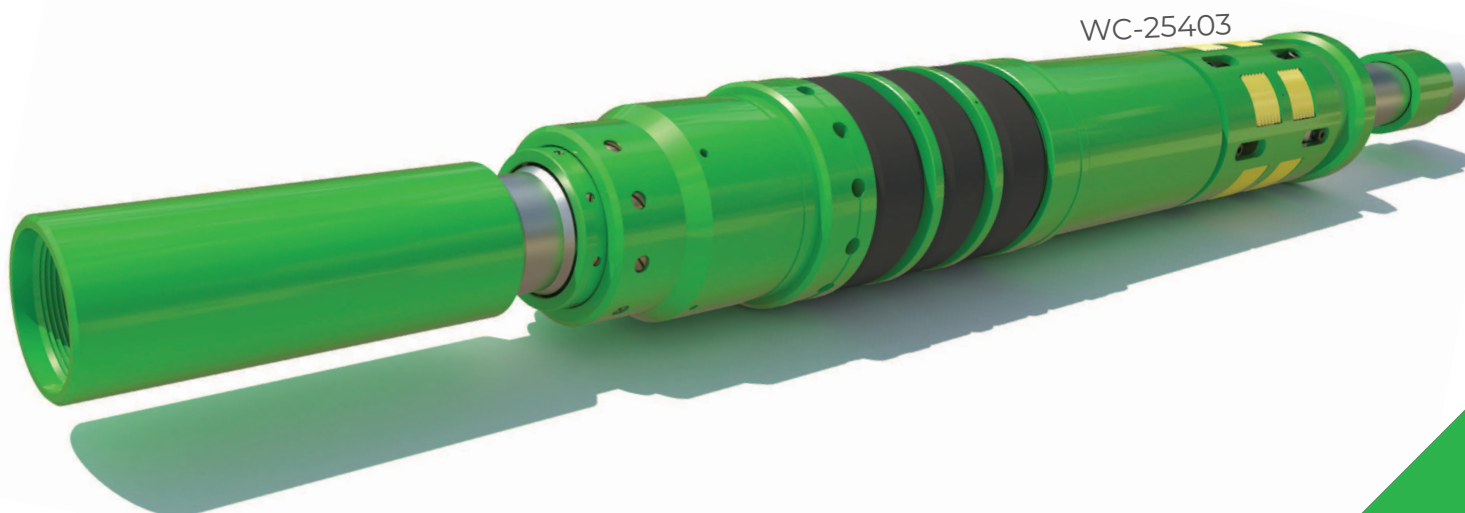
HYDRAULIC SET HIGH ANGLE STRAIGHT PULL OR ROTATIONAL RELEASE PRODUCTION PACKER

SPECIFICATION GUIDE (WC-HPSR-6)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
4 1/2	9.5-13.5	3.920	4.090	3.771	1.995	2 3/8, 4.7 PPF EU	7,500	V3
5	11.5-15	4.408	4.560	4.250	1.995	2 3/8, 4.7 PPF EU	7,500	V3
	15-18	4.276	4.408	4.125				
5 1/2	13-15.5	4.950	5.038	4.781	1.995	2 3/8, 4.7 PPF EU	7,500	V3
	14-20	4.778	5.012	4.625				
	20-23	4.670	4.778	4.540				
6 5/8	20-24	5.921	6.049	5.791	1.995	2 3/8, 4.7 PPF EU	7,500	V3
	24-28	5.921	5.791	5.625				
	28-32	5.675	5.791	5.500				
7	20-26	6.276	6.456	6.000	2.441/	2 7/8, 6.5 PPF EU / 3 1/2, 9.3 PPF EU	7,500	V3
	26-32	6.094	6.276	5.891	2.992			
	32-35	6.004	6.094	5.812	2.441			
7 5/8	33.7-39	6.625	6.765	6.453	2.441/ 2.992	2 7/8, 6.5 PPF EU/ 3 1/2, 9.3 PPF EU	7,500	V3
	24-29.7	6.875	7.025	6.672				
	20-24	7.025	7.125	6.812				
9 5/8	36-43.5	8.755	8.921	8.531	2.992/ 3.958	3 1/2, 9.3 PPF EU/ 4 1/2, 12.75 PPF EU	7,500/ 5,000	V3
	40-47	8.681	8.835	8.437				
	47-53.5	8.535	8.681	8.281				

Packer is drifted with the corresponding API tubing drift size.

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



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WELLCARE OIL TOOLS

HYDRAULIC SET RETRIEVABLE PRODUCTION PACKER

OVERVIEW

The **Wellcare Model WC-HP-9** is a hydraulic-set large bore cut to release production packer, once set in casing divert casing to tubing flow. It is set by pressuring the tubing string against a plugging device like pump out plug, hydro trip pressure sub & blanking plug set in landing nipple below the packer.

Bi-directional, Barrel slip hold the packer against well pressures from above and below.

The WC-HP-9 packer is designed for Straight pull Release or Cut To Release. The cut to release version requires cutting the mandrel at a certain length to release the packer.

FEATURES & BENEFITS

- Multiple packers can be set & test independently in multiple-packer completion system.
- Single-trip capability
- Cut to release
- Expandable metal backup rings provide a metal-to-metal barrier with the casing wall to prevent element extrusion and to enhance reliability.
- Full-strength, Barrel slips distribute the load evenly around the parent casing wall, maximizing the load rating and reliability
- Large packer bore reduces restriction to maximize flow rates and provide free access to the reservoir for the wireline tools.

APPLICATIONS

- Multi-zone production applications.
- Single trip applications.



HYDRAULIC SET RETRIEVABLE
PRODUCTION PACKER

SPECIFICATION GUIDE (WC-HP-9)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
5 1/2	13-15.5	4.950	5.038	4.781	2.375	3 1/2, 9.3 PPF EU	7,500	V3
	20-23	4.670	4.778	4.500	2.992			
7	20-26	6.276	6.456	6.100	2.992 /	3 1/2, 9.3 PPF EU / 4 1/2, 12.75 PPF EU	10,000 / 7,500	V3
	26-32	6.094	6.276	5.938	3.875			
9 5/8	40-47	8.681	8.835	8.500	3.958 /	4 1/2, 12.75 PPF EU/ 7 BTC	7,500 / 5,000	V3
	47-53.5	8.535	8.681	8.335	4.750			

Packer is drifted with the corresponding API tubing drift size.

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

NOTE: WELLCARE MODEL WC-HP-9 IS ALSO AVAILABLE ON REQUEST IN V0 VALIDATION GRADE.

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WELLCARE OIL TOOLS

HYDRAULIC SET SINGLE STRING RETRIEVABLE PACKER

OVERVIEW

The **Wellcare Model WC-HP-10** Hydraulic Set Single String Packer is tubing conveyed retrievable tool that provides isolation inside the casing or tubing. The “HP-10” Packer is designed to be used in all applications. The packer is available with a large bore or standard bore.

FEATURES

- **Short, compact design**-is ideal for negotiating tight spots and deviated wells and allows for convenient handling at surface.
- The Packing Element System incorporates a “**zero gap**” back-up system which prevents elastomer extrusion at high temperatures and pressures.
- **Bidirectional Slip System**- It prevent movement of the packer in either direction during pressure reversals eliminating the need for hydraulic hold down buttons above the packing elements.
- **No mandrel movement**-mandrel movement is not required during setting sequence -this feature becomes important in stacked applications.
- **Hydraulic interlock system prevents preset**-all outer components are mechanically locked to the mandrel during run-into to prevent preset and negotiate tights spots in the well.
- **Packing Elements above slips** -Protects slips from debris build up that can cause retrieval problems.
- **One-Piece Mandrel** – The “HP-10” Packer is built on a one-piece continuous mandrel that reduces leak paths.
- **Built-in Unloader and By Pass** – to aid in releasing and retrieving.
- **Shear Release**-allows packer to be released by simply pulling on the tubing string. The “HP-10” utilizes the field proven “HP-1” shear ring mechanism.
- **Body Lock Ring**-The hydraulic setting force is locked into the packer. Subsequent set-down weight (from tubing elongation during production, etc.) and differential from the annulus above to the annulus below (due to draw down of well) will add to the pack-off force and be trapped by the Body Lock Ring System.



HYDRAULIC SET SINGLE STRING RETRIEVABLE PACKER SPECIFICATION GUIDE (WC-HP-10)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
5 1/2	15.5-20	4.778	4.950	4.640	1.938/ 2.441	2 3/8, 4.7 PPF EU / 2 7/8, 6.5 PPF EU	6,000	V3
	20-23	4.670	4.778	4.500				
7	23-26	6.276	6.366	6.078	2.441/ 2.920	2 7/8, 6.5 PPF EU / 3 1/2, 9.3 PPF EU	7,500	V3
	26-32	6.094	6.184	5.910				
9 5/8	40-47	8.681	8.835	8.500	2.992/ 3.958	3 1/2, 9.3 PPF EU / 4 1/2, 12.75 PPF EU	7,500	V3
	47-53.5	8.535	8.681	8.310				

Packer is drifted with the corresponding API tubing drift size.

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

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WELLCARE OIL TOOLS

HYDRAULIC SET SHIFT TO RELEASE RETRIEVABLE PACKER

OVERVIEW

The **Wellcare Model WC-HP-12** hydraulic-set Large Bore production packer is designed for medium- to high pressure production and testing. The rugged, high-performance packer can be hydraulically set without manipulation of the tubing and can be run with tubing-conveyed perforating guns suspended beneath. The packer is released with the Wellcare wireline / slickline releasing tool and retrieved by tubing. The packer is available in most oilfield material specifications from alloy steel to corrosion resistant alloy materials, suitable for varying well environment.

FEATURES & BENEFITS

- The packer can be set after the wellhead is flanged, enabling the well to be controlled during displacement or circulation of downhole fluids, eliminating additional rig time.
- Hydraulically setting the packer avoids the need to rotate the work string in running or retrieving the packer, which simplifies procedures, improves efficiency, and saves rig time.
- The packer can be installed in one trip, saving valuable rig time.
- The ECNER array system (high-pressure thermal packing element) reduces the swab-off effect and facilitates center pack off by enabling supporting force to be applied to the outer elements.
- The packer components are rotationally locked to enable rotation into horizontal / deviated sections.
- The cylinder is below the packer element to reduce potential leak paths after the packer is set, preventing future workovers.
- Packer retrieval can be started with a slickline, saving rig time by eliminating an extra trip in the hole, with a retrieving tool.

APPLICATIONS

- High-pressure, high-flow applications.
- One-trip applications on land and offshore.



HYDRAULIC SET SHIFT TO RELEASE
RETRIEVABLE PACKER

SPECIFICATION GUIDE (WC-HP-12)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
7	26-29	6.276	6.366	5.955	3.875	4 1/2, 12.75 PPF EU	7,500	V3
	32-35	6.094	6.184	5.812				
9 5/8	43.5-47	8.681	8.755	8.450	3.958	4 1/2, 12.75 PPF EU	7,500	V3
	47-53.5	8.535	8.681	8.335				

Packer is drifted with the corresponding API tubing drift size.

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

NOTE: WELLCARE MODEL WC-HP-12 IS AVAILABLE ON REQUEST IN V0 VALIDATION GRADE.

For more information, contact **Wellcare** representative or visit us at www.wellcareoiltools.com

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WELLCARE OIL TOOLS

HYDRAULIC SET HIGH PRESSURE PRODUCTION PACKER 15K (Cut To Release)

OVERVIEW

The **Wellcare Model WC-HP-15** Hydraulic Set Production Packer is a hydraulic-set cut-to-release packer that combines the pressure and temperature ratings and reliability of a permanent packer with the convenience of a retrievable packer. The HP-15 retrievable packer is designed using unique design features that result in a retrievable packer suitable for high differential pressure and high temperature applications. The barrel slip located below the elements uniformly distributes the packer to casing loads. The propped element package reliably seals the high pressures and can be retrieved with the packer. Once this packer is run and set, it is released by cutting the mandrel. When the mandrel is properly and completely cut, the packer will release and all of the packer components along with the tailpipe can be retrieved from the well.

FEATURES & BENEFITS

- Anti-Preset - Prevents packer from setting until a predetermined tubing pressure is applied.
- Anti-Reset - Once the packer is released a snap ring engages the mandrel, locking the lower cone in place. This helps hold the barrel slip in the retracted position.
- Propped element for superior sealing.
- Barrel slip design for high load capability.
- Metal-to-metal backup shoes with 360° casing wall contact for element containment and reliability.
- No mandrel movement operation.
- No milling required to retrieve HP-15 packer.
- Maximum sealing and retrieving reliability.
- Design to minimize rig time during completion and decompletion.

APPLICATIONS

- Hot, corrosive, deep, deviated, production or test completions.
- Wells where minimum casing deformation or damage is desired.
- Single-trip completions.
- Multi packer installations.
- Liner top isolation / mono bore completions.



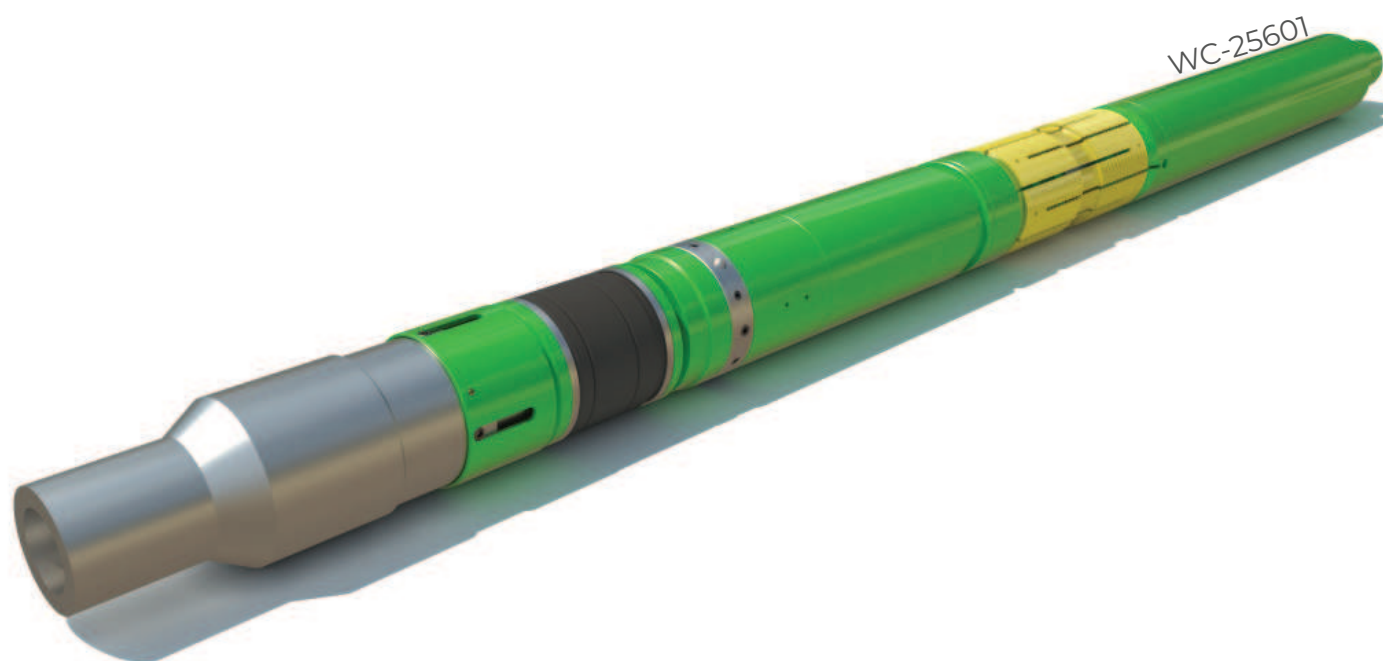
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HYDRAULIC SET HIGH PRESSURE PRODUCTION PACKER 15K (Cut To Release) SPECIFICATION GUIDE (WC-HP-15)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
7	35-38	6.004	5.920	5.730	2.750	3 1/2, 9.3 PPF EU	15,000	V3

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

NOTE: WELLCARE MODEL WC-HP-15 IS AVAILABLE ON REQUEST IN V0 VALIDATION GRADE.



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FEED THRU PRODUCTION PACKER

OVERVIEW

The **Wellcare Model WC-FTP-1** is a retrievable, hydraulic-set feed thru packer that is set in casing to divert casing-to-tubing flow. It is set by pressuring up the tubing string against a plugging device below the packer.

Bi-directional Barrel slip hold the packer against well pressures from above and below.

The WC-FTP-1 packer is a Cut-To-Release or straight pull shear release packer. The shear release value is adjustable for straight pull mechanism. This packer could be set either putting pump-out plug or hydro trip pressure sub at the bottom of the packer

Packer can be supplied with different feed through options* to Suit all customer operating requirements. Feed through of control line can be performed at rig site.

FEATURES

- Easily converted between straight pull release or cut to release
- Meets API 11D1 specifications
- Releasing screw adjustment compatibility for straight pull
- Single-trip capability
- Double Grip slip design
- Single-piece mandrel construction
- Straight pull or cut to release

BENEFITS

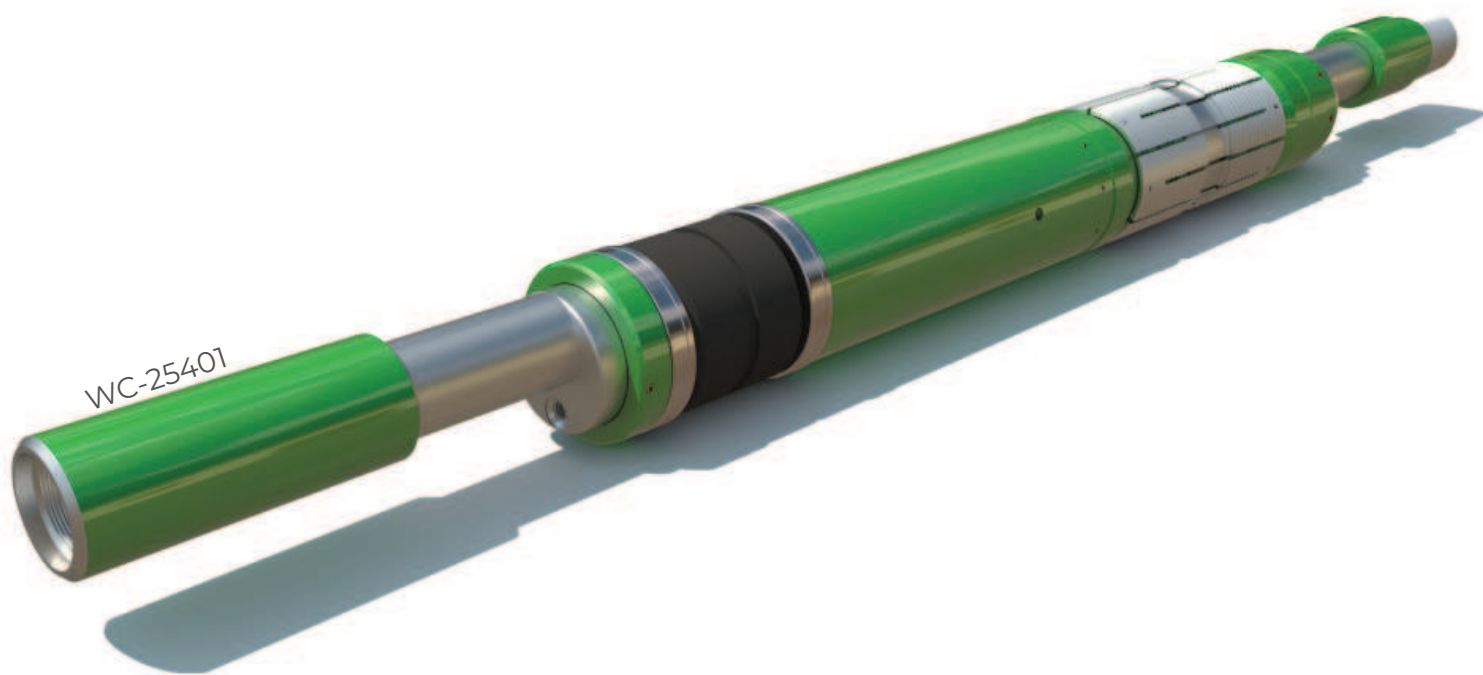
- Single trip applications
- Multi-string completions with control line.
- For cut to release option special features to be incorporated with the components.



FEED THRU PRODUCTION PACKER
SPECIFICATION GUIDE (WC-FTP-1)

Casing Specification				Packer Specification					
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	Primary String ID (in.)	Injection Line Connection	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
5 1/2	13-15.5	4.950	5.038	4.781	1.900	1/4 NPT / 3/8 NPT	2 3/8, 4.7 PPF EU	3,000	V3
	15.5-20	4.778	4.950	4.625					
	20-23	4.670	4.778	4.500					
7	20-26	6.276	6.456	6.100	2.375	1/4 NPT / 3/8 NPT	2 7/8, 6.5 PPF EU	3,000	V3
	26-32	6.094	6.276	5.938					

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



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WELLCARE OIL TOOLS

ELECTRICAL SUBMERSIBLE PUMP PACKER

OVERVIEW

This **Wellcare Model WC-ESP** Packer is used with a completion that requires an electric submersible pump below the packer to assist in pumping the formation fluids to the surface. The ESP packer incorporates a by pass or pass – through section to provide means for an electric cable to be run through the packer to supply power to the electric submersible pump below the packer.

This ESP packer is a single-mandrel, dual-bore hydraulic-set production packer. The packer has NPT chemical injection ports and one NPT port for a vent valve. The packer is set by pressuring up the tubing string against a plugging device below the packer and is locked in the set position mechanically by an internal slip. Bi-directional slip hold the packer against well pressures from above and below.

Release and retrieval is accomplished by straight pull on the tubing string.

FEATURES/BENEFITS

- Single-trip capability.
- Single-piece mandrel construction.
- Furnished with universal 1.900" API NU connection for Penetrator.
- Available in Straight Pull.
- Acner Array Packing Element designed for hostile environment.
- Bi-directional barrel slips.

OPERATIONAL BENEFITS

- Bi-directional barrel-slip design provide high loading capacity and uniform transfer of load.
- Convenient and handy cable connection with all major cable pack-off or feed- thru devices.
- Field adjustable straight pull release.

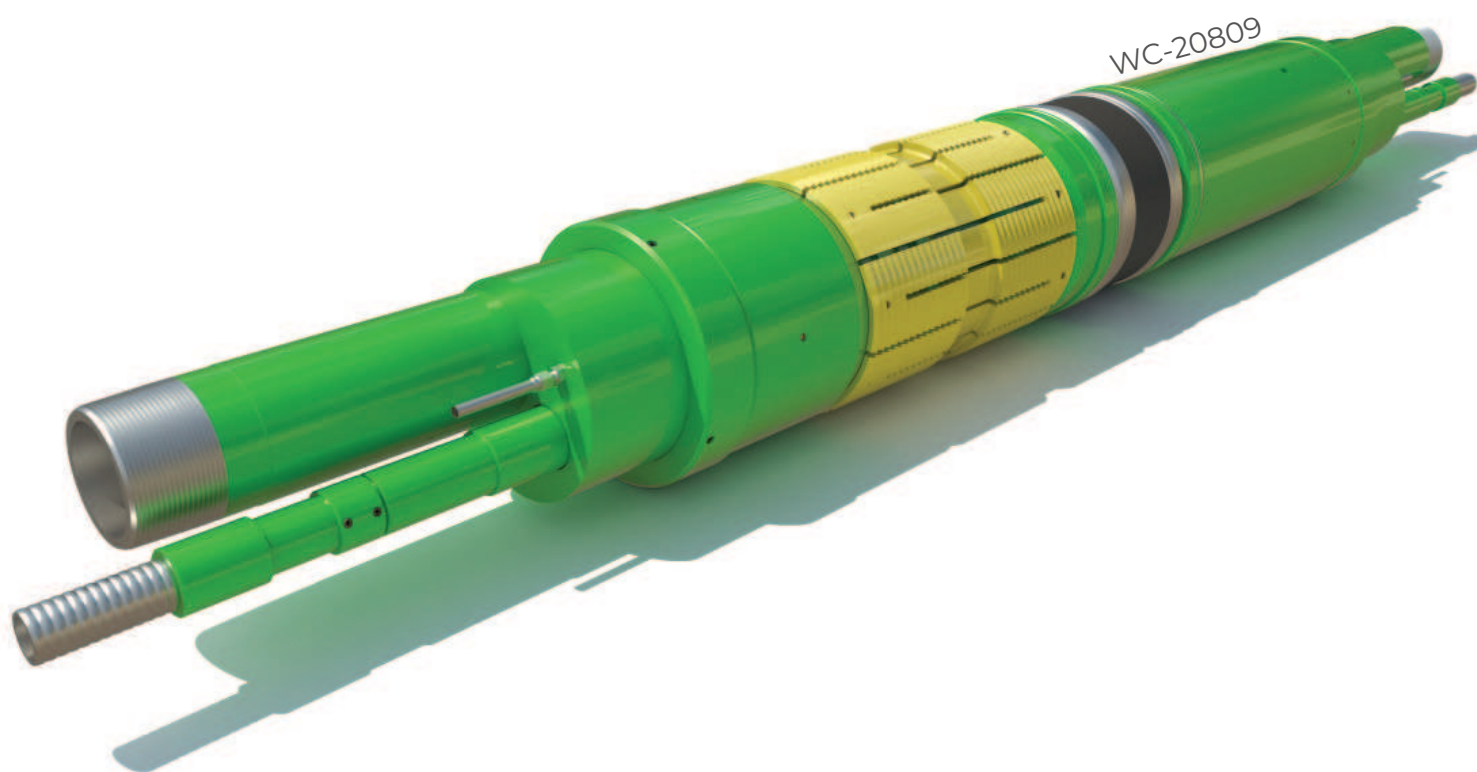


ELECTRICAL SUBMERSIBLE PUMP PACKER
SPECIFICATION GUIDE (WC-ESP)

Casing Specification				Packer Specification							
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	Primary String ID (in.)	Secondary String ID (in.)	Injection Line Connection	Penetrator Connection Box Up X Box Down	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11 D1 Validation Grade
7	20-26	6.276	6.456	6.100	2.375	1.500	1/4 NPT / 3/8 NPT	1.900 NU	2 7/8, 6.5 PPF EU	3,000	V3
	26-32	6.094	6.276	5.938							

Packer is drifted with the corresponding API tubing drift size.

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



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WELLCARE OIL TOOLS

MECHANICAL SINGLE / DOUBLE GRIP RETRIEVABLE PACKER

OVERVIEW

The **Wellcare Model WC-MECH-1 & WC-MECH-2** is a retrievable set down packer that features a large by pass area through packer. The bypass area is controlled by a face seal type bypass valve which is actuated by a 30 inch stroke mandrel.

The packer is available in a single grip version for use as a conventional long-stroke production packer and in a double-grip version (with hold down) for combination production as well as stimulation operation.

The double-grip packer for use where pressure differential from below the packer is anticipated features an integral hydraulic button-type hold down that is located below the bypass valve.

The double-grip packer also incorporates a unique built-in "Differential Lock" which utilizes a balance sleeve actuated by pressure from below the packer. This pressure creates an additional downward force which combined with set-down weight helps maintain the force necessary to keep the bypass valve closed.

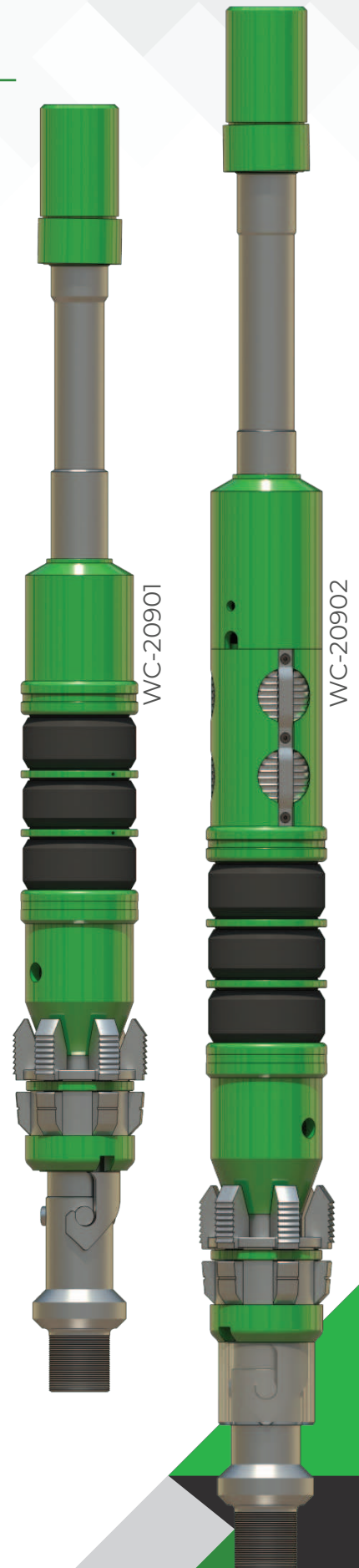
A size 45 X 2-3/8 packer (see specification guide) is available for running in 5 1/2" casing only with full-opening for running 2-7/8" tubing.

