

# VSI SS CAST SUBMERSIBLE PUMPS 8"-10"-12"

- Diffusers and impellers made of investment casting stainless steel
- Balanced impellers
- Spring loaded, robust design check valve with two bearing bushings and one-piece valve cone
- Valve spring in Duplex 2205
- Vesconite Hilube® top bearing bush (closed on top)
- PTFE+Graphite up-thrust bearing
- Shrink fit coupling

## OPTIONS

- Cooling shrouds (Accessories)
- SD version with second cable guard
- Different impeller diameters for 10" and 12" pump
- Different constructive metallurgies: CF8/304 (I version), CF8M/316 (N version), DUPLEX (R version)
- Cable guard type H (High)



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Municipal water works



Drainage and dewatering



General industry



Agriculture, Irrigation



Mining industry



Offshore



✓ **Corrosion resistance**

✓ **Drinking water approvals**



DM 174-2006

✓ **High efficiency**  
(up to 85 %)



**Stainless Steel Cast impellers and diffusers**

for high corrosion and abrasion resistance

Semi-axial balanced impellers



**Neck ring and bearings**

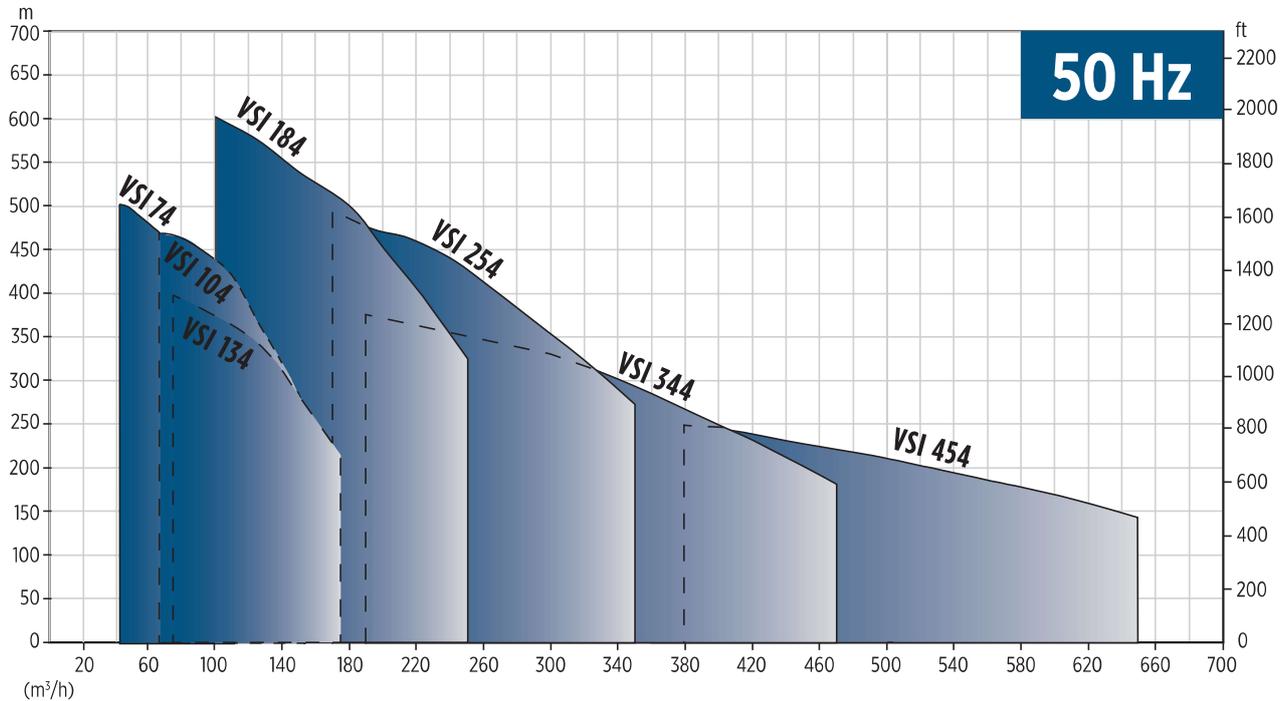
in EPDM

**Shrink fit of the coupling**

results in increased transmission torque

# VSI SS CAST SUBMERSIBLE PUMPS 8"-10"-12"

## FAMILY CURVES



## GENERAL FEATURES

Model	8"			10"		12"	
	74	104	134	184	254	344	454
