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ELECTRIC SUBMERSIBLE VORTEX STAINLESS STEEL

MSVSS NON-CLOG VORTEX SLUDGE PUMP SERIES 316 STAINLESS STEEL 60 HZ

**PORTABLE ELECTRIC
SUBMERSIBLE SLUDGE PUMP
FOR
CORROSIVE & ABRASIVE
APPLICATIONS**

PH Range of 3-11



0.5 -1HP



2HP



3 - 5HP



7.5 -10HP

DESIGN ADVANTAGES

- 316 Stainless Steel (CF8M) Construction for maximum corrosion resistance.
- 316 Stainless Steel (CF8M) Vortex Impeller.
- Double Silicon Carbide/Silicon Carbide and Carbon/Ceramic Mechanical seals.
- External Oil Seal for added protection against abrasives.
- Viton® Elastomers
- Automatic ON/OFF/ON Thermal Overloads in Single Phase Motors with Automatic On/Off In-Built Float.
- CLASS H 180°C Motor Insulation– Inverter Duty Rated
- Dual Wired 240/480v Continuous Duty Rated Motors
- Hi-Torque Single Phase Split Capacitor Motor design
- 50 feet of power cable with plug (Single Phase)
- Built-in Automatic ON/OFF Float in Single Phase Pumps 0.5 - 1HP.
- Permanent Wet Well Guide Rail Installation Optional.



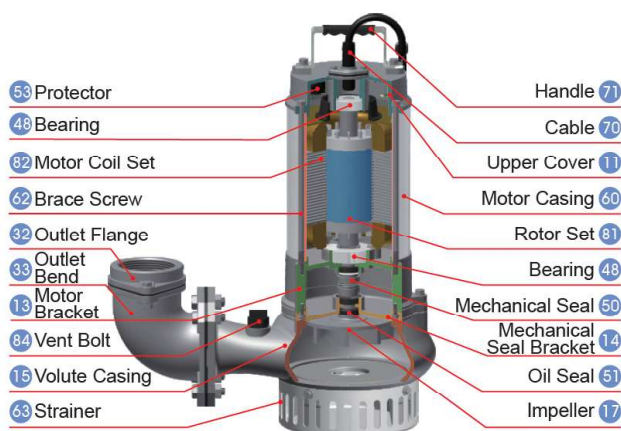
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VORTEX STAINLESS STEEL**

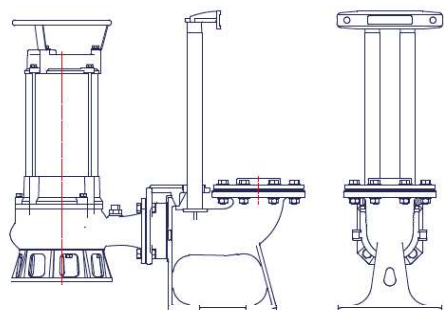
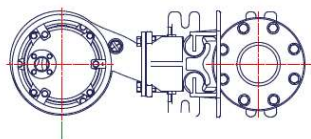
NON-CLOG / SLUDGE SERIES **0.5 - 10 HP (0.4 - 7.5kW)**

PORTABLE INSTALLATION



Max. Sphere Size 35 - 50mm/1.4" - 2"

PERMANENT INSTALLATION



NON-CLOG MSVSS SERIES

MATERIALS OF CONSTRUCTION AND ENGINEERING DATA

MOTOR

2-pole induction **continuous rated** motor with squirrel cage rotor.
Stator insulation class 'H' (180°C)
Speed : 3400 RPM @ 60 Hz, 2800 RPM @ 50 Hz
Power Rating : 0.5HP - 10HP @ 60 Hz, 0.4 - 7.5kW @ 50Hz Full Load
Current FLA: Refer To Chart
Max. temperature of the pump liquid : 104°F/40°C
Max. start/stop per hour : 15

POWER SUPPLY

3 phase, 50/60 Hz, AC Supply. Available in any voltage frequency combination. (120/208/220/230/380/415/460/575/1000V) Moisture sensor available in 3 Phase configurations only with thermal protection that require External Controls. In-Built bi-metallic switches in the winding which trips at excessively high motor temperatures in Single Phase Motors.

BALL BEARINGS

The rotor shaft is carried in two single row, deep groove ball bearings. The bearings are enclosed with high temperature grease-containing special Anti-corrosion additive.