FEATURES AND BENEFITS

- Compression set.
- Repositionable packer.
- Standard right-hand set, optional left-hand set.
- Long stroke mandrel.
- Hold Down Buttons.
- Rocker Type Slip design.

APPLICATIONS

- Low pressure production.
- Stimulation and production combination with double grip version.
- Testing operation.
- Casing leakage detection / hermetical testing.



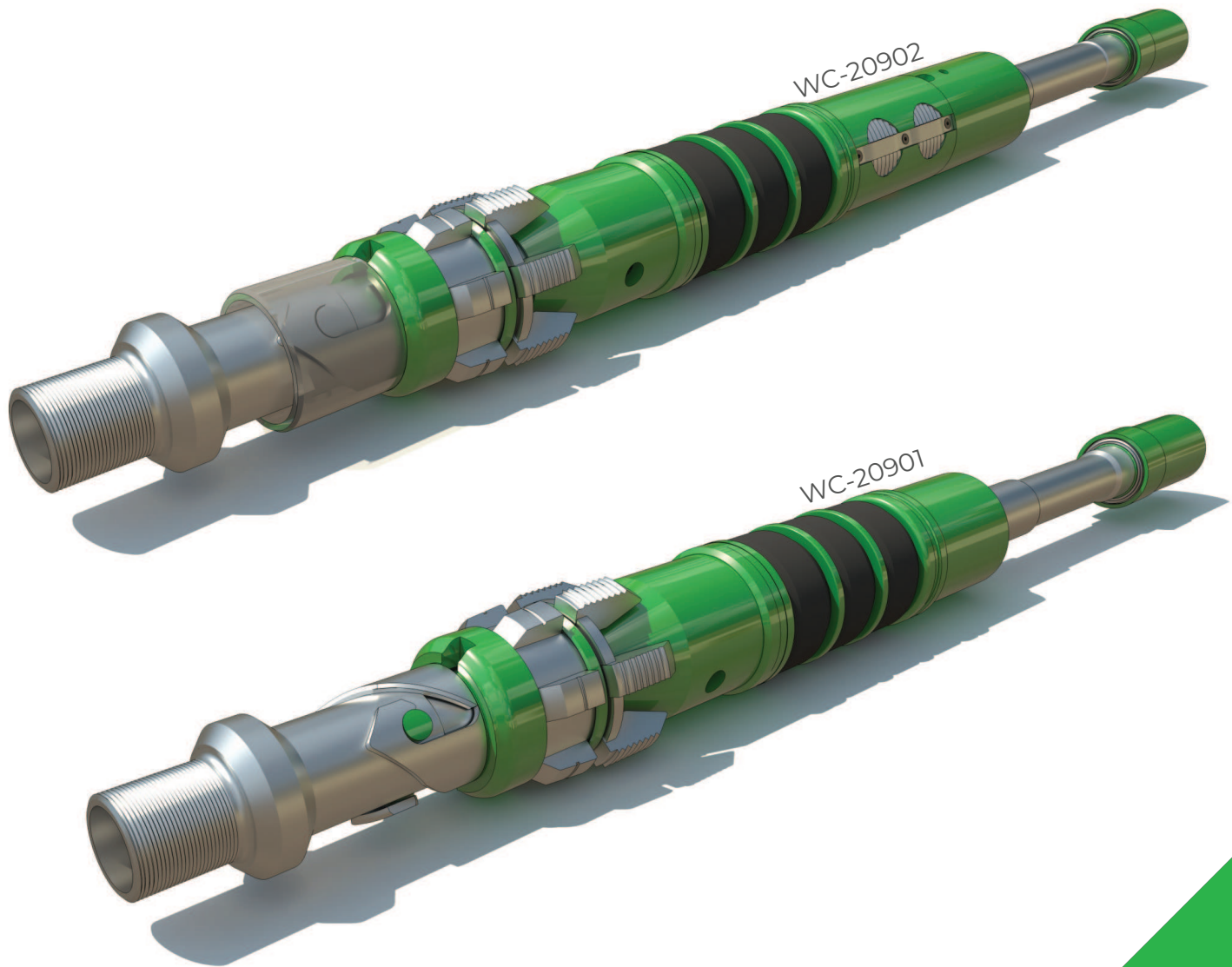
OPERATION

The Retrievable Casing Packer is run in with the bypass valve in the open position to permit free circulation both through and around the packer. The packer, which is mechanically set by means of J- slot arrangement, should be run one foot below the setting depth and then raised to the required position (to properly position the J- slot). To release from the j- slot, pick-up the tubing, rotate to the right, and then slack off. The J- pin move clear of the J- slot and the cone will move under slips.

Application of set -down weight closes and seals the bypass valve, sets the slips and packs off the packing elements. The formation below the packer which is now completely isolated from

the annulus above, is accessible only through the tubing string.

To release the packer, raise the tubing string the full length of the packer. When the J- pin shoulders, the J- slot will be engaged, since the J- pins on the Bottom Sub are so spaced as to always have one J- pin located in the J-slot when the tubing is picked up. When the tubing is lowered slightly, the J- pin automatically engages the J-Slot if no right- hand torque is in the tubing at the tool. When the tubing is raised to release the packer, the bypass valve opens to permit circulation through and around the packer.



**MECHANICAL SINGLE GRIP
 RETRIEVABLE PACKER
 SPECIFICATION GUIDE (WC-MECH-1)**

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
5	11.5-15	4.408	4.560	4.250	1.995	2 3/8, 4.7 PPF EU	5,000	V3
	15-18	4.276	4.408	4.125				
5 1/2	13-15.5	4.950	5.038	4.781	1.995 / 2.375	2 3/8, 4.7 PPF EU / 2 7/8, 6.5 PPF EU	5,000	V3
	15.5-20	4.778	4.950	4.641				
	20-23	4.670	4.778	4.500				
6 5/8	24	5.830	5.921	5.656	2.441	2 7/8, 6.5 PPF EU	5,000	V3
7	17-20	6.456	6.578	6.266	2.441 / 2.992	2 7/8, 6.5 PPF EU / 3 1/2, 9.3 PPF EU	5,000	V3
	20-26	6.276	6.456	6.078				
	26-29	6.184	6.276	5.968				
	32-35	6.004	6.094	5.812				
	38	5.791	5.920	5.656	2.441	2 7/8, 6.5 PPF EU		
9 5/8	29.3-36	8.921	9.063	8.593	3.960	4 1/2, 12.75 PPF EU	3,000	V3
	36-43.5	8.755	8.921	8.531				
	40-47	8.681	8.835	8.437				
	47-53.5	8.535	8.681	8.218				
10 3/4	32.75-40.5	10.050	10.190	9.875	3.960	4 1/2, 12.75 PPF EU	3,000	V3

Packer is drifted with the corresponding API tubing drift size.

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

MECHANICAL DOUBLE GRIP
RETRIEVABLE PACKER

SPECIFICATION GUIDE (WC-MECH-2)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
5	11.5-15	4.408	4.560	4.250	1.995	2 3/8, 4.7 PPF EU	7,500	V3
	15-18	4.276	4.408	4.125				
5 1/2	13-15.5	4.950	5.038	4.781	1.995 / 2.375	2 3/8, 4.7 PPF EU / 2 7/8, 6.5 PPF EU	7,500	V3
	15.5-20	4.778	4.950	4.641				
	20-23	4.670	4.778	4.500				
6 5/8	24	5.830	5.921	5.656	2.441	2 7/8, 6.5 PPF EU	7,500	V3
7	17-20	6.456	6.578	6.266	2.441 / 2.992	2 7/8, 6.5 PPF EU / 3 1/2, 9.3 PPF EU	7,500	V3
	20-26	6.276	6.456	6.078				
	26-29	6.184	6.276	5.968				
	32-35	6.004	6.094	5.812				
	38	5.791	5.920	5.656	2.441	2 7/8, 6.5 PPF EU		
9 5/8	29.3-36	8.921	9.063	8.593	3.960	4 1/2, 12.75 PPF EU	7,500	V3
	36-43.5	8.755	8.921	8.531				
	40-47	8.681	8.835	8.437				
	47-53.5	8.535	8.681	8.218				
10 3/4	32.75-40.5	10.050	10.190	9.875	3.960	4 1/2, 12.75 PPF EU	5,000	V3

Packer is drifted with the corresponding API tubing drift size.

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

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WELLCARE OIL TOOLS

LOCK SET MECHANICAL RETRIEVABLE DOUBLE GRIP PACKER

OVERVIEW

The **Wellcare Model WC-MECH-3 & WC-MECH-3L** Lock-Set Retrievable Packer is a Full Bore Double-Grip Retrievable Packer with an integral Unloader, Opposed non-transferring dove tail Slips prevent movement of the Packer in either direction due to pressure differentials, while allowing landing of the tubing in tension, compression, or neutral. The Lock Segments serve as a releasable Lock Ring to maintain pack-off once the packer is set, and locks the Unloader in the closed position until the tool is released. The Split Lock and Control Segments allow the tool to be both set and released with right-hand rotation.

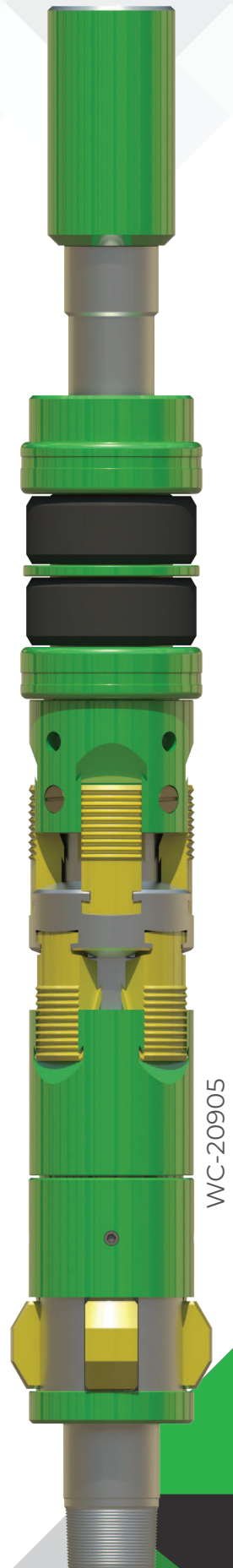
FEATURES AND BENEFITS

- Internal by-pass.
- Opposed dovetail slips positive set.
- Holds pressure from above or below.
- Can leave tubing in tension, compression or neutral condition.
- Right hand rotation sets and releases the packer.
- Retracted dovetail slips.
- Converts to mechanical bridge plug with the addition of a valve.
- Optional packing element systems.

APPLICATIONS

- Production.
- Injection.
- Zone isolation operations.

Note: The Model: **WC-MECH-3L** Lok-Set Packer is similar to the Model: WC-MECH-3 packer and is recommended when a larger than normal bore through the packer is required.



LOCK SET MECHANICAL
RETRIEVABLE DOUBLE GRIP PACKER

SPECIFICATION GUIDE (WC-MECH-3)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
5 1/2	13-15.5	4.950	5.038	4.781	1.995	2 3/8, 4.7 PPF EU	7,500	V3
	15.5-20	4.778	4.950	4.641				
	20-23	4.670	4.778	4.500				
6 5/8	17-24	5.921	6.126	5.781	1.995	2 3/8, 4.7 PPF EU	7,500	V3
7	20-26	6.276	6.456	6.078	2.441	2 7/8, 6.5 PPF EU	7,500	V3
	26-29	6.184	6.276	5.968				
	32-35	6.004	6.094	5.812				
7 5/8	33.7-39	6.579	6.797	6.453	2.441	2 7/8, 6.5 PPF EU	7,500	V3
9 5/8	47-53.5	8.343	8.681	8.218	3.548	4, 9.5 PPF NU	5,000	V3

Packer is drifted with the corresponding API tubing drift size.

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

SPECIFICATION GUIDE (WC-MECH-3L) Large Bore

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
5 1/2	13		5.038	4.796	2.375	2 7/8, 6.5 PPF EU	7,500	V3
	15.5-17	4.892	4.950	4.656				
	20	4.625	4.778	4.562				
6 5/8	17-24	5.921	6.126	5.781	2.441	2 7/8, 6.5 PPF EU	7,500	V3
7	23-26	6.276	6.366	6.093	2.992	3 1/2, 9.3 PPF EU	7,500	V3
	26-29	6.136	6.276	5.983				
	32-35	6.004	6.094	5.812				
7 5/8	33.7-39	6.579	6.797	6.453	2.992	3 1/2, 9.3 PPF EU	7,500	V3

Packer is drifted with the corresponding API tubing drift size.

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

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WELLCARE OIL TOOLS

MECHANICAL SET PRODUCTION PACKER

OVERVIEW

The **Wellcare Model WC-MECH-4** Mechanical set double grip retrievable production packer is designed for medium to high Pressure applications.

This Packer is a retrievable, double- grip compression set production packer that can be left in tension, compression, or in a neutral position, and will hold pressure from above or below. A large internal bypass reduces the swabbing effect during run-in and retrieval, and closes when the packer is set. When the packer is released, the bypass opens first, allowing the pressure to equalize before the upper slips are released. The Packer allows unrestricted flow and passage of full gauge wire line tools and accessories with an unrestricted ID, making it ideal for zone isolation injection and production applications.

It can be set with production tubing in tension, compression or neutral maximizing effectiveness in shallow wells. The packer's mechanical lock-set action closes an internal bypass and allows application of pressure above or below the packer.

This packer also features a upper-slip releasing system that reduces the force required to release the packer.

A non-directional slip is released first, making it easier to release the other slips.

The packer is released by a $\frac{1}{4}$ right-hand turn at the tool, followed by straight pickup of the production tubing.

FEATURES & BENEFITS

- Pressure differential rating up to 7,500 Psi.
- Allows tubing to be left in tension, compression or neutral.
- Internal By-Pass allows packer to equalize prior to releasing.
- Temperature rating: Up to 350°F.
- Withstands pressure differentials from above and below.
- Ideal packer for Production, Stimulation & Injection purposes.
- Tubing can be recovered leaving packer downhole by using an On-Off tool.

APPLICATIONS

- Onshore-Offshore work over.
- Production / completion.
- High Pressure Water Injection.
- Casing integrity Testing & treating operations.



MECHANICAL SET PRODUCTION PACKER

SPECIFICATION GUIDE (WC-MECH-4)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
4 1/2	9.5-13.5	3.920	4.090	3.750	1.938	2 3/8, 4.7 PPF EU	7,500	V3
	13.5-15.1	3.826	3.920	3.680				
	15.1-16.6	3.747	3.826	3.594	1.500	1.900, 2.75 PPF EU		
5	11.5-15	4.408	4.560	4.125	1.938	2 3/8, 4.7 PPF EU	7,500	V3
	18-20.8	4.150	4.276	4.000				
5 1/2	14-20	4.778	5.012	4.625	1.938/	2 3/8, 4.7 PPF EU /	7,500	V3
	20-23	4.670	4.778	4.500	2.375	2 7/8, 6.5 PPF EU		
	13-14	5.012	5.038	4.818	2.375	2 7/8, 6.5 PPF EU		
6 5/8	24-32	5.675	5.921	5.500	2.441	2 7/8, 6.5 PPF EU	7500	V3
	20-24	5.921	6.049	5.750	2.441/	2 7/8, 6.5 PPF EU /		
	17-24	5.921	6.135	5.766	2.920	3 1/2, 9.3 PPF EU		
7	26-35	6.004	6.276	5.813	2.441	2 7/8, 6.5 PPF EU	7,500	V3
	17-26	6.276	6.538	6.000				
	26-35	6.004	6.276	5.875	2.992	3 1/2, 9.3 PPF EU		
	17-26	6.276	6.538	6.000				
7 5/8	33.7-39	6.625	6.766	6.458	2.441/	2 7/8, 6.5 PPF EU /	7,500	V3
	24-29.7	6.875	7.025	6.677	2.992	3 1/2, 9.3 PPF EU		
9 5/8	32.3-43.5	8.755	8.975	8.500	3.958	4 1/2, 12.75 PPF EU	7,500	V3
	43.5-53.5	8.535	8.755	8.250				
10 3/4	32.75-51	9.850	10.190	9.625			3,000	V3
13 3/8	48-72	12.347	12.715	12.000				

Packer is drifted with the corresponding API tubing drift size.

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

For more information, contact **Wellcare** representative
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WELLCARE OIL TOOLS

RETRIEVABLE MECHANICAL SET SQUEEZE PACKER

OVERVIEW

The **Wellcare Model WC-RMSP** Retrievable Mechanical Set Squeeze Packer is a full-opening, hook wall packer used for testing, treating, & squeeze cementing operations. In most cases, the tool runs with a circulating valve assembly.

Packer body 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. Drag springs operate the J-slot mechanism on $\leq 3\frac{1}{2}$ -in. (88.9-mm) packer bodies, while larger packer sizes ≥ 4 -in. (101.6 mm) use drag blocks. Automatic J-slot sleeves are standard equipment on all packer bodies. Circulating valve, if used, is a locked-open/ locked closed type that serves as both a circulating valve and bypass. Valve automatically locks in the closed position when the packer sets.

During testing or squeezing operations, the lock prevents the valve from being pumped open. A straight J-slot in the locked-open position matches with a straight J-slot (optional) in the packer body. This combination eliminates the need to turn the tubing to close the circulating valve or reset the packer after the tubing has been displaced with cement.

FEATURES & BENEFITS

- The full-opening design of the packer mandrel bore allows large volumes of fluid to pump through the tool. Tubing-type guns and other wire line tools can be run through the pack.
- The packer can be set and relocated as many times as necessary with simple tubing manipulation.
- Bi-directional hardened slips provide greater holding ability and improved wear resistance in high-strength casing.
- Pressure through the tubing activates the slips in the hydraulic hold down mechanism.
- An optional integral circulating valve locks into open or closed position during squeezing or treating operations and opens easily to allow circulation above the packer.

OPERATIONAL BENEFITS

- Tubing-type guns and other wireline tools can be run through the packer.
- Double seal elements for easy swab off.
- Hold down buttons activated when differential pressure work.



RETRIEVABLE MECHANICAL SET SQUEEZE PACKER

SPECIFICATION GUIDE (WC-RMSP)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
4 1/2	9.5		4.090	3.890	1.800	2 3/8, 4.7 PPF EU	10,000	V3
	11.6–13.5	3.920	4.000	3.780				
	15.1-18.1	3.671	3.826	3.550	1.510	2 3/8, 4.7 PPF EU		
5	23		4.049	3.780	1.800	2 3/8, 4.7 PPF EU	10,000	V3
	15-18	4.276	4.408	4.060		2 7/8, 6.5 PPF EU		
	11.5-13	4.494	4.670	4.250				
5 1/2	23-26							2 7/8, 6.5 PPF EU
	13-20	4.778	5.038	4.550	1.900			
	20-23	4.670	4.778	4.400	1.800			
7	17-26	6.276	6.538	6.000	2.441	2 7/8, 6.5 PPF EU	10,000	V3
	23-29	6.184	6.366	5.750				
	32-38	5.920	6.094	5.650				
9 5/8	29.3-53.5	8.535	9.038	8.250	3.750	4 1/2 IF	7,500	V3
	40-71.8	8.110	8.835	7.800	3.000			
13 3/8	48-72	12.347	12.715	11.940	3.750	4 1/2 IF	5,000	V3

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

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WELLCARE OIL TOOLS

SNAP SET COMPRESSION PACKER WITH & WITHOUT HOLD DOWN

OVERVIEW

The Wellcare Model WC-MECH-6H & WC-MECH-6 Snap Set Compression Packer with & without hold down are retrievable set down packers featuring a bypass area through the packer and an integral unloader. They are used as an upper packer in a single string two packer installation, for zone isolation, injection or production.

Packers are used above either retainer production packers or retrievable packers.

FEATURES AND BENEFITS

- Proven multiple packing element system.
- Operation of the packer is simple. No tubing rotation is required.
- A collet type snap-latch prevents the packer from setting before landing the seal assembly or before setting a lower retrievable packer. Lower portion of the tool is rotationally locked to deliver torque in either direction through the packer.

APPLICATIONS

- Onshore-Offshore work over.
- Production / completion.
- High Pressure Water Injection.
- Casing integrity Testing & treating operations



SNAP SET COMPRESSION PACKER WITH & WITHOUT HOLD DOWN

SPECIFICATION GUIDE (WC-MECH-6H)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
5 1/2	13-15.5	4.950	5.038	4.781	1.969 / 2.375	2 3/8, 4.7 PPF EU / 2 7/8, 6.5 PPF EU	7,500	V3
	15.5-20	4.778	4.950	4.641				
	20-23	4.670	4.778	4.500				
7	17-20	6.456	6.578	6.266	2.441	2 7/8, 6.5 PPF EU	7,500	V3
	20-26	6.276	6.456	6.078				
	26-29	6.184	6.276	5.968				
	32-35	6.004	6.094	5.812				
9 5/8	40-47	8.681	8.835	8.437	2.992	3 1/2, 9.3 PPF EU	7,500	V3
	47-53.5	8.535	8.681	8.250				

Packer is drifted with the corresponding API tubing drift size.

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

SPECIFICATION GUIDE (WC-MECH-6)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
5 1/2	13-15.5	4.950	5.038	4.781	1.969 / 2.375	2 3/8, 4.7 PPF EU / 2 7/8, 6.5 PPF EU	5,000	V3
	15.5-20	4.778	4.950	4.641				
	20-23	4.670	4.778	4.500				
7	17-20	6.456	6.578	6.266	2.441	2 7/8, 6.5 PPF EU	5,000	V3
	20-26	6.276	6.456	6.078				
	26-29	6.184	6.276	5.968				
	32-35	6.004	6.094	5.812				
9 5/8	40-47	8.681	8.835	8.437	2.992	3 1/2, 9.3 PPF EU	5,000	V3
	47-53.5	8.535	8.681	8.250				

Packer is drifted with the corresponding API tubing drift size.

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

ANNULUS PRESSURE: WHEN THE ANNULUS PRESSURE IS GREATER THAN TUBING PRESSURE, THE BALANCE SLEEVE IS HELD BY THE ANNULUS PRESSURE, AGAINST THE BALANCE SLEEVE HOUSING. IN THIS POSITION, THE FINGERS OF THE BALANCE SLEEVE DO NOT ACT TO HELP HOLD THE BODY DOWN; SET-DOWN WEIGHT ALONE MUST BE USED TO KEEP THE UNLOADER CLOSED.

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WELLCARE OIL TOOLS

COMPRESSION SET RETRIEVABLE PACKER

OVERVIEW

The **Wellcare Model WC-GCP** Compression Set Retrievable Packer is a compact, economical set-down packer that can be used by itself for production applications or, with a companion un loader and hold-down, it can be used for well stimulation, testing and other pressure operations and then left in the well in compression as a production packer.

FEATURES & BENEFITS

- **Short And Compact** - Even shorter and more compact than its predecessor, the Model "GCP" Retrievable Casing Packer offers true ease of storage, shipping and handling.
- **Permits Passage Of Recording Instruments** - The bore through the Model WC-GCP Packer is full- opening for a given size tubing on which it is designed to be run. Pressure or temperature recording devices can be run through and below the tool if desired.
- **Low Cost** - Economical to buy and economical to maintain, the Model WC-GCP Retrievable Casing Packer offers long and dependable service with minimum care and maintenance.
- **Alternate Packing Element System** For temperatures up to 250° F, the standard 80 Duro hard packing elements can be used with the Model WC-GCP Packer; for applications above this temperature, the packer is furnished with a 90 Duro hard packing element.
- **Simple Construction** - The Model WC-GCP Packer is constructed of a minimum number of working parts. The dependable rocker-type slips and synthetic rubber packing element are the same types used on other highly successful industry standard equipment.
- **Ease of Operation** - A simple and reliable J- Slot mechanism, actuated from the surface, makes the Model WC-GCP Retrievable Casing Packer very easy to set and release.



COMPRESSION SET RETRIEVABLE PACKER

SPECIFICATION GUIDE (WC-GCP)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
5 1/2	13-15.5	4.950	5.038	4.781	1.995	2 3/8, 4.7 PPF EU	3,000	V3
	14-20	4.778	5.012	4.641				
	20-23	4.670	4.778	4.500				
7	20-26	6.276	6.456	6.078	2.441	2 7/8, 6.5 PPF EU	3,000	V3
	26-32	6.094	6.276	5.968				
	32-35	6.004	6.094	5.812				
	38	5.830	5.920	5.656				
9 5/8	29.3-36	8.921	9.063	8.593	2.992	3 1/2, 9.3 PPF EU	3,000	V3
	40-47	8.681	8.835	8.437				
	47-53.5	8.535	8.681	8.218				
10 3/4	32.7-55.5	9.625	10.192	9.500	3.958	4 1/2, 12.75 PPF EU	1,500	V3
13 3/8	48-72	12.300	12.715	12.000	3.958	4 1/2, 12.75 PPF EU	1,500	V3

Packer is drifted with the corresponding API tubing drift size.

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

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WELLCARE OIL TOOLS

10K MECHANICAL SET PRODUCTION PACKER

OVERVIEW

The **Wellcare Model WC-MECH-10** Mechanical Set Packer is a high performance Full Bore Single String Retrievable Packer. It is specifically designed to perform reliably in high pressure fracturing and production applications. It is compression set and can be landed in compression, tension or neutral condition.

Enhancements of field proven design features combining rugged simplicity, economy and ease of operation, result in a new and test proven standard of performance. This packer is now available with a pressure rating of 10,000 PSI at 350°F.

FEATURES & BENEFITS

- Ease of operation - 1/4 turn to right to set, 1/4 turn to right to release
- High performance three-piece element system for high pressure sealing and pressure reversal loads
- Tested unplugged to **350°F at 10,000 psi** differential both above and below for the 5-1/2" & 7"
- Plugged rating of 7,500 psi below or above at 350°F for the 5-1/2" & 7" sizes
- Independent lower and upper Jay Assemblies
- Tubing can be landed in tension, compression or neutral
- Full opening ID for stimulation and thru-tubing perforation.
- Tested at tensile load of 10,000 psi from below for 5 1/2" & 7" and refer performance envelope for more detail
- Built in unloader with bonded seal for bypass
- Bypass opens before release of upper slips for safety and ease of release
- No O-rings
- Staged loading of upper slips for ease of release
- Reliable and rugged rocker type lower slip assembly



10K MECHANICAL SET PRODUCTION PACKER

SPECIFICATION GUIDE (WC-MECH-10)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
5 1/2	15.5-17	4.892	4.950	4.720	2.375	2 7/8, 6.5 PPF EU	10,000	V3
	20-23	4.670	4.778	4.500				
7	20-23	6.366	6.456	6.180	2.441	2 7/8, 6.5 PPF EU	10,000	V3
	23-26	6.276	6.366	6.078				
	26-29	6.184	6.276	6.000				
	32-35	6.004	6.094	5.875	2.375			

Packer is drifted with the corresponding API tubing drift size.

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

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WELLCARE OIL TOOLS

MECHANICAL TENSION PACKER

OVERVIEW

The **Wellcare Model WC-AD-1** Tension Packer provides a compact, economical retrievable packer for use where a set-down type packer is impractical to use because of shallow wells. Although designed primarily for water flooding, this packer can also be used for applications like formation fracturing in shallow or low-fluid-level wells.

The Model WC-ADL-1 Tension Packer is large bore version of the WC-AD-1 Packer. Features and operational procedures are basically the same as those described for the WC-AD-1 Tension Packer.

