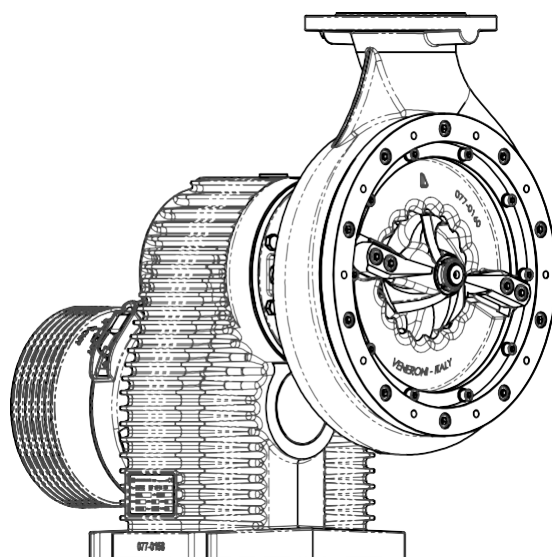


RKT 100-H1

POMPA DI SUPERFICIE PER TRATTORE CON MOLTIPLICATORE
SURFACE PUMP FOR TRACTOR WITH OVERGEAR



DABAL d.
OPREMA o.



VENERONI
ADVANCED FLUID MOTION

Uvod Introduction

Pumpa RKT je osmišljena i dizajnirana kako bi prevladala ograničenja proizvoda koji se trenutno koriste u sustavima distribucije stočarskih otpadnih voda.

Novi hidraulički sustav jamči visoke performanse zahvaljujući najboljoj hidrauličkoj učinkovitosti u svojoj kategoriji i inovativnom sustavu mljevenja dizajniranim za olakšavanje punjenja pumpe. Zahvaljujući svojoj čvrstoj konstrukciji i prisutnosti višekanalnih radnih kola s velikim slobodnim prolazima u kombinaciji s usisnim sustavom mljevenja, pumpa RKT omogućuje izvrsno upravljanje otpadnim vodama stoke i ostacima industrijske prerade. Inovativni sustav mljevenja s uklonjivim induktorskim radnim kolom povećava performanse stroja, poboljšava rezanje procesiranih krutih tvari i optimizira troškove održavanja.

Komponente za mljevenje izrađene su od materijala posebno dizajniranih za rezanje; u slučaju kvara ili habanja, njihova zamjena štiti najskuplje dijelove stroja.

Multiplikator s paralelnim osima i spiralnim zupčanicima omogućuje prijenos kretanja uz minimiziranje gubitka energije. Njegova rebrasta vanjska površina maksimizira odvođenje topline, a istovremeno štiti komponente podložne habanju.

Korištenje vrhunskih ležajeva u kombinaciji s njihovim predimenzioniranjem maksimizira krutost rotora uz održavanje kompaktnih dimenzija.

Posebna kompaktnost stoga omogućuje da se duljina konzolnog vratila svede na minimum, a time i opterećenje ležajeva, što povećava pouzdanost i trajnost.

Mehanička brtva s volfram-karbidnim površinama optimalna je za otpornost na abraziju.

Sustav podmazivanja mehaničke brtve omogućuje stroju rad na suho tijekom pokretanja ili u slučaju pogrešnog punjenja.

U slučaju kvara ili oštećenja mehaničke brtve, multiplikator se neće oštetiti zahvaljujući prisutnosti šupljine u spojnoj laterni koja omogućuje ispuštanje procesne tekućine.

Za primjene izvan specifikacija navedenih u ovom katalogu, obratite se proizvođaču, Veneroni s.r.l.

RKT pump has been conceived and designed to overcome the limits of the products currently used in livestock waste distribution systems.

The new pump design guarantees high performance thanks to the best hydraulic efficiency in its category and to the innovative chopping system designed to facilitate pump priming.