Flow at best efficiency point [m <sup>3</sup> /h]:	74	114	133	180 <sup>(1)</sup>	254	334	450
Number of stages:	1-22	1-19	1-20	1-16	1-14	1-7	1-5
Type of impeller:	Semi axial						
Max Liquid temperature [°C]:	+65 <sup>(2)</sup>						
Hydraulic efficiency [%]:	up to 80,8% <sup>(1)</sup>	up to 82,1% <sup>(1)</sup>	up to 81,8% <sup>(1)</sup>	up to 83,5% <sup>(1)</sup>	up to 83,3% <sup>(1)</sup>	up to 85% <sup>(1)</sup>	up to 84% <sup>(1)</sup>
Flow range [m <sup>3</sup> /h]:	40-100	60-150	75 - 175	100 - 250 <sup>(1)</sup>	160 - 350 <sup>(1)</sup>	250 - 490 <sup>(1)</sup>	320 - 650 <sup>(1)</sup>
Max. head at minimum flow [m]:	535	454	398	601	495	362	242
Shutoff [m]:	603	518	436	665	615	433	321
Hydraulic connections (Dimensions):	Rp or NPT 5"			Rp or NPT 6" Flanged D170 w/o counterflange		Flanged D220 with counterflange	
Maximum allowable amount of sand:	100 g/m <sup>3</sup>						
Motor power range [kW]:	5,5 - 130	9,3 - 150	9,3 - 150	13 - 300	15 - 350	30 - 350	45 - 350
Trimmed impeller diameters:	-	-	-	•	•	•	•
Rotation:	counter clockwise when looking into the discharge						
Operation:	vertical or horizontal position (depends on the paired motor)						
Materials:	CF8/304 - CF8M/316 - DUPLEX						
Drinking water approvals:	   DM 174-2006						

<sup>(1)</sup> Depending on the selected model

<sup>(2)</sup> Refers to the pump. For electric pumps, please refer to the data table for the motor.