FEATURES AND BENEFITS

- **SHORT AND COMPACT** : Increases the efficiency of handling, shipping, and storing, as well as operations on the rig.
- **ROCKER-TYPE SLIP DESIGN** : Eliminates the need for extra drag blocks, slip tie links, and guide grooves, thus making possible a short packer
- **EASY TO OPERATE** : A simple and reliable J- Slot mechanism, actuated from the surface by tubing rotation, makes the packer easy to set and release.
- **PACKING ELEMENT SYSTEM** : For temperatures up to 250°F, the standard 80 duro hard element can be used and for applications above 250°F, a 90 duro hard element is available.
- **FULL-BORE** : Larger than tubing drift diameter. Any Instruments capable of passing thru the tubing can be run thru the packer. Full ID also assists in preventing screen-out and subsequent plugging of the tubing during fracturing.

OPERATION

TO SET PACKER : Run the packer to desired setting depth, making the last movement down before attempting actual set. Rotate the tubing to the right one-quarter at the tool, and pick-up on the tubing string to obtain pack off.

TO RELEASE PACKER : Lower the tubing string at least one foot more than is necessary to remove the applied tension, (This will move the J-Pin to the top of the J- slot), and rotate to the left sufficiently to obtain one quarter turn at the packer.



MECHANICAL TENSION PACKER

SPECIFICATION GUIDE (WC-AD-1)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating in favor of tubing (psi)	API 11D1 Validation Grade
5 1/2	13-15.5	4.950	5.038	4.781	1.995 2.441	2 3/8, 4.7 PPF EU/ 2 7/8, 6.5 PPF EU	3,000	V3
	15.5-20	4.778	4.950	4.641				
	20-23	4.670	4.778	4.500				
7	20-26	6.276	6.456	6.078	2.441	2 7/8, 6.5 PPF EU	3,000	V3
	26-32	6.094	6.276	5.968				
	32-35	6.004	6.094	5.812				
	38	5.830	5.920	5.656				
9 5/8	29.3-36	8.921	9.063	8.593	2.992	3 1/2, 9.3 PPF EU	3,000	V3
	40-47	8.681	8.835	8.437				
	47-53.5	8.535	8.681	8.218				
10 3/4	32.7-55.5	9.625	10.192	9.500	3.958	4 1/2, 12.75 PPF EU	1,500	V3
13 3/8	48-72	12.300	12.715	12.000	3.958	4 1/2, 12.75 PPF EU	1,500	V3

Packer is drifted with the corresponding API tubing drift size.

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

SPECIFICATION GUIDE (WC-ADL-1)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating in favor of tubing (psi)	API 11D1 Validation Grade
7	23-29	6.184	6.366	5.968	2.992	3 1/2, 9.3 PPF EU	3,000	V3
9 5/8	47-53.5	8.535	8.681	8.218	3.958	4 1/2, 12.75 PPF EU	3,000	V3
	40-47	8.681	8.835	8.437				
	29.3-36	8.921	9.063	8.593				

Packer is drifted with the corresponding API tubing drift size.

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

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WELLCARE OIL TOOLS

AXIAL PRODUCTION PACKER WITH HYDRAULIC ANCHOR

OVERVIEW

The **Wellcare Model WC-MECHPRO-H** Mechanical Packer is designed for long-term tight isolation of the intervals of production casing and for injection or production well. The packer is equipped with Hydraulic Hold Down Buttons, which assists in restricting the upward movement after installation. The hydraulic anchor gets activated due to differential pressure acting between tubing and annulus.

FEATURES AND BENEFITS

- No Bottom Hole Tagging: Packer can be installed without resting on a support
- No Tubing Rotation: Packer can be installed by reciprocating movement of string
- Easy unsetting: Packer can be easily unset by tensioning the string.
- Double Grip: The Packer is equipped with slips on one side and Hydraulic Buttons on another to restrict its movement after setting.
- High performance: Three-piece element system for high pressure sealing and pressure reversal loads
- Expandable Support: Packing elements are surrounded by Expandable supports which decreases extrusion gap making the element package more reliable.
- Spring Support: Backup springs behind Lower slips to keep them intact with mandrel and thus stopping from biting the casing during running in.



WC-24504

AXIAL PRODUCTION PACKER WITH HYDRAULIC ANCHOR

SPECIFICATION GUIDE (WC-MECHPRO-H)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
6 5/8	20-24	5.921	6.049	5.594	*2.441	2 7/8, 6.5 PPF EU	10,000	V3
	28-32	5.675	5.791	5.350	2.320			
7	20-29	6.184	6.456	5.980	*2.441	2 7/8, 6.5 PPF EU	10,000	V3
9 5/8	28-49	7.511	8.017	7.170	3.150	4 1/2, 12.75 PPF EU	10,000	V3
	36-58.4	8.435	8.921	8.030	3.540			V3

* Packer is drifted with the corresponding API tubing drift size.

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

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WELLCARE OIL TOOLS

MECHANICAL STRAIGHT SET DOWN PRODUCTION PACKER

OVERVIEW

The **Wellcare Model WC-MECHPRO-S** Mechanical Straight Set down Production Packer is a mechanical packer designed for situations where it is not possible to rotate tubing string to install packer. This packer can be installed and uninstalled just by reciprocating movement of string. It is used for production as well as stimulation operation. It is can be landed in compression, tension or neutral condition.

FEATURES AND BENEFITS

- No Bottom Hole Tagging: Packer can be installed without resting on a support.
- No Tubing Rotation: Packer can be installed by axial movement of string.
- Easy unsetting: Packer can be easily unset by tensioning the string.
- Double Grip: The Packer is equipped with slips on both side to restrict its movement after setting.
- High performance: Three-piece element system for high pressure sealing and pressure reversal loads.
- Spring Support: Backup springs behind slips to keep them intact with mandrel and thus stopping from biting the casing during running in.



MECHANICAL STRAIGHT SET DOWN PRODUCTION PACKER

SPECIFICATION GUIDE (WC-MECHPRO-S)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down	Differential Pressure Rating (psi)	API 11D1 Validation Grade
6 5/8	20-24	5.921	6.049	5.594	2.441	2 7/8, 6.5 PPF EU	7,500	V3
	24-28	5.791	5.921	5.510				
	28-32	5.675	5.791	5.350				
7	20-29	6.184	6.456	5.980	2.441	2 7/8, 6.5 PPF EU	7,500	V3
	32-38	5.920	6.094	5.710				

Packer is drifted with the corresponding API tubing drift size.

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

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WELLCARE OIL TOOLS

HYDRAULIC SET SINGLE / DOUBLE SEAL BORE RETRIEVABLE PACKER

OVERVIEW

The **Wellcare Model WC-HSSRP-1 & WC-HDSRP-1** is a hydraulic set seal bore retrievable packer. Although originally designed for premium gravel pack applications, they may also be used as standard completion packers in high pressure and/or high temperature wells where premium retrievable retainer production packers are required.

The Packer is fully compatible with standard **WELLCARE** sealing accessories.

FEATURES AND BENEFITS

- One trip installation.
- No tubing manipulation required. The setting mechanism is actuated hydraulically with pump pressure alone at any depth. The tubing can be displaced and the packer set after the well is flanged up.
- Acner Array (wire mesh) packing element for repeated low and high differential pressure reversals.
- Barrel Slip distributes load & minimizes casing stress. Bi-directional, hardened slips are suitable for all grades of casing.
- Packers may be run in tandem with Upper Polished Bore Receptacle.
- A left hand thread is provided in the body head of the packer. This accepts standard packer accessories and also provides a means of positioning the retrieving tool.
- The releasing mechanism for the packer is not affected by differential pressure or tail pipe weight.
- Short overall length facilitating easy running/retrieving through doglegs and tight spots.
- The Packer is designed and tested in accordance with API 11D1 & ISO 14310 V0 standards.
- Differential Pressure rating 10,000 psi.

OPERATION

These Packers are set by pressurizing the tubing to obtain a differential at the packer. To accomplish this, a means of temporarily plugging the tubing below the packer must be provided.

The following means are use for plugging the tubing:

1. Hydro-Trip Pressure Sub
2. Seating Nipple with Blanking Plug
3. Shear out Ball Seat Sub



WC-20113

HYDRAULIC SET SINGLE SEAL
BORE RETRIEVABLE PACKER

SPECIFICATION GUIDE (WC-HSSRP-1)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	Seal Bore (in.)	ID Thru Seals (in.)	Differential Pressure Rating (psi)	API 11D1 Validation Grade
7	26-29	6.184	6.276	5.955	3.875	3.000	10,000	V3
	32-35	6.004	6.094	5.812				
9 5/8	43.5-47	8.681	8.755	8.450	4.750	3.875	10,000	V3
	47-53.5	8.535	8.681	8.335				

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

NOTE: WELLCARE MODEL WC-HSSRP-1 IS AVAILABLE ON REQUEST IN V0 VALIDATION GRADE.

HYDRAULIC SET DOUBLE SEAL
BORE RETRIEVABLE PACKER

SPECIFICATION GUIDE (WC-HDSRP-1)

Casing Specification				Packer Specification					
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	Upper Seal Bore (in.)	Lower Seal Bore (in.)	ID Thru Seals (in.)	Differential Pressure Rating (psi)	API 11D1 Validation Grade
7	26-29	6.184	6.276	5.955	4.750	3.875	3.875	10,000	V3
	32-35	6.004	6.094	5.812					
9 5/8	43.5-47	8.681	8.755	8.450	6.000	4.875	4.875	7,500	V3
	47-53.5	8.535	8.681	8.335					

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

NOTE: WELLCARE MODEL WC-HDSRP-1 IS AVAILABLE ON REQUEST IN V0 VALIDATION GRADE.
THIS PACKER IS ALSO AVAILABLE WITH SHIFT TO RELEASE FEATURE ON SLICK LINE.

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WELLCARE OIL TOOLS

EXTENDED REACH RETRIEVABLE SINGLE SEAL BORE PACKER

OVERVIEW

The **Wellcare Model WC-ERSP** packer is also used in high temperature environments for hydro fracturing and gravel-packing operations. It is suitable for use in all types of sand control and production applications and is compatible with production gravel-packing tools and procedures. Its rugged design optimizes all critical performance parameters, including differential pressure and temperature rating, casing footprint, and internal sealing reliability.

The **EXTENDED REACH RETRIEVABLE SEAL BORE PACKER** is deployed on tubing or drill pipe and is hydraulically set by applying pressure to the setting tool. Retrieval is by means of an intervention tool.

The ERSP packer is particularly suitable for Extended Reach Drilling (ERD) Wells. It is run with Wellcare Model WC-HSHK Running Tool and the retrieving of this packer is done independently by means of Retrieving Tool, manipulated on a work string.

MODEL: WC-ERSP (SINGLE SEAL BORE)

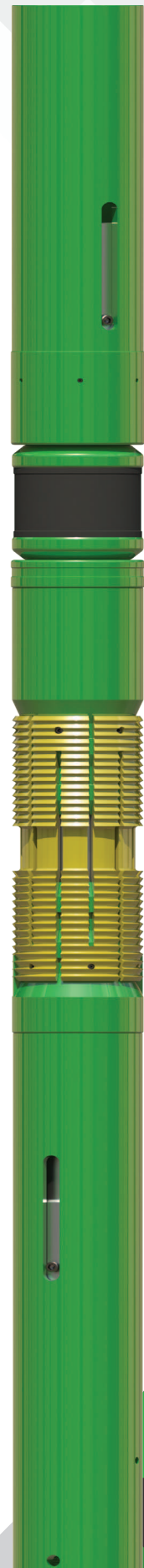
MODEL: WC-ERDSP (DOUBLE SEAL BORE)

FEATURES AND BENEFITS

- Barrel-slip design distributes load & minimizes casing stress.
- Design has minimal sealing points, eliminating / reducing potential leak paths.
- Bi-directional hardened slips hold the packer securely against well pressures in all casing grades (including P110 and Q125) from above and below.
- Threaded bottom subs are provided as a separate item for running gravel pack flow subs, seal bore extensions, or tubing tailpipe of varying types and sizes.

APPLICATIONS

- High Pressure High Temperature Environments.
- Deep Water Projects.
- Horizontal Deviated and Straight wells



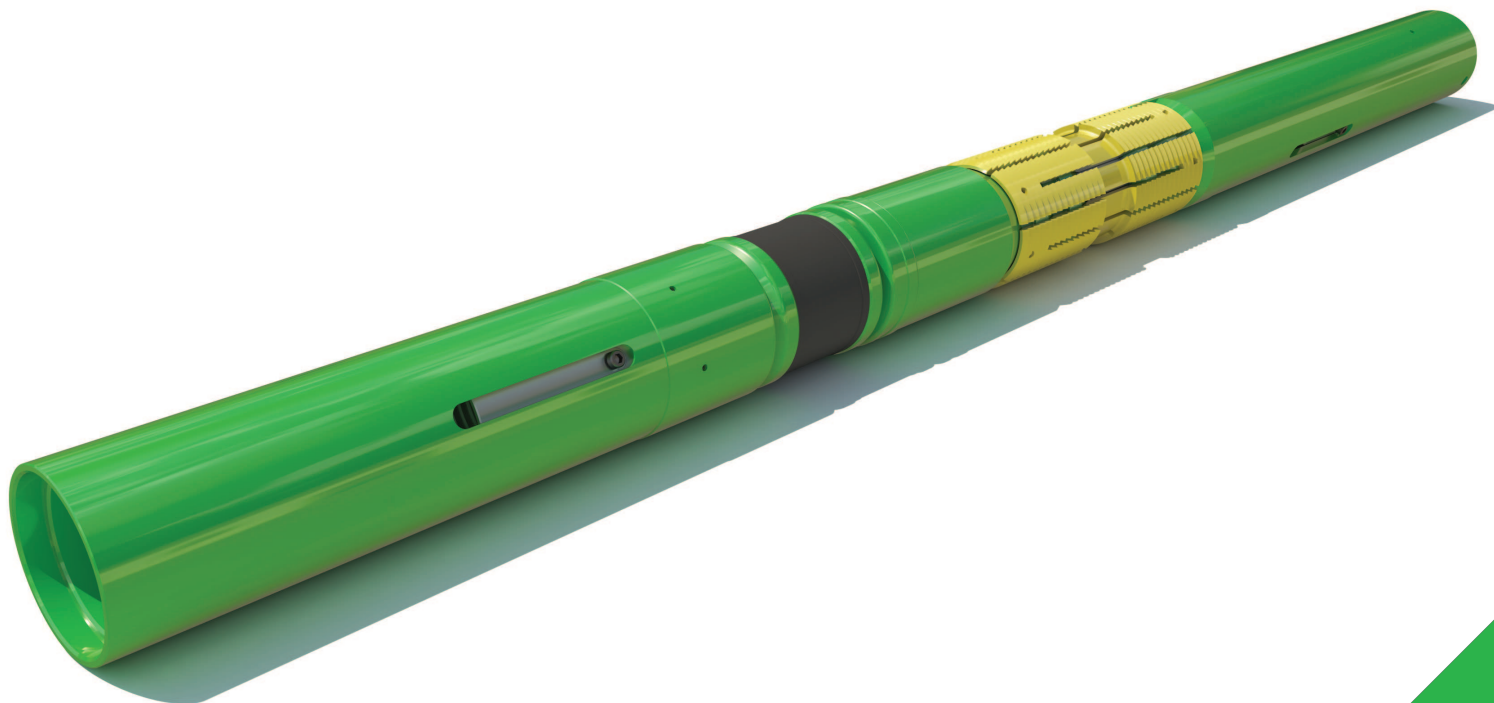
EXTENDED REACH RETRIEVABLE
SINGLE SEAL BORE PACKER

SPECIFICATION GUIDE (WC-ERSP)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	Seal Bore (in.)	ID Thru Seals (in.)	Differential Pressure Rating (psi)	API 11D1 Validation Grade
5 1/2	15.5-17	4.892	4.950	4.722	2.688	1.995	10,000	V3
	20-23	4.670	4.778	4.500				
7	26-29	6.184	6.276	5.955	3.250	2.406	10,000	V3
	32-35	6.004	6.094	5.812				
	26-29	6.184	6.276	5.955	4.000	3.000	7,500	
	32-35	6.004	6.094	5.812				
7 5/8	26.4-29.7	6.875	6.969	6.688	4.000	3.000	10,000	V3
	33.7-39	6.625	6.765	6.438				
9 5/8	43.5-47	8.681	8.755	8.450	4.000 / 4.750 / 6.000	3.000 / 3.875 / 4.875	10,000	V3
	47-53.5	8.535	8.681	8.335				
10 3/4	60.7-65.7	9.560	9.660	9.340	6.000	4.875	10,000	V3

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

NOTE: WELLCARE MODEL WC-ERSP IS AVAILABLE ON REQUEST IN V0 VALIDATION GRADE.



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WELLCARE OIL TOOLS

EXTENDED REACH RETRIEVABLE SEAL BORE PACKER

OVERVIEW

The **Wellcare Model WC-ERSP-1** packer is also used in high temperature environments for hydro fracturing and gravel-packing operations. It is suitable for use in all types of sand control and production applications and is compatible with production gravel-packing tools and procedures. Its rugged design optimizes all critical performance including differential pressure and temperature rating, casing footprint, and internal sealing reliability.

The EXTENDED REACH RETRIEVABLE SEAL BORE PACKER is deployed on tubing or drill pipe and is hydraulically set by applying pressure to the setting tool. Retrieval is by means of an intervention tool. This packer can also be set on wireline.

The ERSP-1 packer is particularly suitable for Extended Reach Drilling (ERD) Wells. It is run with Wellcare Model WC-HTHST Running Tool and the retrieving of this packer is done independently by means of Retrieving Tool, manipulated on a work string.

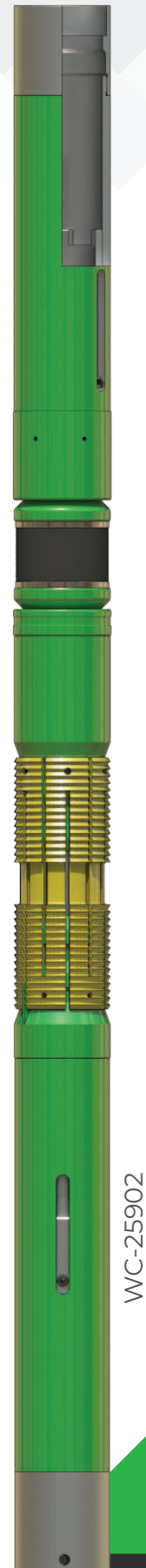
MODEL: WC-ERSP-1, PRODUCT No. WC-25902

FEATURES

- Barrel-slip design distributes load & minimizes casing stress.
- Torque-through feature eases installation of long assemblies in tortuous well path.
- Design has minimal sealing points, eliminating / reducing potential leak paths.
- Bi-directional hardened slips hold the packer securely against well pressures in all casing grades (including P110 and Q125) from above and below.
- Threaded bottom subs are provided as a separate item for running gravel pack flow subs, seal bore extensions, or tubing tailpipe of varying types and sizes.

APPLICATIONS

- High Pressure High Temperature Environments.
- Deep Water Projects.
- Horizontal Deviated and Straight wells



EXTENDED REACH RETRIEVABLE
SEAL BORE PACKER

SPECIFICATION GUIDE (WC-ERSP-1)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	Seal Bore (in.)	ID Thru Seals (in.)	Differential Pressure Rating (psi)	API 11D1 Validation Grade
7	26-29	6.184	6.276	5.955	3.250	2.406	10,000	V3
	32-35	6.004	6.094	5.812				
	26-29	6.184	6.276	5.955	4.000	3.000	7,500	
	32-35	6.004	6.094	5.812				
7 5/8	26.4-29.7	6.875	6.969	6.688	4.000	3.000	10,000	V3
	33.7-39	6.625	6.765	6.438				
9 5/8	43.5-47	8.681	8.755	8.450	4.000 / 4.750 / 6.000	3.000 / 3.875 / 4.875	10,000	V3
	47-53.5	8.535	8.681	8.335				
10 3/4	60.7-65.7	9.560	9.660	9.340	6.000	4.875	10,000	V3

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

NOTE: WELLCARE MODEL WC-ERSP-1 IS AVAILABLE ON REQUEST IN V0 VALIDATION GRADE.

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WELLCARE OIL TOOLS

WIRE LINE SET RETRIEVABLE SEAL BORE PACKER

OVERVIEW

The **Wellcare Model WC-WSRP** is a Wireline Set Retrieable Seal Bore Packer that is installed using wireline adaptor kit and wireline pressure setting assembly. This packer can also be set hydraulically by using wireline adapter kit and size 20 Hydraulic Setting Tools. The retrieving of this packer is done by means of Retrieving Tool, manipulated on a work string.

FEATURES AND BENEFITS

- Run and set with the production tubing.
- Effects on the tubing (compression and tension) are transmitted to slips- there is no shear ring which limits these stresses. Retrieval independent of the tubing with a Retrieving Tool. It can be Left at the bottom of the well with a wire line plug in a nipple profile to isolate the formation.
- Opposed slips positioned under the packing element to avoid problems with retrieval due to annulus setting of well debris.

APPLICATIONS

Model: WC-WSRP Retrieable Hydraulic Seal Bore Packer can be used as a Single string packer in oil production wells.

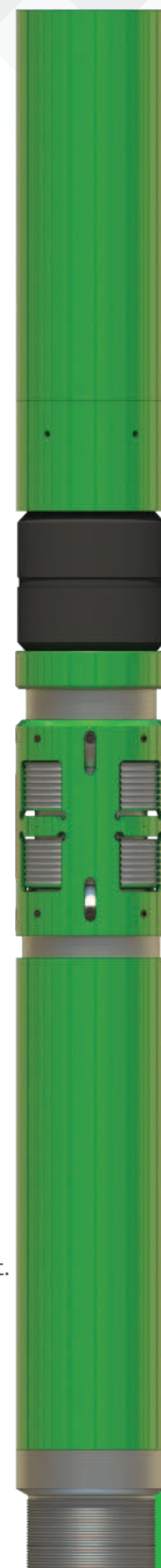
WIRE LINE SET RETRIEVABLE SEAL BORE PACKER SPECIFICATION GUIDE (WC-WSRP)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	Seal Bore (in.)	ID Thru Seals (in.)	Differential Pressure Rating (psi)	API 11D1 Validation Grade
7	26-29	6.184	6.276	5.955	3.250 /	2.406 /	5,000	V3
	32-35	6.004	6.094	5.812	4.000	3.000		

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

For more information, contact **Wellcare** representative or visit us at www.wellcareoiltools.com

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HYDRAULIC SET DOUBLE SEAL BORE RETRIEVABLE PACKER

OVERVIEW

The **Wellcare WC-HDSRP-15** is a Hydraulic Set Seal Bore Shift-To-Release packer that combines the pressure and temperature ratings and reliability of a permanent packer with the convenience of a retrievable packer. The WC-HDSRP-15 retrievable packer is designed as a retrievable packer suitable for high differential pressure and high temperature applications. The barrel slip located below the elements uniformly distributes the packer to casing loads. The propped element package reliably seals the high pressures and can be retrieved with the packer. Once this packer is run and set, it is released by retrieving tool and all of the packer components along with the tailpipe can be retrieved from the well.

The Packer is fully compatible with standard WELLCARE sealing accessories & tools

FEATURES AND BENEFITS

- The releasing mechanism for the packer is not affected by differential pressure or tail pipe weight.
- No milling required to retrieve HDSRP-15 packer
- Maximum sealing and retrieving reliability
- Design to minimize rig time during completion and decompletion
- Barrel slip design for high load capability
- Metal-to-metal backup shoes with 360° casing wall contact for element containment and reliability
- No mandrel movement operation
- Differential Pressure rating upto 15,000 psi

APPLICATIONS

- Hot, corrosive, deep, deviated, production or test completions.
- Wells where minimum casing deformation or damage is desired.
- Single-trip completions.
- Liner top isolation / mono bore completions



HYDRAULIC SET DOUBLE SEAL BORE RETRIEVABLE PACKER SPECIFICATION GUIDE (WC-HDSRP-15)

Casing Specification				Packer Specification					
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	Upper Seal Bore (in.)	Lower Seal Bore (in.)	ID Thru Seals (in.)	Differential Pressure Rating (psi)	API 11D1 Validation Grade
7	35-38	6.004	6.094	5.730	4.000	2.750	2.720	15,000	V3

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

NOTE: WELLCARE MODEL WC-HDSRP-15 IS AVAILABLE ON REQUEST IN V0 VALIDATION GRADE. THIS PACKER IS ALSO AVAILABLE WITH SHIFT TO RELEASE FEATURE.

For more information, contact **Wellcare** representative or visit us at www.wellcareoiltools.com

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WIRE LINE SET SINGLE & DOUBLE SEAL BORE DRILLABLE PACKER

OVERVIEW

The Wire Line Set Drillable Packer is a high-performance permanent production packer. It is frequently used as a high-performance squeeze or as a permanent or temporary bridge plug by using Blanking plug below the packer. The standard version of the Wire Line Set Drillable Permanent Production Packer has a 70 duro hard nitrile packing element and is rated at 10,000 psi differential pressure up to 300°F. For bottom-hole temperatures between 300°F and 400°F, a 90 duro hard packing element should be specified.

MODEL: WC-WSSDP (Single Bore)

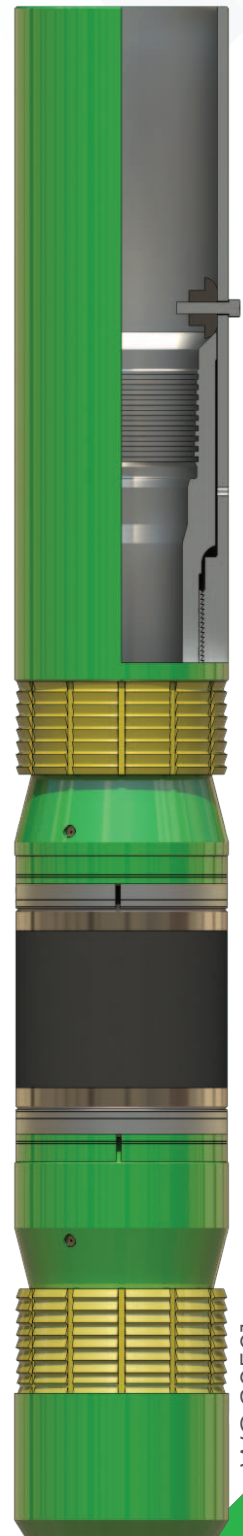
MODEL: WC-WSDDP (Double Bore)

FEATURES AND BENEFITS

- Proven reliability.
- Slim-lined Solid construction that makes possible significant savings in rig time by providing a faster run-in without fear of impact damage or premature setting.
- Two opposed sets of full-circle, full-strength slips.
- A packing element that resists swab off but packs off securely when the packer is set.
- A smooth, continuous ID sealing bore.
- Unique Interlocked expandable metal back-up rings that contact the casing creating a positive packing element extrusion barrier.

OPTIONAL EQUIPMENT

An optional Stinger Sub for holding open the Flapper Valve on the Packers is available upon request.



