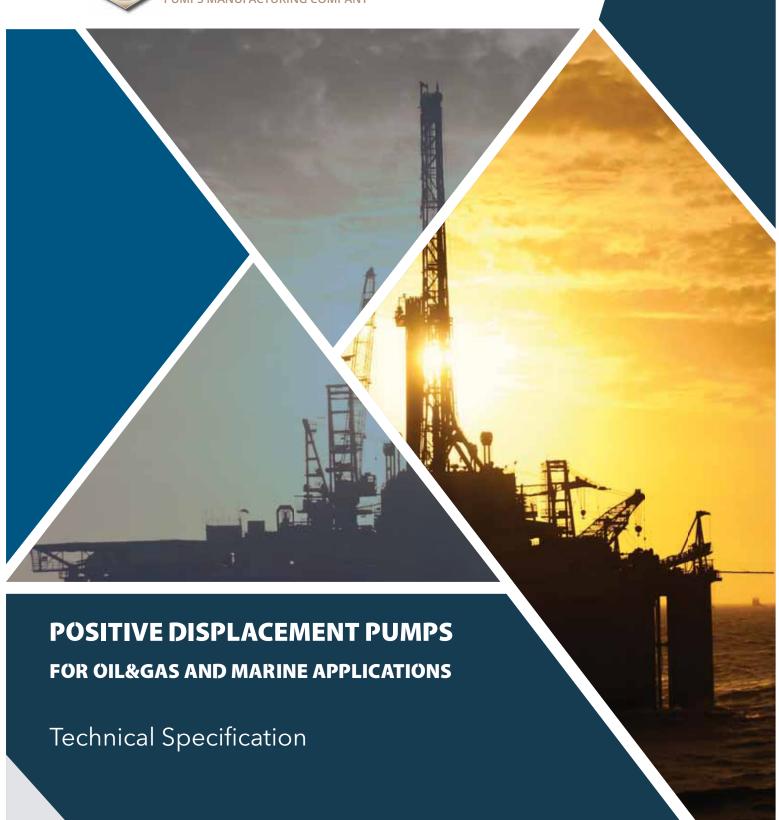
PT. LUGATA KARYA TEKNIK Authorised Distributor for:





since 1952



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E-mail: ptlugata@gmail.com



HR - HRV **Series**



⁴ HP : + 62 8151 420 7600 (WA); +6281280288677 (WA)

PUMP TYPE	TWIN SCREW PUMPS – EXTERNAL TIMING G	EARS			
Pump Series	HR Series:		HRV Series :		
Installation Options:	Horizontal	Vertical			
Executions:	High Capacity				
	Standard & API 676 with deviations - Timing Gears - External Gears and Bearings				
Optimized for Applications in:	Oil&Gas Downstream, Petrochemical, Chemical, Marine & Shipbuilding, General Industry				
Suitable to Fluid having the following	Abrasive and not Abrasive				
properties:	Corrosive (Alkaline / Acid / Aggressive) and n	ot Corrosive			
	Low / Medium / High / Very High Viscosities				
	Not Lubricating or Lubricating				
	Medium / High percentage of Gas or Air dissolved in Liquid				
	Slightly Dirty (small soft particles)				
Advantages of the Operating Principle:	Capability of handling a Wide Range of visco = one pump for many types of fluids and ma				
	High Suction Lift Capability – the pump NPSH				
	Self Priming without any auxiliary devices.	seeing very ion down to 1/2 meters.			
		to its smooth axial and low-pulsation movemer	nt.		
		iform, allowing to handle fluids that are very vi			
		es, thanks to the low Internal velocities given by			
	High Rotating Speeds are possible thanks to	the low inertia of the screws.			
	Screws are contact-less so wear-out is minin				
	Flow rate is constant even when pressure ch	anges.			
	Reversible at Low Speeds / Pressure.				
	Capability of Dry Running for a limited perio	d and in particular conditions.			
	Low noise level & Low vibration.				
Pump Series	HR Series:				
Maximum design pressure:	14 bar (standard) [204 psig]				
Flow rates:	up to 3500 m3/h [15400 GPM]				
Viscosity of the pumped fluid:	up to 35.000 cSt				
Pipe Nominal Size DN:	from 50 to 750 [from 2" up to 30"]				
Rotation speed: Temperature range:	from 200 up to 2200 rpm 46 / ±200 °C 51 / ±573 °E ON BEQUEST 60°C				
Pulsations:	-46 / +300 °C [-51 / +572 °F] - ON REQUEST -60°C Minimized (almost zero)				
Bearing types:	External Bearings and Gears in oil bath / gre	ase			
Standard Materials:	Casing / Liner	Screws	Shafts		
	Cast Iron, Ductile Cast Iron	Ductile Cast Iron	High Strenght Low Alloy Steel		
	Carbon Steel (Cast or Fabricated)	High Strenght Low Alloy Steel	Stainless Steel AISI 420		
	Low Temperature Carbon Steel (Cast or	Stainless Steel AISI 420	Stainless Steel 17-4 PH		
	Fabricated)				
	12% Cr Stainless Steel	Stainless Steel AISI S316/S316L	Stainless Steel XM-19		
	Stainless Steel AISI S316/S316L (Cast or Fabricated)	Stainless Steel 17-4 PH or AISI 431	Duplex & Super Duplex St. Steel		
	Bronze, Nickel Aluminium Bronze	Duplex & Super Duplex St. Steel	HVOF Spray Coating /Tungsten Carbide Coat-		
			ing		
		HVOF Spray Coating /Tungsten Carbide Coating	Chromium Plating		
		Nitriding	Nitriding		
Customized materials:	Other Alloys and Material Combinations ar	e available on request			
	NORSOK Compliant Materials are available of	on request			
Main Application Fields:	HR / HRV Series				
	OIL & GAS DOWNSTREAM: Tank Storages / T	·			
		omplex, Lubricants Plants, Bitumen/Asphalt/Ta	r Plants		
	CHEMICAL: Resin Production, Paint Production		Dietferres Units		
		Cargo Ships, Support Vessels, FPSOs, Offshore	riauorms Hulls		
	POWER GENERATION: Heavy Fuel Oil Power	riants, Lube Oil Systems			