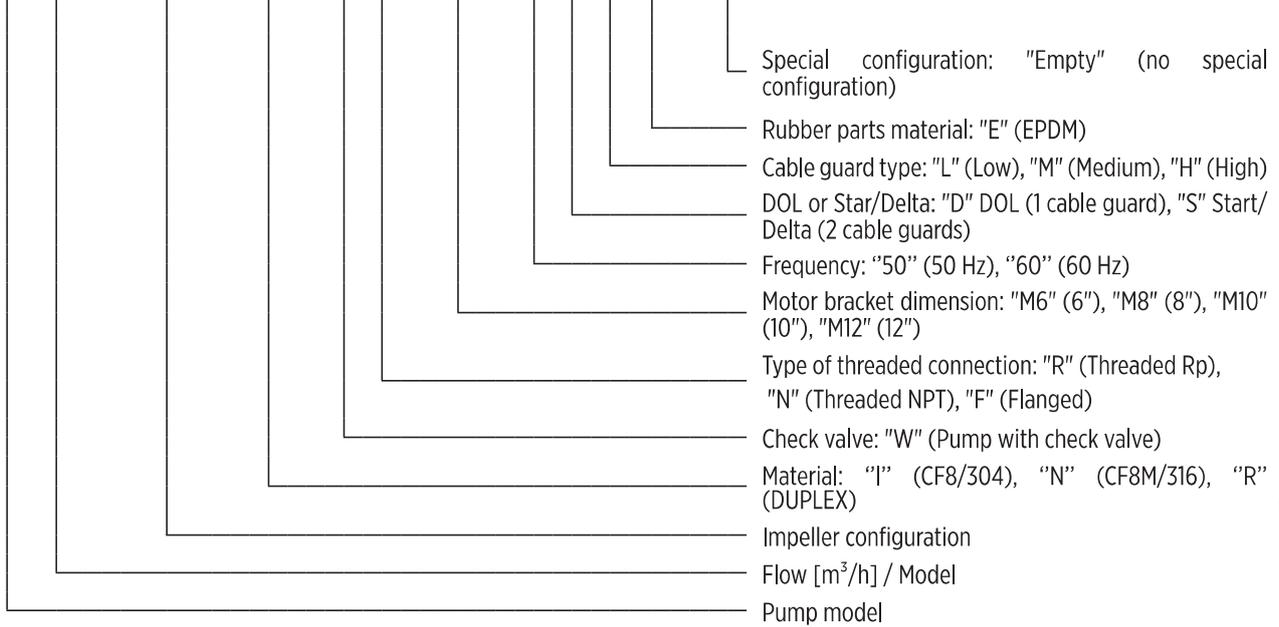
"-" = not available

• = available

# VSI SS CAST SUBMERSIBLE PUMPS 8"-10"-12"

## PUMP IDENTIFICATION CODE

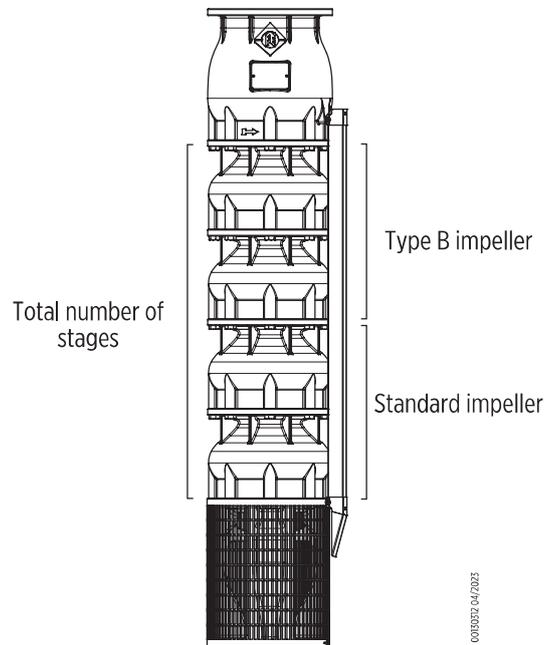
VSI 184 / 04/2B - I - W R - M8 - 50 D L E - A



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## IMPELLER CONFIGURATION

Impeller configuration	Total number of stages	Number of impellers	
		Type B impeller	Standard impeller
04/2B	4	2	2