Thanks to the solid construction, the presence of multi-channel impellers with large free passages combined with a chopping system in suction, RKT pump allows excellent management of livestock waste and processing residues from industrial plants. The innovative chopping system with removable inducer impeller allows to increase the performance of the machine, to improve the cutting of process solids and to optimize maintenance costs. The shredding components are made of specific materials for cutting; in the event of breakdown or wear, their replacement allows the most expensive parts of the machine to be protected. The parallel axis overgear with helical gear wheels allows the motion to be transmitted, minimizing energy loss. Its finned surface maximizes thermal dissipation while preserving wear components.

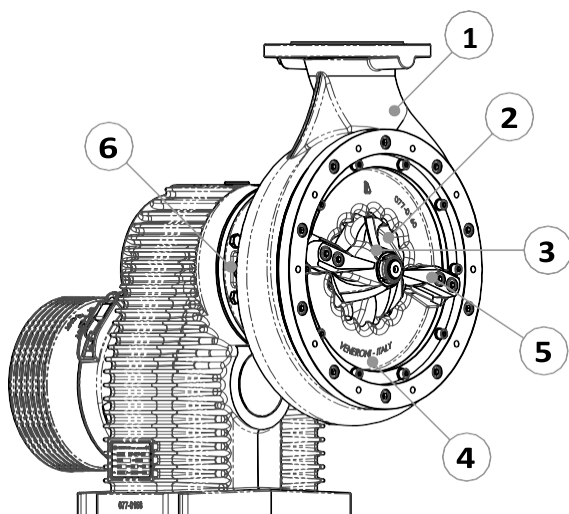
The use of top of the range bearings combined with their oversizing allows to maximize the rigidity of the rotor part while maintaining limited overall dimensions.

The particular compactness allows the reduction of the length of the projecting shaft and, consequently, the load on the bearings for the benefit of reliability and duration.

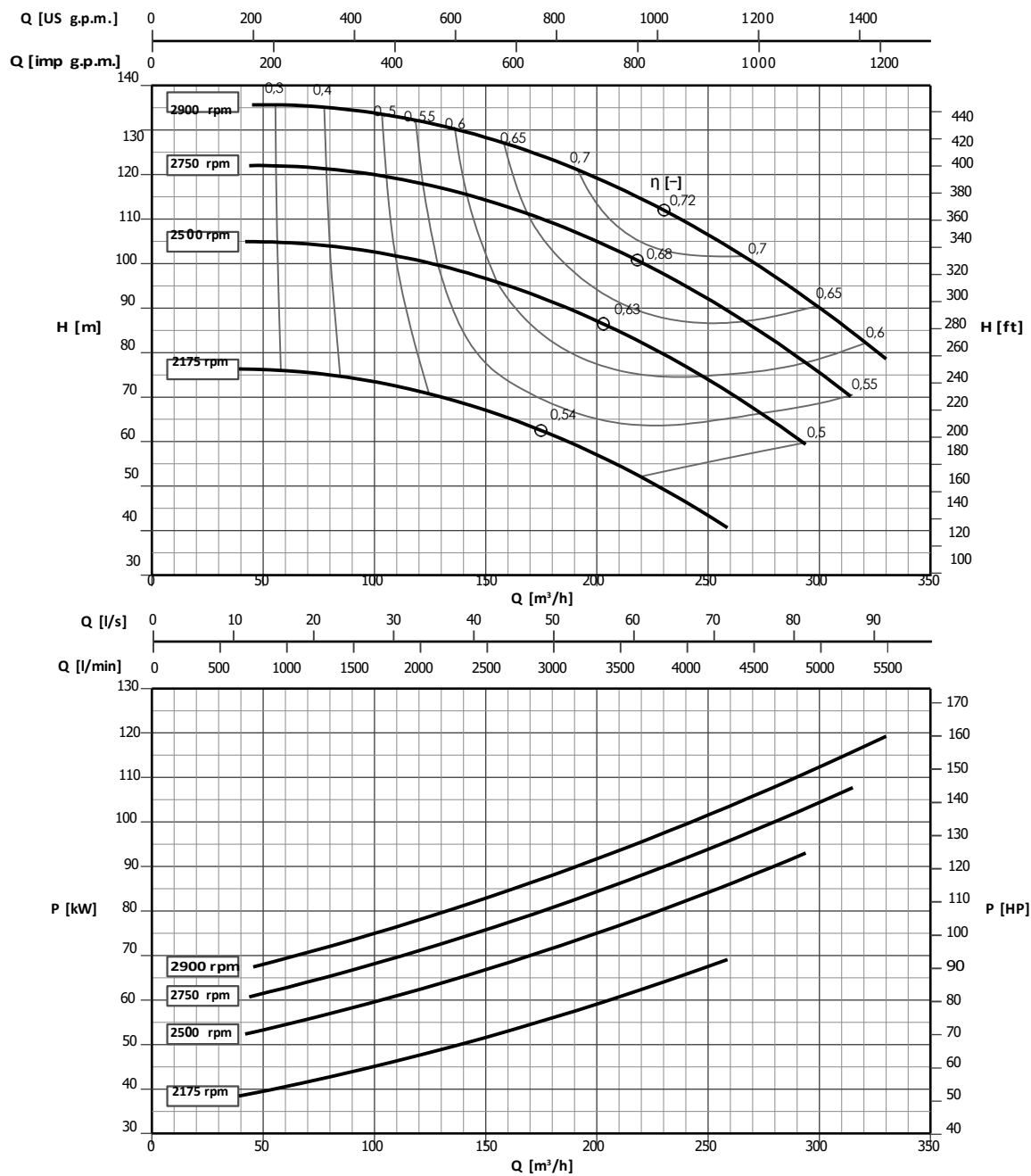
The mechanical seal with tungsten carbide faces is optimal for resisting abrasive conditions.

