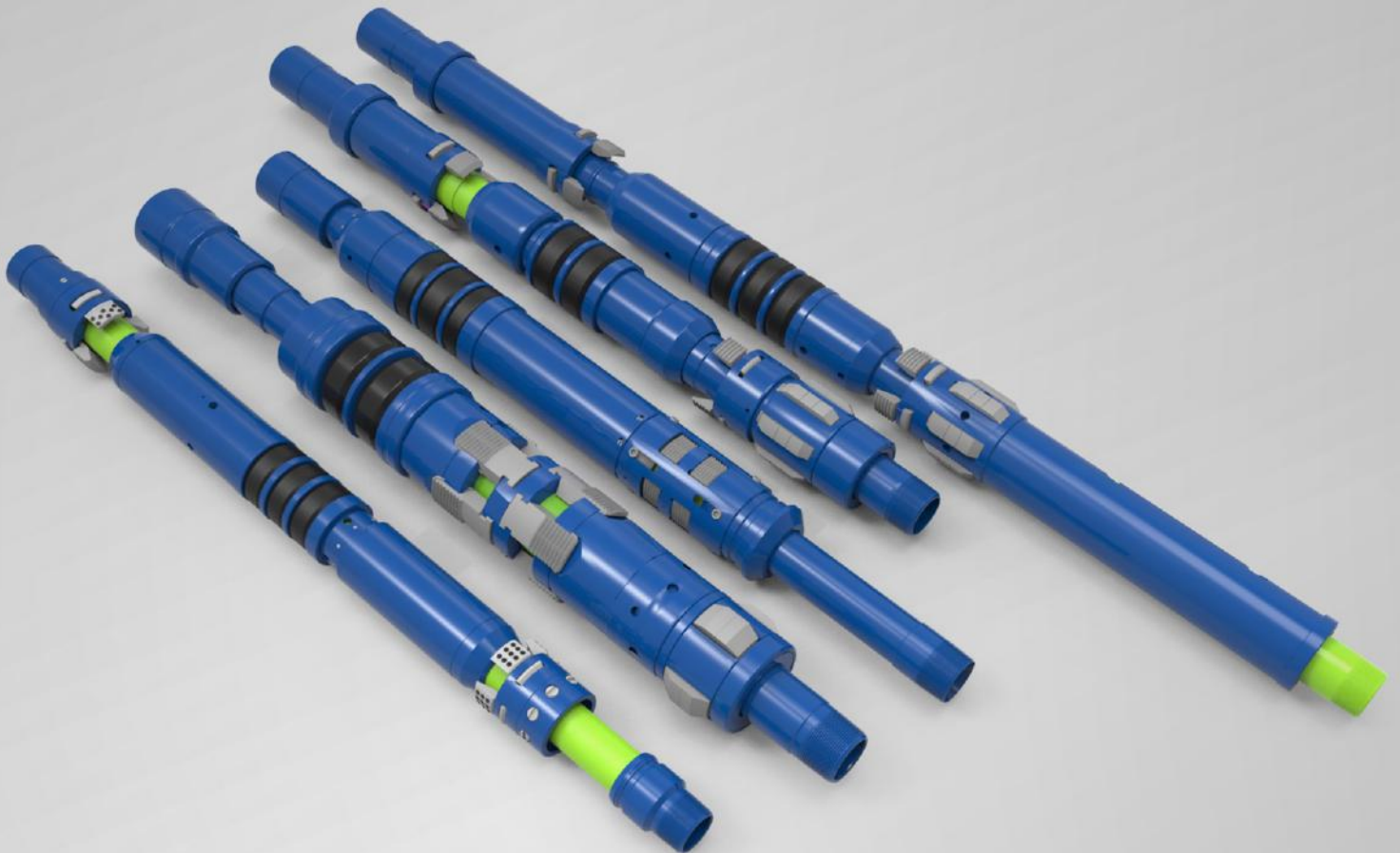


MAXIMUS

Completion Systems

PACKER SYSTEMS



Magnus Set IX
Mechanical Set Packer
Product No.: MG-550



MagnusSet – IX Mechanical Set Testing Packer

MagnusSet - IX Mechanical Set Production Packer is a retrievable, double-grip compression - or tension - set production packer that can be left in tension, compression, or in a natural 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.