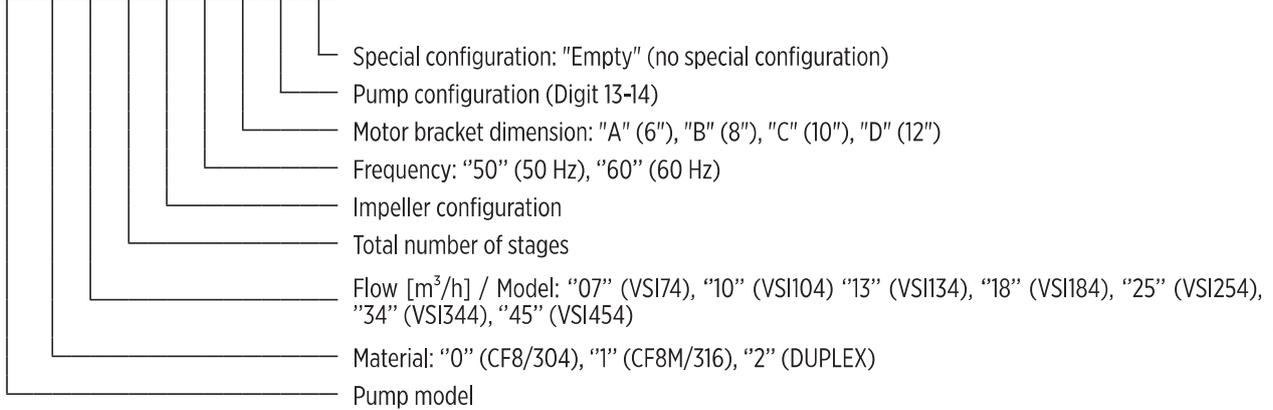


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# VSI SS CAST SUBMERSIBLE PUMPS 8"-10"-12"

## PRODUCT CODE IDENTIFICATION

97A | 0 | 18 | 04 | 07 | 5 | B | 00 | A

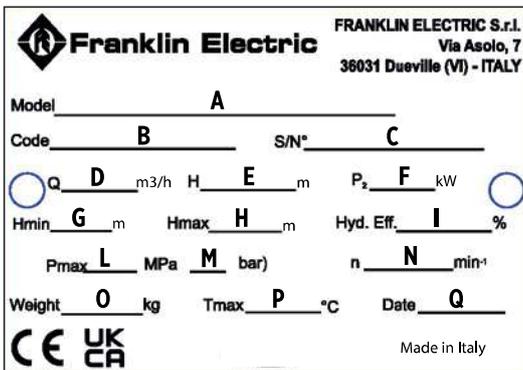


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## PUMP CONFIGURATION

Digit 13-14	Check valve	Type of thread	DOL / SD	Cable guard type	Neck ring material	Bearing material	Diffuser and check valve O-Ring
00	With check valve	RP	DOL	Low	EPDM	EPDM	EPDM
01	With check valve	RP	SD	Low	EPDM	EPDM	EPDM
32	With check valve	RP	DOL	Mid	EPDM	EPDM	EPDM
33	With check valve	RP	SD	Mid	EPDM	EPDM	EPDM

## PRODUCT NAME PLATE



- A) Pump identification code
- B) Product code
- C) Serial number
- D) Operating flow range
- E) Operating head range
- F) Maximum mechanical power absorbed by the pump with rewindable motor
- G) Minimum head
- H) Maximum head
- I) Maximum pump efficiency
- L) Maximum operating pressure [Mpa]
- M) Maximum operating pressure [bar]
- N) Nominal rotation speed with rewindable motor
- O) Pump weight
- P) Maximum temperature of the pumped liquid (excluding industrial uses see below)
- Q) Year of production

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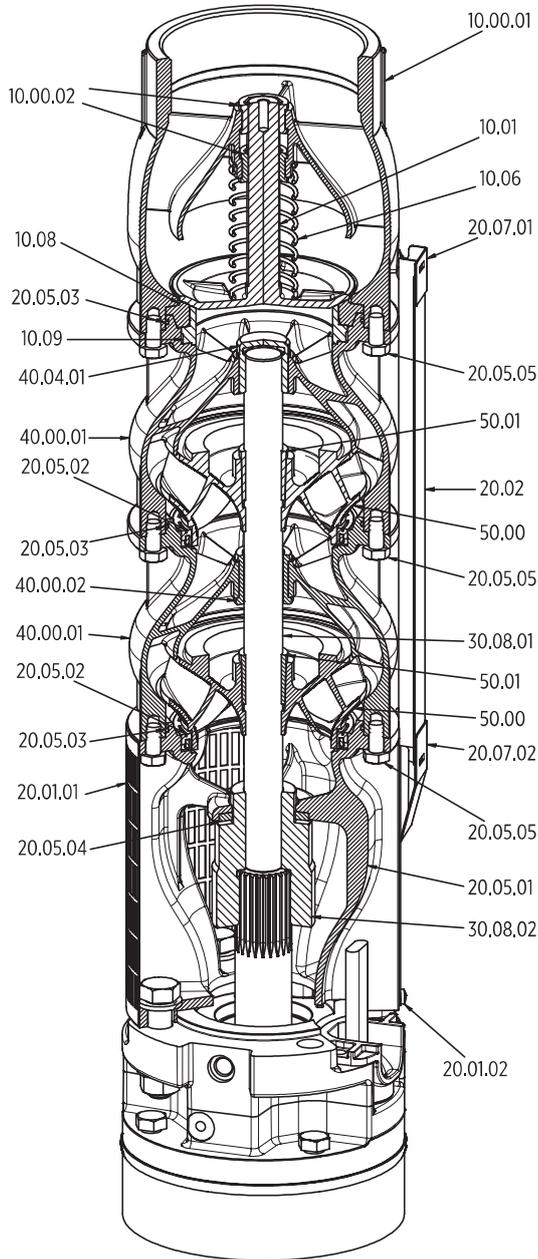
## PARTS AND MATERIAL

