

Company: VITAN PUMPE D.O.O.
Order confirm. N.: C9074 of: 22/03/23
Offer N°: OFF-22-03972 Rev.05 of: 22/03/23
Your Order N.: No 23014-1 of: 21/03/2023 11.51.42

Serial number: C907403-04 **Item/Denomination:** P-230/P-240

PROGRESSIVE CAVITY PUMP

mod.: DV 20L1 DIAMOND SERIES

Wetted casing and rotating parts material:

Casing in G25 - S275JR / W. 1.0044 and rotating parts in AISI 420B / W. 1.4028 - Carbon Steel

Classification:

Series ID - Industrial sector in compliance with ATEX 2014/34/EU II 2G Ex h IIB Gb TX

FLUID CHARACTERISTICS

Pumped fluid: sludge
Viscosity: 0.8-10 cps
Solids concentration: 0-2 %
Solids size: no advice mm
Specific gravity: 0.8-1 kg/dm³
Abrasiveness: Abrasive
PH: 8
Working temperature: 30-60 °C

OPERATING CONDITIONS

Service: intermittend h/gg
Rotation: Clockwise viewed from the motor
Differential pressure: 0.5-6 bar(g)
Suction pressure: Flooded
Design pressure: 6 bar
Max. power absorbed: 1.4 KW
Tarting Torque: 150 Nm
Solid passage: 29 soft 14 hard mm
Sound power level: Not exceed 85 dB(A) measured at 1 m distance at the complete machine

	Nom.	Min.	Max.	
Rotation speed:	94			rpm
Frequency:	50			Hz
Flow:	5			m³/h

CONSTRUCTION AND PUMP MATERIALS

Installation: Vertical Outlet Down
Pump body:: ANSI B16.5 150lbs RF 3"
 Lenght L=2700 mm from the bottom of the tank to the fixing plate
 Carbon steel
Outlet connection: Conical
 Reduced connection
 Carbon steel
Stator: NBR
Rotor: Reduced execution 1
 AISI 420B / W. 1.4028 induction hardened 55-59 HRC

Joint:	Execution with balance and synthetic lubrication oil Rubber sleeve NBR black food grade
Transmission shaft:	Execution with balance Carbon steel
Drive shaft:	Standard execution Ø35 AISI 420B / W. 1.4028
Seal housing:	Mechanical seal with quench with connections G 1/8" - Q0K9 Cast iron G25
Seal:	Model 120 Ø55 rotating body in st.st., supersinus springs/not balanced, bidirectional SIC INT/TUNG/FPM/316
Coupling:	Standard execution block construction with shaft seal protections Cast iron G25
Painting:	Antirust and anti-oil immersion primer ≥20µm Two coats finishing bicomponent acrylic based ≥ 80µm Black +silver (std) RAL 9005+9006

Accessories:	Flow ATEX II 1/2G Ex de IIC T6/IECEx zone 0/1 with housing and connection BSP (Gas) 3/4"
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MOTORIZATION

Type:	Coaxial gearbox IEC in compliance with ATEX 2014/34/EU with electric motor IEC in compliance with ATEX 2014/34/EU	
Group:	<u>Model</u> RCV 302NF P100 F250 Ø35 V5 II 2G D c, k T4 IP66 in compliance with ATEX 2014/34/EU Mounting position V5 i= 15.37	<u>Brand</u> Varmec
Motor:	E3AB30 100LA 2,2KW 4P 3Ph B5 IE3 EX IP55 (STD) II 2G Ex d IIB T4 1457 rpm 230/400/50Hz 1748 rpm 265/460/60Hz Temperature class F Thermistor PTC	Cemp