WIRE LINE SET SINGLE SEAL BORE
DRILLABLE PACKER

SPECIFICATION GUIDE (WC-WSSDP)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	Seal Bore (in.)	ID Thru Seals (in.)	Differential Pressure Rating (psi)	API 11D1 Validation Grade
5	15-21	4.125	4.408	3.968	2.500	1.875	10,000	V3
					1.968	1.000		
5 1/2	14-23	4.670	5.012	4.500	2.688	1.938	10,000	V3
7	32-38	5.920	6.094	5.468	3.250	2.406	10000	V3
6 5/8	17-32							
	17-20	6.004	6.366	5.687				
7	23-35							
	17-20							
7 5/8	33.7-39	6.765	7.011	6.375				
	24-33.7							
9 5/8	32.3-53.5	8.535	9.001	8.125	4.000	3.000	10,000	V3
					3.250	2.406		

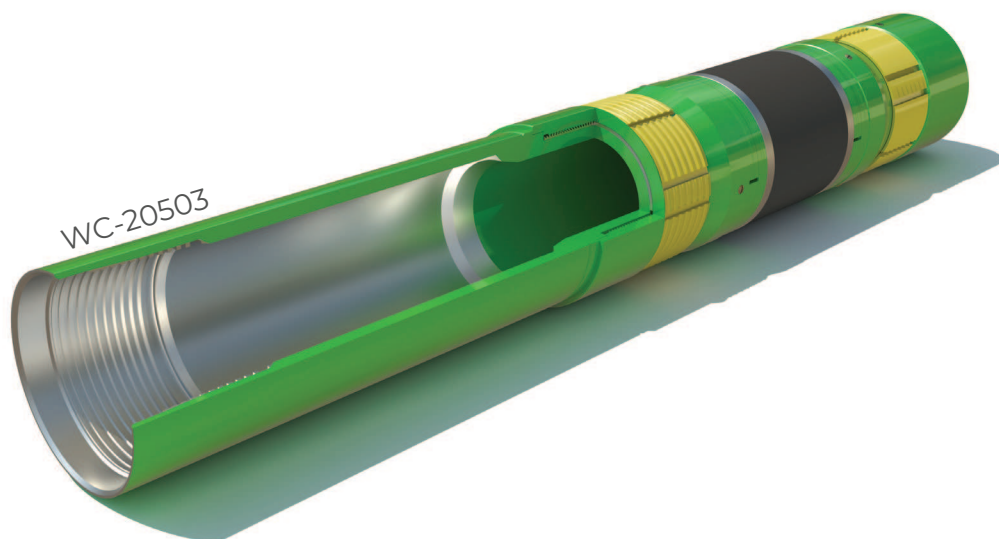
NOTE: Additional size/weight, end connection, pressure rating, etc. are also available on request.

WIRE LINE SET DOUBLE SEAL BORE
DRILLABLE PACKER

SPECIFICATION GUIDE (WC-WSDDP)

Casing Specification				Packer Specification						
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	Upper		Lower		Differential Pressure Rating (psi)	API 11D1 Validation Grade
					Seal Bore (in.)	ID Thru Seals (in.)	Seal Bore (in.)	ID Thru Seals (in.)		
5 1/2	14-23	4.670	5.012	4.500	3.250	2.500	2.688	1.968	10,000	V3
7	32-38	5.920	6.094	5.468	4.000	3.250	3.250	2.406	10000	V3
6 5/8	17-32									
	17-20	6.004	6.366	5.687						
7	23-35									
	17-20									
7 5/8	33.7-39									
	24-33.7	6.765	7.011	6.38						

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



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WELLCARE OIL TOOLS

WIRE LINE SET SINGLE & DOUBLE LARGE SEAL BORE DRILLABLE PACKER

OVERVIEW

The Model WC-WLSDP & WC-WLDDP Retainer Production Packers are offered to further improve the present line of drillable-type Production Packers. They combine the best features of both Model WSSDP and WSDDP Retainer Production Packers to provide the following operational advantages.

- Largest possible opening through a Drillable Packer.
- May be set on wire line using the simpler Model "W" Wire Line Adapter Kit or on tubing.
- Accepts standard accessories such as Seal Nipples etc.
- Permits extensions or tailpipe to be attached below the Packer when assembled with threaded guides.
- Tailpipe load transmitted directly into the Body.

MODEL: WC-WLSDP (Single Large Bore)

MODEL: WC-WLDDP (Double Large Bore)

FEATURES AND BENEFITS

- Solid, slim-line construction and a packing element system that resists swab-off. This provides a faster run-in time without fear of impact damage or premature setting, yet packs-off securely and permanently when the Packer is set.
- Two opposed sets of full-circle; full strength slips assure that the Packer will stay where it is set.
- Unique interlocked, expandable metal back-up rings contact the casing and create a positive barrier to Packing Element extrusion.
- The largest possible opening through a drillable Packer.



WIRE LINE SET SINGLE LARGE SEAL BORE
DRILLABLE PACKER

SPECIFICATION GUIDE (WC-WLSDP)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	Seal Bore (in.)	ID Thru Seals (in.)	Differential Pressure Rating (psi)	API 11D1 Validation Grade
5 1/2	13-14	5.012	5.044	4.750	3.000	1.968	10,000	V3
	14-17	4.812	5.012	4.562				
	20-23	4.670	4.778	4.438				
7	20-26	6.276	6.456	6.000	4.000	3.000	10,000	V3
	26-32	6.094	6.276	5.875				
6 5/8	17							
	20-24							
7	32-38	6.625	6.765	6.250				
	17							
7 5/8	33.7-39	6.765	7.011	6.500	4.400/4.000	3.500/3.000		
	24-33.7							
9 5/8	36-47	8.681	8.921	8.438	6.000	4.875	10,000	V3
	40-53.5	8.535	8.835	8.218				
10 3/4	32.15-60.7	9.660	10.190	9.438	6.000	4.875	10,000	V3
	79.2-85.3	9.156	9.282	8.938				

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

WIRE LINE SET DOUBLE LARGE SEAL BORE
DRILLABLE PACKER

SPECIFICATION GUIDE (WC-WLDDP)

Casing Specification				Packer Specification						
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	Upper		Lower		Differential Pressure Rating (psi)	API 11D1 Validation Grade
					Seal Bore (in.)	ID Thru Seals (in.)	Seal Bore (in.)	ID Thru Seals (in.)		
5 1/2	13-14	5.012	5.044	4.750	3.625	3.000	3.000	1.968	10,000	V3
	14-17	4.812	5.012	4.562						
	20-23	4.670	4.778	4.438						
7	20-26	6.276	6.456	6.000	4.750	4.031	4.000	3.000	10,000	V3
	23-32	6.094	6.366	5.875						
6 5/8	17									
	20-24									
7	32-38	6.625	6.765	6.250						
	17									
7 5/8	33.7-39	6.765	7.011	6.500	4.400/4.000	3.500/3.000				
	24-33.7									
9 5/8	36-47	8.681	8.921	8.438	7.375	6.031	6.000	4.875	10,000	V3
	40-53.5	8.535	8.835	8.218						
10 3/4	32.15-60.7	9.660	10.190	9.438	7.375	6.031	6.000	4.875	10,000	V3
	79.2-85.3	9.156	9.282	8.938						

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

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HYDRAULIC SET SINGLE / DOUBLE / LARGE SEAL BORE DRILLABLE PACKER

OVERVIEW

The **Model WC-HSSDP and WC-HSDDP Hydraulic Set Seal Bore Drillable Packers** are hydraulically set versions of the WC-WSSDP Packer. WC-HSDDP Model has an enlarged upper seal bore, which permits the maximum possible bore through the seal accessory which is latched into the packer. These Packers incorporate maximum strength, uniformity of setting pressure, standardization of materials and a one-piece body.

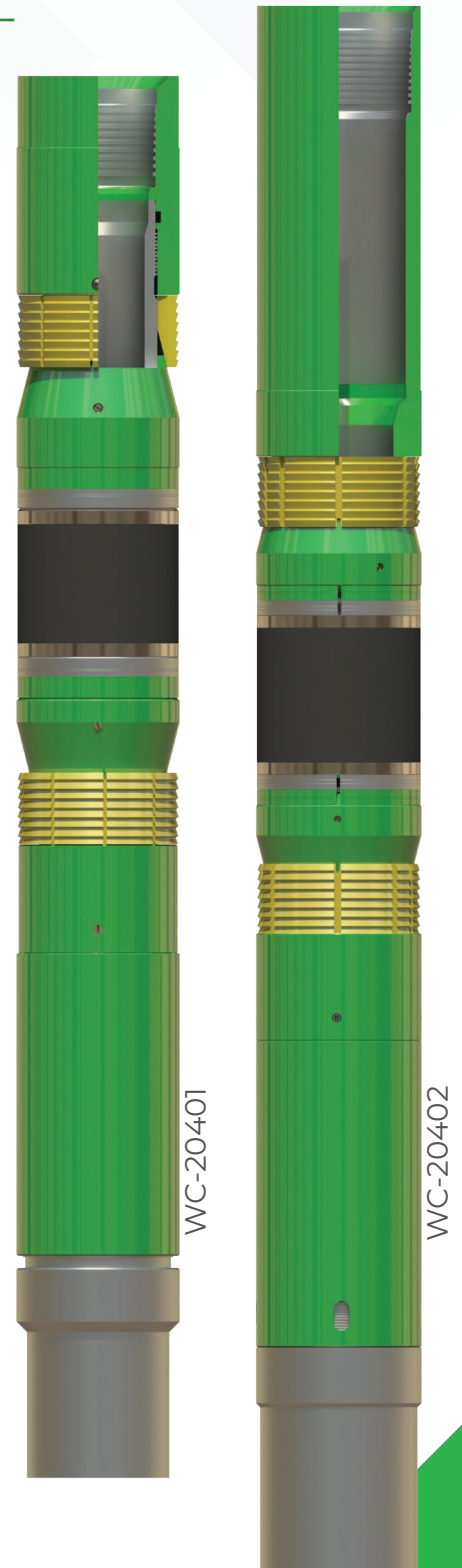
The range of bore sizes offered is such that accessories which are used for WC-WSSDP series of Packers may also be used with the WC-HSDDP Packers.

The Large Bore Packers are made in sizes which enables them to use the range of accessories which is available for drillable series of Packers. They have a lower pressure rating because of the increased bore size. The hydraulic setting mechanism makes packers particularly suitable for use in highly deviated wells. Careful choice of materials for components, which are exposed to the well fluids, enables the packers to be used in a wide range of operating conditions.

MODEL: WC-HSSDP (Single Bore) | WC-HSSDPL (Single Large Bore)
MODEL: WC-HSDDP (Double Bore) | WC-HSDDPL (Double Large Bore)

FEATURES AND BENEFITS

- Solid, slim lined construction and a packing element system which resists swab-off. This permits a fast run-in (when compared with earlier models of permanent packers) without fear of impact damage or premature setting, yet packs off securely and permanently when the packer is set.
- Two opposed sets of full circles; full strength slips ensure that the packer will stay where it is set.
- Interlocked expandable metal back-up rings contact the casing and create a positive barrier to packing element extrusion.
- Setting requires no rotation or reciprocation, thereby eliminating the problems of spacing out, landing etc.
- The WC-HSDDP Packer is run with Anchor Seal Nipples or WC-STNE-1 Setting Tool Nipple.
- All O-Rings which separate casing and annulus pressures are supported by back-up rings to improve long term seal integrity.
- These Packers are designed to withstand pressure differentials up to 10,000 psi.
- Guide furnished as standard, allowing the attachment of a mill out extension or other equipment below the packer.
- These packers are available in all industry standard grades of steel for standard and sour services.



• Fluid displacement is possible after well is flanged up and prior to setting the packer.

• Setting sequence of packer may be controlled to start at 1,500 psi.

HYDRAULIC SET SINGLE & DOUBLE SEAL BORE DRILLABLE PACKER

SPECIFICATION GUIDE (WC-HSSDP)

Casing Specification				Packer Specification				
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	Seal Bore (in.)	ID Thru Seals (in.)	Differential Pressure Rating (psi)	API 11D1 Validation Grade
5	15-21	4.125	4.408	3.968	1.968	0.984 1.312	10000	V3
5 1/2	13-17	4.892	5.044	4.500	2.500	1.865	10,000	V3
6 5/8	17-32	5.675	6.094	5.468	3.250	2.406	10,000	V3
7	32-44							
	20-35	6.004	6.456	5.688				
6 5/8	17-20							
7	17-20							
7 5/8	33.7-39	6.765	7.011	6.375				
	24-33.7							
9 5/8	32.3-58.4	8.435	9.001	8.125	3.250	2.406 1.990	10,000	V3
						4.750		
						47-58.4		

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

SPECIFICATION GUIDE (WC-HSDDP)

Casing Specification				Packer Specification						
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	Upper		Lower		Differential Pressure Rating (psi)	API 11D1 Validation Grade
					Seal Bore (in.)	ID Thru Seals (in.)	Seal Bore (in.)	ID Thru Seals (in.)		
5	15-21	4.125	4.408	3.968	3.000	2.390	1.968	0.984 1.312	10,000	V3
5 1/2	20-23	4.892	5.044	4.500	3.250	2.500	2.500	1.865	10,000	V3
6 5/8	17-32	5.675	6.094	5.468	4.000	3.250	3.250	2.406	10,000	V3
7	32-44									
	20-35	6.004	6.456	5.688						
6 5/8	17-20									
7	17-20	6.456	6.765	6.187						
7 5/8	33.7-39									
	24-33.7	6.765	7.011	6.375						
9 5/8	32.3-58.4	8.435	9.001	8.125	4.750	3.875	3.875	2.500	10,000	V3
						4.000	4.000	3.000		
					6.000	4.875	4.875 Non Sealing Bore			
							4.750	3.000		
								3.875		

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

HYDRAULIC SET DOUBLE LARGE SEAL BORE DRILLABLE PACKER

SPECIFICATION GUIDE (WC-HSDDPL)

Casing Specification				Packer Specification						
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	Upper		Lower		Differential Pressure Rating (psi)	API 11D1 Validation Grade
					Seal Bore (in.)	ID Thru Seals (in.)	Seal Bore (in.)	ID Thru Seals (in.)		
5 1/2	20-23	4.670	4.778	4.450	3.625	2.780	2.780 Non-Sealing Bore		10,000	V3
6 5/8	17	6.095	6.276							
7	20-26	6.276	6.456	6.000	4.750	3.875	3.875	2.500	10,000	V3
	23-32	6.094	6.366	5.875			3.958 Non Sealing Bore			
6 5/8	17									
7	32-38									
7 5/8	24-33.7	6.765	7.011	6.500			3.875	2.500		
9 5/8	36-47	8.681	8.921	8.438	7.375	6.031	6.000	4.875	10,000	V3
	40-53.5	8.535	8.835	8.218						
10 3/4	32.75-60.7	9.660	10.190	9.438	7.375	6.031	6.000	4.875	10,000	V3
	79.2-85.3	9.156	9.282	8.938						

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

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WELLCARE OIL TOOLS

RETAINER PRODUCTION PACKER

OVERVIEW

The **RETAINER PRODUCTION PACKER** have the body lock ring and setting sleeve on the lower end of the packer and incorporate an oversized seal bore in the upper end. Because size limitations prevented conversion into the top set design, all the small size WC-FAB Packers remain bottom-set. Those older versions bottom-set packers that remain in the product line are covered in this unit.

The Model WC-FAB Retainer Production Packer in small sizes is equipped with a threaded bottom guide to accommodate various extensions. Available extensions include the Mill- out Extension and Seal Bore Extension.

FEATURES AND BENEFITS

- The **WELLCARE Model WC-FAB Retainer Production Packer**, set with the **Wireline Pressure Setting Assembly**, provides a safe, fast and economical method of placing a permanent large-bore drillable Packer at any predetermined point in the casing.
- The smaller sizes of the **Model WC-FAB Retainer Production Packers** are designed for tubing less completion. They have a large upper sealing bore that allows the largest possible opening through the Packer. All sizes include a lower sealing bore that can be used if necessary.
- The **Wireline Adapter Kit**, Product must be ordered specifically for the **Model WC-FA Packer** however, all other **Wireline Setting Tools** are the same as those used to set Models **WC-WSSDP** and **WC-WSDDP Packers**.
- The Packer can also be set on tubing or drill pipe using the **Hydraulic Setting Assembly**, and being used in conjunction with a **Wireline Adapter Kit**. For additional information concerning tubing setting, refer to other units within **Service Packers**. For assembly information and instructions, setting procedures and disassembly instructions on the **Wireline Pressure Setting Assembly**, refer to units filed within **Service Packers "Wireline Setting Equipment"**

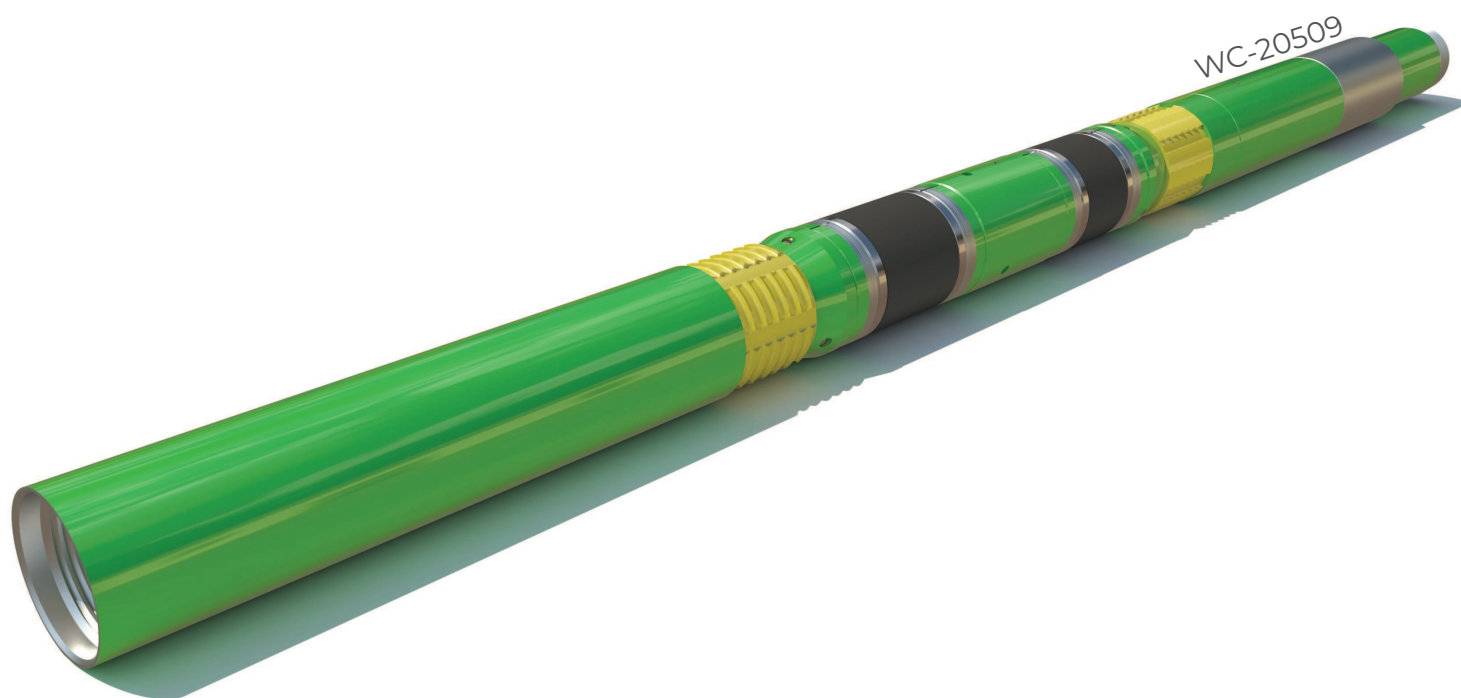


RETAINER PRODUCTION PACKER

SPECIFICATION GUIDE (WC-FAB)

Casing Specification				Packer Specification						
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	Upper		Lower		Differential Pressure Rating (psi)	API 11D1 Validation Grade
					Seal Bore (in.)	ID Thru Seals (in.)	Seal Bore (in.)	ID Thru Seals (in.)		
3 1/2	7.7-9.3	2.992	3.075	2.765	2.188	1.531	1.531	1.000	10,000	V0
4 1/2	9.5-11.6	4.000	4.124	3.718	3.000	2.390	2.390	1.703	10,000	V0
	11.6-16.6	3.781	4.000	3.593						

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



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HYDRO TRIP PRESSURE SUB

OVERVIEW

The **Wellcare Model WC-HTS Hydro Trip Pressure Sub** features a ball seat design that assures expansion of the collet-type fingers into their groove in the top sub once the brass screws are sheared permitting a full-opening ID for passage of tripping balls, wireline tools, etc.

The Model Hydro-Trip Pressure Sub is installed in the tubing string below a hydraulically actuated tool such as a hydrostatic packer to provide a method of applying the tubing pressure required to activate the tool.

To set a hydraulic / hydrostatic packer, the recommended size tripping ball is circulated through the packer to a seat in the Hydro-Trip Pressure Sub and sufficient tubing pressure is applied to activate the setting mechanism in the packer. After the packer is set, a pressure increase shears the brass screws and forces the ball seat down until the fingers snap into a groove in the top sub. The Hydro-Trip Pressure Sub is then full-opening, and the ball passes down through the tubing.

HYDRO TRIP PRESSURE SUB SPECIFICATION GUIDE (WC-HTS)

Size (in)	Ball Size (in)	Ball Seat ID	
		Before Shifting (in)	After Shifting (in)
2 3/8	1-1/2	1.375	1.860
	1-3/4	1.625	1.995
2 7/8	2-1/8	1.875	2.375
3 1/2	2.450	2.165	2.780
	2-1/2	2.165	2.780
	2-1/2	2.229	2.862
4 1/2	3-3/8	3.075	3.865

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



BALL CATCHER SUB

OVERVIEW

The **Wellcare Model WC-BSC** Ball catcher sub provides a means of catching the ball and sheared out ball seat from a hydro trip pressure subs or pump out plugs. It has multiple sets of large diameter holes/slots those allow fluid passage without restriction

FEATURES/BENEFITS

- Catch the ball and seat.
- Large bypass area.
- Multiple sets of large diameter holes/slots.
- Holes are sized to allow fluid to pass through.

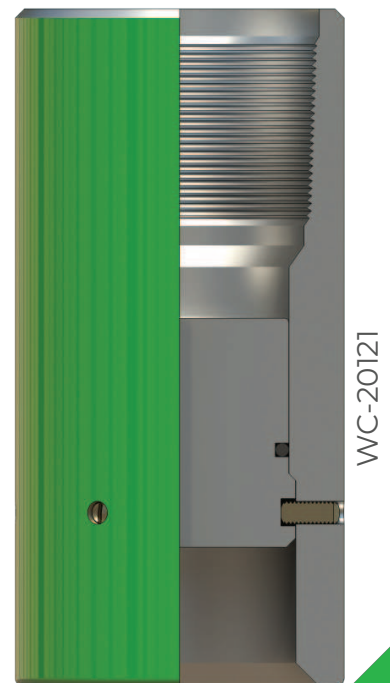


SHEAR OUT PLUG

MODEL : WC-SOP
PRODUCT No. : WC-20121

OVERVIEW

The **Wellcare Model WC-SOP** Shear-out Plug provides a means of temporarily plugging the bottom of a tubing string to prevent fluid flow up the tubing while tripping in the hole and against which pressure is being applied in order to set hydraulic packers.



AUTO FILL PUMP OUT PLUG

OVERVIEW

The **Wellcare Model WC-POP-A Auto-fill Pump Out Plug** is used as a tubing Plug device against which pressure can be applied in order to set Hydraulic Set Packers. The Pump out Ball Seat Sub is made up in the tail pipe below the Packer to be set.

In this model with the ball seating down, the Pump out Plug acts as a reverse check valve preventing flow down the string, while allowing the string to fill from below. Without need to drop a ball to seat, the tubing can be pressured up.

Once the Packer is set, tubing pressure is increased to shear the screws holding the ball seat sub. The ball seat and the ball with spring etc. are blown out of the sub to the bottom of the well.



PUMP OUT PLUG WITH HALF MULE

MODEL : WC-POP-H
PRODUCT No. : WC-20125

OVERVIEW

The **Wellcare Model WC-POP-H Pump-Out Plug With Half Mule** has been used as a tubing plugging device against which pressure may be applied in order to set various hydraulic Packers.

The Pump-Out Ball Seat Sub is made up in the tail pipe below the packer and a ball is dropped through the packer to its seat in the sub. Pressure is then applied to set the packer.

Once the packer is set, tubing pressure is increased to shear the screws holding the ball seat in the sub.

The ball and ball seat are blown out of the sub to the bottom of the well. Any tubing run below the Ball Seat Sub should have sufficient ID clearance to permit passage of the ball and ball seat.

FOLLOWING PUMP OUT PLUG ALSO AVAILABLE ON REQUEST.

1. With Full Mule Shoe
2. Without Mule Shoe
3. With Chamfered Bell Bottom



ROTATIONAL RELEASE SAFETY JOINT

OVERVIEW

The **Wellcare Model WC-SJ-1 Rotational Release Safety Joint** provides for emergency recovery of the major portion of the tubing string while it becomes necessary to abandon the equipment under the string.

FEATURES

- Left hand square thread
- Release by right hand tubing rotation

OPERATION

Rotational release safety joint provides for emergency recovery of the major portion of the tubing string while it becomes necessary to abandon the equipment under the string. Precision left hand square threads facilitate release of the joint by right hand tubing rotation. Equipment requiring right hand rotation should not be used below the safety joint.

ROTATIONAL RELEASE SAFETY JOINT SPECIFICATION GUIDE (WC-SJ-1)

Size (in)	Max OD (in)	Nom ID (in)
2 3/8	3.094	1.929
2 7/8	3.688	2.441
3 1/2	4.500	2.992
4	4.340	3.428
4 1/2	5.031	3.900
7	8.531	6.250

This Model is drifted with the corresponding API tubing drift size.

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



SHEAR OUT SAFETY JOINT

OVERVIEW

The **Wellcare Model WC-SJ-T Shear Out Safety Joint** is designed for use between a Packer and a Sand Screen to provide a means of releasing and retrieving the production string, should the screen get chocked in. It may also be used in any application where an upstrain type of releasing device can be used.

In determining the desired shear-out force, two factors should be considered.

- Pressure in favor of the tubing acts on a sealed-off area tending to shear the Joint loose.
- The total weight of all tubing and equipment suspended below the Joint is carried by the Shear Screws.

FEATURES

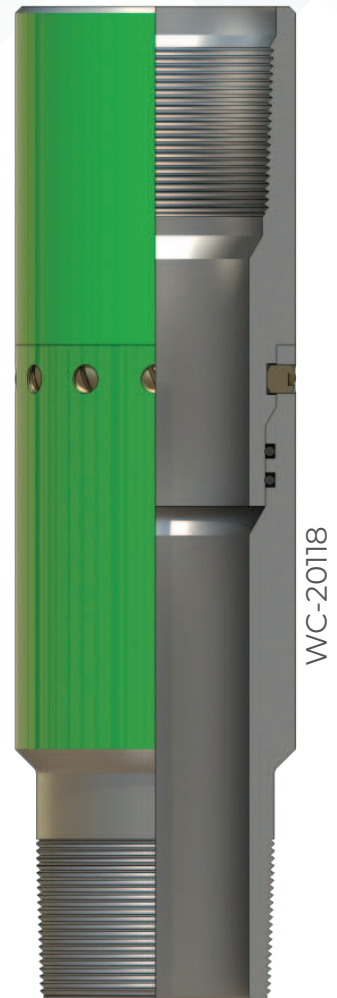
The shear value of the Safety Joint can be adjusted, by varying the number of shear screws used, within the recommended ranges.

SHEAR OUT SAFETY JOINT SPECIFICATION GUIDE (WC-SJ-T)

Size (in)	Max OD (in)	Nom ID (in)
1.9	2.220	1.530
2 3/8	3.094	2.000
2 7/8	3.719	2.422
3 1/2	4.531	2.984

This Model is drifted with the corresponding API tubing drift size.

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



NON ROTATIONAL SHEAR OUT SAFETY JOINT

OVERVIEW

The **Wellcare Model WC-SOS-AR Non Rotational Shear-Out Safety Joint** is used between packers in dual and triple completions and in selective completions using Hydrostatic Single-String Packers. It is also used when rotational releasing is not desired. When run above the upper packer in a single-string completion, however the shear value should be adjusted to compensate for any hydraulic conditions that exist when the string is landed, or that are created by well treating operations.

FEATURES

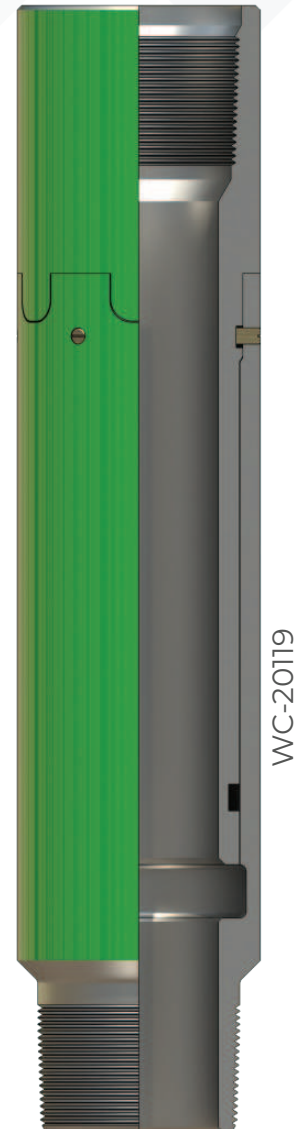
- The shear value of the Safety Joint can be adjusted, by varying the number of shear screws used, within the recommended ranges.
- This Model has Torque transmission feature.

