



INSERT PCP

PUMP / BOTTOMHOLE ASSEMBLY

The PCM Insert System is usually used to reduce OPEX with a PCP when heavy work over rig operation is an issue. PCM Insert System requires only a light work over conducted by a reduced service crew. Pulling cost are highly reduced.

» BENEFITS

- Reduce OPEX with short PCP downtime and low work over cost
- Possibility to flush by the pump
- Downhole gauges can be kept downhole while POOH and RIH a PCP
- Suitable for deviated wellbores and sour applications
- Ideal for remote areas with limited rig access



▶ INSERT PCP - ARTIFICIAL LIFT SYSTEM

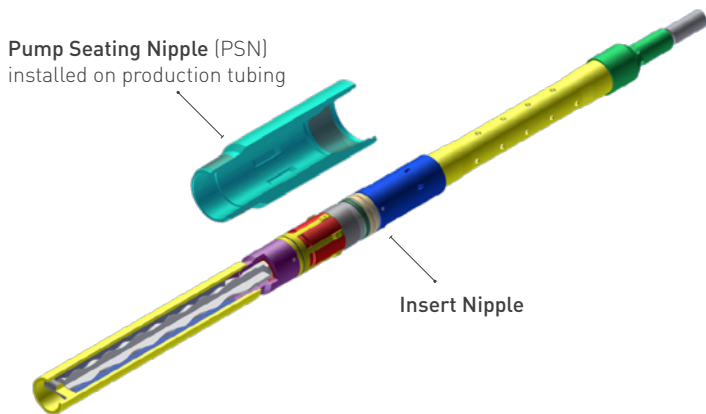


▶ FEATURES

Insert System is composed of 2 main parts:

- **Pump Seating Nipple (PSN)** installed on the tubing string;
- **Insert Nipple**, a part of the PCP string assembly conveyed with the rod string through the tubing and latched to the PSN.

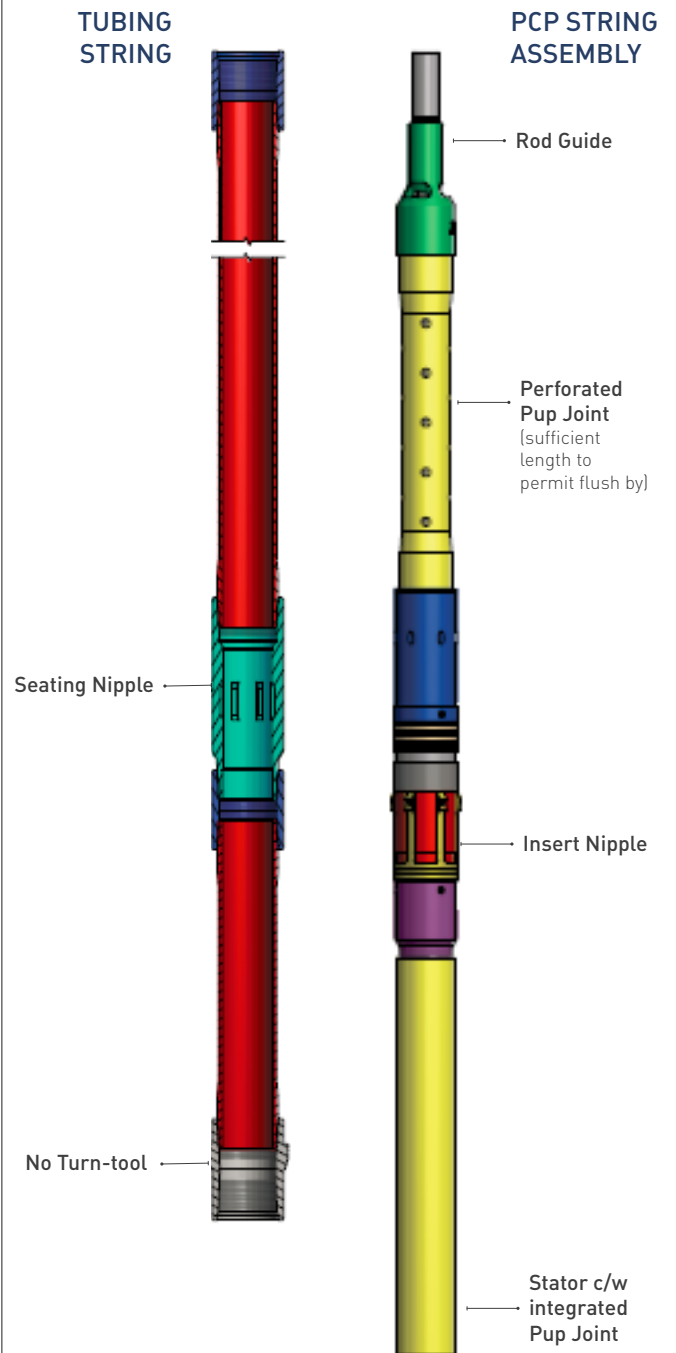
The **PCP string assembly** is composed of a rotor, a polished rod, a centralizer, a Pump Seating Nipple and a stator c/w integrated and perforated pup joint.



▶ SPECIFICATIONS

PSN SIZE	THREAD WEIGHT	PSN SEAL BORE	END CONNECTIONS	INSERT NIPPLE ID MIN
3.500 (88.9 mm)	9.30 lbs/ft	2.790 (70.87 mm)	2.375 NUE	1.62 (41.15 mm)
4.500 (114.3 mm)	12.75 lbs/ft	3.790 (96.27 mm)	2.875 EUE	2.30 (58.42 mm)
5.500 (139.7 mm)	17.00 lbs/ft	4.562 (115.87 mm)	3.500 EUE	3.00 (76.20 mm)

▶ TYPICAL COMPLETION DETAILS





▶ LIST OF AVAILABLE ITEMS

Insert systems are available for 3" 1/2 and 4" 1/2 production tubing (5" 1/2 upon request). Following table provides the compatibility of insert with PCM PCP models:

INSERT SERIES	PUMP SEATING NIPPLE ID	INSERT NIPPLE CONNECTION	PUMP SERIE	PCM PCP MODELS (*) HRPCP compatible
INSERT 3"1/2 - 9.30 lbs/ft	70.9 mm	2"3/8 NUE Box Pin	2"3/8	3E600 / 1200 / 2400 (*)
				6E600 / 1300 / 2000 / 2600 (*)
				16E400 / 1200 / 2400 (*)
INSERT 4"1/2 - 12.75 lbs/ft	96.3 mm	2"7/8 EUE Box Pin	2"3/8	3E600 / 1200 / 2400 (*)
				6E600 / 1300 / 2000 / 2600 (*)
				16E400 / 1200 / 2400 (*)
			2"7/8	13E650 / 1300 / 2000 / 2600 (*)
				22E600 / 1200 / 1800 / 2400 (*)
				48E300 / 600 / 900 / 1200
				24E650 / 1300 / 2000 / 2600 (*)
			3"1/2	32E1500 / 2200 / 3000 (*)
				40E600 / 1200 / 1800 / 2400 (*)
				63E400 / 800 / 1200 / 1600

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