DUAL STRING HYDRAULIC PACKER



SHIELD-ESP DUAL STRING HYDRAULIC PACKER

The SHIELD-ESP packer is a single string set, retrievable packer that is contains umbilical ports for electric and control lines that are used to facilitate the installation of an electric submersible pump. M-ESP is a short, compact design make it easier for run, easier to thandle. The packer can be provided with threaded connections to accept a pack-off power cable feed-through system with cable pigtails, or a drop-through penetrator. Additional optional ports allow venting of annular pressure, fluid injection through the packer, and/or instrument wire port bypass.

SPECIAL FEATURES

- **Zonal Applications**
- **Deviated or Horizontal Well Applications**
- · ESP Completions
- One Trip Hydraulic Set Operation
- Straight Pull Release, Field adjusted Shear Screw
- Seal element located above slips
- Multi-port bores for ESP Cable Feed thru
- · No relative movement between electric cable and tubing avoids cable damage
- Bidirectional Slips withstand loads from above and below
- Mechanically locked in set position
- Separate gas venting string, no venting through primary or secondary strings
- Available with different material and elastomer options
- · Interchangeable within various casing weights
- High Flow Volume/Low Pressure Loss Full opening ID for production string.

Size	7	7	9 5/8 in.	9 5/8 in.
Casing Weight	23-26#	26-29#	40-47#	40-47#
Setting Range	6.276-6.366 in.	6.184-6.276 in.	8.681 — 8.835 in.	8.681 -8.835 in
Maximum OD	6.125 in.	6.000 in.	8.468 in.	8.468 in.
*String 1 Connection	2-7/8 EUE Box	2-7/8 EUE Box	3-1/2 EUE Box	4-1/2 EUE Box
String 1 ID	2.375 in.	2.375 in.	2.900 in.	3.875 in.
*String 2 Connection	1.9 NUE Box	1.9 NUE Box	1.9 NUE Box	1.9 NUE Box
String 2 ID	1.485 in.	1.485 in.	1.850 in.	1.850 in.
Metallic Material	L-80	L-80	L-80	L-80
Elastomers	HNBR/NBR	HNBR/NBR	HNBR/NBR	HNBR/NBR
Service Provide	Standard	Standard	Standard	Standard
Setting Method (Long String)	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Trigger Pressure	1,500 psi	1,500 psi	1,500 psi	1,500 psi
Setting Pressure (min.)	3000 psi	3000 psi	3000 psi	3000 psi
Working Pressure	5000 psi	5000 psi	5000 psi	5000 psi
Release Type	Straight Pull	Straight Pull	Straight Pull	Straight Pull
**Shear Release (min.)	40,000 lbs	40,000 lbs	50,000 lbs	50,000 lbs
Temp. Rating	275 F	275 F	275 F	275 F



^{*} Premium connections available upon request.
* Thread Make-up Torque as per end connection.
**Shear release is variable set.
Other Sizes & configurations also available on the request.