Ref. No.	Parts description	Material	Reference standard					
			I version		N version		R version	
			ASTM/AISI	DIN/EN	ASTM/AISI	DIN/EN	ASTM/AISI	DIN/EN
10.00.01	Discharge head	Stainless steel	CF8 (304)	1.4308	CF8M (316)	1.4408	-	1.4517
10.00.02	Valve bearing bush	EPDM	-					
10.01	Valve	Stainless steel	CF8 (304)	1.4308	CF8M (316)	1.4408	-	1.4517
10.06	Valve spring	Stainless steel	2205	1.4462	2205	1.4462	2205	1.4462
10.08	Valve gasket	EPDM	-					
10.09	Valve seat	Stainless steel	CF8M (316)	1.4408	CF8M (316)	1.4408	-	1.4517
10.11	Counter flange	Stainless steel	CF8M (316)	1.4408	CF8M (316)	1.4408	-	1.4517
20.01.01	Suction strainer	Stainless steel	316L	1.4404	316L	1.4404	904L	1.4539
20.01.02	Screws	Stainless steel	316	1.4401	316	1.4401	904L	1.4539
20.02	Cable guard	Stainless steel	316L	1.4404	316L	1.4404	904L	1.4539
20.05.01	Motor bracket	Stainless steel	CF8 (304)	1.4308	CF8M (316)	1.4408	-	1.4517
20.05.02	Neck ring	EPDM	-					
20.05.03	O-Ring	EPDM	-					
20.05.04	Up-thrust ring	PTFE + Graphite	-					
20.05.05	Screws	Stainless steel	316	1.4401	316	1.4401	2205	1.4462
20.05.06	Counter flange screws	Stainless steel	2205	1.4462	2205	1.4462	2205	1.4462
20.06.01	Motor adapter	Stainless steel	CF8M (316)	1.4408	CF8M (316)	1.4408	-	1.4517
20.06.02	Screws	Stainless steel	316	1.4401	316	1.4401	2205	1.4462
20.06.03	Washers	Stainless steel	316	1.4401	316	1.4401	2205	1.4462
20.06.04	Coupling adapter	Stainless steel	2205	1.4462	2205	1.4462	2205	1.4462
20.06.05	Stud bolts	Stainless steel	2205	1.4462	2205	1.4462	2205	1.4462
20.06.06	Washers	Stainless steel	2205	1.4462	2205	1.4462	2205	1.4462
20.06.07	Nuts	Stainless steel	2205	1.4462	2205	1.4462	2205	1.4462
20.07.01	Cable guard top end	Stainless steel	316L	1.4404	316L	1.4404	904L	1.4539
20.07.02	Cable guard bottom end	Stainless steel	316L	1.4404	316L	1.4404	904L	1.4539
30.08.01	Pump shaft	Stainless steel	431	1.4057	329	1.4460	329	1.4460
30.08.02	Coupling	Stainless steel	316	1.4401	316	1.4401	2205	1.4462
40.00.01	Diffuser	Stainless steel	CF8 (304)	1.4308	CF8M (316)	1.4408	-	1.4517
40.00.02	Bearing bush	EPDM	-					
40.04.01	Diffuser cap	Vesconite Hilube®	-					
50.00	Impeller	Stainless steel	CF8 (304)	1.4308	CF8M (316)	1.4408	-	1.4517
50.01	Taper lock	Stainless steel	316	1.4401	316	1.4401	329	1.4460