E-mail: ptlugata@gmail.com



HD - HDL - HDV Series



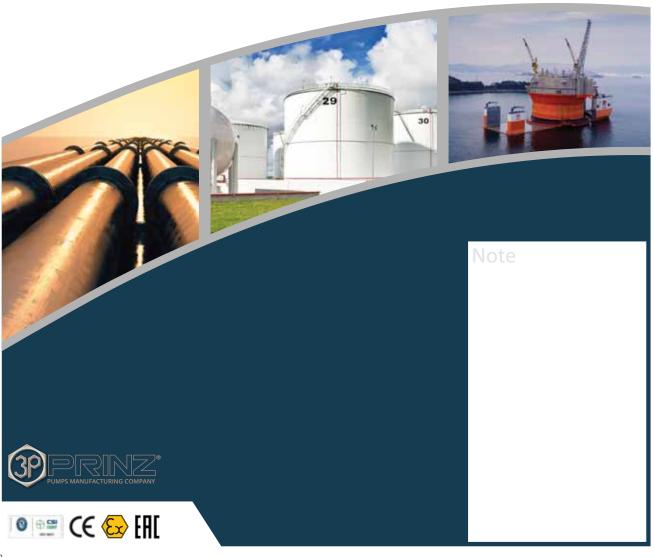
⁵ HP : + 62 8151 420 7600 (WA); +6281280288677 (WA) E-mail : jonlin@cbn.net.id; Jonlin.Napitu@gmail.com

PUMP TYPE	TWIN SCREW PUMPS - EXTERNAL TIMING GEARS				
Pump Series	HD Series:	HDL Series:	HDV Series :		
Installation Options:	Horizontal (Cast Casing)	Horizontal (Fabricated Steel Casing, with Replaceable Liner)	Vertical		
Executions:	Standard & API 676 - Timing Gears - External Gears and Bearings				
Optimized for Applications in:	Oil&Gas, Petrochemical, Chemical, Marine & Shipbuilding, General Industry				
Suitable to Fluid having the following properties:	Abrasive and not Abrasive				
	Corrosive (Alkaline / Acid / Aggressive) and	not Corrosive			
	Low / Medium / High / Very High Viscosities	5			
	Not Lubricating or Lubricating				
	Medium / High percentage of Gas or Air dis	ssolved in Liquid (Multiphase versions availab	le)		
	Slightly Dirty (small particles)				
Advantages of the Operating Principle:	Capability of handling a Wide Range of visco = one pump for many types of fluids and m				
	High Suction Lift Capability – the pump NPS	SH being very low - down to 1,5 meters.			
	Self Priming without any auxiliary devices.				
	Capable to pump very viscous fluids thanks	s to its smooth axial and low-pulsation moven	nent.		
		niform, allowing to handle fluids that are very			
		thanks to the low Internal velocities given by t			
	High Rotating Speeds are possible thanks to	o the low inertia of the screws.			
	Screws are contact-less so wear-out is mini	mized and Pump Life is extended.			
	Flow rate is constant even when pressure c	hanges.			
	Reversible at Low Speeds / Pressure.				
	Capability of Dry Running for a limited period	od and in particular conditions.			
	Low noise level & Low vibration.				
Pump Series	HD, HDL, HDV Series:				
Maximum design pressure:	20 bar (standard) [300 psig]				
Flow rates:	up to 3500 m3/h [15400 psig]				
Viscosity of the pumped fluid:	up to 35.000 cSt				
Pipe Nominal Size DN:	from 50 to 750 [from 2" up to 30"]				
Rotation speed:	from 200 up to 2200 rpm				
Temperature range:	-46 / +350 °C [-51 / +662 °F] - ON REQUEST	-60°C			
Pulsations:	Minimized (almost zero)				
Bearing types:	External Bearings and Gears in oil bath				
Standard Materials:	Casing / Liner	Screws	Shafts		
	Cast Iron, Ductile Cast Iron	Ductile Cast Iron	High Strenght Low Alloy Steel		
	Carbon Steel (Cast or Fabricated)	High Strenght Low Alloy Steel	Stainless Steel AISI 420		
	Low Temperature Carbon Steel (Cast or Fabricated)	Stainless Steel AISI 420	Stainless Steel 17-4 PH		
	12% Cr Stainless Steel	Stainless Steel AISI S316/S316L	Stainless Steel XM-19		
	Stainless Steel AISI S316/S316L (Cast or Fabricated)	Stainless Steel 17-4 PH or AISI 431	Duplex & Super Duplex St. Steel		
	Bronze, Nickel Aluminium Bronze	Duplex & Super Duplex St. Steel	Monel, Inconel® , Hastelloy		
	Duplex & Super Duplex St. Steel	Monel, Inconel® , Hastelloy	HVOF Spray Coating /Tungsten Carbide Coating		
	Inconel Weld Overlay (cladding)	HVOF Spray Coating /Tungsten Carbide Coating	Chromium Plating		
	Monel, Inconel® , Hastelloy	CRA Weld Overlaid	CRA Weld Overlaid		
	Ni-Resist	Nitriding	Nitriding		
Customized materials:	Other Alloys and Material Combinations a	are available on request			
	NORSOK Compliant Materials are available	on request			
Main Application 51-14	HD (HDI (HDYC)				
Main Application Fields:		/NSTREAM: FPSOs, Offshore Platforms, Oil Fie	lds, Oil Pipelines, Gathering Stations, Tank		
	Storages / Terminals	Consolar Lubrica de Bloma Direction	(Tau Diame)		
		Complex, Lubricants Plants, Bitumen/Asphalt.	riar Plants		
	CHEMICAL: Resin Production, Paint Product		. District III P		
	MARINE & SHIPBUILDING: Tankers, Barges, POWER GENERATION: Heavy Fuel Oil Power	. Cargo Ships, Support Vessels, FPSOs, Offsho r Plants, Lube Oil Systems	re Platforms Hulls		
	Salata manifestary ratio and one relating ratio on systems				

E-mail: ptlugata@gmail.com



UD - UDL/JDL - UDV/JDV **Series**



HP: +62 8151 420 7600 (WA); +6281280288677 (WA) E-mail: jonlin@cbn.net.id; Jonlin.Napitu@gmail.com