The lubrication system of the mechanical seal allows the machine to run dry during start up or in the event of depriming. In the event of mechanical seal failure, the overgear would not be damaged thanks to the presence of a gap in the coupling stool which allows the evacuation of the process fluid.

For uses not included in the specifications provided in this catalogue, please contact the manufacturer Veneroni s.r.l.



Pos.	KOMPONENTA COMPONENT	MATERIJAL MATERIAL
1	Tijelo pumpe Pump body	Nodularno lijevano željezo Spheroidal cast iron
2	Radno kolo sa 6 oštrica 6 blades impeller	Nodularno lijevano željezo Spheroidal cast iron
3	Radno kolo s 3 oštrice 3 blades impeller	Nodularno lijevano željezo Spheroidal cast iron
4	Poklopac s podložnom pločicom Cover with shim disc	Nodularno lijevano željezo Spheroidal cast iron
5	Fiksna oštrica Fixed blade	Posebni čelik Special steel
6	Mehanička brtva Mechanical seal	Volfram karbid Tungsten carbide



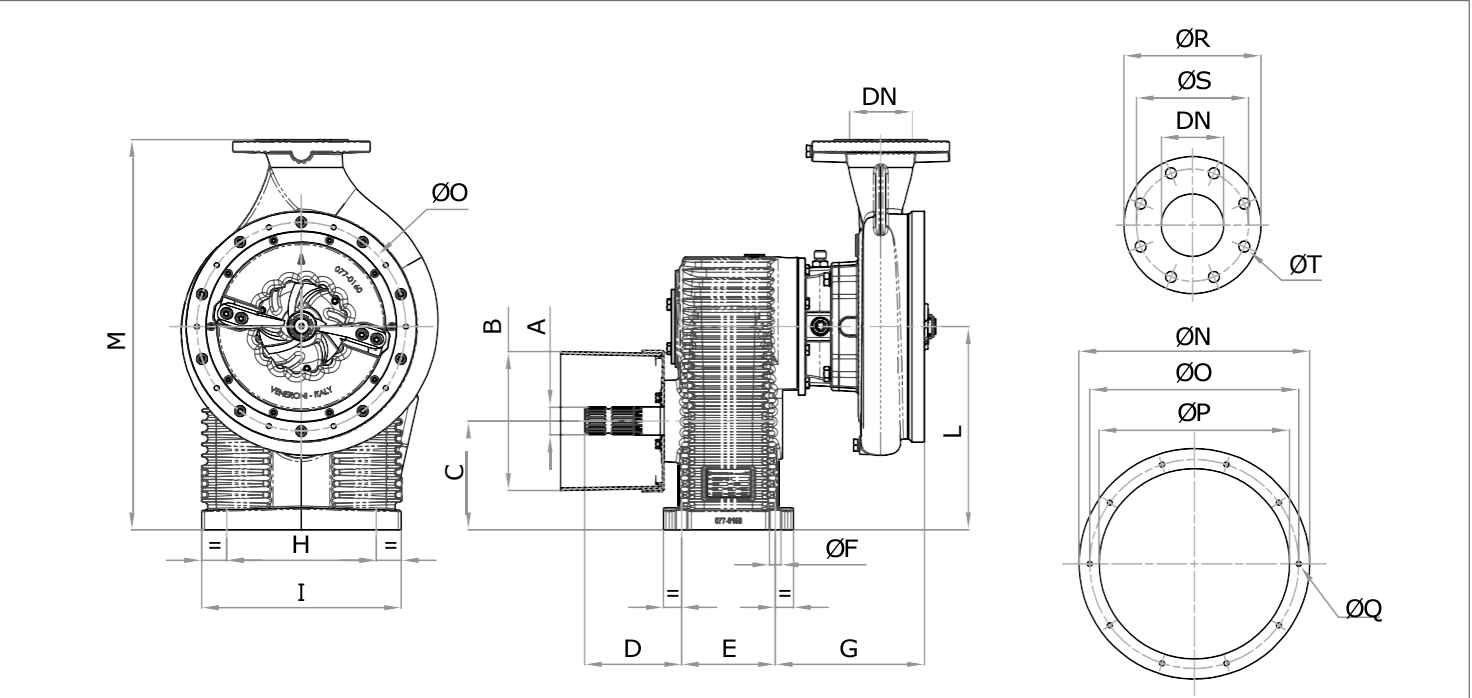
