

Dimensionamento pompa / Pump sizing N°		Offer n°OFV21-00244_REV.01		
Report N°	Cliente / Customer		SIAD M.I.	
Parte fredda / Cold end	HP 25/20	Ind. LOX	25	[mm]
Manovellismo / Drive	TW 3		20	[mm]
Numero skid / Skid number	TBD			---
Portata liquido (singola pompa) / Liquid flow (simplex pump)		1,1(25Hz) ÷ 2,2(50Hz)		[l/min]
Portata gas / Gas flow	LIN	(ρ = 0,809 kg/l)	88	[Nm³/h] 0°C - 1,013 bar
	LAR	(ρ = 1,393 kg/l)	105	
	Ind. LOX	(ρ = 1,141 kg/l)	54(25Hz) ÷ 107(50Hz)	
	LNG	(ρ = 0,422 kg/l)	79	
	LCO <sub>2</sub>	(ρ = 1,050 kg/l)	141	[kg/h]
	LN <sub>2</sub> O	(ρ = 1,223 kg/l)	165	[kg/h]
Pressione esercizio / Working pressure		172		[bar]
Rapporto di trasmissione / Speed ratio		3,60		---
Pulegge / Pulleys		450	125	[mm]
Tipo di pulegge / Type of pulleys		SPA		---
Numero di cinghie e sviluppo / Belts number and belt development		4	1957	--- / [mm]
Numero di giri pompa / Pump speed		135(25Hz) ÷ 269(50Hz)		[rpm]
Motore elettrico / Electric motor	Potenza Installata / Power Installed		3 (2,6 with VFD control)	[kW]
			6	Poli/Poles
			968	[rpm]
			132SMA	Grandezza/Size
			400	Volt
			50	Hz
			---	Part number
	Note		Electric motor: Single speed, 3kW (2,6 with VFD control) 6P 400V 50Hz 968rpm Size 132SMA. Suitable for VFD control 25-50Hz without forced ventilation (IC411) Transmission with pulleys/belts: - n°4 belts SPA L=1957 mm - n°1 pulley SPA Ø450 with taper lock bushing adapter - n°1 pulley SPA Ø125 with taper lock bushing adapter  Installation at 2000m a.s.l.	
	Taratura sistemi di sicurezza / Safety sets	S.V. LP	16	[bar]
		PSHH	200	[bar]
S.V. HP		220	[bar]	
Intervallo temperatura ambiente / Range ambient temperature		-20/+40		[°C]

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Parte fredda / Cold end	HP 25/20	LAR	25	[mm]	
Manovellismo / Drive	TW 3		20	[mm]	
Numero skid / Skid number	TBD			---	
Portata liquido (singola pompa) / Liquid flow (simplex pump)		1,1(25Hz) ÷ 2,2(50Hz)		[l/min]	
Portata gas / Gas flow	LIN	(ρ = 0,809 kg/l)	88	[Nm³/h] 0°C - 1,013 bar	
	LAR	(ρ = 1,393 kg/l)	53(25Hz) ÷ 105(50Hz)		
	LOX	(ρ = 1,141 kg/l)	107		
	LNG	(ρ = 0,422 kg/l)	79		
	LCO <sub>2</sub>	(ρ = 1,050 kg/l)	141	[kg/h]	
	LN <sub>2</sub> O	(ρ = 1,223 kg/l)	165	[kg/h]	
Pressione esercizio / Working pressure		172		[bar]	
Rapporto di trasmissione / Speed ratio		3,60		---	
Pulegge / Pulleys		450	125	[mm]	
Tipo di pulegge / Type of pulleys		SPA			
Numero di cinghie e sviluppo / Belts number and belt development		4	1957	--- / [mm]	
Numero di giri pompa / Pump speed		135(25Hz) ÷ 269(50Hz)		[rpm]	
Motore elettrico / Electric motor	Potenza Installata / Power Installed		3 (2,6 with VFD control)	[kW]	
			6	Poli/Poles	
			968	[rpm]	
			132SMA	Grandezza/Size	
			400	Volt	
			50	Hz	
			---	Part number	
	Note		Electric motor: Single speed, 3kW (2,6 with VFD control) 6P 400V 50Hz 968rpm Size 132SMA. Suitable for VFD control 25-50Hz without forced ventilation (IC411) Transmission with pulleys/belts: - n°4 belts SPA L=1957 mm - n°1 pulley SPA Ø450 with taper lock bushing adapter - n°1 pulley SPA Ø125 with taper lock bushing adapter  Installation at 2000m a.s.l.		
	Taratura sistemi di sicurezza / Safety sets	S.V. LP	16		[bar]
		PSHH	200		[bar]
S.V. HP		220		[bar]	
Intervallo temperatura ambiente / Range ambient temperature		-20/+40		[°C]	