POWER CABLE

Waterproof/oil proof, rubber-insulated, neoprene-sheathed copper conductor flexible cable, 50ft. (15m) length standard. Type SOOW in North America, EPR in the Middle East and HO7RN in the EU.

SHAFT SEAL

Double Silicon Carbide/Silicon Carbide and Carbon/Ceramic Mechanical seals.

CORROSION RESISTANT

Stator Casing: 316 Stainless Steel (CF8M)
Wear plate: 316 Stainless Steel (CF8M)
Shaft: 316 Stainless Steel (CF8M)
Hardware: 316 Stainless Steel (CF8M)
Impeller: Vortex Stainless Steel (CF8M)
Volute: 316 Stainless Steel (CF8M)
pH Range 3 - 11

SUBMERGENCE

Submergence below liquid surface: Refer to Chart Dimension H1

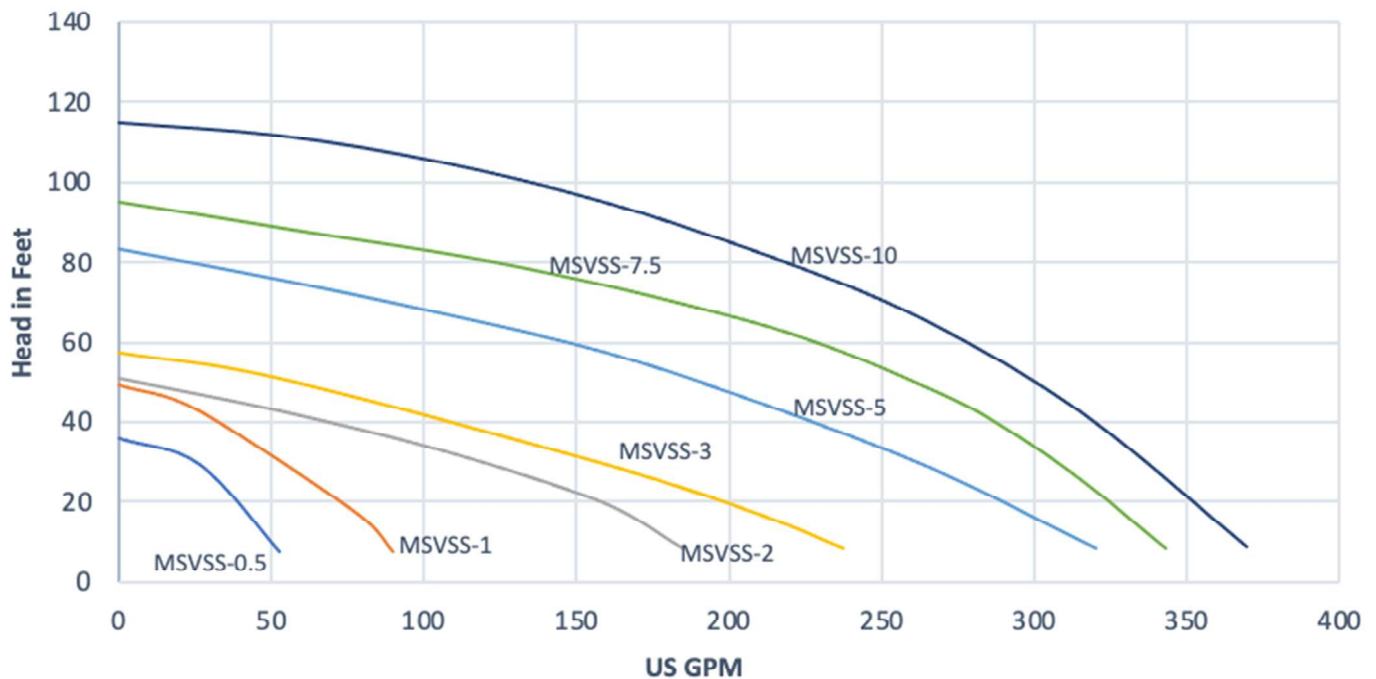
WEIGHTS

Refer to Specifications Chart