PUMP TYPE	TWIN SCREW PUMPS - EXTERNAL	TWIN SCREW PUMPS - EXTERNAL TIMING GEARS				
Pump Series	UD Series:	UD Series: UDL Series & JDL Series:				
Installation Options:	Horizontal (Cast Casing)	Horizontal (Fab Replaceable Lir	oricated Steel Casing, with ner)	Vertical		
Executions:	Standard & API 676 - Timing Gears - External Gears and Bearings					
Optimized for Applications in:	Oil&Gas Upstream / Midstream, Petrochemical, Chemical, Shipbuilding					
Suitable to Fluid having the following properties:	Abrasive and not Abrasive					
	Corrosive (Alkaline / Acid / Aggress	sive) and not Corr	osive			
	Low / Medium / High / Very High \	/iscosities				
	Not Lubricating or Lubricating					
	Medium / High percentage of Gas	or Air dissolved in	n Liquid (Multiphase versions av	vailable)		
	Slightly Dirty (small particles)	Slightly Dirty (small particles)				
Advantages of the Operating Principle:	Capability of handling a Wide Range of viscosities and pressures = one pump for many types of fluids and many flow rates!					
	High Suction Lift Capability – the pump NPSH being very low - down to 1,5 meters.					
	Self Priming without any auxiliary		very low down to 1,5 meters.			
	Capable to pump very viscous flui		mooth axial and low-pulsation n	novement		
	Pulsations are minimized and flow					
	sensitive to shear stresses or turb	ulences, thanks to	the low Internal velocities give			
	High Rotating Speeds are possible					
	Screws are contact-less so wear-o		iu rump Lite is extended.			
	Flow rate is constant even when p					
	Reversible at Low Speeds / Pressu		or 1 100			
	Capability of Dry Running for a lim	nited period and ir	n particular conditions.			
	Low noise level & Low vibration.					
Pump Corios	UD, UDL Series:		ID IDI Sorios:			
Pump Series Maximum design pressure:			JD, JDL Series: 149 barg [2170 psig]			
Maximum design pressure.	50 barg [730 psig]		max ANSI 900 rating			
Flow rates:	up to 1000 m3/h [4000 GPM]		up to 600 m3/h [2650 GPM]			
Viscosity of the pumped fluid:	up to 35.000 cSt		up to 35.000 cSt			
Pipe Nominal Size DN:	from 50 to 400 – from 2" to 16"		from 50 to 400 – from 2" to 1	6"		
Rotation speed:	from 200 up to 2200 rpm		from 200 up to 2200 rpm	0		
Temperature range:	-46 / +350 °C [-51 / +662 °F] - ON	DEULIEST -60°C	-46 / +350 °C [-51 / +662 °F] -	ON PEOLIEST -60°C		
Pulsations:	Minimized (almost zero)	REQUEST -00 C	Minimized (almost zero)	- 014 KEQ0E31 -000 C		
Bearing types:	External Bearings and Gears in oil	hath	External Bearings and Gears	in oil bath		
Standard Materials:	Casing / Liner	Screws	External Bearings and Gears	Shafts		
Standard Materials.	Cast Iron, Ductile Cast Iron	Ductile Cast Iron	n	High Strenght Low Alloy Steel		
	Carbon Steel (Cast or Fabricated)	High Strenght L		Stainless Steel AISI 420		
	Low Temperature Carbon Steel	Stainless Steel		Stainless Steel 17-4 PH		
	(Cast or Fabricated)	Chairles Charl	AIGL COACIGOACI	Strike Strike 19		
	12% Cr Stainless Steel Stainless Steel AISI S316/S316L		AISI S316/S316L 17-4 PH or AISI 431	Stainless Steel XM-19 Duplex & Super Duplex St. Steel		
	(Cast or Fabricated) Bronze, Nickel Aluminium Bronze	Duplex & Super	Duplex St. Steel	Monel, Inconel® , Hastelloy		
	Duplex & Super Duplex St. Steel	Monel, Inconel@	® , Hastelloy	HVOF Spray Coating /Tungsten Carbide Coating		
	Inconel Weld Overlay (cladding)	HVOF Spray Coa	ating /Tungsten Carbide	Chromium Plating		
	Monel, Inconel® , Hastelloy	CRA Weld Overl	aid	CRA Weld Overlaid		
	Ni-Resist	Nitriding		Nitriding		
Customized materials:	Other Alloys and Material Combi	nations are avail	able on request			
	NORSOK Compliant Materials are	available on requ	est			
Main Application Fields:	UD / UDL / UDV / JDL / JDV Series					
	OIL & GAS UPSTREAM / MIDSTREA	M: FPSOs, Offsho	re Platforms, Oil Fields, Oil Pipe	elines, Gathering Stations		
	PETROCHEMICAL: Refinery, Petroc	chemical Complex	s, Bitumen/Asphalt/Tar Plants			
	CHEMICAL: Resin Production, Gre-	en Fuels, Polvmer	ic Suspensions			
	MARINE & SHIPBUILDING: Tankers, FPSOs, Offshore Platforms Hulls					
	POWER GENERATION: Heavy Fuel					
	- OWER GENERATION, Heavy Fuel	On I Ower Plants				

E-mail: ptlugata@gmail.com



SR / SD / SDL / SRV / SDV **Series**



° HP : + 62 8151 420 7600 (WA); +6281280288677 (WA)