Model Type	Multiplikator brzine Overgear	o/min PTO rpm	Pumpa Pump	l/s	8	17	25	33	42	50	58	67	75	83	92	Snaga traktora Tractor Power [kW]
				l/min	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	
				m³/h	30	60	90	120	150	180	210	240	270	300	330	
				US gpm	132	264	396	528	660	793	925	1057	1189	1321	1453	
				Imp gpm	110	220	330	440	550	660	770	880	990	1100	1210	
RKT 100-H1	1:3,41	850	2900	Hm [m]		136	135	132	128	123	117	109	100	90	79	135
				P [kW]		69	74	78	83	88	94	100	106	112	119	
		810	2750	Hm [m]	122	122	121	118	114	109	103	95	86	76		120
				P [kW]	59	63	67	71	76	81	86	92	98	104		
		730	2500	Hm [m]	105	105	103	101	97	91	85	77	68	57		105
				P [kW]	51	54	58	62	67	72	77	82	88	94		
		640	2175	Hm [m]	76	76	74	71	67	61	55	46	37			80
				P [kW]	38	41	44	48	52	56	61	66	71			

Curve per liquidi aventi densità 998 kg/m³ - Viscosità 1 mm²/s alla temperatura di 20°C - Tolleranze sulle prestazioni secondo norma UNI EN ISO 9906:2012 - Grado 2B
Curves tested on liquid density 998 kg/m³ - Viscosity 1 mm²/s at temperature 20 °C - Performance tolerances according to UNI EN ISO 9906:2012 - Grade 2B