ELECTRIC SUBMERSIBLE VORTEX STAINLESS STEEL

Mody MSVSS Series

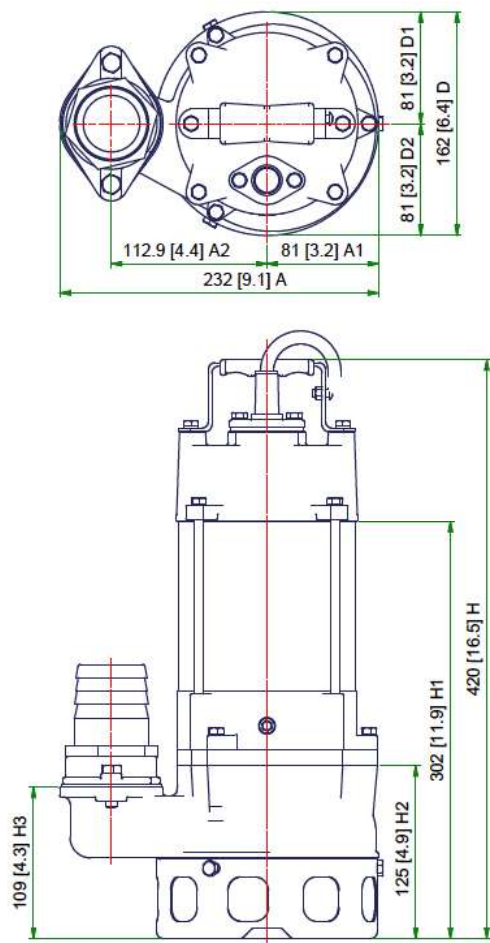


SPECIFICATIONS

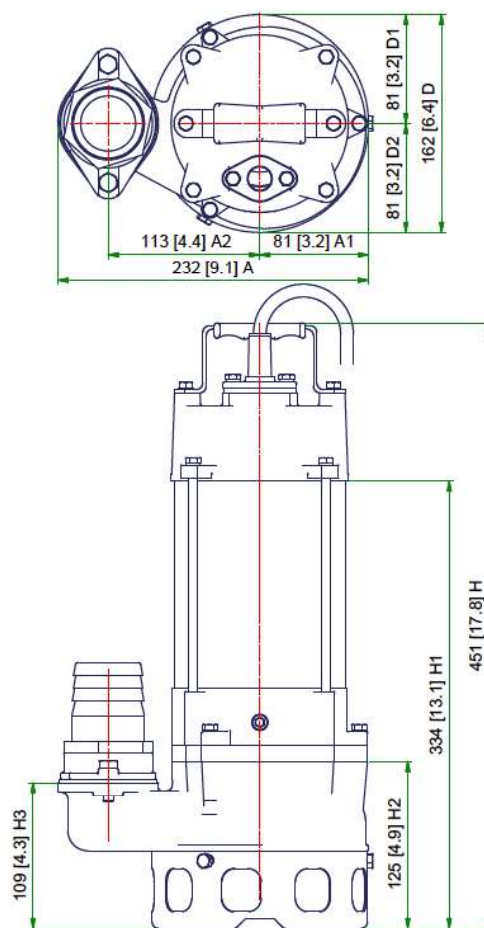
MODEL	kW	HP	Phase	Voltage	Amps	Auto Float	Frequency	Speed	Discharge	SoldsSize in.	SoldsSize mm	Weight Kg	Weight Lbs.
MSVSS05-1	0.4	0.5	1	120	7.5	Yes	60Hz	3450	2"	1.4	35	15	33
MSVSS1-1	0.75	1	1	120	11	Yes	60Hz	3450	2"	1.4	35	18	40
MSVSS2-1	1.5	2	1	240	12	NO	60Hz	3450	2"/3"	1.6	40	36	79
MSVSS2-3	1.5	2	3	240/480	7/3.5	NO	60Hz	3450	2"/3"	1.6	40	36	79
MSVSS3-3	2.2	3	3	240/480	9/4.5	NO	60Hz	3450	3"	1.75	45	60	132
MSVSS3-5	3.7	5	3	240/480	16/8	NO	60Hz	3450	3"	1.75	45	63	139
MSVSS4-7.5	5.5	7.5	3	240/480	20/10	NO	60Hz	3450	4"	2	50	73	161
MSVSS4-10	7.5	10	3	240/480	28/14	NO	60Hz	3450	4"	2	50	78	172