TWIN SCREW PUMPS - INTERNAL TIMING GEARS					
SR Series:	SD Series: SDL Series:		SRV Series & SDV Series:		
Horizontal (Cast Casing)	Horizontal (Cast Casing)	Horizontal (Fabricated Steel Casing, with Replaceable Liner)	Vertical		
Standard & API 676 - Internal Gears and Bearings (Wetted and cooled by the Pumped Fluid)					
Oil&Gas, Petrochemical, Chemical, Marine & Shipbuilding, Power Generation					
Not Abrasive					
Not Corrosive / Slightly Corrosive					
Medium / High Viscosities					
Lubricating / Slightly Lubricating					
Small percentage of Gas or Air dissolved in Liquid					
Clean, with Minimal Impurities (Small Am	nount of Solid Particles)				
Capability of handling a Wide Range of viscosities and pressures = one pump for many types of fluids and many flow rates!					
High Suction Lift Capability – the pump N	IPSH being very low - down to 1,5 meters.				
Self Priming without any auxiliary device	S.				
Capable to pump very viscous fluids than	nks to its smooth axial and low-pulsation mov	rement.			
turbulences, thanks to the low Internal v	elocities given by the screws movement.	ery viscous and sensitive to shear	stresses or		
	· · · · · · · · · · · · · · · · · · ·				
	e changes.				
	oriod and in particular conditions				
	erioù ariù iri particular coriditioris.				
Low Holse level & Low Vibration.					
SR, SRV Series:	SD Series:	SDL, SDV Series:			
14 bar (standard) [204 psig]	20 bar (standard) [300 psig]	50 barg [730 psig]			
·					
up to 1200 m3/h [5280 GPM]	up to 1200 m3/h [5280 GPM]	up to 1200 m3/h [5280 GPM]			
up to 1200 m3/h [5280 GPM] up to 2.000 cSt	up to 1200 m3/h [5280 GPM] up to 2.000 cSt	up to 1200 m3/h [5280 GPM] up to 2.000 cSt			
	-				
up to 2.000 cSt	up to 2.000 cSt	up to 2.000 cSt			
up to 2.000 cSt from 50 to 400 – from 2" to 16"	up to 2.000 cSt from 50 to 400 – from 2" to 16"	up to 2.000 cSt from 50 to 400 – from 2" to 16"			
up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +300 °C [-51 / +572 °F]	up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +300 °C [-51 / +572 °F]	up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +350 °C [-51 / +662 °F]			
up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +300 °C [-51 / +572 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, wetted and cooled by the Pumped Fluid	up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +300 °C [-51 / +572 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, wetted and cooled by the Pumped Fluid	up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +350 °C [-51 / +662 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, we cooled by the Pumped Fluid	tted and		
up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +300 °C [-51 / +572 °F] - ON REQUEST -60°C Minmized (almost zero) Internal Bearings and Gears, wetted and cooled by the Pumped Fluid Casing / Liner	up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +300 °C [-51 / +572 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, wetted and cooled by the Pumped Fluid Screws	up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +350 °C [-51 / +662 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, we cooled by the Pumped Fluid Shafts	tted and		
up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +300 °C [-51 / +572 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, wetted and cooled by the Pumped Fluid Casing / Liner Cast Iron, Ductile Cast Iron	up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +300 °C [-51 / +572 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, wetted and cooled by the Pumped Fluid Screws Ductile Cast Iron	up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +350 °C [-51 / +662 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, we cooled by the Pumped Fluid	tted and		
up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +300 °C [-51 / +572 °F] - ON REQUEST -60°C Minmized (almost zero) Internal Bearings and Gears, wetted and cooled by the Pumped Fluid Casing / Liner	up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +300 °C [-51 / +572 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, wetted and cooled by the Pumped Fluid Screws	up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +350 °C [-51 / +662 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, we cooled by the Pumped Fluid Shafts High Strenght Low Alloy Steel	tted and		
up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +300 °C [-51 / +572 °F] - ON REQUEST-60°C Minimized (almost zero) Internal Bearings and Gears, wetted and cooled by the Pumped Fluid Casing / Liner Cast Iron, Ductile Cast Iron Carbon Steel (Cast or Fabricated) Low Temperature Carbon Steel (Cast or Fabricated)	up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +300 °C [-51 / +572 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, wetted and cooled by the Pumped Fluid Screws Ductile Cast Iron High Strenght Low Alloy Steel Stainless Steel AISI 420	up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +350 °C [-51 / +662 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, we cooled by the Pumped Fluid Shafts High Strenght Low Alloy Steel Stainless Steel AISI 420 Stainless Steel 17-4 PH	tted and		
up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +300 °C [-51 / +572 °F] - ON REQUEST-60°C Minimized (almost zero) Internal Bearings and Gears, wetted and cooled by the Pumped Fluid Casing / Liner Cast Iron, Ductile Cast Iron Carbon Steel (Cast or Fabricated) Low Temperature Carbon Steel (Cast or Fabricated) 12% Cr Stainless Steel	up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +300 °C [-51 / +572 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, wetted and cooled by the Pumped Fluid Screws Ductile Cast Iron High Strenght Low Alloy Steel Stainless Steel AISI S316/S316L	up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +350 °C [-51 / +662 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, we cooled by the Pumped Fluid Shafts High Strenght Low Alloy Steel Stainless Steel AISI 420 Stainless Steel 17-4 PH Stainless Steel XM-19	tted and		
up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +300 °C [-51 / +572 °F] - ON REQUEST-60°C Minimized (almost zero) Internal Bearings and Gears, wetted and cooled by the Pumped Fluid Casing / Liner Cast Iron, Ductile Cast Iron Carbon Steel (Cast or Fabricated) Low Temperature Carbon Steel (Cast or Fabricated)	up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +300 °C [-51 / +572 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, wetted and cooled by the Pumped Fluid Screws Ductile Cast Iron High Strenght Low Alloy Steel Stainless Steel AISI 420	up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +350 °C [-51 / +662 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, we cooled by the Pumped Fluid Shafts High Strenght Low Alloy Steel Stainless Steel AISI 420 Stainless Steel 17-4 PH	tted and		