FEATURES:

- Sets securely in any hardness casing, including P-110.
- Pressure Rating up to 10,000 Psi.
- Temperature rating up to 350 Degree F.
- ¼ Turn Set & ¼ Turn (to right) Release type packer.
- Emergency Shear Release feature, shear rating 50,000 Lbs.
- Can be left in tension, compression, or neutral position
- Metallurgy L-80, 9Cr. 1 Moly, 13Cr. Flow wet parts

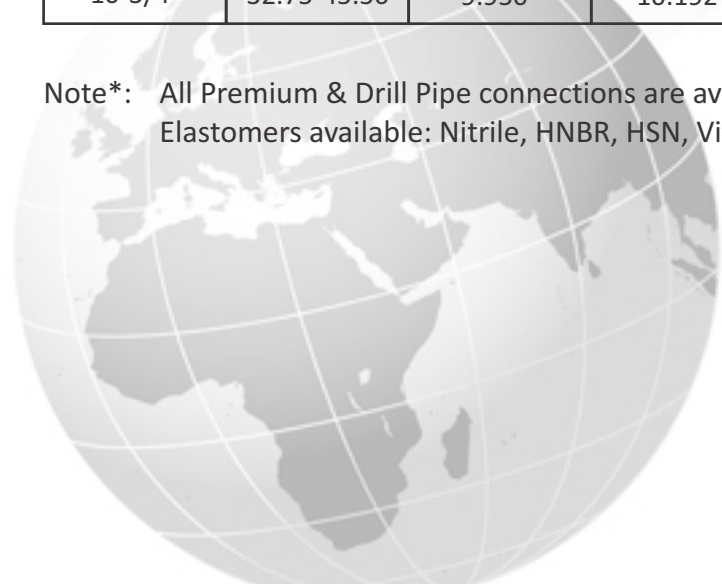


MagnusSet – IX Mechanical Set Testing Packer

Casing & Packer Dimension Table

Casing O.D.	Casing Weight	Minimum Casing I.D.	Maximum Packer O.D.	Packer I.D.	Connection
5.00"	11.5 – 15.0 18.0 – 20.8	4.408"	4.125"	1.938"	2-3/8" EU
		4.156"	4.000"	1.938"	2-3/8" EU
5-1/2"	20.0 – 23.0	4.670"	4.500"	1.984"	2-3/8" EU
	14.0 – 20.0	4.892"	4.625"	1.984"	2-3/8" EU
	20.0 – 23.0	4.670"	4.500"	2.375"	2-7/8" EU
	15.5 – 17.0	4.892"	4.625"	2.375"	2-7/8" EU
6-5/8"	24 - 28	5.791"	5.588	2.900"	3-1/2" EU
		5.044"	4.875"	2.359"	2-7/8" EU
7.0"	26.0 – 32.0	5.875"	5.890"	2.500"	2-7/8" EU
	17.0 – 26.0	6.276"	6.000"	2.500"	2-7/8" EU
	17.0 – 26.0	6.276"	6.000"	3.000"	3-1/2" EU
	26.0 – 35.0	6.004"	5.875"	3.000"	3-1/2" EU
9-5/8"	43.5-53.5	8.535"	8.250"	4.000"	4-1/2" EU
	32.3-43.5	8.755"	8.500"	4.000"	4-1/2" EU
10-3/4"	32.75-45.50	9.950"	10.192"	4.000"	4-1/2" EU

Note*: All Premium & Drill Pipe connections are available on request.
Elastomers available: Nitrile, HNBR, HSN, Viton, Aflas



MagnusSet – IX Mechanical Set Testing Packer

Packer Setting Procedure

Run the packer to setting depth. Pick up and slack off to establish true slack-off and pick-up weights. Pick up on tubing and rotate $\frac{1}{4}$ turn to the right at the packer. Lower tubing to engage slips, release right hand torque while moving downward. (Tubing must be able to rotate back to the left at packer to lock into set position.) Continue to set weight on packer to pack off elements.

After setting weight on packer, pick up on tubing and pull tension into packer to engage upper slips and complete element pack off. Repeat setting weight and pulling tension 2-3 times before landing tubing. Packer may be landed in compression, tension, or neutral position.

Releasing Procedure

The releasing procedures are the same whether the packer has been tension or compression set. Set down weight (normally 1,000 lbs. is sufficient) on the packer and rotate the tubing $\frac{1}{4}$ turn to the right at the packer, then pick up holding the right hand torque.

The internal bypass will open, allowing pressure to equalize. Further pick up releases the patented releasing sequential slip system, relaxing the elements, allowing the packer to be removed from the well. The packer can be moved and reset without tripping the pipe if the Elastomers have not been permanently altered from the well environment.



MagnusSet – IX Packer Setting Forces

Setting Forces Guide

SIZE (Inch)	Minimum Force required at Packer (Lbs.)
5.00"	12,000 Lbs.
5-1/2"	12,000 Lbs.
7.00"	14,000 Lbs.
9-5/8"	25,000 Lbs.
10-3/4"	30,000 Lbs.

Packing Element Guide

Temperature Rating	Temperature Range Deg (F)	Upper Element (Duro)	Middle Element (Duro)	End Element (Duro)
Low Temp.	60 -125	80	60	80
Standard	125 – 225	90	70	90
Moderate	225 – 275	80	80	80
High	275 – 350	90	80	90