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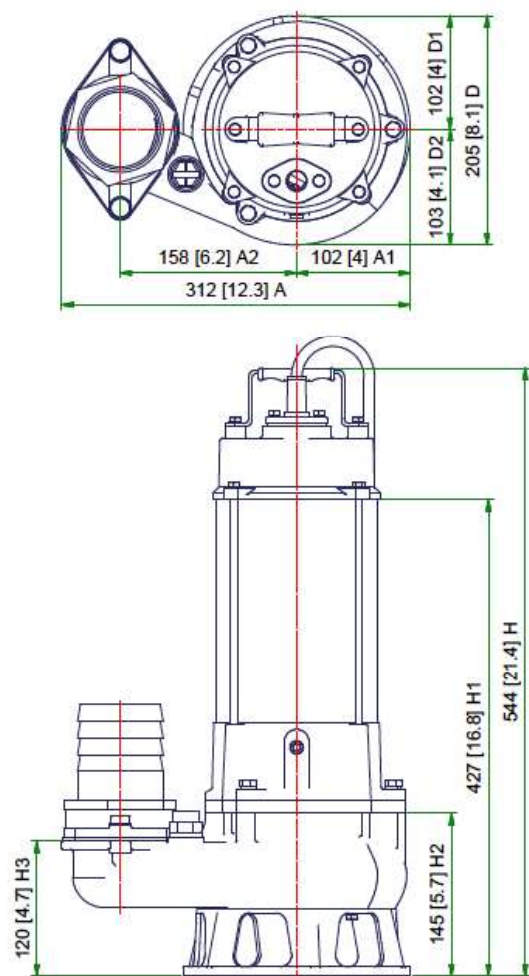
MSVSS05-1



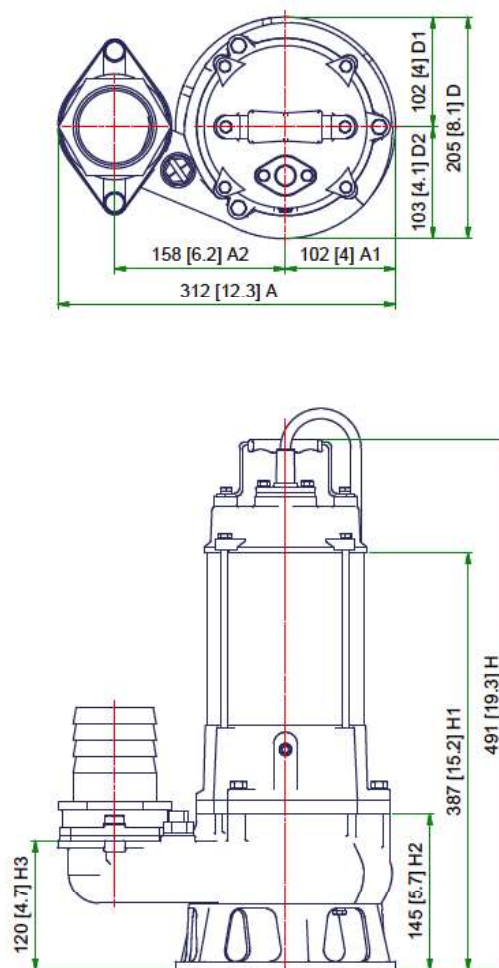
MSVSS1-1

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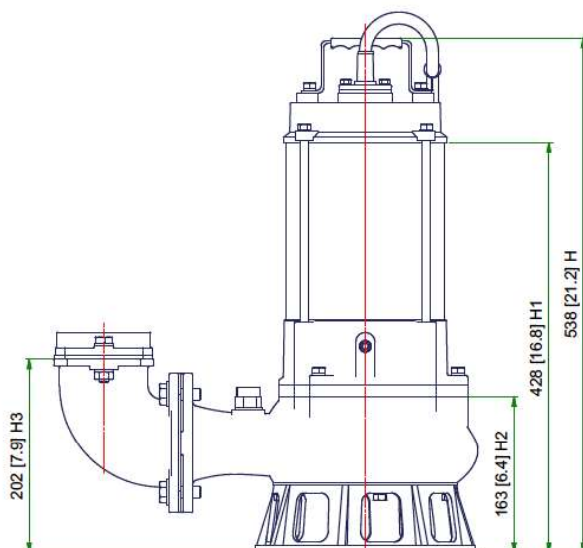
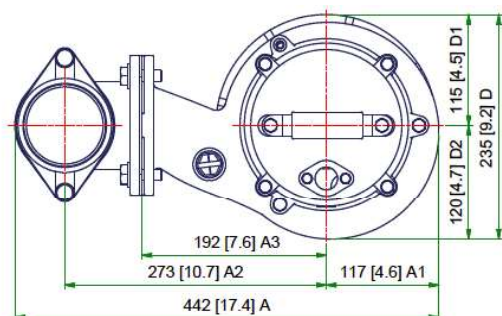
MSVSS2-1