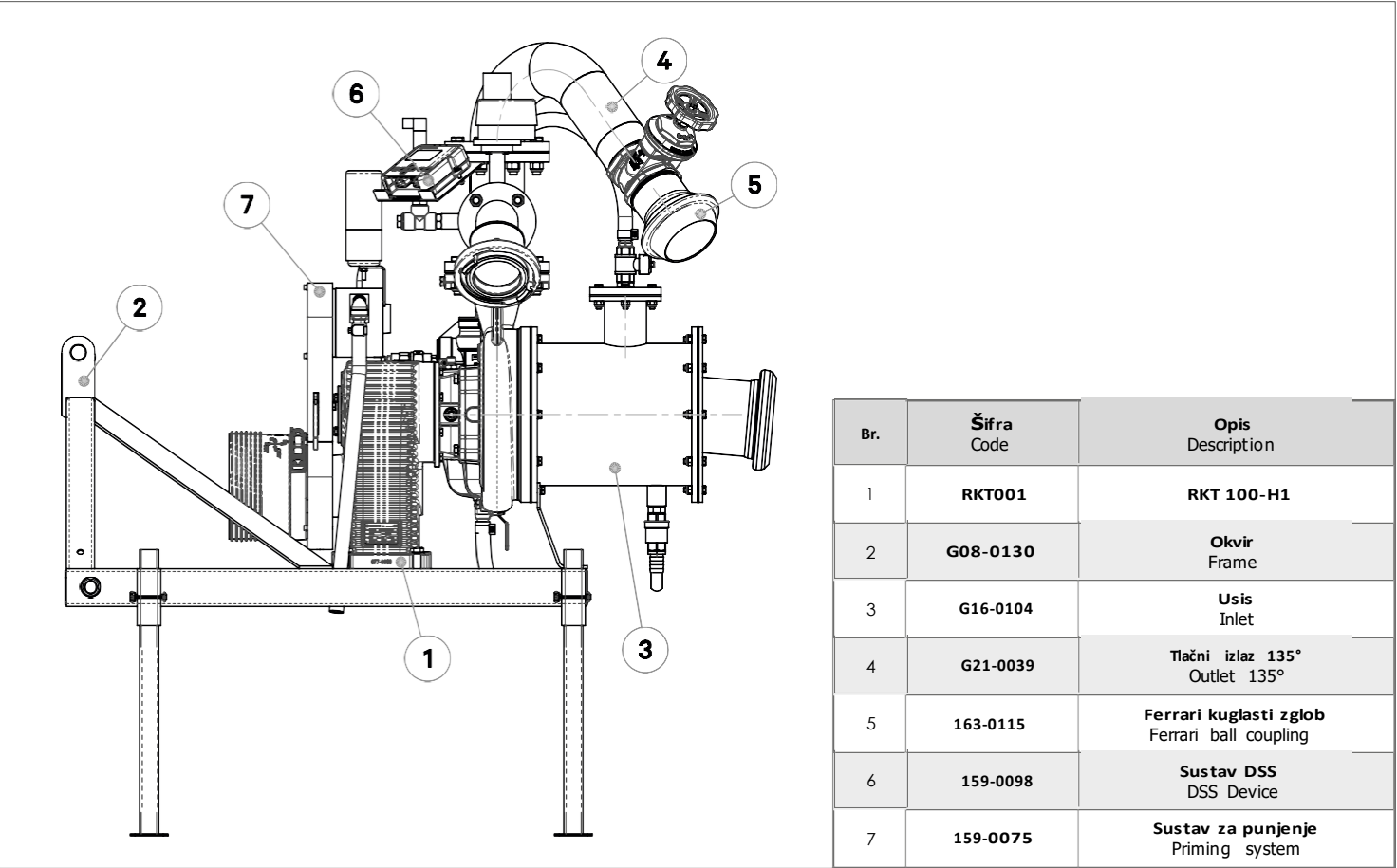
RKT 100-H1



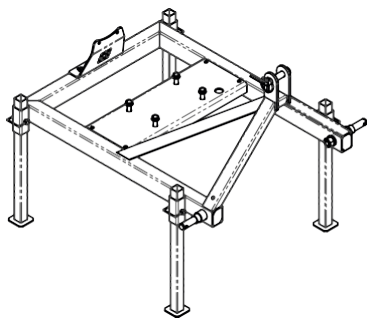
Dimenzije Dimensions



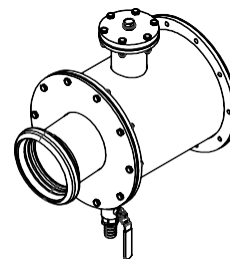
Model Type	Dimenzije Dimensions [mm]																		Težina Weight	
	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	Flangia Bride				
																DN	R	S	T	[kg]
RKT 100-H1	1"3/4 Z20	223	174	156	150	18	239	240	320	326	626	370	335	305	N.10 - Ø8.5	100	220	180	N.8 - Ø18	130



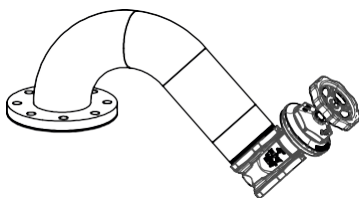
Br.	Šifra Code	Opis Description
1	RKT001	RKT 100-H1
2	G08-0130	Okvir Frame
3	G16-0104	Usis Inlet
4	G21-0039	Tlačni izlaz 135° Outlet 135°
5	163-0115	Ferrari kuglasti zglobov Ferrari ball coupling
6	159-0098	Sustav DSS DSS Device
7	159-0075	Sustav za punjenje Priming system



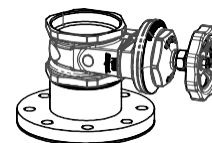
Br.	Šifra Code	Opis Description
2	G08-0130	Okvira za nosač pumpe i pričvršćivanje traktora Frame unit for pump support and tractor coupling



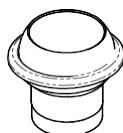
Br.	Šifra Code	Opis Description