NON ROTATIONAL SHEAR OUT SAFETY JOINT SPECIFICATION GUIDE (WC-SOS-AR)

Size (in)	Max OD (in)	Nom ID (in)
1.900	2.510	1.620
2 1/16	2.510	1.620
2 3/8	2.875	1.995
2 7/8	3.688	2.441
3 1/2	4.500	2.992

This Model is drifted with the corresponding API tubing drift size.

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



HYDRAULIC SETTING TOOL

OVERVIEW

The **Wellcare Model WC-HST** Hydraulic Setting Tool is used to set Seal Bore Packer and Retrievable Bridge Plug.

The Packer is run with Wire Line Adapter Kit, attached to Hydraulic setting tool (size #5, #10 or #20) on the drill pipe or tubing to setting depth. A ball is dropped to the ball seat in the setting tool. Sufficient tubing pressure is then applied to set and pack off the packer. The pressure or combined pressure and tubing tension, parts the release stud in the adapter kit and frees the setting assembly from the packer for retrieval.

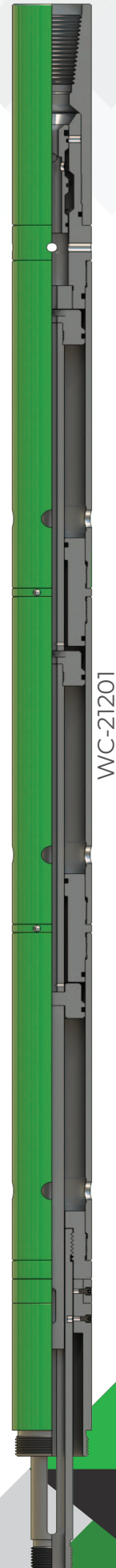
WC-HST setting tool is designed to withstand high-tensile loads and may be run with high temperature seals rated at 400°F. After the packer is run to setting depth, a tripping ball is dropped and seats in the setting tool. A combination of pressure and tension may be used to set the packer, the annulus may be pressurized to confirm the packer has been set successfully. Right hand rotation disengage the setting tool from the packer.

FEATURES & BENEFITS

- The feature of the Model 'WC-HST' Hydraulic Setting Tool is that it permits setting on Tubing equipment which could previously be set only with wire line setting tools. This is particularly advantageous in high angle or deviated wells, where wire line setting is extremely difficult.
- Premature setting is prevented by means of a shear screw in the cross link sleeve.
- The Tubing fills automatically as it is run in the hole through a ported top sub in the setting tool. These ports also permit circulation through the Setting tool at any time.

APPLICATION

- Particularly useful for setting packers in deviated wells or wells where it is difficult to set a wire line set packer.



RETRIEVING TOOL

OVERVIEW

The **Wellcare Model WC-RT & WC-RT-1** retrieving tool is used to retrieve Retrievable Seal Bore packers. It can be used with jars and the top sub has a tool joint connection for greater strength. Flat surfaces on the anchor mandrel and crossover sub provide superior jarring surfaces. The mandrel is rotationally locked to the anchor mandrel, allowing rotation in any position. For strength, all internal threads are acme and the entire tool is manufactured from heat-treated steel. The WC-RT is recommended for the most rugged conditions and it can be run with drill collars and jars. For proper retrieving operation, the WC-RT-1 & WC-RT retrieving tool must pass through and extend below the packer. When running accessory equipment on the packer, the ID immediately below the packer must be able to accept the retrieving tool.

OPERATION

To retrieve the packer, the retrieving tool is run on a workstring, string into the packer bore, and latched into the seal bore packer. Once latched, the tool locates the packer's release sleeve and moves it upward, allowing the packer to be released. Additional upward movement of the workstring releases the sleeve and moves the packer mandrel up, which allows the packer slips to retract and the packer to be retrieved.

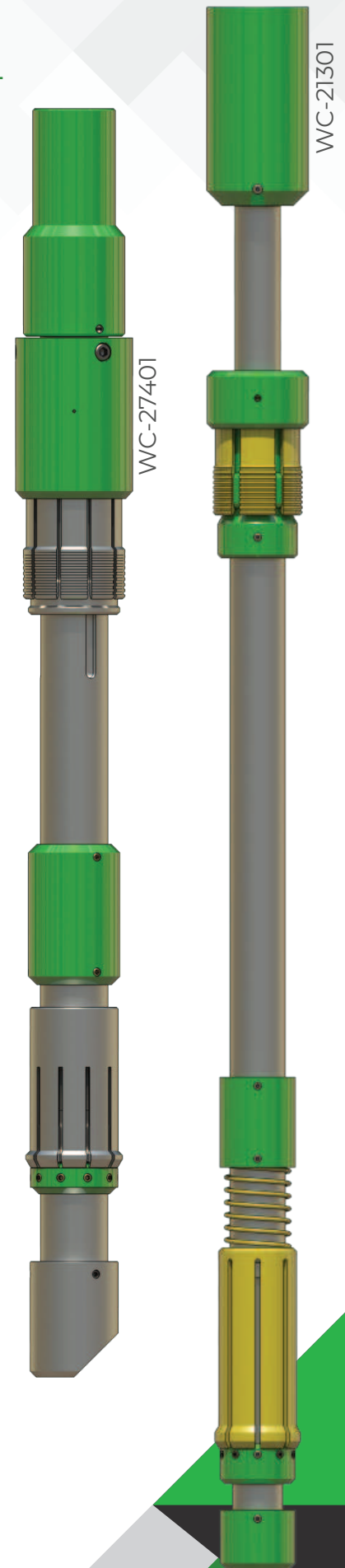
No rotation is necessary in the pulling operation. To release the pulling tool from the packer, only a pull load is needed on the tool. Additional rotation (six to eight turns) is required to release the tool from the packer top threads.

FEATURES & BENEFITS

- No rotation required for pulling operation
- Straight-through ID allows washing down to the packer

NOTE: All feasible distinct sizes of Retrieving Tool could be provided with specific grades of material and end connections; standard or premium thread, as per the customer's requirement.

ALSO AVAILABLE WC-RT-1 / WC-27401 ADVANCED VERSION OF WC-RT TO PROVIDE MAXIMUM STRENGTH DURING JARRING



SETTING TOOL NIPPLE

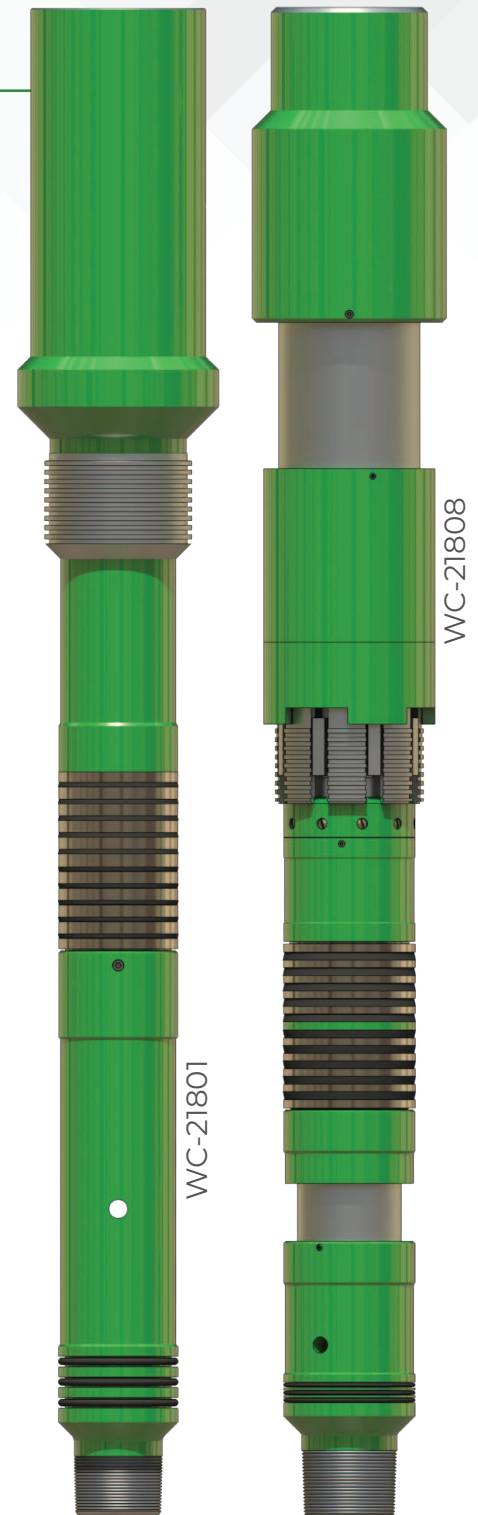
OVERVIEW

The **Wellcare Model WC-STNE** Packer Setting Tool Nipple is attached to Left-Hand square thread of the Packer. Fluid ports are positioned opposite the holes of the Packer body so that pressure may be applied to set the Packer. These fluid ports are sealed off within the packer bore by an O-Ring below and Chevron Seal above. A ball seat subassembly positioned in the string below the body of the seal assembly, contains a tripping ball seat against which pressure may be applied to set the Packer. After the ball seat and ball have been blown out, the Packer Setting Tool Nipple is ready to disengage to packer. The method of releasing is to rotate free 15 turn of right-hand rotation and picked up.

The **Wellcare Model WC-STNE-1** Packer Setting Tool Nipple for the Hydraulic Seal Bore Packer is a connecting device for running the tool string into the well. The running tool is attached to the packer by a standard anchor latch with LEFT-HAND square thread, and released by a straight- pull shear release. In an emergency, After the shear ring or shear screw has been sheared, rotational release can be accomplished by right- hand turn.

FEATURES & BENEFITS (WC-STNE-1)

- Pressure Rating Equivalent to Hydraulic Seal Bore Packer.
- Straight-pull release (Adjustable with Shear Screw)
- Chevron seals for improved life.



LOCATOR / LATCHING TYPE PACKER PLUG

OVERVIEW

The **WELLCARE Model WC-LRTPP & WC-LHTPP** packer plug are used to convert seal bore production packer that has been previously set, into a temporary or permanent type bridge plug to permits operations above the packer, such as pressure testing, perforating, or perforations washing, without affecting the zone below the packer. It also prevents debris from settling to the lower zone. The plug is available for all seal bore packer sizes.

Packer plug is made-up with shear screws onto open tubing, a retrievable squeeze tool or wireline (Latching type only) and run into its seat the packer. And then set-down weight apply to shear the shear screws and leaves the plug in the packer.

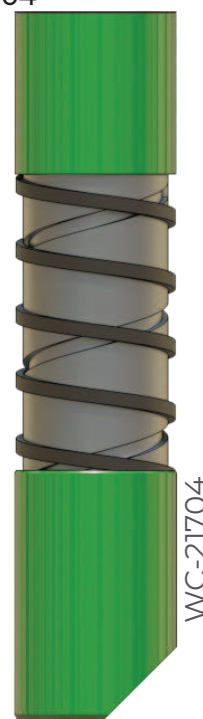
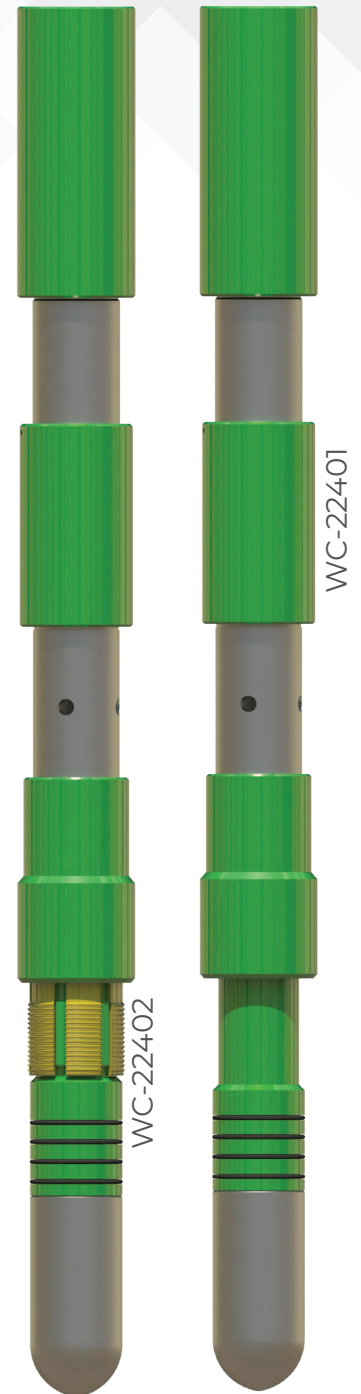
The locator type packer plug (WC-LRTPP) is retrieved with a conventional over-shot by simply picking up.
The latching type (WC-LHTPP) is released by holding a slight upstrain and rotating to the right 15 turns after engaging with a conventional overshot.

AUTO ORIENTING BOTTOM SUB WITH HALF MULE SHOE

MODEL : WC-BSWH-A
PRODUCT No. : WC-21704

OVERVIEW

The **Wellcare Model WC-BSWH-A** bottom sub of LTSA is provided with double-start helical groove and two Guide Pins. Half Mule Shoe as shown in illustration.
The double start helix provides for uniform self orienting action of the Half Mule Shoe to permit easy entry into the Packer Seal bore.



SPLINED EXPANSION JOINT

OVERVIEW

The **Wellcare Model WC-SEP** Expansion Joint is designed for use above packers in well completions to compensate for tubing movement during treating and injecting operations and where rotation through the tool is required. The design allows torque to be applied through the tool at any position.

It may be shear pinned at one-foot intervals along its entries stroke length, allowing the operator to select the proper expansion and/or contraction stroke that will be required after the splined expansion joint has been installed. The splines allow for torque through the joint.

FEATURES

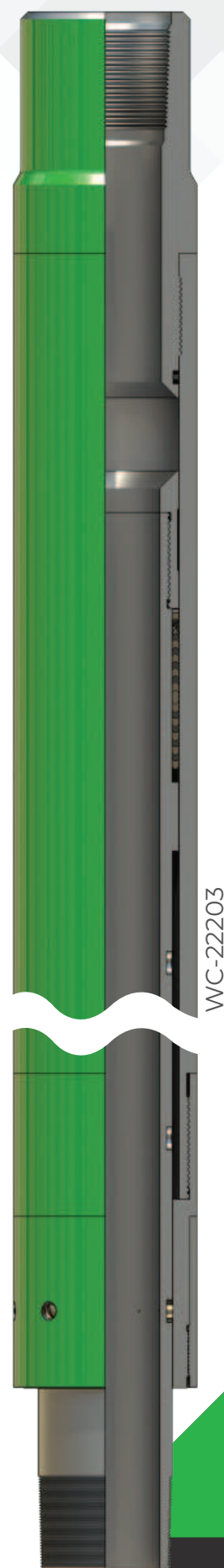
- The joint can be pressure tested at the surface to ensure seal integrity
- The rugged construction provides high tensile strength for maximum durability
- The full-bore construction provides an unrestricted ID that enables the maximum flow rate.
- Rotationally locked at all times for transmitting torque when required.
- Multi-spline design for high torque load.
- Maximized tension carrying capability.
- Tool can be pinned at one foot spacing from closed to fully stroked position.
- Shear value can be adjusted by varying the number of shear screws.

SPLINED EXPANSION JOINT SPECIFICATION GUIDE (WC-SEP)

Size (in)	Max OD (in)	Min ID (in)	Stroke Length (in)
2 3/8	3.668	1.938	6 ft / 10 ft
2 7/8	4.360	2.441	6 ft / 10 ft
3 1/2	5.250	2.992	6 ft / 10 ft
4 1/2	6.391	3.875	6 ft / 10 ft
5	6.875	4.256	6 ft / 10 ft / 20 ft

This Model is drifted with the corresponding API tubing drift size.

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



SEAL BORE EXTENSION

OVERVIEW

The **Wellcare Model WC-SBE** sealbore extensions extend the polished surface below the packer. This enables the use of longer sealing units to compensate for tubing contraction or elongation.

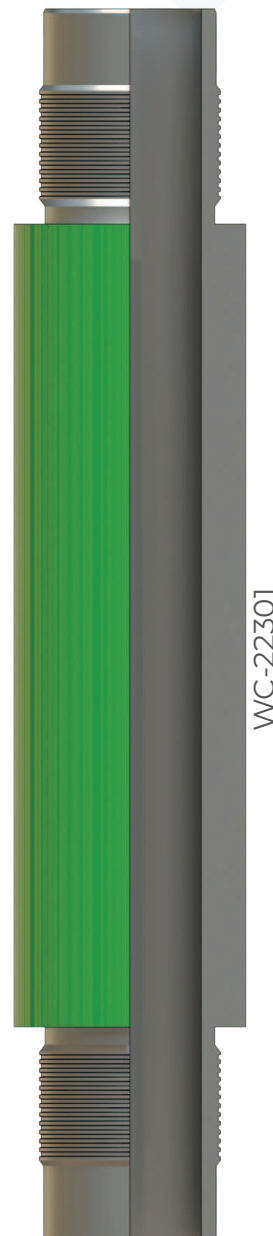
The sealbore extension has the same ID as the corresponding packer sealbore it is run with, thus all seals of a long seal assembly seal off in the sealbore extension. If extreme tubing movement is anticipated, it is advisable to incorporate some blank sections in the seal assembly to minimize the friction of the seals inside the sealbore extension.

SEAL BORE EXTENSION

SPECIFICATION GUIDE

Size	OD (in)	SEAL BORE (in)	Length (ft)
40-26	3.625	2.688	10
40-30	3.781	3.000	6 / 10
80-32	4.250	3.250	6 / 10
80-38	5.000	3.875	6 / 10
80-40	5.000	4.000	6 / 10
190-47	6.250	4.750	6 / 10
190-60	7.500	6.000	6 / 10

NOTE: Length & thread connections can be furnished as per customer need.
Bottom End can be furnished as half mule type or threaded as per requirement.



WIRELINE ADAPTER KIT

OVERVIEW

The **Wellcare Model WC-W Wireline Adapter Kit** is used to set permanent / retrievable packers and bridge plugs with the aid of appropriate wire line string or pressure setting assembly else with hydraulic setting tool as per varying requirement/operations.

In its most common use with a wireline setting tool, the system allows for a substantial reduction in rig time over setting on tubing with a hydraulic setting tool.

This kit is provided with release/shear stud of different shear values e.g.: 35000, 55000 lbs. etc. as per the setting mechanism and requirements.

FEATURES & BENEFITS

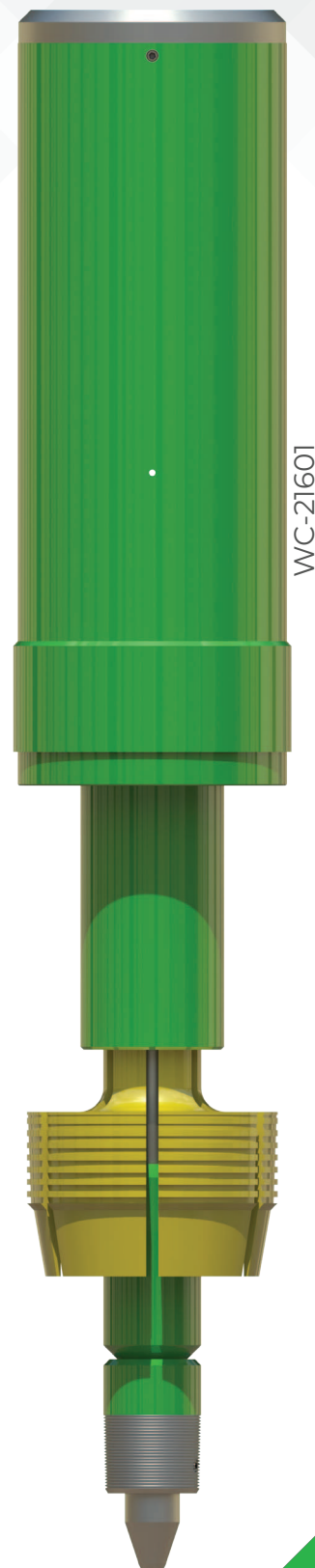
- Substantial rig time saving over hydraulically setting packer.
- Long field life.
- Mates to size 10 or 20 wireline pressure setting assembly.
- Mates to hydraulic-setting tool.
- Rugged design.

WIRELINE ADAPTER KIT

SPECIFICATION GUIDE

Size	OD (in)	Connection
32-25	3.968	2 7/8" OD, 4 TPI LH SQUARE THREAD
43-30	4.437	3 1/2" OD, 4 TPI LH SQUARE THREAD
44-26	4.500	3 1/4" OD, 4 TPI LH SQUARE THREAD
84-32	5.688	4" OD, 4 TPI LH SQUARE THREAD
84-40	5.688	4 1/2" OD, 4 TPI LH SQUARE THREAD
85-40 / 83-40	5.688	4 1/2" OD, 4 TPI LH SQUARE THREAD
85-47 / 87-47	5.875	5 1/8" OD, 4 TPI LH SQUARE THREAD
194-40	8.125	4 1/2" OD, 4 TPI LH SQUARE THREAD
194-47	8.125	5 1/4" OD, 4 TPI LH SQUARE THREAD
192-60	8.218	6 1/2" OD, 4 TPI LH SQUARE THREAD

NOTE: Additional size are also available on request.



MILLING & RETRIEVING TOOL

MODEL : WC-CJ
PRODUCT No. : WC-21306

OVERVIEW - MILLING & RETRIEVING TOOL FOR PACKER

The **Wellcare Model WC-CJ** Milling Tool is used to mill over and retrieve seal bore packers. It contains a Catch Sleeve with J-pins which is used to retrieve the body of the packer after the outside portion of the packer has been milled up.

MODEL : WC-CB
PRODUCT No. : WC-21311

OVERVIEW - MILLING TOOL FOR PACKER

The **Wellcare Model WC-CB** Milling Tool is used to mill over seal bore production packers and push them to bottom. It is identical to the Model WC-CJ Milling Tool except that it does not contain a Catch Sleeve. It does retain the body assembly to stabilizing the Milling Shoe in the casing during milling. To convert a Model WC-CJ Milling Tool to a Model WC-CB Milling Tool, remove Catch Sleeve, J-pins, and Spring.

MODEL : WC-CP
PRODUCT No. : WC-21315

OVERVIEW - MILLING & RETRIEVING TOOL FOR BRIDGE PLUG & CEMENT RETAINER

The **Wellcare Model WC-CP** milling tool or Plug Plucker is used to mill & retrieve Bridge Plugs and Cement Retainers. The Plug Plucker utilizes a latch, with left-hand buttress threads, that is snapped in to threads of the Cement Retainer or Bridge Plug Body. The latch is designed to grip the thread bore like a spear. This is useful if the threads in the plug body are damaged or full for cement. After milling operations are complete the remaining portion of the Plug then be retrieved.

MODEL : WC-CC
PRODUCT No. : WC-21312

OVERVIEW - MILLING TOOL FOR BRIDGE PLUG & CEMENT RETAINER

The **Wellcare Model WC-CC** Milling Tool is used to mill over Bridge Plugs or Cement Retainers and push them to bottom. It is essentially a Model WC-CJ Milling Tool without the Stinger. To convert a Model WC-CJ Milling Tool to a Model WC-CC Milling Tool, remove stinger assembly and install thread protector. Cylinder extensions, formerly offered as a standard product for milling over more than one.



ANCHOR LATCH SEAL ASSEMBLY

OVERVIEW

The **Wellcare Model WC-ALA** Anchor Seal Nipple is an anchoring and sealing device that connects the retrievable tubing string to the upper bore of the Retainer Production Packers. The latch component of the seal nipple provides positive engagement with the packer. The seal unit maintains the pressure integrity of the connection.

The no go shoulder is designed to provide a positive set down shoulder at the top of the packer and prevent intrusion of debris into the latch to packer body inter-face.

FEATURES & BENEFITS

- The anchor seal nipple is available with Chevron seal unit as standard with 4140 Material.
- V-Ryte and A-Ryte seal units with 13% Cr material are optional.
- The WC-ALA anchor latch Seal assembly has a no-go OD which sets down on the top of the packer, rather than at the shoulder at the bottom of the upper seal bore.
- Adequate space is provided for handling purposes on the anchor body.
- Redress of the seal unit may be accomplished quickly and easily.

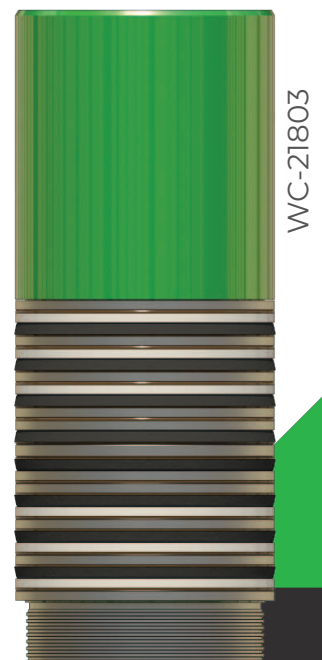


SEAL UNITS

MODEL : WC-SU
PRODUCT No. : WC-21803

OVERVIEW

The **Wellcare Model WC-SU** Seal units are used to add additional seal stacks to Locator Tubing Seal Assemblies and Tubing Seal Nipples. Number could be chosen to accommodate expected tubing movement



LOCATOR TUBING SEAL ASSEMBLY

OVERVIEW

The **Wellcare Model WC-LTSA & WC-LTSA-AO Locator Tubing Seal Assembly** is designed for limiting downward movement of the seals in the packer bore. Normally landed with the tubing in compression sufficient to prevent seal movement upward. Any number of seal units can be added for increased length. Standard assembly includes two seal units.

Locator Seal Assembly is also designed for hostile environments, high temperatures and high pressures.

It is made up of metal parts that meet the requirements of NACE standard MR-0175 for sulfide stress cracking resistant materials and is suitable for use in H₂S environments. This locator also be used in noncorrosive environments where pressure and temperature requirement.

FEATURES & BENEFITS

The standard Seal System consists of three set of seals (bonded, chevron, A-ryte, V-ryte etc) and debris barriers. The seals are arranged so that they are protected by the debris barriers in the event of tubing movement. The two lower debris barriers and two lower seal stacks are the main working seals and should never be allowed to leave the seal bore. The upper debris barrier and seal stack are a back-up and also prevent from entering the bore, which could lead to sticking or seal damage.

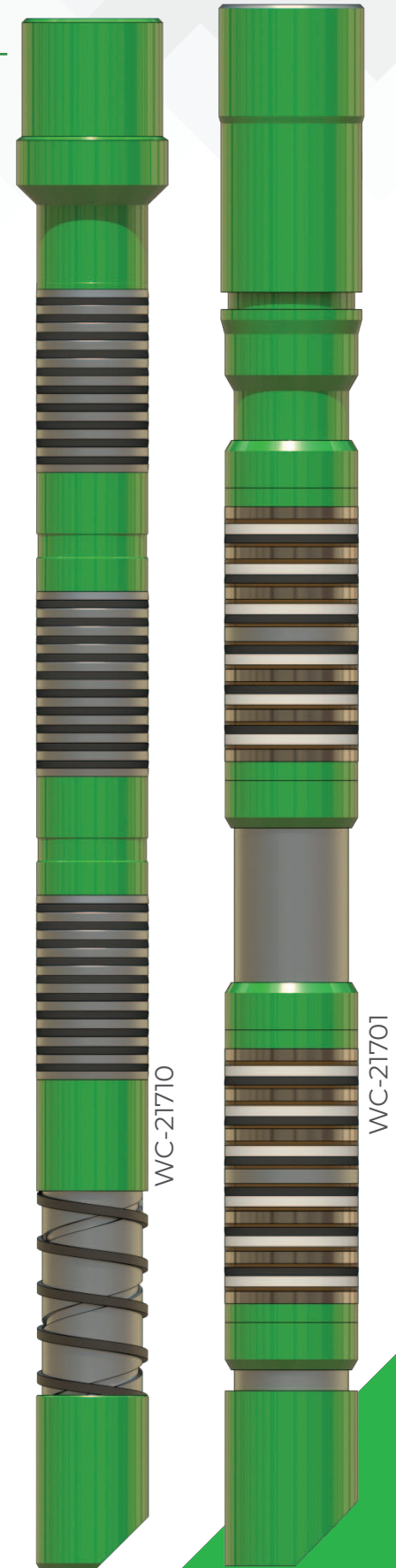
WC-LTSA-AO IS PROVIDED WITH DOUBLE-START HELICAL GROOVE AND TWO GUIDE PINS. THE DOUBLE START HELIX PROVIDES FOR UNIFORM SELF ORIENTING ACTION OF THE HALF MULE SHOE TO PERMIT EASY ENTRY INTO THE PACKER SEAL BORE.