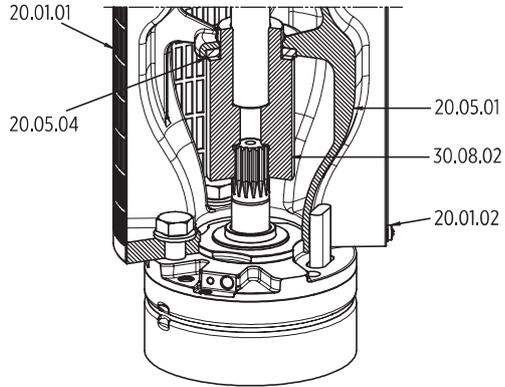
# PARTS AND MATERIAL

VSI 8"

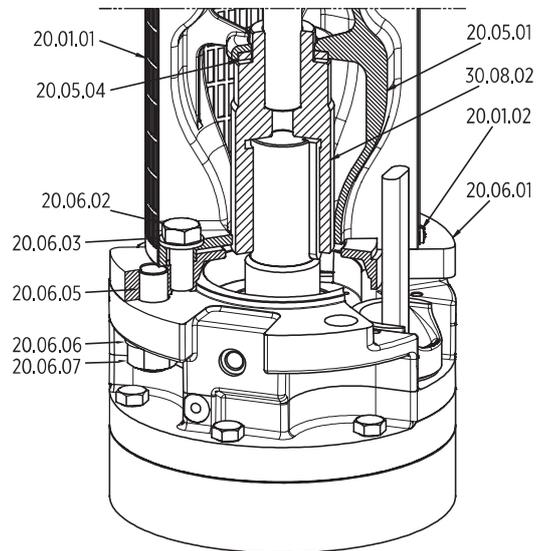
PUMP WITH 8" MOTOR



PUMP WITH 6" MOTOR



PUMP WITH 10" MOTOR

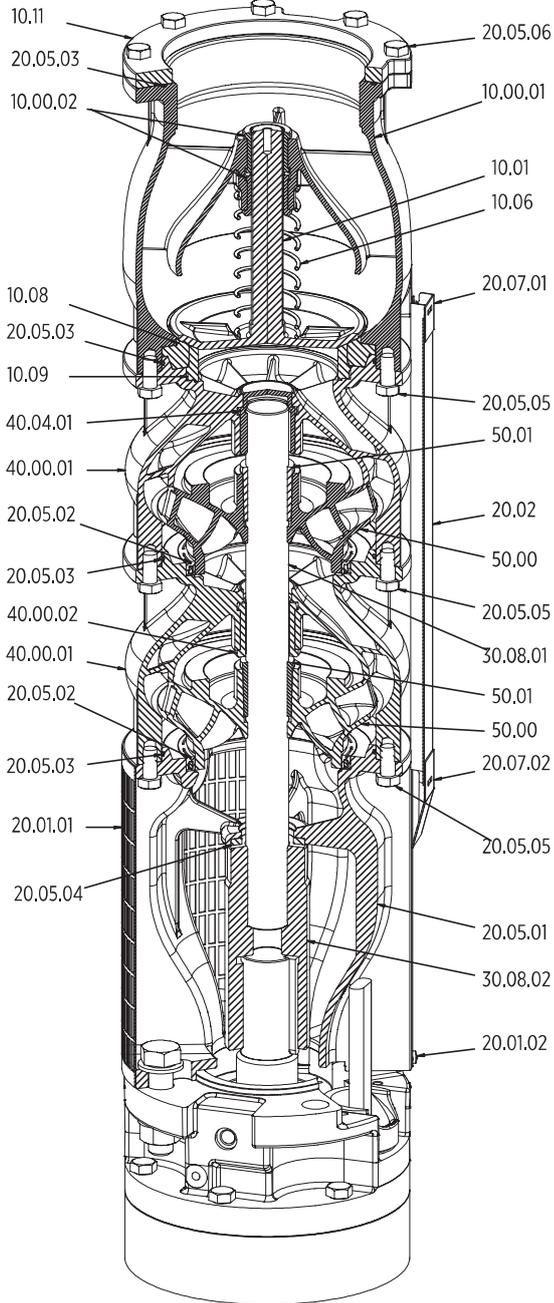


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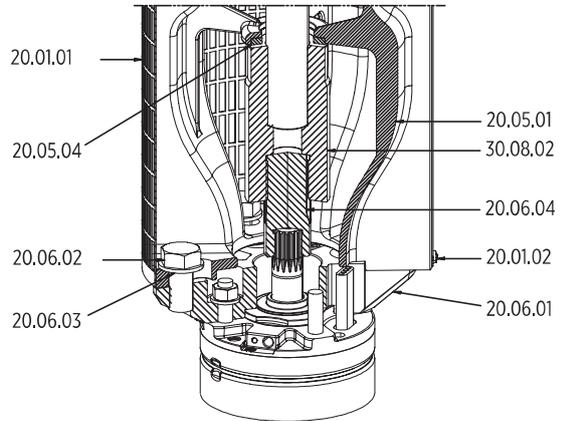
# PARTS AND MATERIAL