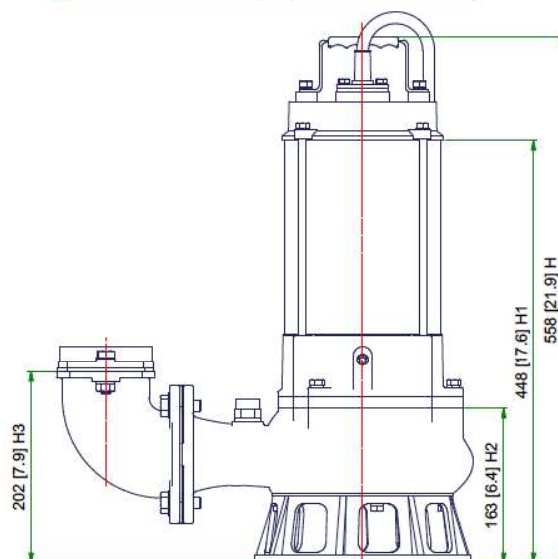
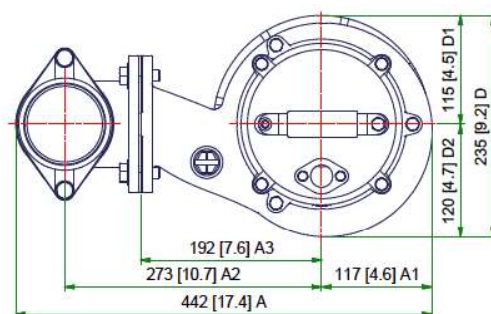
MSVSS2-3

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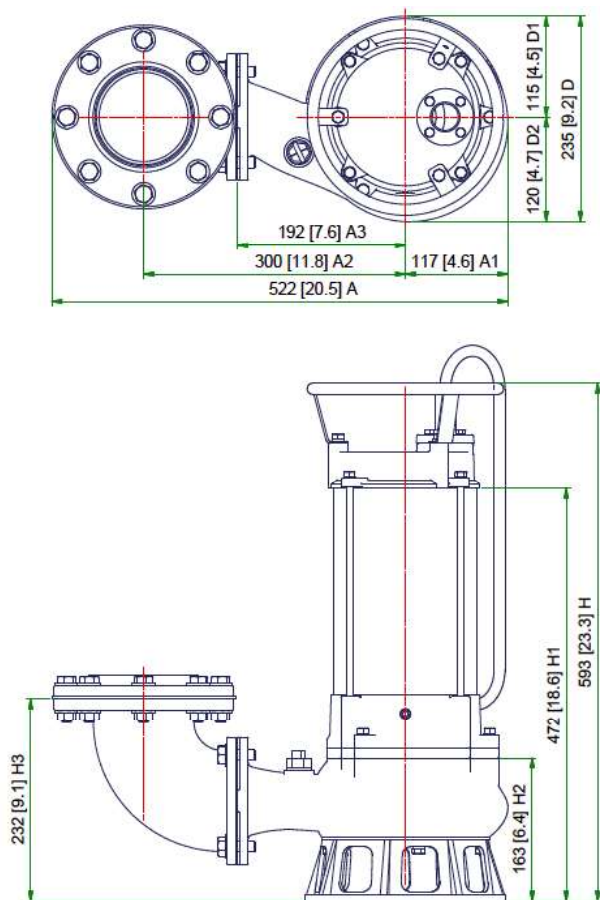
MSVSS3-3