up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +300 °C [-51 / +572 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, wetted and cooled by the Pumped Fluid Casing / Liner Cast Iron, Ductile Cast Iron Carbon Steel (Cast or Fabricated) Low Temperature Carbon Steel (Cast or Fabricated) 12% Cr Stainless Steel Stainless Steel AISI S316/S316L (Cast	up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +300 °C [-51 / +572 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, wetted and cooled by the Pumped Fluid Screws Ductile Cast Iron High Strenght Low Alloy Steel Stainless Steel AISI S316/S316L	up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +350 °C [-51 / +662 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, we cooled by the Pumped Fluid Shafts High Strenght Low Alloy Steel Stainless Steel AISI 420 Stainless Steel 17-4 PH Stainless Steel XM-19	tted and		
up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +300 °C [-51 / +572 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, wetted and cooled by the Pumped Fluid Casing / Liner Cast Iron, Ductile Cast Iron Carbon Steel (Cast or Fabricated) Low Temperature Carbon Steel (Cast or Fabricated) 12% Cr Stainless Steel Stainless Steel AISI S316/S316L (Cast	up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +300 °C [-51 / +572 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, wetted and cooled by the Pumped Fluid Screws Ductile Cast Iron High Strenght Low Alloy Steel Stainless Steel AISI 420 Stainless Steel AISI 5316/5316L Stainless Steel 17-4 PH or AISI 431	up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +350 °C [-51 / +662 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, we cooled by the Pumped Fluid Shafts High Strenght Low Alloy Steel Stainless Steel AISI 420 Stainless Steel 17-4 PH Stainless Steel XM-19	tted and		
up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +300 °C [-51 / +572 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, wetted and cooled by the Pumped Fluid Casing / Liner Cast Iron, Ductile Cast Iron Carbon Steel (Cast or Fabricated) Low Temperature Carbon Steel (Cast or Fabricated) 12% Cr Stainless Steel Stainless Steel AISI S316/S316L (Cast	up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +300 °C [-51 / +572 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, wetted and cooled by the Pumped Fluid Screws Ductile Cast Iron High Strenght Low Alloy Steel Stainless Steel AISI 420 Stainless Steel AISI 5316/5316L Stainless Steel 17-4 PH or AISI 431	up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +350 °C [-51 / +662 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, we cooled by the Pumped Fluid Shafts High Strenght Low Alloy Steel Stainless Steel AISI 420 Stainless Steel 17-4 PH Stainless Steel XM-19	tted and		
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up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +300 °C [-51 / +572 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, wetted and cooled by the Pumped Fluid Casing / Liner Cast Iron, Ductile Cast Iron Carbon Steel (Cast or Fabricated) Low Temperature Carbon Steel (Cast or Fabricated) 12% Cr Stainless Steel Stainless Steel AISI S316/S316L (Cast or Fabricated) Other Alloys and Material Combination NORSOK Compliant Materials are availables SR / SD / SDL / SRV / SDV Series OIL & GAS MIDSTREAM / DOWNSTREAM: PETROCHEMICAL: Green Fuels, Clean Chemicals	up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +300 °C [-51 / +572 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, wetted and cooled by the Pumped Fluid Screws Ductile Cast Iron High Strenght Low Alloy Steel Stainless Steel AISI 420 Stainless Steel AISI 5316/5316L Stainless Steel 17-4 PH or AISI 431 Nitriding s are available on request ole on request Tank Storages / Terminals, Oil Pipelines al Complex, Lubricants Plants ses, Cargo Ships, Support Vessels	up to 2.000 cSt from 50 to 400 – from 2" to 16" from 200 up to 2200 rpm -46 / +350 °C [-51 / +662 °F] - ON REQUEST -60°C Minimized (almost zero) Internal Bearings and Gears, we cooled by the Pumped Fluid Shafts High Strenght Low Alloy Steel Stainless Steel AISI 420 Stainless Steel 17-4 PH Stainless Steel XM-19	tted and		
	Horizontal (Cast Casing) Standard & API 676 - Internal Gears and Oil&Gas, Petrochemical, Chemical, Mar Not Abrasive Not Corrosive / Slightly Corrosive Medium / High Viscosities Lubricating / Slightly Lubricating Small percentage of Gas or Air dissolved Clean, with Minimal Impurities (Small Am Capability of handling a Wide Range of v = one pump for many types of fluids and High Suction Lift Capability - the pump N Self Priming without any auxiliary device Capable to pump very viscous fluids than Pulsations are minimized and flow rate i turbulences, thanks to the low Internal v High Rotating Speeds are possible thank Screws are contact-less so wear-out is m Flow rate is constant even when pressur Reversible at Low Speeds / Pressure. Capability of Dry Running for a limited po	Horizontal (Cast Casing) Standard & API 676 - Internal Gears and Bearings (Wetted and cooled by the Pumped Oil&Gas, Petrochemical, Chemical, Marine & Shipbuilding, Power Generation Not Abrasive Not Corrosive / Slightly Corrosive Medium / High Viscosities Lubricating / Slightly Lubricating Small percentage of Gas or Air dissolved in Liquid Clean, with Minimal Impurities (Small Amount of Solid Particles) Capability of handling a Wide Range of viscosities and pressures = one pump for many types of fluids and many flow rates! High Suction Lift Capability - the pump NPSH being very low - down to 1,5 meters. Self Priming without any auxiliary devices. Capable to pump very viscous fluids thanks to its smooth axial and low-pulsation move pulsations are minimized and flow rate is uniform, allowing to handle fluids that are valurbulences, thanks to the low Internal velocities given by the screws movement. High Rotating Speeds are possible thanks to the low inertia of the screws. Screws are contact-less so wear-out is minimized and Pump Life is extended. Flow rate is constant even when pressure changes. Reversible at Low Speeds / Pressure. Capability of Dry Running for a limited period and in particular conditions. Low noise level & Low vibration.	Horizontal (Cast Casing) Horizontal (Cast Casing) Horizontal (Cast Casing) Horizontal (Fabricated Steel Casing, with Replaceable Liner) Standard & API 676 - Internal Gears and Bearings (Wetted and cooled by the Pumped Fluid) Oil&Gas, Petrochemical, Chemical, Marine & Shipbuilding, Power Generation Not Abrasive Not Corrosive / Slightly Corrosive Medium / High Viscosities Lubricating / Slightly Lubricating Small percentage of Gas or Air dissolved in Liquid Clean, with Minimal Impurities (Small Amount of Solid Particles) Capability of handling a Wide Range of viscosities and pressures = one pump for many types of fluids and many flow rates! High Suction Lift Capability – the pump NPSH being very low - down to 1,5 meters. Self Priming without any auxiliary devices. Capable to pump very viscous fluids thanks to its smooth axial and low-pulsation movement. Pulsations are minimized and flow rate is uniform, allowing to handle fluids that are very viscous and sensitive to shear turbulences, thanks to the low Internal velocities given by the screws movement. High Rotating Speeds are possible thanks to the low inertia of the screws. Screws are contact-less so wear-out is minimized and Pump Life is extended. Flow rate is constant even when pressure changes. Reversible at Low Speeds / Pressure. Capability of Dry Running for a limited period and in particular conditions. Low noise level & Low vibration.		