LOCATOR TUBING SEAL ASSEMBLY SPECIFICATION GUIDE (WC-LTSA)

Size	COMPATIBLE SEAL BORE ID (in)	ID (in)	Length (ft)	Differential Pressure Rating (psi)
40-26	2.688	1.968	10	10,000
40-30	3.000	1.968	10	10,000
80-32	3.250	2.406	10	10,000
80-38	3.875	2.992	10	10,000
80-40	4.000	2.992	10	10,000
190-47	4.750	2.992	10	10,000
190-60	6.000	4.875	10	10,000

This Model is drifted with the corresponding API tubing drift size.

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



ON-OFF TOOL

OVERVIEW

The **Wellcare Model WC-TS10 On-Off Tool** is a tubing disconnect device that has an internal blanking plug locking profile with seal bore for utilizing flow control equipment. The Overshot has a box looking up which connects to tubing string and a pin looking down off the Stinger which connects to the packer. This tool has two basic components that comprise the Overshot. The Top Sub which contains two bonded rubber steel seals and the Jay Latch which has a J Slot configuration to locate and latch the On-Off Tool Stinger. The Jay Latch also has a wash over shoe configuration which allows cutting through debris. The Overshot automatically Jays up on Stinger when lowered into well.

FEATURES & BENEFITS

- Proven bonded seal system
- Built for strength and durability
- Variety of profile nipples
- Available in special metallurgy

AVAILABLE IN -

WC-TS10 / WC-22601 (Without Profile)
WC-TS10-1 / WC-22602 (With X Profile)
WC-TS10-R / WC-22607 (Right Hand Release)



ON-OFF TOOL

SPECIFICATION GUIDE (WC-TS10 / WC-TS10-1)

SIZE (in)	Minimum ID (in)	Washover Shoe OD (in)	Casing OD (in)	Casing Weight (lb/ft)
2 3/8	1.875 w/ Profile or *1.995 w/o Profile	3.750	4-1/2	9.5-13.5
			5	11.5-24.1
			5-1/2	20-23
		4.500	13-23	
			6-5/8	20-32
			7	23-38
		5.500	6-5/8	20-32
			7	17-38
			7-5/8	24-47.1
			8-5/8	24-49
		6.250	7	17-20
			7-5/8	24-45.3
			8-5/8	24-49
		8.125	9-5/8	32.3-53.5
2 7/8	2.313 w/ Profile or *2.441 w/o Profile	4.500	5-1/2	13-23
		5.500	6-5/8	20-32
			7	17-38
			7-5/8	24-47.1
			8-5/8	44-49
		5.875	6 5/8	20
			7	17-32
			7 5/8	24-47.1
			8 5/8	32-49
		6.250	7	17-20
			7-5/8	24-45.3
			8-5/8	24-49
		8.125	9-5/8	32.3-53.5
3 1/2	2.813 w/ Profile or *2.992 w/o Profile	5.500	6-5/8	20-32
			7	17-38
			7-5/8	24-47.1
		5.875	6 5/8	20
			7	17-32
			7-5/8	24-47.1
		7.250	8-5/8	32-49
				24-49
		8.125	9-5/8	32.3-53.5
4 1/2	3.813 w/ Profile or *3.958 w/o Profile	5.875	6 5/8	20
			7	17-32
			7-5/8	24-47.1
		7.250	8-5/8	32-49
				24-49
			9-5/8	32.3-53.5
		8.125		
		9.375	10 3/4	40.5-60.7
		11.75	13 3/8	54.5-86

* Product is drifted with the corresponding API tubing drift size.

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

FLOW COUPLING / BLAST JOINT

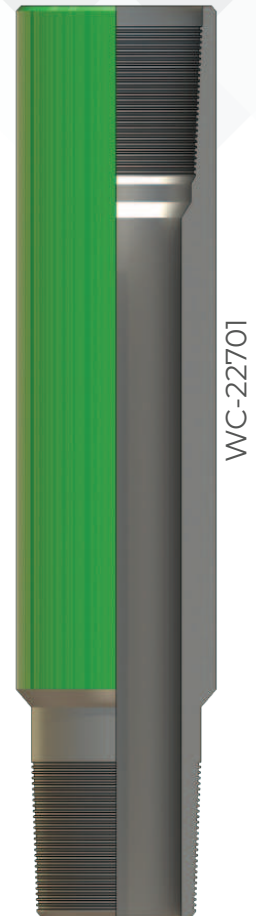
OVERVIEW

The **Wellcare Model WC-FC & WC-BJ** Flow Coupling / Blast Joint is a thick-walled section of tubing that minimizes the resultant effect of internal erosion that occurs in a tubing string from changes in the internal cross-section of a flowing well.

These are used to protect the tubing string from the abrasive action of flowing gas or oil when positioned opposite the perforations. It may also be used directly below the well head to protect from the abrasion of doing a hydraulic fracturing operation down the annulus.

Full tubing ID is maintained through the Blast Joint with the OD same as tubing couplings. As standard it is available in API tubing connections.

Length, Connection is available as per requirement.



MILL-OUT EXTENSION

MODEL : WC-MOE
PRODUCT No. : WC-22106

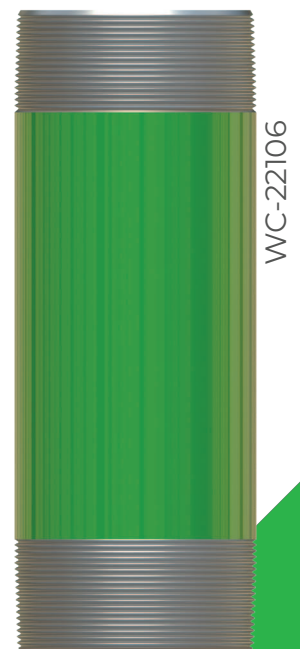
OVERVIEW

The **Wellcare Model WC-MOE** Millout extensions provide a large ID below the packer sealbore or sealbore extension, which allows a single-trip packer milling/retrieving tool to be used when tubing is run below the packer assembly.

Millout extension can be run directly below a sealbore packer or sealbore extension. For permanent packers, the mill-out extension is required to accommodate the mandrel and catch sleeve of the WC-CJ packer milling tool during packer milling.

SPECIFICATION GUIDE (WC-MOE)

Size	OD (in)	ID (in)	Length (ft)
40-26	3.500	3.000	6 / 10
40-30	4.000	3.428	6 / 10
80-32	4.500	3.750	6 / 10
80-40	5.500	4.500	6 / 10
190-60	7.625	6.625	6 / 10



CROSSOVER

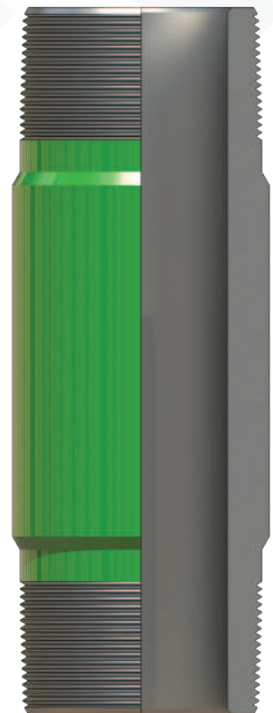
MODEL : WC-C99
WC-C89
WC-C88

PRODUCT No. : WC-22703
WC-22705
WC-22704

OVERVIEW

The **Wellcare Model WC-C99, WC-C89, WC-C88** manufactures a wide range of **Cross-Overs** which are used as a connector of different size and/or type, in drilling, wash-over or tubing strings. It is used in applications where it is necessary to have frequent disconnection points. These are manufactured from higher group of API 5CT standard materials as well as furnished with the end connections in compliance to API standards or any premium threads as per the customer's requirement / demand. Materials suited for H2S or CO2 service are available on request.

Cross-Overs are available in pin-to-pin, box-to-box or box-to-pin thread connections and of different lengths.



Cross-over (Pin x Pin)
Model: WC-C99
Product: WC-22703



Cross-over Sub (Box x Pin)
Model: WC-C89
Product No.: WC-22705

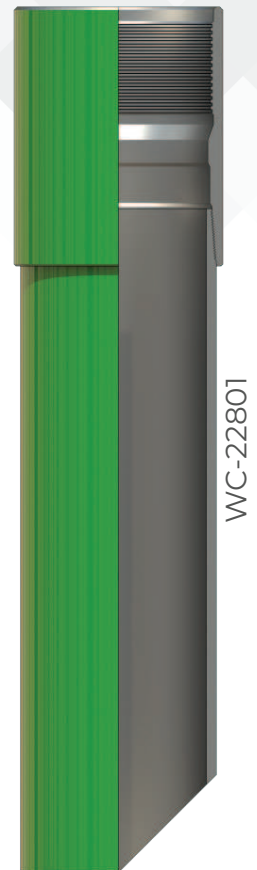


Cross-over Sub (Box x Box)
Model: WC-C88
Product No.: WC-22704

NON PERFORATED PRODUCTION TUBE

OVERVIEW

The **Wellcare Model WC-NPPT** Non-Perforated Production Tube is made-up at the bottom of the production string. Its basic purpose is to act as a stinger (or extension) to keep the packer flapper valve open when producing.



PERFORATED SPACER TUBE

MODEL : WC-PST
PRODUCT No. : WC-22802

OVERVIEW

The **Wellcare Model WC-PST** Perforated Spacer Tube is used at the end of a tubing string to provide an alternate flow path in cases where wire line measuring devices are used.

The Perforated Spacer Tube is made of low grade material and its assembly consists of a perforated nipple with standard tubing thread, a crossover coupling up, and a crossover sub down.

Perforated Spacer Tube are available with special box thread up and pin thread down, upon request.



WIRE LINE ENTRY GUIDE

OVERVIEW

The **Wellcare Model WC-WEG Wireline Entry Guide** is designed to be run on the bottom of the tubing string. It will aid wire line tools that have passed out the bottom of the tubing to re-enter without hanging up. Various end connections can be supplied; however, ID/OD's dimensions vary as per connections and weight (lb/ft).

Bottom end could be furnished with half mule or full mule as shown below.

Entry Guide is made from various API grade and high quality alloy steel to ensure maximum abrasion resistance and strength.



HYDRAULIC SET TUBING ANCHOR CATCHER

OVERVIEW

The **Wellcare Model WC-HTAC Hydraulic Set Tubing Anchor Catcher** is a pressure actuated, fully retrievable anchor catcher designed to hold the tubing string in tension or compression. No tubing manipulation is required in order to set the anchor. Once set, bi-directional slips anchor the tubing to prevent upward or downward movement during rod pumping and to prevent tubing from falling down. Applying tubing pressure against a temporary tubing plug run below the anchor catcher sets the anchor catcher. The anchor catcher is released by pulling sufficient force to shear the release screws. The number (up to 12) predetermines the shear value of the releasing mechanism. Increases pump efficiency, improves operating costs by reducing maintenance and down time caused by tubing or sucker rod wear.

FEATURES & BENEFITS

- Increases pump efficiency and helps prevent the tubing from backing off.
- No Rotation required to set the anchor.
- Straight Pull Shear Release.

HYDRAULIC SET TUBING ANCHOR CATCHER SPECIFICATION GUIDE (WC-HTAC)

Casing Specification				Anchor Specification		
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down
4 1/2	9.5-13.5	3.920	4.090	3.750	1.938	2 3/8, 4.7 PPF EU
5 1/2	13-23	4.670	5.044	4.500	1.950/ 2.441	2 3/8, 4.7 PPF EU/ 2 7/8, 6.5 PPF EU
7	29-38	5.920	6.184	5.375	2.441/	2 7/8, 6.5 PPF EU/
	20-38	5.920	6.456	5.719	2.992	3 1/2, 9.3 PPF EU
9 5/8	32.3-47	8.681	9.001	8.438	5.750	6 5/8 LTC

This Model is drifted with the corresponding API tubing drift size.

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



RIGHT HAND SET TUBING ANCHOR CATCHER

OVERVIEW

The **Wellcare Model WC-RTAC & WC-LTAC** tubing anchor catcher is run below a sucker-rod pump to anchor the lower end of the tubing string. Then the string can be landed in tension, reducing the tubing tendency to corkscrew from cyclical loading during pump operation. By eliminating tubing movement, the catcher improves pump efficiency and reduces tubing and rod wear. The catcher can also be used in any single-string application requiring a bottomhole nonsealing anchor on the string.

The double-grip slip prevents parted tubing from falling to the well bottom.

FEATURES & BENEFITS

- WC-LTAC left rotation to set the catcher and right rotation to release it provide simple operation on the rig.
- WC-RTAC right rotation to set the catcher and left rotation to release also provide.
- The double-grip slip anchors the tubing to prevent upward and downward movements, increasing pump efficiency by lengthening the stroke and lowering operating costs by reducing maintenance and downtime from tubing and sucker-rod wear.
- The double-grip slip catches parted tubing, reducing fishing costs.
- The full bore-through catcher provides access for wireline tools and other equipment.
- The straight-pull emergency shear release provides release-force adjustment with shear pins if the catcher cannot be retrieved normally.
- The catcher has few parts to take apart, making it easy and inexpensive to redress.

APPLICATIONS

- Sucker-rod pumping applications.
- Single-string, non sealing anchored completions.

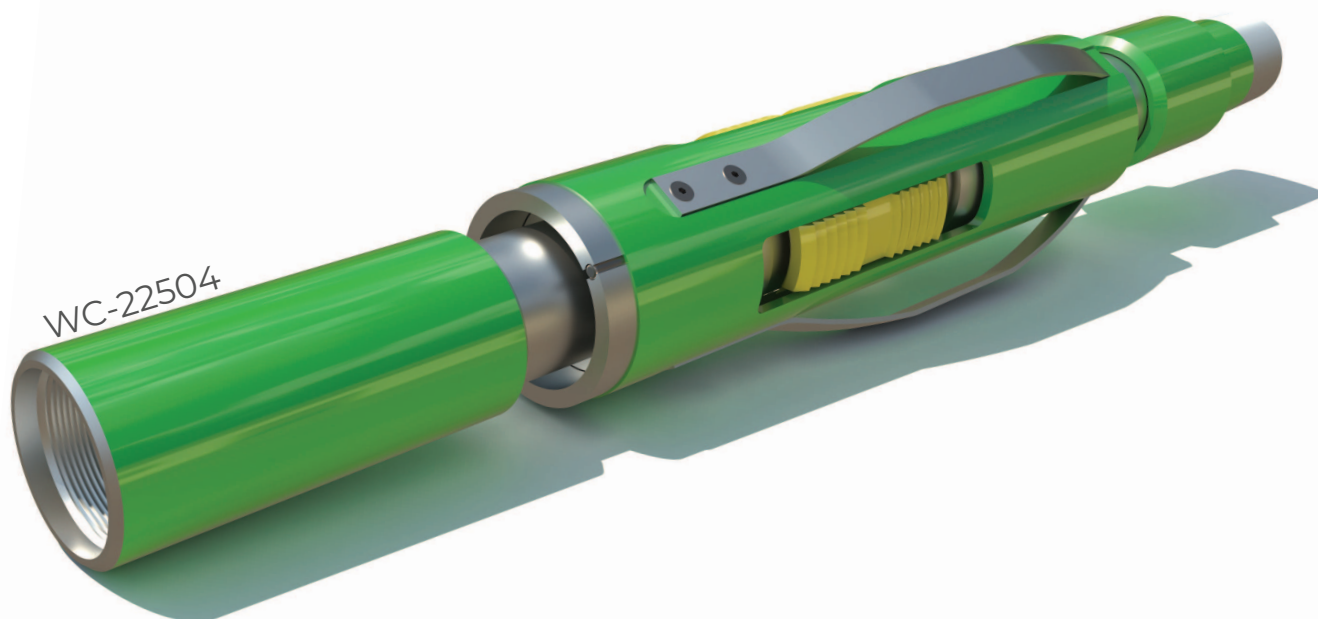


RIGHT HAND SET TUBING ANCHOR CATCHER SPECIFICATION GUIDE (WC-RTAC)

Casing Specification				Anchor Specification		
Size (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	OD (in.)	ID (in.)	End Connection Box Up X Pin Down
4 1/2	9.5-13.5	3.920	4.090	3.750	1.938	2 3/8, 4.7 PPF EU
5	11.5-18	4.276	4.560	4.000	1.938	2 3/8, 4.7 PPF EU
5 1/2	13-23	4.670	5.044	4.500	2.441	2 7/8, 6.5 PPF EU
7	20-38	5.920	6.456	5.500	2.441	2 7/8, 6.5 PPF EU
	17-20	6.456	6.538	6.250		
	17-38	5.920		5.500	2.992	3 1/2, 9.3 PPF EU
9 5/8	36-53.5	8.535	8.921	8.000	2.992	3 1/2, 9.3 PPF EU

This Model is drifted with the corresponding API tubing drift size.

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



UPPER POLISHED BORE RECEPTICAL

OVERVIEW

The **Wellcare Model WC-UPBR** Upper Retrievable Packer Bore Receptacle (WC-UPBR) is designed for use where extreme tubing movement is anticipated because of temperature and pressure changes during treatment or production. The overall stroke of the PBR customized to best suit the requirement.

The UPBR is designed to be run above and anchored into the Left Hand thread of a Retainer Production Packer.

The UPBR is a polished honed bore, made specifically to receive the UPBR seal assembly above the packer. The UPBR seal assembly is held in place inside the honed bore during run in by a shear screws. The seal assembly consists of debris barriers and seal stacks.

When combined with hydraulic set packers the entire completion can be run in and set on the production tubing string in one trip.

The entire assembly above the packer is retrievable in two trips. The seal assembly is retrieved when tubing string is recovered. The UPBR housing is easily recovered in a second trip using the specifically designed retrieving tool.

ADVANTAGES

Accommodates expansion and contraction of tubing.

Seals can be removed and replaced without unsetting packer.

Largest possible ID through completion.

Seals fully protected during run in.

Seal unit configuration reduces risk of hydrostatic lock.

Available in custom lengths.

UPPER POLISHED BORE RECEPTICAL

SPECIFICATION GUIDE (WC-UPBR)

Size	OD (in)	ID (in)	Seal Bore ID (in)
30-21	2.875	1.531	2.188
11-25	3.187	1.875	2.500
80-32	5.810	2.406	3.250
80-40	5.810	3.250	4.000
80-47	5.810	3.875	4.750
80-47	5.810	4.000	4.750
81-47	5.938	4.000	4.750
81-47	5.938	3.875	4.750
190-60	8.250	4.875	6.000
190-71	8.250	6.000	7.125

This Model is drifted with the corresponding API tubing drift size.

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



HYDRAULIC SETTING TOOL

OVERVIEW

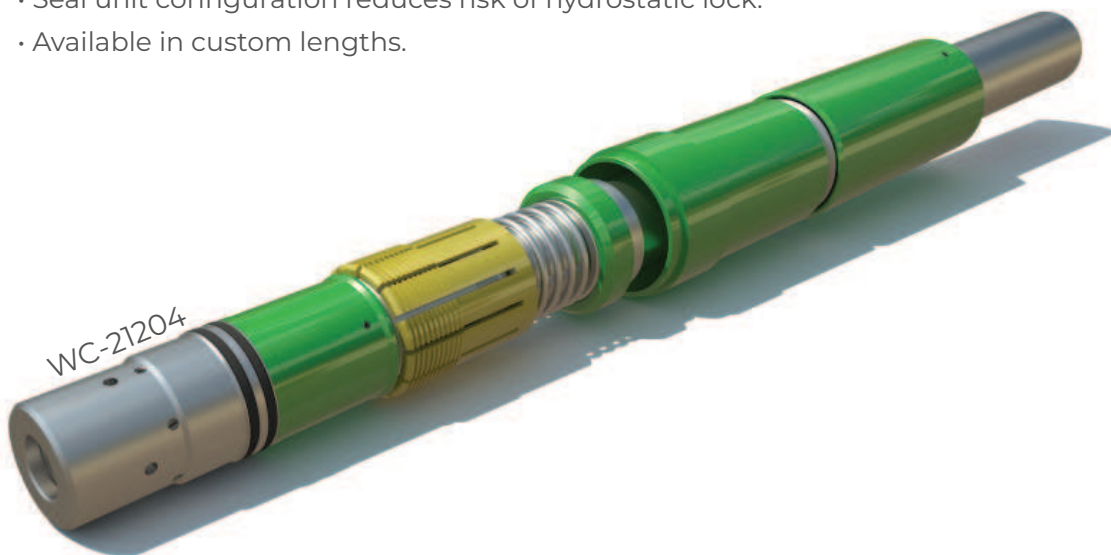
The **Wellcare Model WC-HSHK** Hydraulic Setting Tool is a single chamber, tubing pressure actuated setting tool used in gravel pack operations in conjunction with the Gravel Pack Crossover Tool or Hydro-Set Adapter Kit to run and set Models WC-ERSP Packers and Drillable type Production Packers on tubing.

FEATURES & BENEFITS

- Short and Compact - Increases the efficiency of handling, shipping, and storing as well as operations on the rig
- Simple Construction - Constructed of a minimum number of working parts, making it economical to maintain
- No rotation required, releases from the Packer followed by annulus pressure.
- Ideally suited for deviated wells
- Emergency rotational release

ADVANTAGES

- Accommodates expansion and contraction of tubing.
- Seals can be removed and replaced without unsetting packer.
- Largest possible ID through completion.
- Seals fully protected during run in.
- Seal unit configuration reduces risk of hydrostatic lock.
- Available in custom lengths.



For more information, contact **Wellcare** representative or visit us at www.wellcareoiltools.com

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WELLCARE OIL TOOLS

BRIDGE PLUG & CEMENT RETAINER



WIRELINER / MECHANICAL SET DRILLABLE BRIDGE PLUG

OVERVIEW

The **WELLCARE Model WC-WLBP Wireline Set Drilable Bridge Plug** or **Model WC-MBP Mechanical Set Drilable Bridge Plug** are high performance drillable bridge plugs, commonly used for zonal isolation during stimulation or cementing jobs, or for temporary and permanent abandonment.

The **Model WC-WLBP/MBP Bridge Plugs** can easily be converted to **Model WC-WLCR/MCR Cement Retainers**.

Model WC-WLBP PRODUCT No. WC-21501
Wireline Set Drilable Bridge Plug

Model WC-MBP PRODUCT No. WC-21502
Mechanical Set Drilable Bridge Plug

FEATURES AND BENEFITS

- Choice In Setting - Wireline, mechanical, or hydraulic.
- High Performance - 10,000 psi and 400°F in most sizes (see specification guide).
- Superior Running Characteristics - Increased clearance and locked construction for faster, safer run-in with packing element locked against swab-off forces.
- Body Lock Ring - Traps setting force in element to maintain pack-off during pressure reversals.
- Adaptable - Bridge Plug consists of a basic unit which can easily be converted to mechanical or wireline set cement retainer.

Wireline Set



Mechanical Set



WIRELINE / MECHANICAL SET DRILLABLE BRIDGE PLUG

SPECIFICATION GUIDE (WC-WLBP & WC-MBP)

Casing Specification				BP Specification					
Casing/Tubing		Preferred Casing ID Range		Product Size	Bridge Plug		Differential Pressure Ratings (psi)	API Validation Grade	
OD (in.)	Wt. (lbs./ft.)	Min (in.)	Max (in.)		Max. OD (in.)	Top End Connection			
4 1/2	9.5-15.1	3.826	4.090	X1	3.593	2", 6 TPI Special Butress Straight & Left Hand Box Thread	10000	V3	
5	11.5-20.8	4.154	4.560	Y1	3.937				
5 1/2	26.0-32.3			X2	4.312				
	13-23	4.670	5.044						
5 3/4	27.09	4.805		Y2	4.937				
6	18-26	5.140	5.552						
7	49.5				X3	5.410			
6 5/8	17-32	5.595	6.135						
7	32-44				Y3	5.687			
	17-38	5.920	6.538						
7 5/8	45.3				X4	6.312			
	20-39	6.625	7.125						
7 3/4	46.1				X5	7.125			
8 5/8	24-49	7.511	8.097						
8 3/4	49.7				8.435	9.063			
9 5/8	29.3-58.4	Y6	9.000						
9 3/4	59.2								5000
9 7/8	62.8								
10 3/4	60.7-81	9.250	9.660	Y6	9.000	2 7/8, 6 TPI Special Butress Straight & Left Hand Box Thread	5000		
	32.75-60.7	9.660	10.192	X7	9.437		4000		
11 3/4	60.0-83.0	10.192	10.772	Y7	9.937	3000	2000		
	42-60	10.772	11.150	X8	10.437				
13 3/8	85-102	11.633	12.159	Y8	11.562				
	48-80.7	12.175	12.715		X9				12.000
13 1/2	81.4								
13 5/8	88.2								
16	109.0-146.0	14.000	14.750	X11	13.915		2000		
	55.0-84.0	14.700	15.400	Y11	14.585				
18 5/8	76-96.5	17.648	17.860	X18	17.250				
20	94-133	18.730	19.124	Y20	18.375				

NOTE: WELL CARE MODEL WC-WLBP & WC-MBP IS ALSO AVAILABLE ON REQUEST IN V0 VALIDATION GRADE.

WIRELINER / MECHANICAL SET DRILLABLE CEMENT RETAINER

OVERVIEW

The **Wellcare's Cement Retainer** is a high-performance drillable cement retainer ideal for most remedial cementing applications. This is designed to function as a drillable squeeze packer which, after cementing, acts as a plug trapping squeeze pressure on the cement below the retainer and isolating the newly cemented area from the hydrostatic pressures above the cement retainer.

The **Model WC-WLCR/MCR** Cement Retainers can easily be converted to **Model WC-WLBP/MBP** Bridge Plugs

Model WC-WLCR PRODUCT No. WC-23201
Wireline Set Drillable Cement Retainers

Model WC-MCR PRODUCT No. WC-23202
Mechanical Set Drillable Cement Retainers

FEATURES AND BENEFITS

- Choice In Setting - Wireline, mechanical or hydraulic.
- High Performance - 10,000 psi and 400°F in most sizes (see specification guide).
- Superior Running Characteristic - Increased clearance for faster, safer run-in with the packing element locked against swab-off forces.
- Locked Construction - Locked-in Upper Slips (mechanical set), Upper Cone, Packing Element, Lower Cone and Lower Slips.
- Adaptable - Cement Retainer consists of a basic unit which can easily be converted to a flapper valve type retainer or to a bridge plug. All models may also be converted to wireline or mechanical set.