## VSI 10"

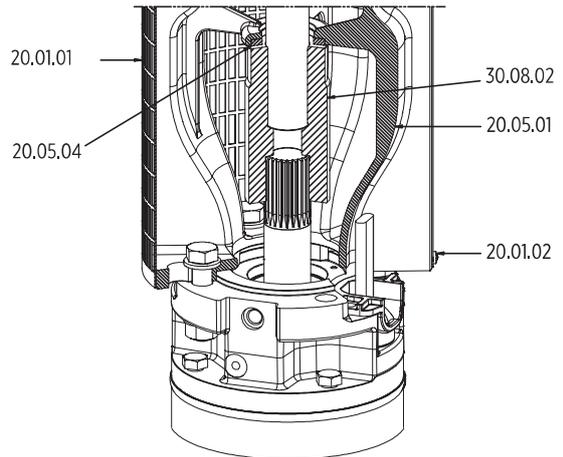
PUMP WITH 10" MOTOR



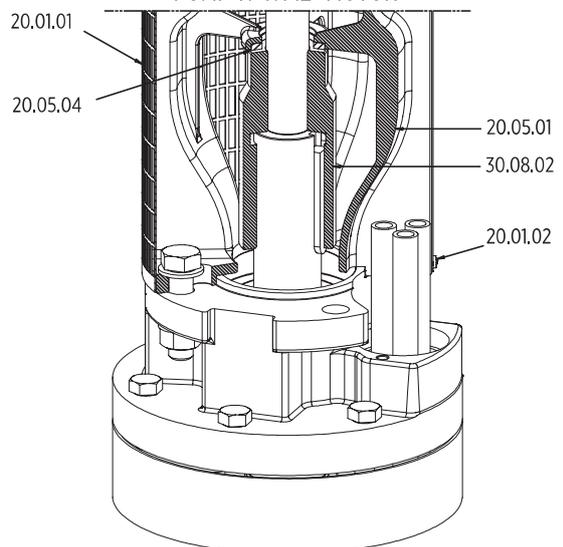
PUMP WITH 6" MOTOR



PUMP WITH 8" MOTOR



PUMP WITH 12" MOTOR

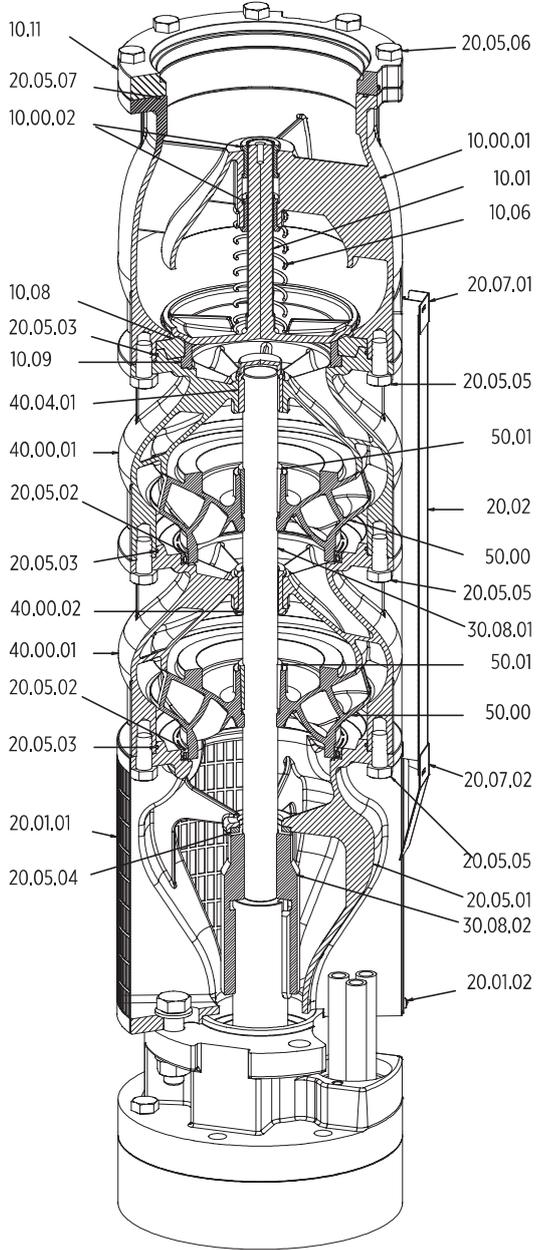


