

### PCM Vulcain™ 45V1600

Performance	SI	US
Nominal displacement	0.45 m <sup>3</sup> /d/rpm	2.83 bpd/rpm
Pressure rating	160 bars / 16000 kPa	2300 psi
Pressure per cavity	5.7 bars / 570 kPa	80 psi
Number of engaged cavities	28	
Minimum/maximum speed	50/400 rpm, depending on application	
ISO 15136-1 compliance	N/A	
Helix angle	61.8°	
Cavity flow area	870 mm <sup>2</sup>	1.35 in <sup>2</sup>

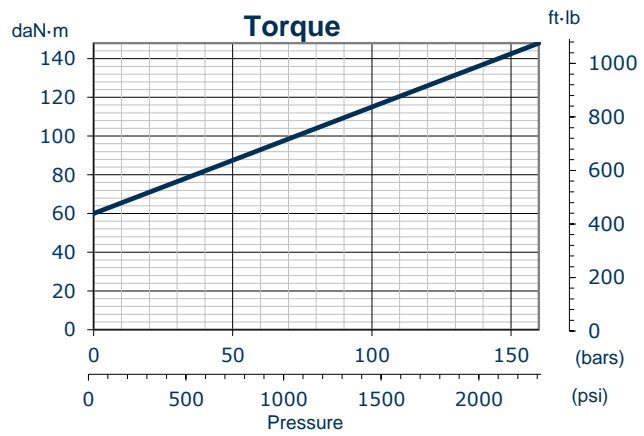
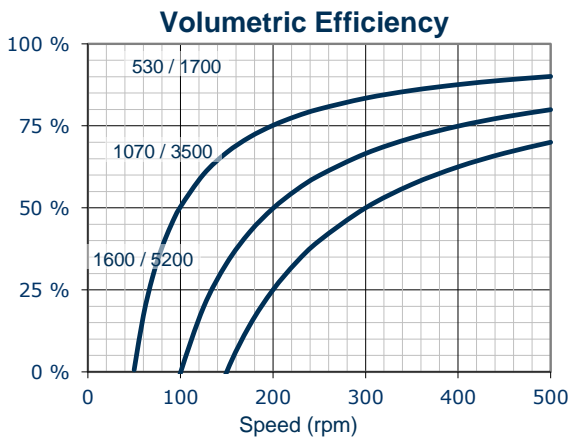
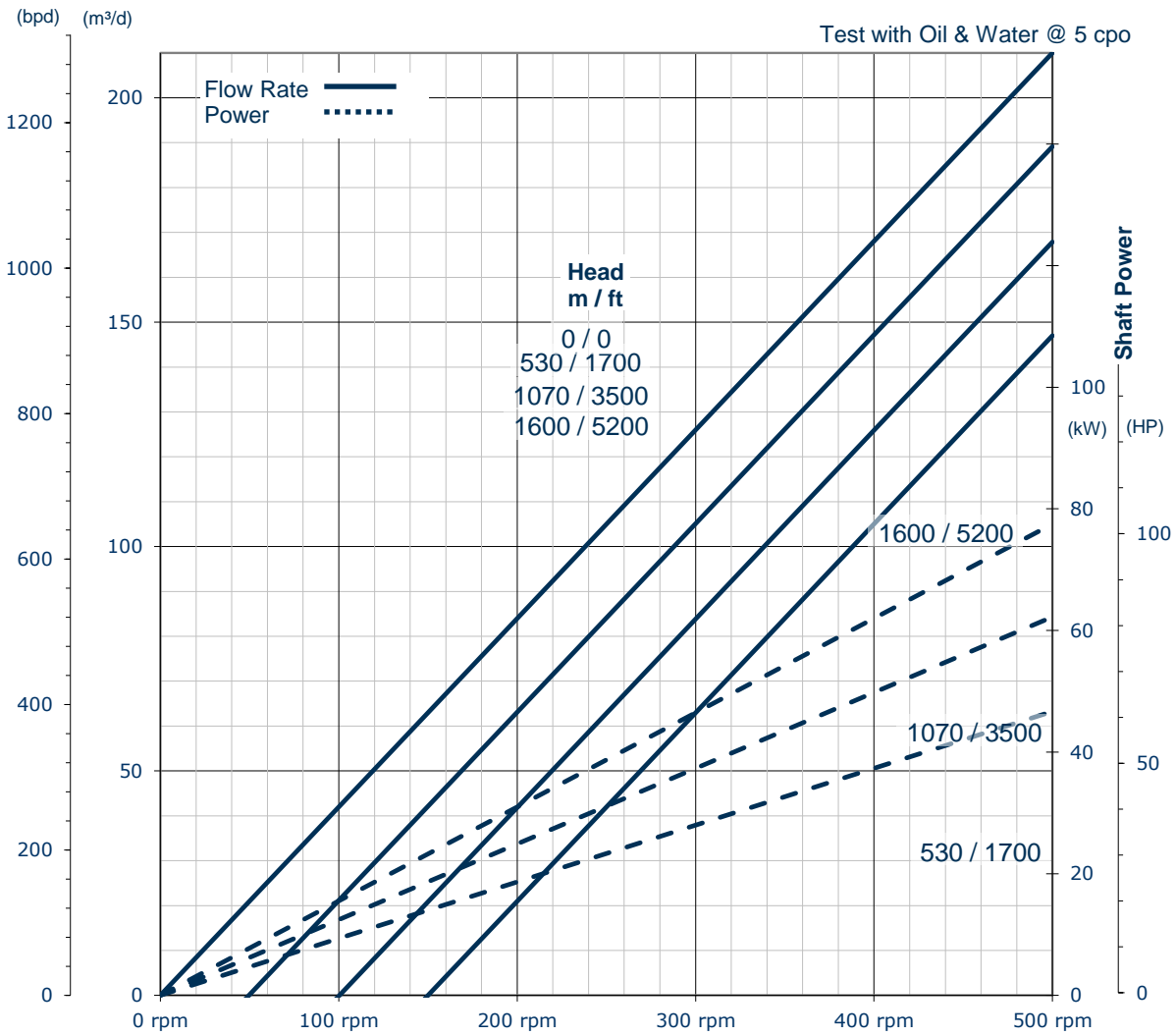
Stator Specifications	Standard	
	SI	US
Top connection (API nominal size)	3½" (88.9 mm) EUE Pin	
Bottom connection (API nominal size)	3½" (88.9 mm) EUE Pin	
Body outside diameter	96.0 mm	3.78"
Maximum outside diameter	114.3 mm	4.50"
Maximum outside diameter if special clearance couplings are used	106.2 mm	4.18"
Length	11.38 m	37' 4.0"
Weight	296 kg	653 lb
Number of elements	4	
Top bushing or tag bar	Available	
Notes		

