

ESP VORTEX DESANDER TM With Capillar String



(1) Fluid in

Features

- Separate the solid particles before reaches the ESP system.
- New Vortex Deparator design.
- Allow to treat the fluid below the packer.
- Helps to inject the chemical from the bottom of the tail pipe up.

BENEFITS

CAPEX.

Our GV Cup Packer is a double cup design that guarantees the

wear and tear, even under pressure.

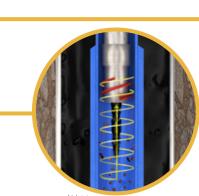
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(3)Fluid out



Chemical and crude mixture

Mud joint







(-Over

4th STAGE: Fluid out

Capillary string

1st STAGE: Fluid in

3rd STAGE: Fluid ascend

2nd <u>STAGE: Vortex sep</u>arator

Chemical injection point

VORTEX FLOW CHART

FLOW CHART		HELIX SIZES		
ESP		EUE TUBING SIZE		
MIN	MAX	2-3/8"	2-7/8"	3-1/2"
96	192	HE1.1	HE2.1	HE3.1
132	252	HE1.2	HE2.2	HE3.2
216	440	HE1.3	HE2.3	HE3.3
330	610	HE1.4	HE2.4	HE3.4
410	850	HE1.5	HE2.5	HE3.5
780	1480	HE1.6	HE2.6	HE3.6
1150	1910	HE1.7	HE2.7	HE3.7
1480	2800	HE1.8	HE2.8	HE3.8
2100	3900	HE1.9	HE2.9	HE3.9

Available -2-3/8" -2-7/8" -3-1/2"

GV CUP PACKER RUBBER MATERIAL

RUBBER	TEMPERATURE	
TYPE	RANGE	
NITRILE	70° - 300° F	
HSN (HNBR)	70° - 325° F	
VITON	100° - 350° F	

PRINCIPLE OF OPERATION

The ESP Slotted Vortex consists of an intake and an embodied helix (vortex creator).

The intake consist of a specifically engineered slotted design. These slots are cut using a plasma cutter which creates smoother cut surfaces than other cutting methods. Smooth surfaces are less likely to be affected by corrosion.

The helix creates the vortex through the use of centrifugal force, which separates the smaller solids and deposits them into the tail pipe[s] (mud joint[s]) enclosed with a bull plug.

Outlet Section is located above the ESP packer and delivers the clean and solid free fluid to the annular section. It consists of a specifically engineered slotted design like the intake.

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