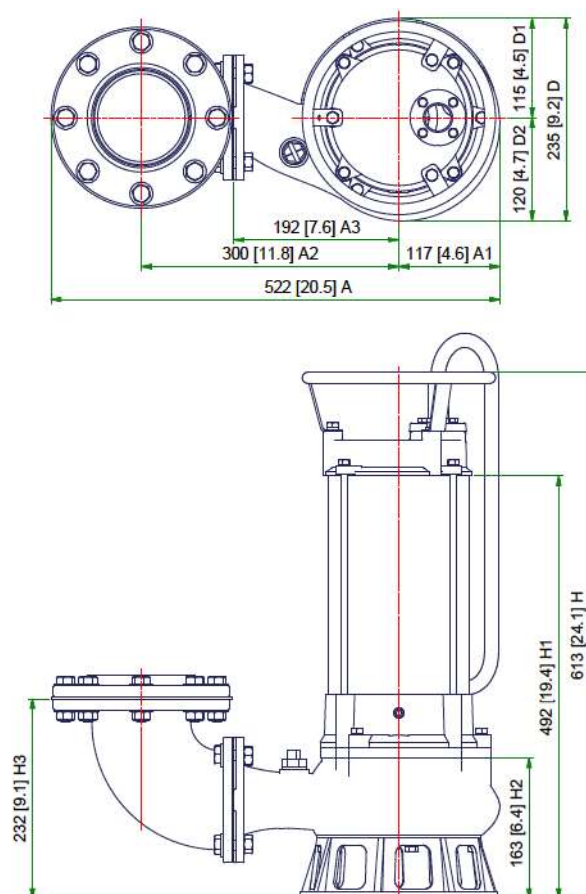
MSVSS3-5

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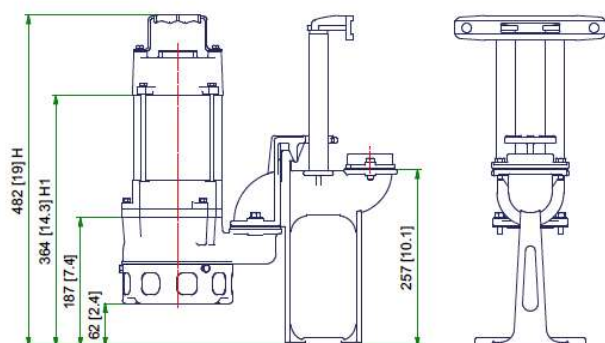
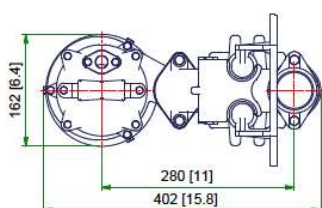
MSVSS4-7.5



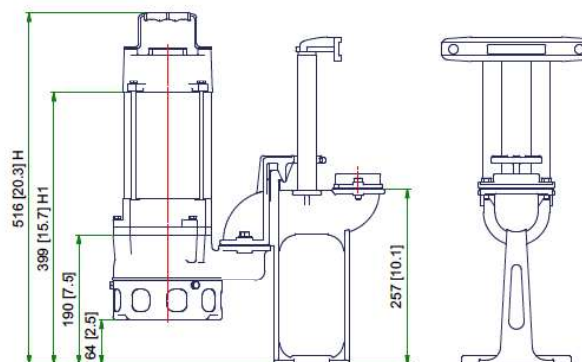
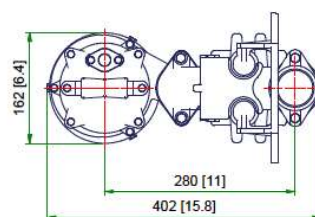
MSVSS4-10

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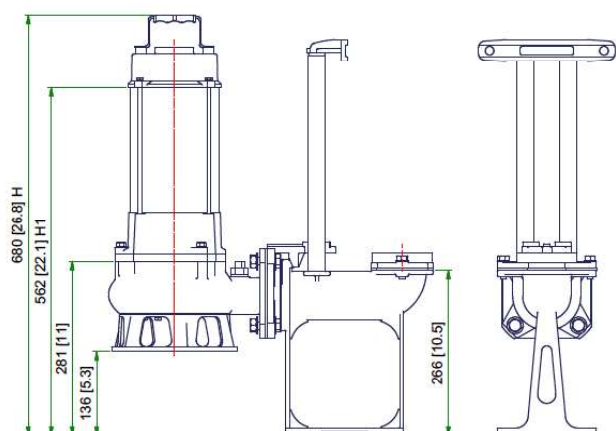
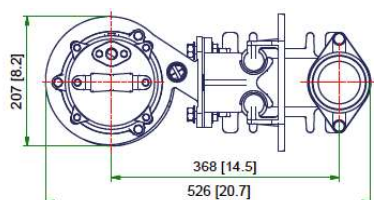
TUS2'' + MSVSS0.5-1