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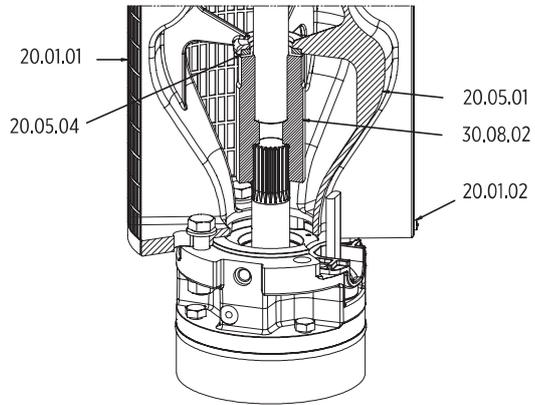
# PARTS AND MATERIAL

## VSI 12"

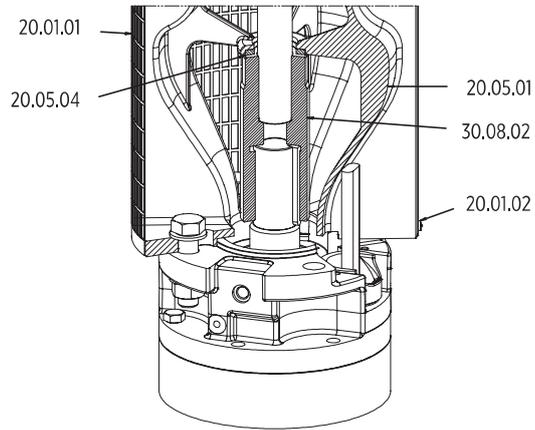
PUMP WITH 12" MOTOR



PUMP WITH 8" MOTOR



PUMP WITH 10" MOTOR



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