E-mail: ptlugata@gmail.com



HM/HM-V **Series**



¹² HP : + 62 8151 420 7600 (WA); +6281280288677 (WA)

PUMP TYPE	SCREW PUMPS - TIMING EXTERNAL GEARS			
Pump Series	HM Series: HM-V Series:			
Installation Options:	Horizontal Vertical			
Executions:	Standard & API 676 - Timing Gears - External Gears and Bearings			
Optimized for Applications in:	Oil&Gas, Petrochemical, Chemical, Marine & Shipbuilding, Power Generation, General Industry			
Suitable to Fluid having the following	Abrasive and not Abrasive			
properties:	Corrosive (Alkaline / Acid / Aggressive) and no	ot Corrosive		
	Low / Medium / High Viscosities			
	Not Lubricating or Lubricating			
	Medium percentage of Gas or Air dissolved in	n Liquid		
	Slightly Dirty (small particles)			
Advantages of the Operating Principle:	Capability of handling a Wide Range of viscos = one pump for many types of fluids and mar			
	High Suction Lift Capability – the pump NPSH			
	Self Priming without any auxiliary devices.			
		o its smooth axial and low-pulsation movemen	t.	
	Pulsations are minimized and flow rate is uni	form, allowing to handle fluids that are very vis ow Internal velocities given by the screws mov	scous and sensitive to	
	High Rotating Speeds are possible thanks to	the low inertia of the screws.		
	Screws are contact-less so wear-out is minim	ized and Pump Life is extended.		
	Flow rate is constant even when pressure cha	anges.		
	Reversible at Low Speeds / Pressure.			
	Capability of Dry Running for a limited period	l and in particular conditions.		
	Low noise level & Low vibration.			
Pump Series	HM Series:			
Maximum design pressure:	20 bar (standard)			
Flow rates:	up to 80 m3/h [353 GPM]			
Viscosity of the pumped fluid:	up to 35.000 cSt			
Pipe Nominal Size DN:	from 40 to 100 [from 1.1/2" to 4"]			
Rotation speed:	from 200 up to 3600 rpm			
Temperature range:	-46 / +300 °C [-51 / +572 °F] - ON REQUEST -	 50°C		
Pulsations:	Minimized (almost zero)			
Bearing types:	External Bearings and Gears in oil bath			
Standard Materials:	Casing / Liner	Screws	Shafts	
	Cast Iron, Ductile Cast Iron	Ductile Cast Iron	High Strenght Low Alloy Steel	
	Carbon Steel (Cast or Fabricated) High Strenght Low Alloy Steel	High Strenght Low Alloy Steel	Stainless Steel AISI 420	
	Low Temperature Carbon Steel (Cast or Fabricated) Stainless Steel AISI 420	Stainless Steel AISI 420	Stainless Steel 17-4 PH	
	12% Cr Stainless Steel Stainless Steel AISI S316/S316L	Stainless Steel AISI S316/S316L	Stainless Steel XM-19	
	Stainless Steel AISI S316/S316L (Cast or Fabricated) Stainless Steel 17-4 PH or AISI 431	Stainless Steel 17-4 PH or AISI 431	Duplex & Super Duplex St. Steel	
	Bronze, Nickel Aluminium Bronze Duplex & Super Duplex St. Steel	Duplex & Super Duplex St. Steel	Monel, Inconel® , Hastelloy	
	Duplex & Super Duplex St. Steel Monel, Inconel® , Hastelloy	Monel, Inconel® , Hastelloy	HVOF Spray Coating /Tungsten Carbide Coating	
	Inconel Weld Overlay (cladding) HVOF Spray Coating /Tungsten Carbide Coating	HVOF Spray Coating /Tungsten Carbide Coating	Chromium Plating	
	Monel, Inconel® , Hastelloy CRA Weld Overlaid	CRA Weld Overlaid	CRA Weld Overlaid	
	Ni-Resist Nitriding	Nitriding	Nitriding	
Customized materials:	Other Alloys and Material Combinations are a			
	NORSOK Compliant Materials are available o	n request		
Main Application Fields:	HM / HMV Series			
	OIL & GAS UPSTREAM / MIDSTREAM / DOWN	STREAM: FPSOs, Offshore Platforms, Oil Fields,	Oil Pipelines, Gathering Stations	
	PETROCHEMICAL: Refinery, Petrochemical Co	omplex, Lubricants Plants, Bitumen/Asphalt/Tai	Plants	
	CHEMICAL: Resin Production, Paint Production	on, Green Fuels, Polymeric Suspensions		
	MARINE & SHIPBUILDING: Tankers, Barges, C	argo Ships, Support Vessels, FPSOs, Offshore	Platforms Hulls	
	POWER GENERATION: Heavy Fuel Oil Power F	Plants, Lube Oil Systems		

E-mail: ptlugata@gmail.com



VDC Series



⁴ HP : + 62 8151 420 7600 (WA); +6281280288677 (WA)

РИМР ТҮРЕ	VERTICAL TWIN SCREW PUMPS				
Pump Series	VDC Series:				
Installation Options:	Vertical - Submerged				
Executions:	Standard & API 676 - Timing Gears - External Gears and Bearings				
Optimized for Applications in:	Oil&Gas, Petrochemical, Marine & Shipbuilding				
Suitable to Fluid having the following properties:	Abrasive and not Abrasive				
	Corrosive (Alkaline / Acid / Aggressive) and	not Corrosive			
	Low / Medium / High / Very High Viscosities	S			
	Not Lubricating or Lubricating				
		ssolved in Liquid (Multiphase versions availal	ole)		
	Slightly Dirty (small particles)				
Advantages of the Operating Principle:	Capability of handling a Wide Range of visc	cosities and pressures			
	= one pump for many types of fluids and n				
	High Suction Lift Capability – the pump NP	SH being very low - down to 1,5 meters.			
	Self Priming without any auxiliary devices.				
	Capable to pump very viscous fluids thank	s to its smooth axial and low-pulsation move	ment.		
		uniform, allowing to handle fluids that are ver le low Internal velocities given by the screws			
	High Rotating Speeds are possible thanks t	to the low inertia of the screws.			
	Screws are contact-less so wear-out is min	imized and Pump Life is extended.			
	Flow rate is constant even when pressure	changes.			
	Reversible at Low Speeds / Pressure.				
	Capability of Dry Running for a limited peri	iod and in particular conditions.			
	Low noise level & Low vibration.	·			
Pump Series	VDC Series:				
Maximum design pressure:	50 barg [730 psig]				
Flow rates:	up to 600 m3/h [2650 GPM]				
Viscosity of the pumped fluid:	up to 35.000 cSt				
Pipe Nominal Size DN:	from 50 to 400 – from 2" to 16"				
Rotation speed:	from 200 up to 2200 rpm				
Temperature range:	-46 / +350 °C [-51 / +662 °F] - ON REQUES T	Г-60°С			
Pulsations:	Minimized (almost zero)				
Bearing types:	Bearings and Gears wetted by Pumped Flu	id			
Bearing types:	External Bearings and Gears in oil bath				
Standard Materials:	Casing / Liner	Screws	Shafts		
	Cast Iron, Ductile Cast Iron	Ductile Cast Iron	High Strenght Low Alloy Steel		
	Carbon Steel (Cast or Fabricated)	High Strenght Low Alloy Steel	Stainless Steel AISI 420		
	Low Temperature Carbon Steel (Cast or	Stainless Steel AISI 420	Stainless Steel 17-4 PH		
	Fabricated)				
	12% Cr Stainless Steel	Stainless Steel AISI S316/S316L	Stainless Steel XM-19		
	Stainless Steel AISI S316/S316L (Cast or Fabricated)	Stainless Steel 17-4 PH or AISI 431	Duplex & Super Duplex St. Steel		
	Bronze, Nickel Aluminium Bronze	Duplex & Super Duplex St. Steel	Monel, Inconel® , Hastelloy		
	Duplex & Super Duplex St. Steel	Monel, Inconel® , Hastelloy	HVOF Spray Coating /Tungsten Carbide		
	president of officer		Coating		
	Inconel Weld Overlay (cladding)	HVOF Spray Coating /Tungsten Carbide Coating	Chromium Plating		
	Monel, Inconel® , Hastelloy	CRA Weld Overlaid	CRA Weld Overlaid		
	Ni-Resist	Nitriding	Nitriding		
Customized materials:	Other Alloys and Material Combinations ar	re available on request			
	NORSOK Compliant Materials are available	e on request			
Main Application Fields:	VDC Series				
	OIL & GAS UPSTREAM / MIDSTREAM / DOV	VNSTREAM: Tank Storages, Gathering Station	s		
	PETROCHEMICAL: Refinery, Petrochemical	Complex			
	MARINE & SHIPBUILDING: Tankers, Barges	, FPSOs			