Wireline Set



Mechanical Set



WIRELINE / MECHANICAL SET DRILLABLE CEMENT RETAINER

SPECIFICATION GUIDE (WC-WLCR & WC-MCR)

Casing Specification				CR Specification						
Casing /Tubing		Preferred Casing ID Range		Product Size	Cement Retainer			Differential Pressure Ratings (psi)	Temperature Rating (°F)	
OD (in.)	Wt. (lbs/ft)	Min (in.)	Max (in.)		Max OD (in.)	Top End Connection	Seal ID (in.)		70HD	90HD
4 1/2	9.5-15.1	3.826	4.09	X1	3.593	2", 6 TPI Special Buttress Straight & Left Hand Box Thread	1.345	10000	UP TO 300	UP TO 400
5	11.5-20.8	4.154	4.560	Y1	3.937					
5 1/2	26.0-32.3			4.670	5.044					
	13-23									
5 3/4	27.09	4.805		Y2	4.937					
6	18-26	5.140	5.552							
7	49.5			X3	5.410					
6 5/8	17-32	5.595	6.135			Y3	5.687			
7	32-44			5.920	6.538					
	17-38									
7 5/8	45.3	6.625	7.125	X4	6.312					
	20-39									
7 3/4	46.1	7.511	8.097	X5	7.125					
8 5/8	24-49									
8 3/4	49.7	8.435	9.063	X6	8.125					
9 5/8	29.3-58.4									
9 3/4	59.2	Y6	9.000							
9 7/8	62.8									
10 3/4	60.7-81	9.250	9.660	Y6	9.000					
	32.75-60.7	9.660	10.192	X7	9.437					
11 3/4	60.0-83.0	10.192	10.772	Y7	9.937					
	42-60	10.772	11.150	X8	10.437					
13 3/8	85-102	11.633	12.159	Y8	11.562					
	48-80.7	12.175	12.715	X9	12.000					
13 1/2	81.4									
13 5/8	88.2	14.000	14.750	X11	13.915					
16	109.0-146.0									
16	55.0-84.0	14.700	15.400	Y11	14.585					
	76-96.5	17.648	17.860	X18	17.250					
20	94-133	18.730	19.124	Y20	18.375					

WIRELINE SET DRILLABLE BRIDGE PLUG & CEMENT RETAINER (TUBING SIZE)

OVERVIEW

These **Wellcare bridge plugs & Cement Retainers** are designed for use in tubing-less completions, incorporate the same solid ring Slips and, a swab proof packing element system with positive anti-extrusion back-up rings as used in the conventional size bridge plugs. WLBP contains a body lock ring beneath the slip stop ring to prevent movement of the body under pressure reversals. The Models WLBP bridge plugs can easily be converted to Model WLCR Cement Retainers

FEATURES AND BENEFITS

- **Choice in Setting** - Wireline or Hydraulic.
- **High Performance** - 10,000 psi (except Size P1)
- **Superior Running** Characteristics - Increased clearance and locked construction for faster, safer run-in with packing element locked against swab-off forces.
- **Body Lock Ring** - Traps setting force in element to maintain pack-off during pressure reversals.
- **Adaptable** - Bridge Plug consist of a basic unit which can easily be converted to wireline set cement retainer.
- Solid ring slips

WIRELINE SET DRILLABLE BRIDGE PLUG (TUBING SIZE)

SPECIFICATION GUIDE (WC-WLBP)

Casing Specification				WLBP Specification					
OD (in.)	Wt. (lbs/ft)	Preferred Casing ID		Product Size	Max. OD (in.)	Top End Connection	Differential Pressure Ratings (psi)	API Validation Grade	
		Min. (in.)	Max. (in.)						
2 3/8	4.0-5.8	1.780	2.074	P1	1.750	1 1/16 OD, 16 TPI National RH Thread	6000	V3	
2 7/8	11.0-11.65								
	7.9-10.7	2.091	2.323	P2	1.968				
	6.4-6.5	2.340	2.525	P3	2.220				
3 1/2	15.68-16.81								
	10.2-13.3	2.602	2.988	P4	2.562				
4	22.8								
3 1/2	5.75-10.2	2.867	3.258	P5	2.750		10000		
4	14.8-19.0								
4 1/2	26.5								
4	5.6-14	3.340	3.732	P6	3.140				
4 1/2	17.7-24.6								

NOTE: WC-WLBP IS ALSO AVAILABLE ON REQUEST IN V0 VALIDATION GRADE.

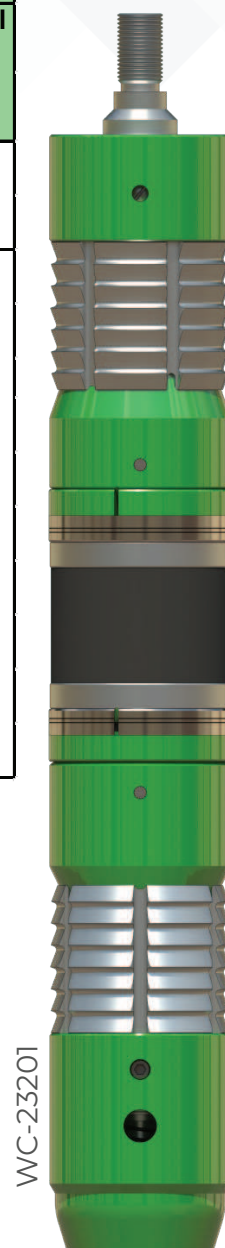
Wireline Set



WIRELINE SET DRILLABLE CEMENT RETAINER (TUBING SIZE) SPECIFICATION GUIDE (WC-WLCR)

Casing Specification				WLCR Specification				
OD (in.)	Wt. (lbs/ft)	Preferred Casing ID		Product Size	Max. OD (in.)	Top End Connection	Seal ID (in.)	Differential Pressure Ratings (psi)
		Min. (in.)	Max. (in.)					
2 3/8	4.0-5.8	1.780	2.074	P1	1.750	1 1/16 OD, 16 TPI National RH Thread	0.715	6000
2 7/8	11.0-11.65							
	7.9-10.7	2.091	2.323	P2	1.968			
	6.4-6.5	2.340	2.525	P3	2.220			
3 1/2	15.68-16.81	2.602	2.988	P4	2.562		0.813	10000
	10.2-13.3							
4	22.8	2.867	3.258	P5	2.750			
3 1/2	5.75-10.2							
4	14.8-19.0							
4 1/2	26.5	3.340	3.732	P6	3.140			
4	5.6-14							
4 1/2	17.7-24.6							

Wireline Set



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WELLCARE OIL TOOLS

TOP SET WIRELINE DRILLABLE BRIDGE PLUG

OVERVIEW

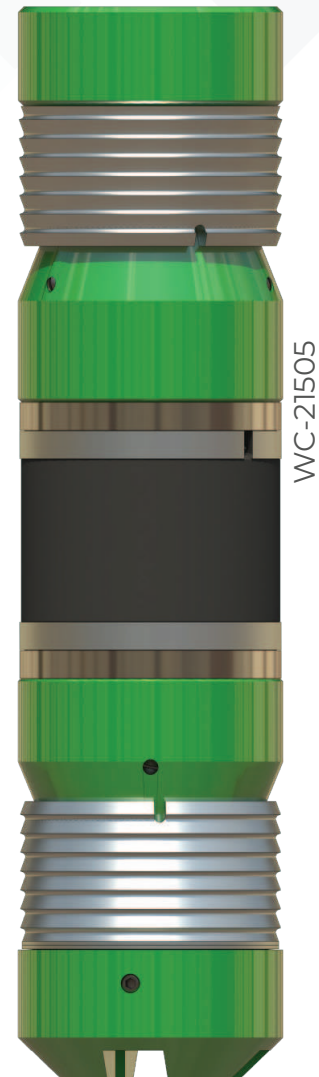
The **Wellcare Model WC-WLBP-1** Wire Line Top Set Drillable Bridge Plug is a premium quality, high pressure, drillable bridge plug. This model is generally used for zonal isolation during stimulation or cementing job or for temporary or permanent abandonments.

The WC-WLBP-1 uses the proven packing element and slip system of model WC-WLCR cement retainers. The body with the internal guide is made from one solid piece of material for strength and dependability. All materials are made to tightly controlled engineering specification to ensure the strength and fast drill out.

The model WC-WLBP-1 is set using a Wireline Pressure setting Assembly and a Wireline Adapter Kit. Alternatively, the plug can also be set by Hydraulic Setting Tool WC-HST.

FEATURES AND BENEFITS

- **Choice in Setting** - Wireline / Hydraulic
- **High Performance** - 10,000 psi and 400°F (see Specification Guide).
- **Superior Running Characteristics** - Increased clearance and locked construction for faster, safer run-in with packing element locked against swab-off forces.
- **Body Lock Ring** - Traps setting force in element to maintain pack-off during pressure reversals.



TOP SET WIRELINE
DRILLABLE BRIDGE PLUG
SPECIFICATION GUIDE (WC-WLBP-1)

Casing Specification				WLBP-1 Specifiaction			
Casing/Tubing		Preferred Casing ID Range		Product Size	Max OD (in.)	Differential Pressure Ratings (psi)	API Validation Grade
OD (in.)	Wt. (lbs/ft)	Min (in.)	Max (in.)				
4 1/2	9.5-15.1	3.826	4.090	X1	3.593	10000	V3
5	23.2-24.2						
5	11.5-20.8	4.154	4.560	Y1	3.937		
5 1/2	26.0-32.3						
*5 1/2	13-23	4.670	5.044	X2	4.312		
6	18-26	5.140	5.552	Y2	4.937		
7	49.5						
6 5/8	17-32	5.595	6.135	X3	5.410		
7	32-44						
7	17-38	5.920	6.538	Y3	5.687		

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

NOTE: * Marked size can also be set on size #10 HST tool, when well conditions permit.

For more information, contact **Wellcare** representative or visit us at www.wellcareoiltools.com

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WELLCARE OIL TOOLS

WIRE LINE SET RETRIEVABLE BRIDGE PLUG

OVERVIEW

The **WELLCARE Model WC-WLRBP** is a Wireline Set, Retrieable Plug capable of holding differential pressure from above and below.

The WLRBP may be set on conventional wireline or hydraulic setting tools. The short design is easy to retrieve on tubing, coil tubing or sand line, using the appropriate retrieving tool.

When the retrieving tool engages the top of the bridge plug, the equalizing valve opens before the bridge plug is released, preventing the bridge plug from moving with differential pressure.

FEATURES

- Wireline, hydraulic or coiled tubing set
- Caged bi-directional slips
- Equalizing valve opens before plug is released
- Straight pull release
- Over shot will wash to gage ring for easy retrieval
- Rotational safety release mechanism while tubing retrievable only
- Optional sand line or coiled tubing retrieval
- Swab resistant packing element system

BENEFITS

- Slips are standard for long life and durability
- Compact design for tight doglegs, short lubricators
- Simple, rig-friendly operation
- Holds pressure from above and below

APPLICATIONS

- Acidizing & fracturing
- Casing pressure testing
- Wellhead repair or replacement
- Zonal isolation



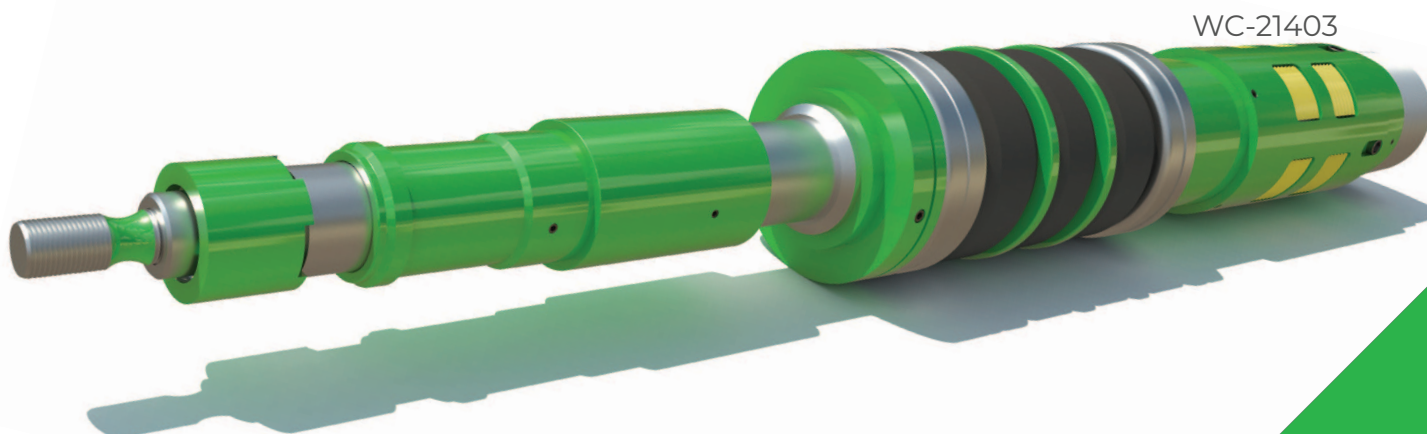
WIRE LINE SET RETRIEVABLE
BRIDGE PLUG

SPECIFICATION GUIDE (WC-WLRBP)

Casing Specification				WLRBP Specification			
Casing OD (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	Max. OD (in.)	*End Connection	Differential Pressure Ratings (psi)	API Validation Grade
4 1/2	12.6-15.1	3.826	3.958	3.580	2 7/8, 6.5 PPF EU Pin Down	7,500	V3
	9.5-13.5	3.920	4.090	3.771			
5	15-18	4.276	4.408	4.125			
	11.5-15	4.408	4.560	4.250			
5 1/2	20-23	4.670	4.778	4.500	3 1/2, 9.3 PPF EU Pin Down		
	15.5-20	4.778	4.950	4.641			
	13-15.5	4.950	5.044	4.781			
7	32-35	6.004	6.094	5.812	4 1/2, 12.75 PPF EU Pin Down		
	26-29	6.184	6.276	5.968			
	23-26	6.276	6.456	6.078			
9 5/8	47-53.5	8.535	8.681	8.218		5,000	
	40-47	8.681	8.835	8.437			

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

NOTE: * End connection would be furnished as per requirement or customer demand.



WIRE LINE SET RETRIEVABLE
BRIDGE PLUG

SPECIFICATION GUIDE (WC-WLRBP-V0)

Casing Specification				WLRBP-V0 Specification			
Casing OD (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	Max. OD (in.)	*End Connection	Differential Pressure Ratings (psi)	API Validation Grade
3 1/2	7.7-9.2	2.992	3.068	2.867	1.900, 2.9 PPF EU Pin Down	7,500	V0
4 1/2	12.6-15.1	3.826	3.958	3.580	2 7/8, 6.5 PPF EU Pin Down		
	9.5-13.5	3.920	4.090	3.771			
5	15-18	4.276	4.408	4.125			
	11.5-15	4.408	4.560	4.250			
5 1/2	20-23	4.670	4.778	4.500	3 1/2, 9.3 PPF EU Pin Down		
	15.5-20	4.778	4.950	4.641			
	13-15.5	4.950	5.038	4.781			
7	32-35	6.004	6.094	5.812	4 1/2, 12.75 PPF EU Pin Down		
	26-29	6.184	6.276	5.968			
	23-26	6.276	6.366	6.078			
9 5/8	47-53.5	8.535	8.681	8.218		5,000	
	40-47	8.681	8.835	8.437			

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

NOTE: * End connection would be furnished as per requirement or customer demand.



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WELLCARE OIL TOOLS

MECHANICAL SET RETRIEVABLE BRIDGE PLUG

OVERVIEW

The **Wellcare Model WC-MSRBP** Mechanical Set Retrievable Bridge Plug is a high-pressure packer type plug used for multiple zone and selective single- zone treating and testing operations such as acidizing, fracturing, cementing, and testing. The retrievable bridge plug is designed with a large internal by-pass to reduce swabbing when running and retrieving. The by-pass closes during the setting of the plug and opens prior to releasing the upper slips to equalize pressure when unsetting. The by-pass is located directly below the upper slips to help debris wash when the by-pass is open.

The Retrievable Bridge Plug has the added feature of being able to set and pack off the element in tension, making it ideal for setting shallow to test well head equipment and also deep, high pressure wells.

FEATURES & BENEFITS

- The one-quarter right turn to set the plug and one-quarter right turn to release it provide reliable operation, especially in applications with limited rotational movement.
- The large, internal bypass equalizes pressure before releasing the upper slips for safe plug retrieval.

APPLICATIONS

- Wellhead testing
- Treating and testing multiple selected zones
- Deep high-pressure testing
- Fracturing
- Temporary zonal isolation



MECHANICAL SET RETRIEVABLE
BRIDGE PLUG

SPECIFICATION GUIDE (WC-MSRBP)

Casing Specification				MSRBP Specification				
Casing Size OD (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	Max. OD (in.)	*End Connection	Differential Pressure Ratings (psi)	API Validation Grade	
4 1/2	9.5-13.5	3.920	4.090	3.750	1.900, 2.75 PPF NU Pin Down	7,500	V3	
5	11.5-15	4.408	4.560	4.125				
	18-20.8	4.156	4.276	4.000				
5 1/2	14-20	4.778	5.012	4.625				
	20-23	4.670	4.778	4.500				
6 5/8	24-32	5.675	5.921	5.500	2 7/8, 6.4 PPF NU Pin Down	5,000		
7	20-26	6.276	6.456	6.000				
	26-32	6.094	6.276	5.875				
7 5/8	24-29.7	6.875	7.025	6.672				
	33.7-39	6.625	6.765	6.453				
8 5/8	28-40	7.725	8.017	7.531	3 1/2, 9.3 PPF EU Pin Down	4,000		
9 5/8	32.0-43.5	8.755	9.001	8.500				
	40-53.5	8.535	8.835	8.250				
10 3/4	32.75-51	9.850	10.192	9.625		4 1/2, 12.75 PPF EU Pin Down		3,000
10 3/4	51-65.7	9.560	9.850	9.312				
11 3/4	42-71	10.586	11.084	10.375				
13 3/8	48-54.5	12.615	12.715	12.375				
	54.5-77	12.275	12.615	12.000				

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

NOTE: * End connection would be furnished as per requirement or customer demand.



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WELLCARE OIL TOOLS

HYDRO MECHANICAL BRIDGE PLUG

OVERVIEW

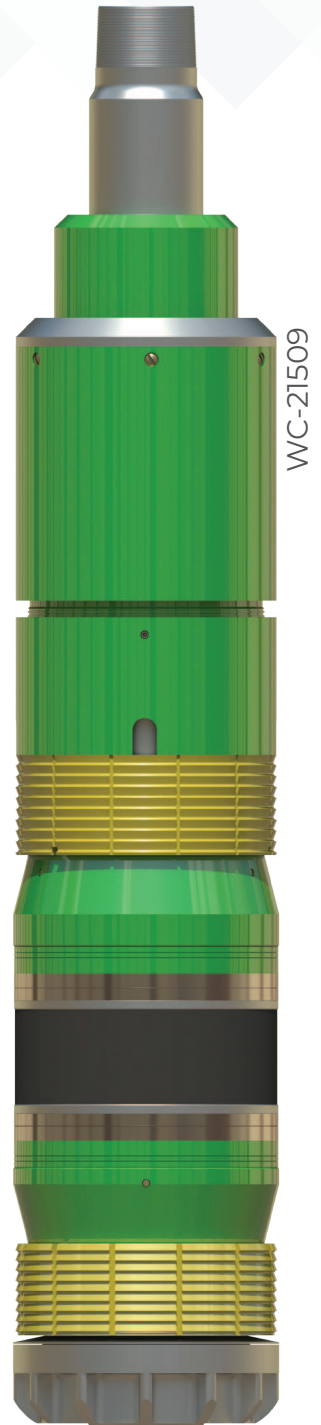
The **Wellcare Model WC-HMBP** Hydro-Mechanical Bridge Plug is a drillable bridge plug, which utilizes a built-in hydraulic chamber to begin the setting process.

FEATURES & BENEFITS

- Hydraulic actuated mechanical set.
- Slim line design.
- Tubing released by right hand rotation (primary) or shearing in tension.
- Fast and easy PDC drillable.
- The setting mechanism and control are contained in the bridge plug eliminating the need for a complex mechanical setting tool.
- Eliminates the expense of wireline setting tool and equipment.
- Full tubing bore is available for unobstructed passage of fluids and wireline run perforating and logging equipment after the plug is set and tubing released.
- Can be run and set in tandem with retrievable production packers or squeeze packers.

APPLICATIONS

- Well abandonment
- Temporary and permanent zone isolation
- Cementing & Stimulation

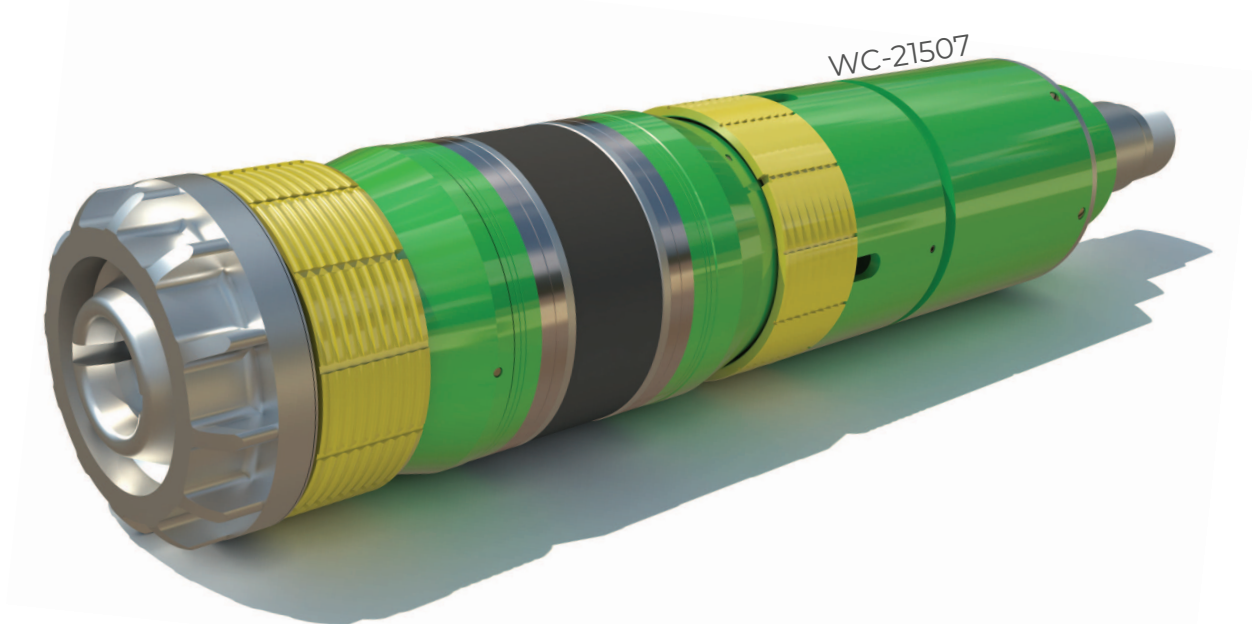


HYDRO MECHANICAL BRIDGE PLUG SPECIFICATION GUIDE (WC-HMBP)

Casing Specification				HMBP/HMBP-V3 Specification				
Casing/Tubing		Preferred Casing ID Range		Max. OD (in.)	*Top End Connection	Ball Dia (in.)	Differential Pressure Ratings (psi)	API 11D1 Validation Grade
Casing/Tubing Size	Wt. (lbs/ft)	Min ID (in.)	Max ID (in.)					
4 1/2	9.5-15.1	3.826	4.090	3.593	2-3/8, 4.7 PPF EU Pin Thread	1 1/16	10,000	V3
5	11.5-20.8	4.154	4.560	3.937				
5 1/2	13.0-23.0	4.670	5.044	4.312				
6 5/8	17.0-32.0	5.675	6.135	5.410	2-7/8, 6.5 PPF EU Pin Thread	1 1/4	8000	
7	17.0-38.0	5.920	6.538	5.687				
7 5/8	20.0-39.0	6.625	7.125	6.312				
9 5/8	29.3-58.4	8.435	9.063	8.125				
13 3/8	48.0-80.7	12.215	12.715	12.000			3000	

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

NOTE: WELLCARE MODEL WC-HMBP IS AVAILABLE ON REQUEST IN V0 VALIDATION GRADE.



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WIRELINE ADAPTER KIT FOR DRILLABLE BRIDGE PLUG & CEMENT RETAINER

OVERVIEW

The **Wellcare Model WC-WAKDB** Wireline Adapter Kit is used to set permanent bridge plugs and cement retainers in conjunction with the wireline pressure setting assembly while setting thru wireline. It can also be used in union with HST hydraulic setting tool, either run by drill pipe or tubing string into the well bore.

SPECIFICATION GUIDE (WC-WAKDB)

Casing/Tubing Specification		BP/CR Specification		Wire Line Adapter Kit (WC-WAKDB)		
OD (in.)	Wt. (lbs./ft.)	Product Size	Max OD (in.)	Product Size	Setting Sleeve OD (in.)	Model “E-4” Pressure Setting Assembly
2 3/8	4.0-5.8	P1	1.750	P1	1.750	5
2 7/8	11.0-11.65					
	7.9-10.7	P2	1.968	P2	1.968	
	6.4-6.5	P3	2.220	P3	2.220	
3 1/2	15.68-16.81					
	10.2-13.3	P4	2.562	P4 - P5	2.750	
4	22.8					
3 1/2	5.75-10.2	P5	2.750			
4	14.8-19.0					
4 1/2	26.5					
4	5.6-14	P6	3.140	P5-P6	3.000	10
4 1/2	17.7-24.6					
4 1/2	9.5 – 15.1	X1	3.593	X1	3.500	
5	11.5 - 20.8	Y1	3.937	Y1-X2	3.812	20
5 1/2	13 - 23	X2	4.312			
6	14 - 26	Y2	4.937	Y2	4.937	
	10.5 - 12					
6 5/8	17-32	X3	5.410	X3-Y3	5.375	
7	32 - 44					
	17-38	Y3	5.687			
7 5/8	20 - 39	X4	6.312	X4	6.312	
8 5/8	24 - 49	X5	7.125	X5	7.000	
9 5/8	29.3 – 58.4	X6	8.125	X6	8.000	
10 3/4	60.7 - 81	Y6	9.000	Y6	8.875	
	32.75 - 60.7	X7	9.437	X7	9.437	
11 3/4	60.0 - 83.0	Y7	9.937	Y7	9.930	
	42 - 60	X8	10.437	X8	10.437	
13 3/8	85 - 102	Y8	11.562	Y8	11.500	
	48 – 80.7	X9	12.000	X9	11.750	
16	109.0 - 146.0	X11	13.915	X11	13.900	
	55.0 - 84.0	Y11	14.585	Y11	14.125	
18 5/8	76-96.5	X18	17.250	X18	17.125	
20	94-133	Y20	18.375	Y20	17.375	



WIRELINE ADAPTER KIT FOR RETRIEVABLE BRIDGE PLUG

OVERVIEW

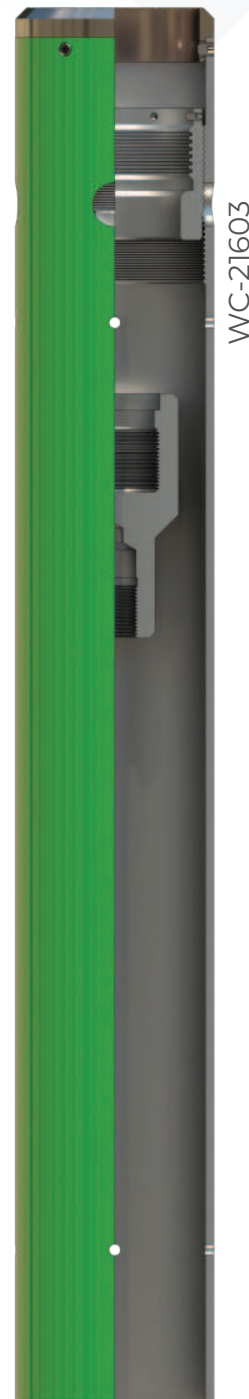
The **Wellcare Model WC-WAKB** Wireline Adapter Kit is used to set wireline retrievable bridge plugs in conjunction with the wireline pressure setting assembly while setting thru wireline. It can also be used in union with HST hydraulic setting tool, either run by drill pipe or tubing string into the well bore.