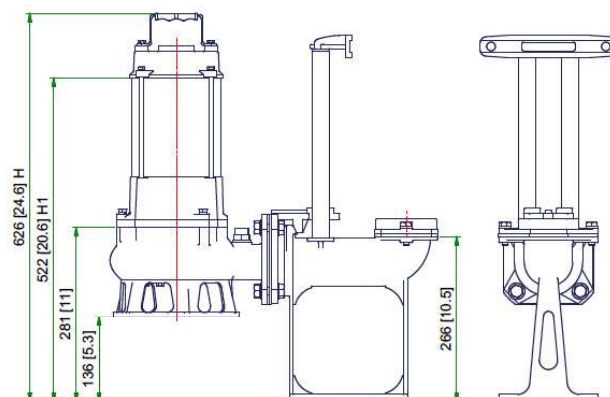
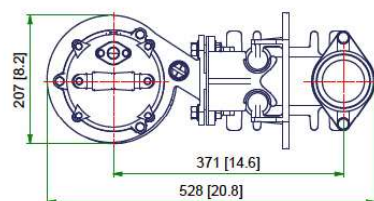
TUS2'' + MSVSS1-1

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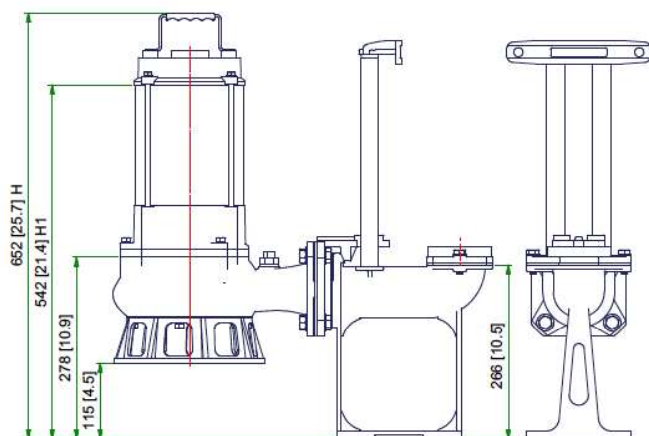
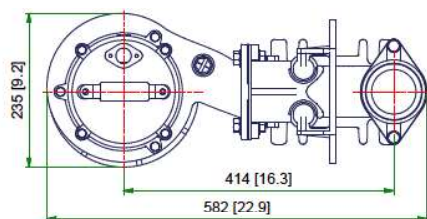
TUS3'' + MSVSS2-1



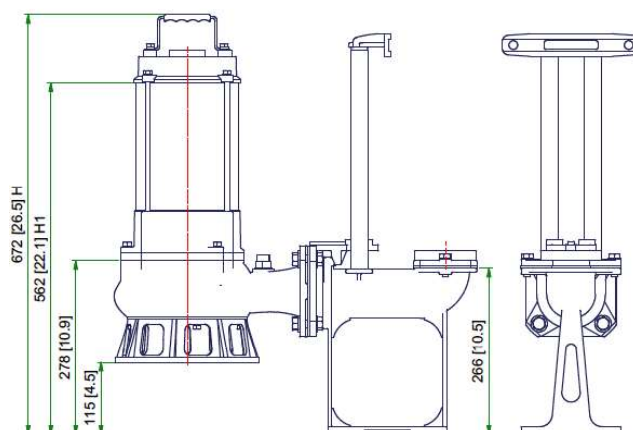
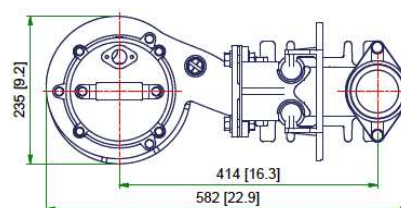
TUS3'' + MSVSS2-3

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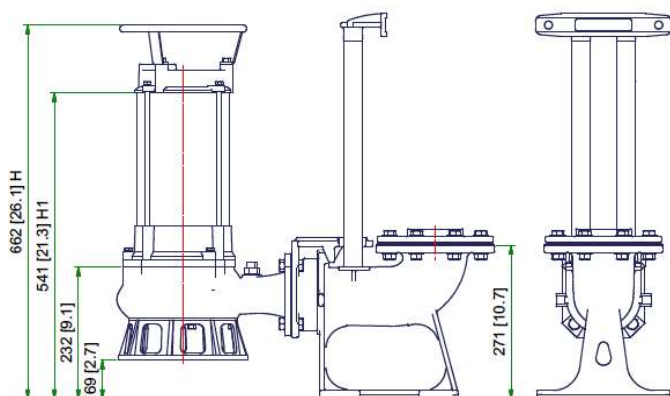
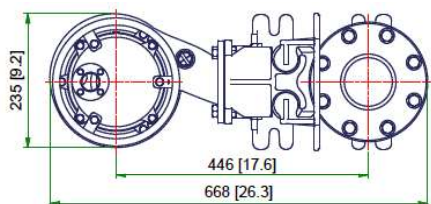
TUS3'' + MSVSS3-3