E-mail: ptlugata@gmail.com



MP **Series**



⁶ HP: +62 8151 420 7600 (WA); +6281280288677 (WA) E-mail: jonlin@cbn.net.id; Jonlin.Napitu@gmail.com

PUMP TYPE	MULTIPHASE TWIN SCREW PUMPS					
Pump Series MAX GVF (Gas Void Fraction)	MP Series: up to 60% GVF					
Installation Options:	Horizontal	Horizontal				
Executions:	Standard & API 676 - External Timing Gears and Bearings					
Optimized for Applications in:	Oil&Gas					
Suitable to Fluid having the following properties:	Abrasive and not Abrasive					
	Corrosive (Alkaline / Acid / Aggressive) and	I not Corrosive				
	Low / Medium / High Viscosities					
	Not Lubricating or Lubricating					
	Up to 60% of Gas Void Fraction					
	Slightly Dirty (small sand particles) Special Hardening available (Tungsten Car	bide Coating)				
Advantages of the Operating Principle:	Capability of handling a Wide Range of vi = one pump for many types of fluids and					
	High Suction Lift Capability – the pump NP	SH being very low - down to 1,5 meters.				
	Self Priming without any auxiliary devices.					
		s to its smooth axial and low-pulsation move				
	sensitive to shear stresses or turbulences,	uniform, allowing to handle fluids that are ve thanks to the low Internal velocities given by				
	High Rotating Speeds are possible thanks	to the low inertia of the screws.				
	Screws are contact-less so wear-out is min	imized and Pump Life is extended.				
	Flow rate is constant even when pressure	changes.				
	Capable of Pumping Gas mixed with Liquid	d.				
	Capability of Dry Running for a limited per	iod and in particular conditions.				
	Low noise level & Low vibration.					
Pump Series	MP Series:					
Maximum design pressure:	149 barg [2170 psig]					
	max ANSI 900 rating					
Flow rates (liquid equivalent):	up to 3500 m3/h [15400 psig]					
Viscosity of the pumped fluid:	up to 5.000 cSt	up to 5.000 cSt				
Pipe Nominal Size DN:	from 50 to 750 [from 2" up to 30"]					
Rotation speed:	from 200 up to 2200 rpm	from 200 up to 2200 rpm				
Temperature range:	-46 / +350 °C [-51 / +662 °F] - ON REQUES	-46 / +350 °C [-51 / +662 °F] - ON REQUEST -60°C				
Pulsations:	Minimized (almost zero)					
Bearing types:	External Bearings and Gears in oil bath					
Liquid Recirculation Options:	- No Recirculation - Internal Liquid Recirculation Valve					
Standard Materials:	Casing / Liner	Screws	Shafts			
Standard Materials.	Carbon Steel (Cast or Fabricated)	Ductile Cast Iron	High Strenght Low Alloy Steel			
	Low Temperature Carbon Steel (Cast or	High Strenght Low Alloy Steel	Stainless Steel AISI 420			
	Fabricated)	riigh strenghe 20W/moy steel	Starriess Sectivist 420			
	12% Cr Stainless Steel	Stainless Steel AISI 420	Stainless Steel 17-4 PH			
	Stainless Steel AISI S316/S316L (Cast or Fabricated)	Stainless Steel AISI S316/S316L	Stainless Steel XM-19			
	Stainless Steel AISI S316/S316L (Cast or Fabricated)	Stainless Steel 17-4 PH or AISI 431	Duplex & Super Duplex St. Steel			
	Duplex & Super Duplex St. Steel	Duplex & Super Duplex St. Steel	Monel, Inconel® , Hastelloy			
	Inconel Weld Overlay (cladding)	Monel, Inconel® , Hastelloy	HVOF Spray Coating /Tungsten Carbide Coating			
	Monel, Inconel® , Hastelloy	HVOF Spray Coating /Tungsten Carbide Coating	Chromium Plating			
	Ni-Resist	CRA Weld Overlaid	CRA Weld Overlaid			
		Nitriding	Nitriding			
Customized materials:	Other Alloys and Material Combinations are available on request					
	NORSOK Compliant Materials are available on request					
Main Application Fields:	MP SERIES					
	OIL & GAS UPSTREAM / MIDSTREAM: FPS	Os, Offshore Platforms, Oil Fields, Oil Pipeli	nes, Gathering Stations			

E-mail: ptlugata@gmail.com



M Series



M & D Hollow Rotary Disk Pump **Series**



HP: +62 8151 420 7600 (WA); +6281280288677 (WA) E-mail: jonlin@cbn.net.id; Jonlin.Napitu@gmail.com