APPLICATIONS

The Model WC-WAKB Wireline Adapter Kit is used to couple a wireline pressure setting assembly or hydraulic setting tool to the WC-WLRBP

SPECIFICATION GUIDE (WC-WAKB)

Casing Specification				WAKB Specification
Casing OD (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	Setting Sleeve OD (in.)
4 1/2	12.6-15.1	3.826	3.958	3.580
	9.5-13.5	3.920	4.090	
5	15-18	4.276	4.408	4.125
	11.5-15	4.408	4.560	
5 1/2	20-23	4.670	4.778	4.500
	15.5-20	4.778	4.950	
	13-15.5	4.950	5.044	
7	32-35	6.004	6.094	
	26-29	6.184	6.276	
	23-26	6.276	6.456	
9 5/8	47-53.5	8.535	8.681	7.815
	40-47	8.681	8.835	



SNAP LATCH STRINGER SUB

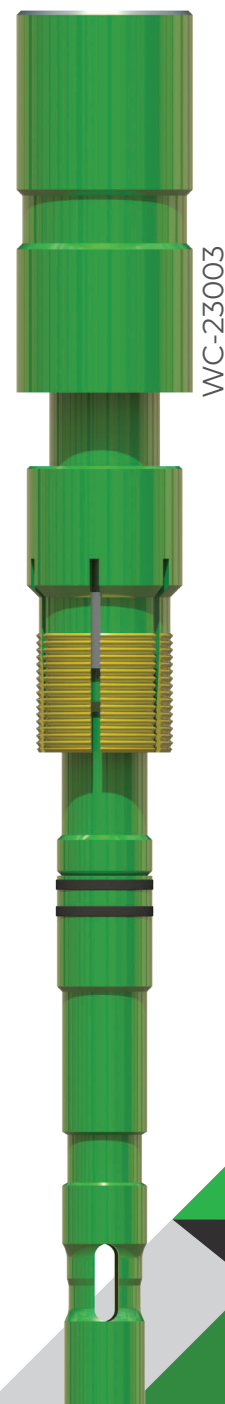
OVERVIEW

The **Wellcare Model WC-SSB** Snap Latch Stinger Sub are used when well conditions make it difficult to pull the necessary two inches required for tubing testing without stinging out of the retainer. These stinger subs are designed to positively lock the stinger sub into the retainer while allowing valve actuation with up and down motion. The WC-SSB-1 Stinger Subs will not lock the retainer valve into the open position. Hydraulic effects must be considered to ensure the valve will remain open during pumping operations.

It features a snap-in, snap-out-type latch that provides a surface indication of the stinger being landed in the cement retainer (giving assurance that the sleeve valve is open) or the stinger sub being removed from the cement retainer (and the sleeve valve closed).

Casing/Tubing Specification		CR Specification		Snap Latch Stinger Sub (WC-SSB)			
OD (in.)	Wt. (lbs./ft.)	Product Size	Max OD (in.)	Product Size	Max. OD (in.)	Top End Connection	
2 3/8	4.0-5.8	P1	1.750	P1-P2	1.750	1.050, 10RD EU Box Up	
2 7/8	11.0-11.65		P2				1.968
	7.9-10.7	P3		2.220			
	3 1/2		6.4-6.5	P4	2.562		P2-P6
15.68-16.81		P5	2.750				
10.2-13.3	P6			3.140			
4					22.8		
3 1/2		5.75-10.2					
4	14.8-19.0						
4 1/2	26.5						
4	5.6-14						
4 1/2	17.7-24.6						
4 1/2	9.5 – 15.1	X1	3.593	X1-Y2	3.062	2 3/8, 4.7 PPF EU Box Up	
5	11.5 - 20.8	Y1	3.937				
5 1/2	13 - 23	X2	4.312				
6	14 - 26	Y2	4.937				
	10.5 - 12						
6 5/8	17-32	X3	5.410	X3-Y20	3.668	2 7/8, 6.5 PPF EU Box Up	
7	32 - 44		Y3				5.687
	17-38	X4					6.312
7 5/8	20 - 39	X5	7.125				
8 5/8	24 - 49	X6	8.125				
9 5/8	29.3 – 58.4	Y6	9.000				
10 3/4	60.7 - 81	X7	9.437				
	32.75 - 60.7		Y7				9.937
11 3/4	60.0 - 83.0	X8	10.437				
	42 - 60		Y8				11.562
13 3/8	85 - 102	X9	12.000				
	48 – 80.7		X11				13.915
16	109.0 - 146.0	Y11					14.585
	55.0 - 84.0		18 5/8				76-96.5
20	94-133	Y20	18.375				

SPECIFICATION GUIDE (WC-SSB)



CONTROL UNIT

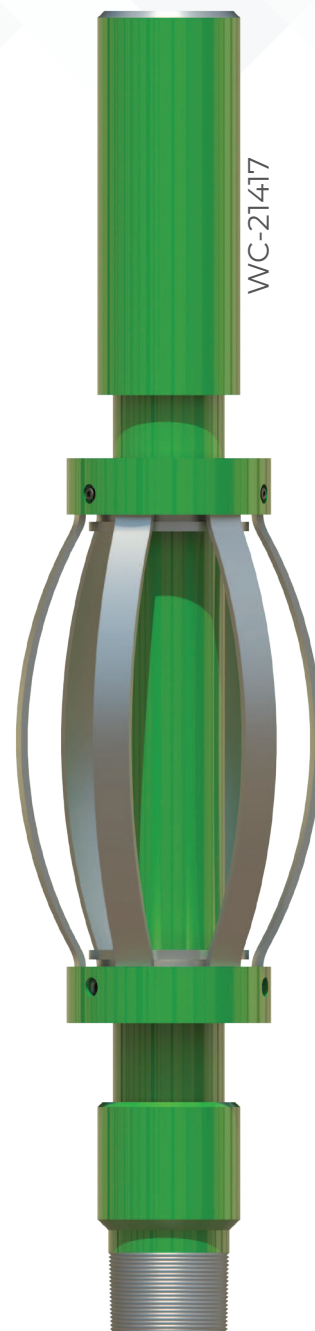
OVERVIEW

The **Wellcare Model WC-CU** Control Unit is made up above the stinger sub and provides a centering device for entering the retainer bore.

SPECIFICATION GUIDE (WC-CU)

Casing/Tubing Specification		CR Specification		Control Unit (WC-CU)			
OD (in.)	Wt. (lbs./ft.)	Product Size	Max OD (in.)	Product Size	Max. OD (in.)	Min. ID (in.)	*End Connection(s)
4 1/2	9.5 – 15.1	X1	3.593	41	5.250	0.875	2 3/8, 4.7 PPF EU Box Up x Pin Down
5	11.5 - 20.8	Y1	3.937				
5 1/2	13 - 23	X2	4.312	45	6.188		1.312
6	14 - 26	Y2	4.937				
	10.5 - 12						
6 5/8	17-32	X3	5.410	47	7.688		
7	32 - 44					Y3	
	17-38						
7 5/8	20 - 39	X4	6.312	49A	8.313		
8 5/8	24 - 49	X5	7.125	49B			
9 5/8	29.3 – 58.4	X6	8.125	51	10.000		
10 3/4	60.7 - 81	Y6	9.000	53	13.109		
	32.75 - 60.7	X7	9.437				
11 3/4	60.0 - 83.0	Y7	9.937	55			
	42 - 60	X8	10.437				
13 3/8	85 - 102	Y8	11.562	57	14.625		
	48 – 80.7	X9	12.000				
16	109.0 - 146.0	X11	13.915	59A	17.266		
	55.0 - 84.0	Y11	14.585	59B	17.766		
18 5/8	76-96.5	X18	17.25	61	20.000		
20	94-133	Y20	18.375	63	21.250		

NOTE: * End connection would be furnished as per requirement or customer demand.



SNAP LATCH SETTING TOOL

OVERVIEW

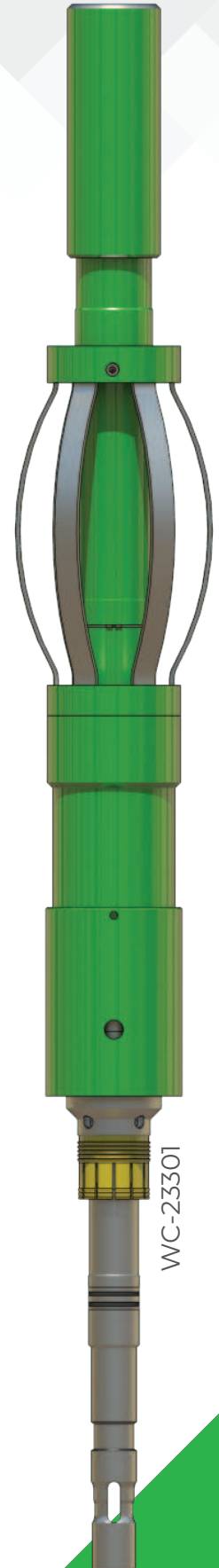
The **Wellcare Model WC-SLST Snap Latch Setting Tool** is used to mechanically set Cement Retainers and Cement Retainers with Flapper Valves. With only minor modifications, the Snap Latch Setting Tool can be converted to set Bridge Plugs.

The **Snap Latch Setting Tool** contains a built in Snap-Latch feature which allows the Setting Tool to be latched into the Cement Retainers with set down weight and released with tension after setting and rotationally releasing from the Retainer. This essentially allows the Setting Tool to function as a Snap Latch Stinger Sub which provides an upward stop as the tubing is raised. At this stop the valve (sleeve or flapper) is closed but the Stinger Sub Seal is still in the bore of the Retainer. The work string can be internally pressure tested in this position when setting a Cement Retainer with Sleeve Valve. Alternate means must be provided to test tubing when running the Flapper Valve Retainer. As shown in Drawing, the Mechanical Set Cement Retainer may be run in the well with the Control Valve in the open position or an Alternate Stinger Sub Body is available for running the valves in the closed position.

FEATURES & BENEFITS

One trip system. Mechanically sets tool with rotation and up strain and functions as a stinger for subsequent cementing operations. Easily converted to set either Cement Retainers or Bridge Plugs. Upper slip is securely locked in place and latch is solidly threaded into the body of the retainer.

Snap latch feature latches into the retainer with set down weight and is released with tension. The stinger opens the sleeve valve with set down weight and closes it with up strain. Tubing pressure test is possible with latch sleeve valve retainers by pulling up to close retainer valve prior to snapping out of retainer.



**SNAP LATCH SETTING TOOL
SPECIFICATION GUIDE (WC-SLST)**

Casing/Tubing Specification		BP/CR Specification			Snap Latch Setting Tool (WC-SLST)				
OD (in.)	Wt. (lbs./ft.)	Product Size	Seal Bore (in.)	Max OD (in.)	Product Size	Setting Sleeve OD (in.)	Max. OD (in.)	Min. ID (in.)	*Top End Connection
4 1/2	9.5 – 15.1	X1	1.345	3.593	X1 - Y1	3.593	5 1/4	0.875	2 3/8, 4.7 PPF EU Box Up
5	11.5 - 20.8	Y1		3.937					
5 1/2	13 - 23	X2		4.312	X2	4.312	6 3/16		
6	14 - 26	Y2		4.937	Y2	4.937	6 13/16		
	10.5 - 12								
6 5/8	17-32	X3	2.000	5.410	X3	5.375	7 11/16	2 7/8, 6.5 PPF EU Box Up	
7	32 - 44			Y3	5.687				Y3
	17-38	X4			6.270				8 5/16
7 5/8	20 - 39	X4		6.312	X4	6.270	8 5/16		
8 5/8	24 - 49	X5		7.125	X5	7.125	9 9/16		
9 5/8	29.3 – 58.4	X6		8.125	X6	8.125	10	3 1/2, 9.3 PPF EU Box Up	
10 3/4	60.7 - 81	Y6		9.000	Y6	8.875	13 7/64		
	32.75 - 60.7	X7		9.437	X7	9.437			
11 3/4	60.0 - 83.0	Y7		9.937	Y7	9.930			
	42 - 60	X8		10.437	X8	10.437			
13 3/8	85 - 102	Y8		11.562	Y8	11.562	14 5/8		
	48 – 80.7	X9		12.000	X9	12.000			
16	109.0 - 146.0	X11		13.915	X11	13.900	17 17/64		3 1/2 IF Box Up
	55.0 - 84.0	Y11		14.585	Y11	14.570	17 49/64		
18 5/8	76-96.5	X18		17.25	X18	17.250	20		
20	94-133	Y20		18.375	Y20	18.373	21 1/4		

NOTE: * End connection would be furnished as per requirement or customer demand.



RETRIEVING TOOL WITH WASH OVER SHOE

OVERVIEW

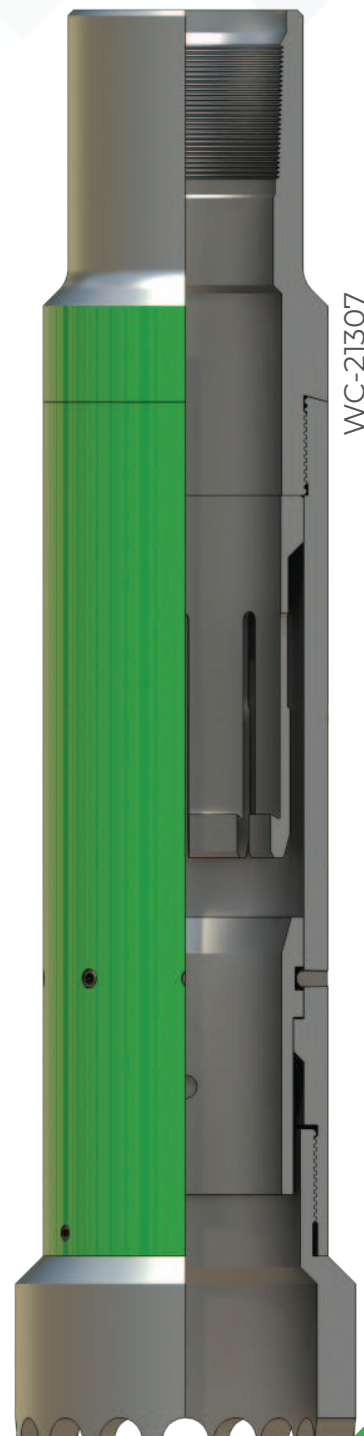
The **Wellcare Model WC-RTRB** retrieving tool is used to retrieve wireline set retrievable bridge plug while intend to retrieve bridge plug on dill pipe or tubing string.

An emergency release is provided in the event the tool will not release when an up strain is taken. Take an up strain of 10,000 to 20,000 lbs. and rotate to the right approximately five turns. This will break off safety sub and allow retrieval of tubing and retrieving head. The plug may then be retrieved by standard fishing operations, utilizing an overshot and tubing jars.

SPECIFICATION GUIDE (WC-RTRB)

Casing Specification				RTRB Specification	
Casing OD (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	Max. OD (in.)	*End Connection
4 1/2	12.6-15.1	3.826	3.958	3.580	2 3/8, 4.7 PPF EU Box Up
	9.5-13.5	3.920	4.090	3.670	
5	15-18	4.276	4.408	4.125	
	11.5-15	4.408	4.560		
5 1/2	20-23	4.670	4.778	4.500	2 7/8, 6.5 PPF EU Box Up
	15.5-20	4.778	4.950		
	13-15.5	4.950	5.044		
7	32-35	6.004	6.094	5.510	
	26-29	6.184	6.276		
	23-26	6.276	6.456		
9 5/8	47-53.5	8.535	8.681	8.200	
	40-47	8.681	8.835		

NOTE: * End connection would be furnished as per requirement or customer demand.



WIRELINE RETRIEVING TOOL FOR RETRIEVABLE BRIDGE PLUG

OVERVIEW

The **Wellcare Model WC-RTRB-W** is a Wireline Pulling Tool used to retrieve Wireline Set Retrievable Bridge Plug.

Operation - Make-up Pulling Tool with stem and jars. Position jars immediately above Pulling Tool. Flag the line and run tools to setting depth. Jar down to open equalizing sleeve. Allow sufficient time for any pressure differential to equalize before releasing plug. Jar upward to release plug. Slowly retrieve plug for 100 ft. to allow packing element system to relax and pass through the casing without hanging up.

An emergency release is provided for the Pulling Tool when the plug is retrieved on sandline. If the tool will not release in the normal manner, jarring down will shear the pulling tool loose and allow retrievable of the tool string without the bridge plug.

SPECIFICATION GUIDE (WC-RTRB)

Casing Specification				RTRB-W Specification	
Casing OD (in.)	PPF Range	Min. ID (in.)	Max. ID (in.)	Max. OD (in.)	*End Connection
4 1/2	12.6-15.1	3.826	3.958	3.580	2 3/8, 4.7 PPF EU Box Up
	9.5-13.5	3.920	4.090	3.750	2 7/8, 6.5 PPF EU Box Up
5	15-18	4.276	4.408	4.125	
	11.5-15	4.408	4.560		
5 1/2	20-23	4.670	4.778	4.500	
	15.5-20	4.778	4.950		
	13-15.5	4.950	5.044		
7	32-35	6.004	6.094	5.510	
	26-29	6.184	6.276		
	23-26	6.276	6.456		
9 5/8	47-53.5	8.535	8.681	8.200	
	40-47	8.681	8.835		

NOTE: * End connection would be furnished as per requirement or customer demand.



RETRIEVING TOOL FOR MECHANICAL SET RETRIEVABLE BRIDGE PLUG

OVERVIEW

The **Wellcare Model WC-RTMRB** retrieving tool for mechanical set retrievable bridge plug runs and retrieves the WC-MSRBP mechanical set retrievable bridge plug.

A one-quarter left turn at the tool releases the plug. The field-proven tool design minimizes the risk of its breaking away from the plug during retrieval. The running J-pins can exit the tool only after the spring force is overcome.

SPECIFICATION GUIDE (WC-RTMRB)

Casing Specification	RTMRB Specification	
Casing Size	Max. OD (in.)	*End Connection
OD (in.)		
4	3.125	2 3/8, 4.7 PPF EU Box Up
4 1/2	3.750	
5	4.000	
5 1/2	4.500	2 7/8, 6.5 PPF EU Box Up
6 5/8	5.438	
7	5.875	
7 5/8	6.250	
8 5/8	7.500	
9 5/8	8.000	3 1/2, 9.3 PPF EU Box Up
10 3/4	9.312	
11 3/4	10.370	4 1/2, 12.75 PPF EU Box Up
13 3/8	11.750	

NOTE: * End connection would be furnished as per requirement or customer demand.

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WELLCARE OIL TOOLS



SEAL STACKS

Standard Seal Stacks – made up of nitrile chevron seals and steel spacer rings. Should remain in sealbore during service.

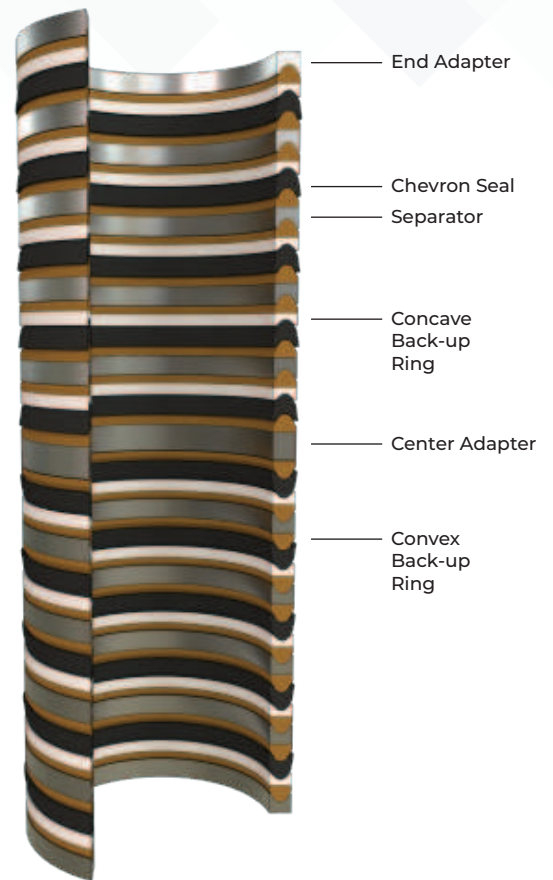
Bonded Seal Stack – Two nitrile or Viton seals are bonded to each metal insert. These inserts are separated by steel spacers. Bonded seals should be used when seals cannot be prevented from moving out of the sealbore while holding differential pressure. Also recommended for sealing low-pressure gas at low temperatures.

V-RYTE Seal Stack – Made up of Viton chevron seals with Tefl on and Ryton backup rings, Ryton front-up rings and steel separators. Should remain in sealbore during service.

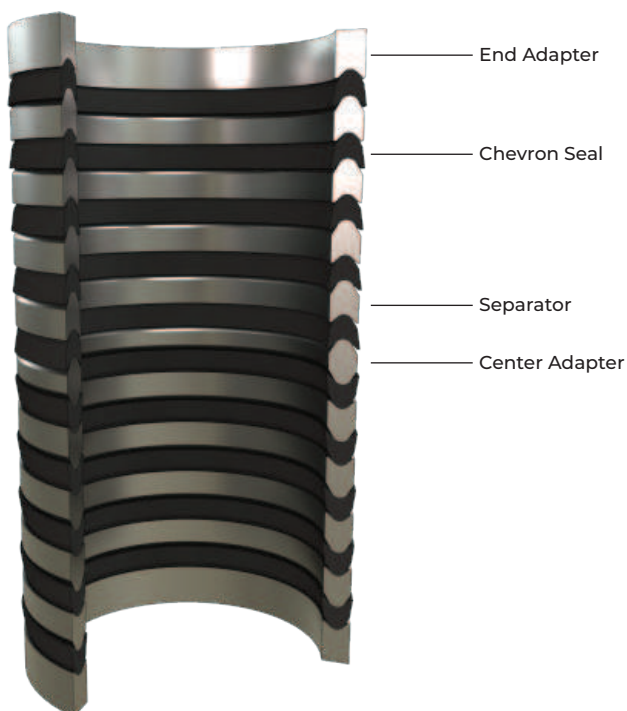
A-RYTE Seal Stack – Made up of Afl as chevron seals with Tefl on and Ryton backup rings, Ryton front-up rings and steel separators. Should remain in sealbore during service.

K-RYTE and K-HEET Seal Stacks – Made up of KALREZ brand Perfluoroelastomer chevron seals with Tefl on and Ryton or HEET front-up rings and steel separators. Should remain in sealbore during service.

V, A, K Ryte Seal Stack



Standard Seal Stack



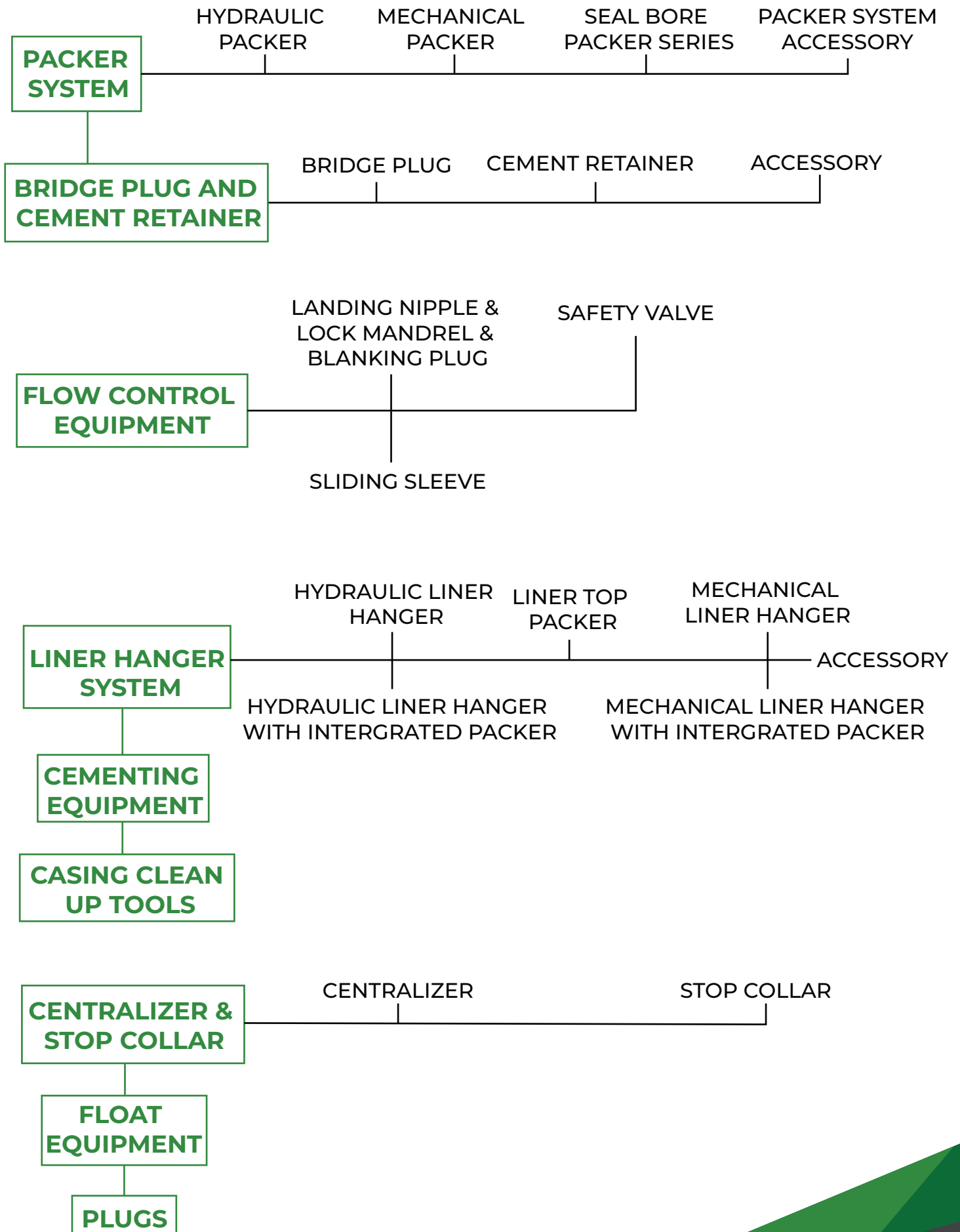
Bonded Seal Stack



ELASTOMER SELECTION CHART

ELASTOMER	TEMPERATURE °F		RECOMMENDED	NOT RECOMMENDED
	Min.	Max.		
NITRILE	40	275*	CO ₂ , CH ₄ , Hydrocarbons, Alcohol, Silicone, Greases, Oils, Water, Petroleum Oil, Fuels, Ethylene Glycol Fluids, Water Soluble Inhibitors, Diesel, Salt Water	HCl, Ketones, Esters, Aldehydes, Chlorinated And Nitro Hydrocarbons, H ₂ S, Xylene, Zinc Bromide, Steam, Ketones, Halogenated Hydrocarbons,
HNBR	40	325*	CO ₂ , CH ₄ , N ₂ , Sweet Crude, Water Based Inhibitors, Salt Water, Methanol, Alcohols, High pH Fluid (>9), Transmission Fluids, Diluted Acids, Refrigerants, Hydraulic Fluids, Silicon Oils, Vegetable And Animal Fats And Oils	Aromatic & Chlorinated Hydrocarbons, Zn Bromide, Ketones, Strong Acids
FLUORO CARBON	40	400	H ₂ S, CO ₂ , CH ₄ , Hydrocarbons, Zinc Bromide, Salt Water, Diesel, HCl	Alcohols, Inhibitors, Steam
AFLAS	100	400	H ₂ S, CH ₄ , CO ₂ , Steam, Acid, Bases, Organic, Inorganic, Ozone Resistance, Salt Water, Zinc Bromide, Hydrocarbon, Alcohol, Xylene, Inhibitors, Diesel, HCl	Aromatic Fuels, Ketones, Carbon Tetrachloride, Chlorinated Hydrocarbons, High pH Amine, Organic Refrigerants
CHEMRAZ	40	400	Petroleum, Oil, Chlorinated Hydrocarbons, H ₂ S, CO ₂ , CH ₄ (Methane), Xylene, Alcohol, Zinc Bromide, Salt Water, Steam, Diesel, Inhibitors, Hydrocarbon, HCl	Molten Metals, Gaseous Al
KALREZ	100	400	H ₂ S, CO ₂ , CH ₄ (Methane), Hydrocarbon(Sweet Crude), Xylene, Alcohol, Zinc Bromide, Salt Water, Diesel, Inhibitors, Steam HCl	Molten Metals, Strong Acids, Radioactive Elements
VITON	40	400	Acid, Fuels, Mineral And Vegetable Oil, Greases, Aliphatic, Aromatic, Chlorinated Hydrocarbon, Non Flammable Hydraulic Fluids, Aging, Ozone Low Gas Permeability, Low Compression.	Steam, Inhibitors, Ketones, Amines, Anhydrous Ammonia And Low Molecular Weight (Esters, Acids, Organic Solvent)

PRODUCT CATEGORY LIST





Quality Solutions for
Down-Hole Tools

OIL TOOLS



WELLCARE OIL TOOLS

Quality Solutions for Down-Hole Tools

Wellcare Oil Tools

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