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Parte fredda / Cold end	HP 25/20	LIN	25	[mm]	
Manovellismo / Drive	TW 3		20	[mm]	
Numero skid / Skid number	TBD			---	
Portata liquido (singola pompa) / Liquid flow (simplex pump)	1,4(25Hz) ÷ 2,7(50Hz)			[l/min]	
Portata gas / Gas flow	LIN	(ρ = 0,809 kg/l)	53(25Hz) ÷ 105(50Hz)	[Nm³/h] 0°C - 1,013 bar	
	LAR	(ρ = 1,393 kg/l)	126		
	LOX	(ρ = 1,141 kg/l)	128		
	LNG	(ρ = 0,422 kg/l)	95	[kg/h]	
	LCO <sub>2</sub>	(ρ = 1,050 kg/l)	170	[kg/h]	
LN <sub>2</sub> O	(ρ = 1,223 kg/l)	197	[kg/h]		
Pressione esercizio / Working pressure	172			[bar]	
Rapporto di trasmissione / Speed ratio	3,00			---	
Pulegge / Pulleys	450	150	[mm]		
Tipo di pulegge / Type of pulleys	SPA			---	
Numero di cinghie e sviluppo / Belts number and belt development	4	1957	--- / [mm]		
Numero di giri pompa / Pump speed	162(25Hz) ÷ 323(50Hz)			[rpm]	
Motore elettrico / Electric motor	Potenza Installata / Power Installed		3 (2,6 with VFD control)	[kW]	
			6	Poli/Poles	
			968	[rpm]	
			132SMA	Grandezza/Size	
			400	Volt	
			50	Hz	
			---	Part number	
	Note		Electric motor: Single speed, 3kW (2,6 with VFD control) 6P 400V 50Hz 968rpm Size 132SMA. Suitable for VFD control 25-50Hz without forced ventilation (IC411) Transmission with pulleys/belts: - n°4 belts SPA L=1957 mm - n°1 pulley SPA Ø450 with taper lock bushing adapter - n°1 pulley SPA Ø150 with taper lock bushing adapter Installation at 2000m a.s.l.		
	Taratura sistemi di sicurezza / Safety sets	S.V. LP	16		[bar]
		PSHH	200		[bar]
S.V. HP		220		[bar]	
Intervallo temperatura ambiente / Range ambient temperature		-20/+40		[°C]	

Dimensionamento pompa / Pump sizing N°		Offer n°OFV23-00104		
Report N°		Cliente / Customer	VPS ITALY	
Parte fredda / Cold end	HP 30/32	LAR	30 [mm]	
Manovellismo / Drive		TW 3	32 [mm]	
Numero skid / Skid number		TBD	---	
Portata liquido (singola pompa) / Liquid flow (simplex pump)			3,1(25Hz) ÷ 6,1(50Hz) [l/min]	
Portata gas / Gas flow	LIN	(ρ = 0,809 kg/l)	240 [Nm³/h]	
	LAR	(ρ = 1,393 kg/l)	144(25Hz) ÷ 287(50Hz) 0°C - 1,013 bar	
	LOX	(ρ = 1,141 kg/l)	291 [kg/h]	
	LNG	(ρ = 0,422 kg/l)	217 [kg/h]	
	LCO <sub>2</sub>	(ρ = 1,050 kg/l)	386 [kg/h]	
	LN <sub>2</sub> O	(ρ = 1,223 kg/l)	450 [kg/h]	
Pressione esercizio / Working pressure			23 [bar]	
Rapporto di trasmissione / Speed ratio			3,00 ---	
Pulegge / Pulleys		450 150	[mm]	
Tipo di pulegge / Type of pulleys		SPA	---	
Numero di cinghie e sviluppo / Belts number and belt development		4 1957	--- / [mm]	
Numero di giri pompa / Pump speed			160(25Hz) ÷ 319(50Hz) [rpm]	
Motore elettrico / Electric motor	Potenza Installata / Power Installed		2,2 (1,9 with VFD control) [kW]	
			6 Poli/Poles	
			957 [rpm]	
			112MLA Grandezza/Size	
			400 Volt	
			50 Hz	
			--- Part number	
	Note		Electric motor: Single speed, 2,2kW (1,9 with VFD control) 6P 400V 50Hz 957rpm Size 112MLA. Suitable for VFD control 25-50Hz without forced ventilation (IC411) Transmission with pulleys/belts: - n°4 belts SPA L=1957 mm - n°1 pulley SPA Ø450 with taper lock bushing adapter - n°1 pulley SPA Ø150 with taper lock bushing adapter Installation at 2000m a.s.l.	
	Taratura sistemi di sicurezza / Safety sets	S.V. LP		20 [bar]
		PSHH		30 [bar]
S.V. HP			40 [bar]	
Intervallo temperatura ambiente / Range ambient temperature			-20/+40 [°C]	