PUMP TYPE	HOLLOW DISK PUMPS					
Executions:	Standard & API 676					
Advantages:	Self Priming without any auxiliary devices - just fill out the cavity with liquid before start-up					
	Low operating speeds - capable of handling very viscous and fluids shear-sensitive - less wear and higher reliability					
	Reverse flow by operating in reverse rotation while keeping constant capacity					
	Elasticity of the disk, with self-recover of the worn out parts and of the thermal expansions, allowing the passage of solid par-					
	ticles in the fluid					
Pump Series	M Series:	M Series: D Series:				
Maximum differential pressure:	7 bar (option 9 bar)		7 bar (option 9 bar)			
Flow rates:	from 0,3 to 100 m3/h [from 1.3 to 440 GPM	1	from 20 to 210 m3/h [fro	rom 88 to 925 GPM1		
Viscosity of the pumped fluid:	up to 200.000 cSt (from medium to very hig		up to 200.000 cSt (from m			
Pipe Nominal Size DN:	from 25 to 150	·· <i>y</i>	from 100 to 200			
Rotation speed:	up to 500 rpm		up to 400 rpm			
Temperature range:	-20 / +280 °C [-4 / 536 °F]		-20 / +280 °C [-4 / 536 °F]			
Handling Solid Particles & Dirty Fluids:	Yes		Yes			
Handling Aggressive Fluids:	Yes		Yes			
Pulsations:	Yes		Very low			
Dosing capability:	Good		Good			
Flanged connections:	Available (UNI PN10 - DIN PN16 & ANSI 150))	Available (UNI PN10 - DIN	PN16 & ANSI 150)		
Standard Materials:	The Hollow Rotary Disk Pump can be suppli	ed with the following cor	nbined materials:			
	Casing and Cover	Impeller Disk		Shaft		
	Cast Iron G25	Carbon Steel C40		Carbon Steel C40		
	Cast Iron, Nickel Plated	Stainless Steel AISI 316		Stainless Steel AISI 316		
	Cast Iron, Chrome plated	Nickel Plated Carbon S	teel C40	Nitrided Carbon Steel C40		
	Stainless Steel AISI 316	Chrome plated Carbon	Steel C40	Duplex Stainless Steel		
	Bronze B10	Duplex Stainless Steel	Hardened			
Special Materials:	Duplex Stainless Steel	Super Duplex		Super Duplex		
	Super Duplex	Hastelloy		Hastelloy		
	Inconel	Titanium		Titanium		
	Titanium	Monel	Monel			
	Nickel-Aluminium Bronze					
	Alloy 20					
	Hastelloy					
Complete Units:	We supply the complete unit: Pump, Reduction Gear or Variable Speed Drive, Motor, Baseplate Please see our website www.3pprinz.com for further information about our wide range of customization, options and acces-					
On Request	sories	or turther information ab	out our wide range of custor	nization, options and acces-		
Certifications & Executions	Pump		Electrical group	Other Motors		
	CE Standard		CE Standard	Diesel Engine on request		
	ATEX on request		ATEX on request	Hydraulic Motor on request		
	API 676 on request		UL / NEMA on request			
	CE 1935 / 2004 (food contact) on request					
APPLICATION FIELDS		l	l			
Oil & Gas	Hydrocarbons (light and heavy)	All types of Oils	Bitumen and Tar	Crude Oil (also Sour)		
	Chemical Products	Muds				
Petrochemical Industry:	Light and Heavy Hydrocarbons	Lubricating Oil	Bitumen and Tar	Diesel		
	Petrochemical Products	Gasoline	Fuel Oil	All types of Oils		
				7,555		
	Fluids from the Refinery Process	Phenol	Crude Oil	Benzene and Toluene		
Marine & Shipbuilding:	Transfer of Tanker Fluids	Fuel Oil	Diesel	Bilge Water		
marine & Simpounding.	Transier of Tariker Fluids	, del oil	Diesei	Disc Water		
	Cargo Load and Offload	Mud, Sludge, Ooze	Seawater	Recycled Oil		
	Carrier Fluids at 1994	Wests Cil	Courses	Paridura		
	Service Fluids and Water	Waste Oil	Sewage	Residues		

E-mail: ptlugata@gmail.com



CN Rotary Vane Pump **Series**



²⁰ HP : + 62 8151 420 7600 (WA); +6281280288677 (WA)

Executions:						
	Standard & API 676					
Advantages:	Self Priming					
	High Suction Lift					
	Self-adjustment of Wear Out					
	Capable of Pumping Low Viscosity Fluids at Outstanding Performances					
	Lower Power Consumption and Higher Capacity compared to other Positive Displacement Pumps					
	Interchangeable ports dimensions with other Major Rotary Vane Suppliers					
	Accurate Selection of Vanes Materials for allowing very low friction and minimal wear-out					
	Easy and Fast Maintenance (no need to disassembly from main line)					
	-		aft) are available for Load	ding and Unloading		
	Suitable to a wide rang					
	PTO driven versions a	,				
CN Series Pump Model	CN30	CN40	CN50	CN60	CN70	
,						
Suction Flange Ø	1.1/2" Threaded (Side)	2" (Side)	2,5" (Side)	3" (Side)	4" (Side)	
Discharge Flange Ø	1.1/2" Threaded (Side)	2" (Top)	2,5" (Top)	3" (Top)	4" (Top)	
Max Rotation speed:	1450 rpm (flow = 15 m3/h)	980 rpm	980 rpm	650 rpm	500 rpm	
Flow rate (@ 980 rpm) – 1 cSt	10,5 m3/h	26 m3/h	44 m3/h	-	-	
Flow rate (@ 780 rpm) – 1 cSt	8,5 m3/h	20 m3/h	35 m3/h	-	-	
Flow rate (@ 640 rpm) – 22 cSt	6,9 m3/h	16 m3/h	28 m3/h	62 m3/h	115 m3/h @500 rpm	
Flow rate (@ 400 rpm) – up to 1100 cSt	4,3 m3/h	10 m3/h	18 m3/h	40 m3/h	92 m3/h	
Differential pressures [bar]	10 bar	7 bar	7 bar	7 bar	7 bar	
Max. pressures [barg]	15 barg	10 barg	10 barg	10 barg	10 barg	
Temperature range:	-20 / +150 °C [-4 /		-20 / +150 °C [-4 / 302 °F]	-20 / +150 °C [-4 / 302 °F]	-20 / +150 °C [-4 / 302 °F]	
Viscosity of the pumped fluid:	From 0,3 cSt up to 500	cSt; special executions	for viscosities higher the	an 500 cSt are available o		
Handling Solid Particles & Dirty Fluids:	Yes (small solids and li				·	
Handling Aggressive Fluids:	Yes					
Pulsations:	Very low					
Flanged Adapters:	Available on request: \	JNI PN10 - DIN PN16 & A	ANSI 150			
Standard Materials:	Casing and Cover		Vanes	Rotor	Shaft	
	Ductile Cast Iron GJS-4	00	Polimeric Fiber	Ductile Cast Iron	Carbon Steel AlSI4140	
	Cast Steel (ASTM A216	WCB)	Bronze	Carbon Steel	Stainless Steel AISI 316	
	Stainless Steel AISI 316	5	PEEK	Stainless Steel AISI 316	Stainless Steel 17-4PH	
Special Materials:	Duplex Stainless Stee	I	Self Lubricating Alloys	Duplex Stainless Steel		
	Super Duplex St. Stee			Super Duplex St. Steel		
	Inconel			Inconel	Inconel	
	Titanium			Titanium	Titanium	
	Nickel-Aluminium Bro	nze		Monel	Monel	
	Alloy 20			Hastelloy	Hastelloy	
	Hastelloy					
Complete Units:	We supply the comple	te unit: Pump, Reduction	n Gear or Variable Speed	l Drive, Motor, Baseplate		
Certifications & Executions	Pump		Electrical group	Other Motors		
	CE Standard		CE Standard	Diesel Engine on request		
	ATEX on request ATEX on request		ATEX on request	Hydraulic Motor on request		
	API 676 on request		UL / NEMA on request	PTO Power Take-Off		
APPLICATION FIELDS						
Oil & Gas	Light Hydrocarbons	Medium Hydrocarbons	Oils	Light Crude Oil	Solvents	
Marine & Shipbuilding:	Transfer of Tanker Fluids Cargo Load and Offload	Light Fuel Oil Seawater	Lube Oil Naptha	Diesel	Recycled Oil	

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www.3pprinz.com sales@3pprinz.com

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