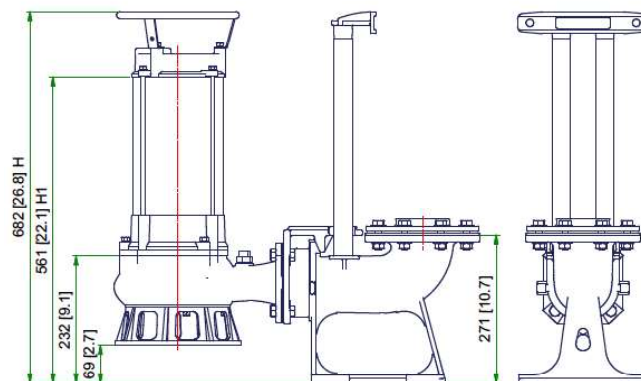
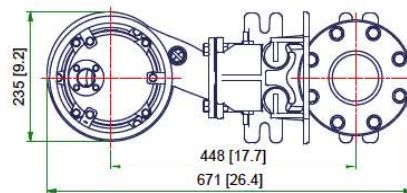
TUS3'' + MSVSS3-5

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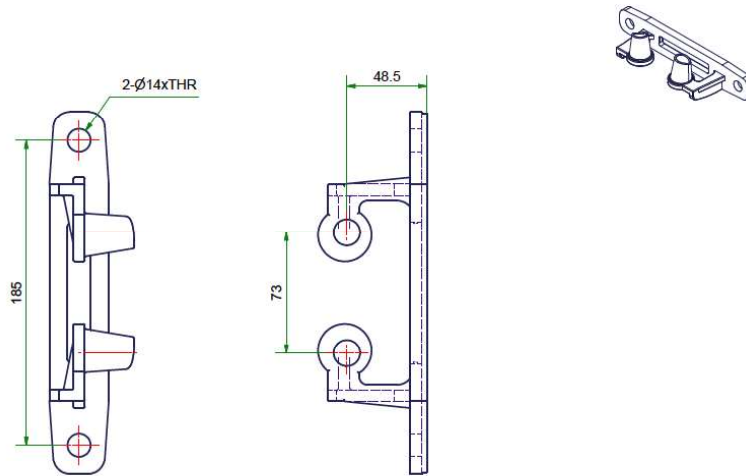
TUS4" + MSVSS4-7.5



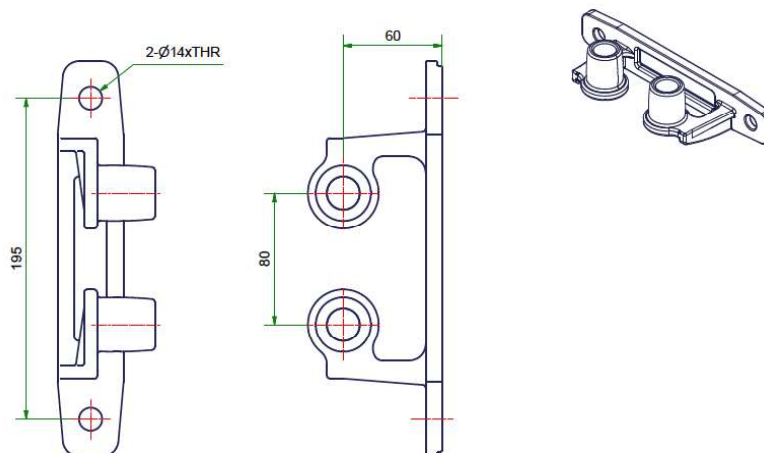
TUS4" + MSVSS4-10

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**ELECTRIC SUBMERSIBLE
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TUS2 3/4" Upper Guide Rail Bracket



TUS4" Upper Guide Rail Bracket