3	G16-0104	Usisna jedinica Baur 6" s nepovratnim ventilom Inlet unit Bauer 6" with non-return valve



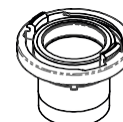
Br.	Šifra Code	Opis Description
4	G21-0039	Tlačni izlaz 135° s ručnim zasunskim ventilom 135° outlet unit with handwheel gate valve



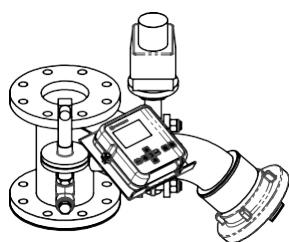
Br.	Šifra Code	Opis Description
4	G21-0040	Vertikalni tlačni izlaz s ručnim zasunskim ventilom Vertical outlet unit with handwheel gate valve



Br.	Šifra Code	Opis Description
5	163-0115	Tlačni izlaz s Ferrari muškom spojnicom 120 Outlet with Ferrari male coupling 120



Br.	Šifra Code	Opis Description
5	163-0497	Tlačni izlaz sa Storz spojnicom 133-4" Outlet with Storz coupling 133-4"



SUSTAV DSS (UREĐAJ ZA ZAŠTITU OD PRETLAKA)

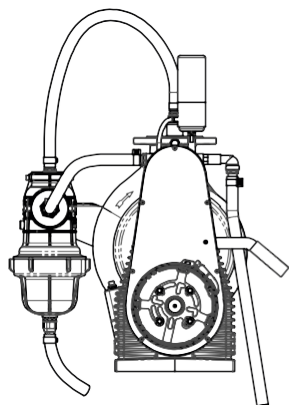
Sustav zahtijeva postavljanje sigurnosnog tlaka, iznad kojeg se otpadna voda ispušta u sabirni spremnik, čime se osigurava sigurnost cijelog sustava i sprječava bilo kakva šteta. Nakon što tlak padne ispod sigurnosnog tlaka, sustav se vraća u standardne radne uvjete zatvaranjem odvoda.