Rotor Specifications	SI	US
Top connection (nominal size)	1½" (28.6 mm) API Pin	
Total length	11.75 m	38' 6.6"
Helix length	11.64 m	38' 2.3"
Weight	69 kg	152 lb
Minor diameter	37.0 mm	1.457"
Major diameter	49.0 mm	1.929"
Head diameter	57.5 mm	2.264"
Maximum OD with full size coupling	60.3 mm	2.375"
Maximum OD with slimhole coupling	57.5 mm	2.264"
Orbit diameter with full size coupling	72.1 mm	2.838"
Orbit diameter with slimhole coupling	69.3 mm	2.726"
Coating type	Chromium	
Coating thickness	Information upon request	



Completion Considerations
<i>Stator maximum OD must be less than casing drift diameter (some extra clearance is recommended)</i>
<i>Rotor maximum OD must be less than tubing drift diameter</i>
<i>Rotor orbit diameter must be less than pup joint drift diameter</i>

Contact your PCM representative for an operator's manual  
 Top and bottom stator connections can be customized as required (pin/pin, box/box, etc., or changes in size in some cases)  
 This is not a contractual document. PCM reserves the right to make changes at any time.



The flow rate chart is calculated using the validated displacement for this pump.

Revision Number 1-3-2 (2022/06/30)