DSS DEVICE (DISCHARGE SAFETY SYSTEM)

Automatic safety system for overpressure management, complete kit with fitting, electronic control unit, pressure transmitter, motorized valve and Storz connection for discharge pipe. The system requires setting a safety pressure above which the discharge of the sewage towards the collection tank is activated, thus ensuring the safety conditions of the entire system and avoiding any damage. Once the pressure returns to be lower than the safety pressure, the system returns to standard operating conditions by closing the drain.

Br.	Šifra Code	Opis Description
6	159-0098	Sustav DSS (Uređaj za zaštitu od pretlaka) 12V DC – 2,2 Ah (min.) 3-pinski DIN ISO 9680 utikač DSS Device (Discharge Safety System) 12V dc – 2,2 Ah (min.) plug 3 poles DIN ISO 9680

Pribor Accessories



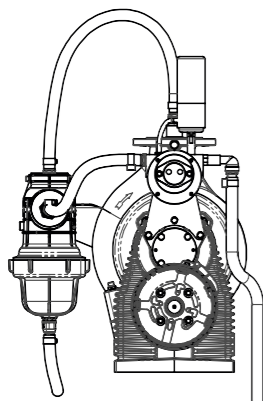
POLUAUTOMATSKI SUSTAV PUNJENJA S RUČNIM REMENSKIM POGONOM

Vakuumska pumpa, koju pokreće kardan pumpe, usisava zrak, stvarajući vakuum u usisu pumpe, omogućujući procesnoj tekućini da dođe do hidrauličke stroja. Nakon što je punjenje završeno, komora za odvajanje mulja prekida protok, čime se sprječava usisavanje tekućine u vakuumsku pumpu.

SEMI-AUTOMATIC PRIMING SYSTEM WITH MANUAL BELT DRIVE

The vacuum pump activated by the pump PTO, by suctioning the air, creates depression in the inlet of the pump, allowing the process fluid to reach the pump body. Once priming is complete, the sludge removal chamber interrupts the flow, thus preventing the liquid from being suctioned by the vacuum pump.

Br.	Šifra Code	Opis Description
7	159-0075	Poluautomatski sustav punjenja s ručnim remenskim pogonom Semi-automatic priming system with manual belt drive



Hidraulični sustav punjenja

Vakuumska pumpa, koju pokreće hidraulički motor, usisava zrak, stvarajući vakuum u usisu pumpe, omogućujući procesnoj tekućini da dođe do hidrauličke stroja. Nakon što je punjenje završeno, komora za odvajanje mulja zaustavlja protok, čime se sprječava usisavanje tekućine u vakuumsku pumpu.

HYDRAULIC PRIMING SYSTEM

The vacuum pump activated by the hydraulic motor, by suctioning the air, creates depression in the inlet of the pump, allowing the process fluid to reach the pump body. Once priming is complete, the sludge removal chamber interrupts the flow, thus preventing the liquid from being suctioned by the vacuum pump.

Br.	Šifra Code	Opis Description
7	159-0069	Hidraulični sustav punjenja Hydraulic priming system



VENERONI
ADVANCED FLUID MOTION

Le dimensioni hanno valore indicativo. Il disegno esecutivo sarà fornito su richiesta in fase d'ordine.
VENERONI SRL si riserva facoltà di apportare modifiche atte a migliorare i propri prodotti in qualsiasi momento e senza preavviso alcuno.

The dimensions have an indicative value. Executive drawing will be supplied on request upon order.
Veneroni s.r.l. reserves the right to make changes to improve its products at any time and without any notice.