

Deep well submersible pumps

MSU

TERAL

50Hz



TERAL INC.



* Please note that the paint color, etc. of the actual unit may partially differ from the photo.

Applications

- Pumping of groundwater
- Industrial water
- Melting of snow
- Agricultural irrigation
- Water sprinkling
- Pig farming and other livestock breeding
- Air conditioning
- Simple waterworks

Features

Wide choice of variation

- MSUS model (made of stainless steel)** Well diameter 100mm – 200mm or more, pump bore 25mm – 100mm
- MSU model (made of cast iron)** Well diameter 75mm – 400mm or more, pump bore 25mm – 250mm
- MSUH model (for hot spring (simple hot spring))** Well diameter 100mm – 150mm or more, pump bore 25mm – 80mm

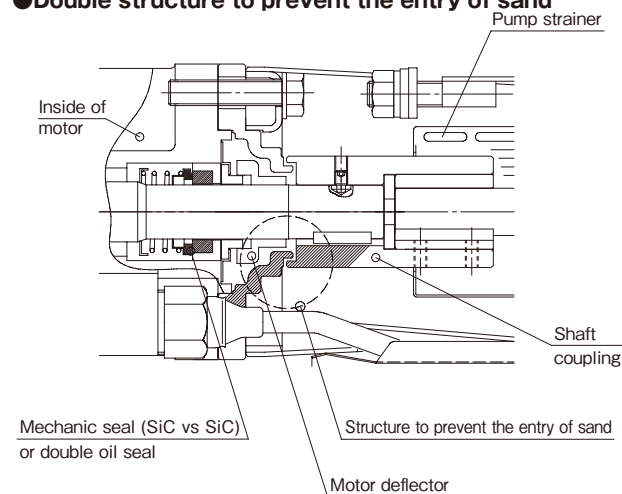
Hygienic (MSUS model)

Hygienic with high resistance to rust and corrosion as the wetted parts of the pumps are made of stainless steel (impeller and casing), and the motors are also made of stainless steel.

Enhanced life

Robust structure with bearings installed at both ends of the pump shaft, and adoption of double structure to prevent the entry of sand into the motors. (Applicable to 6-inch (well diameter 150mm) with M6 motor or higher.)

● Double structure to prevent the entry of sand



Features of deep well submersible pumps made of stainless steel, equipped with stainless steel impellers

6-inch 8-inch

Compact

Due to the optimum design, the maximum diameter of 8-inch (well diameter 200mm) pumps is greatly reduced.

Pump bore 80mm, maximum diameter 183mm (conventionally 193mm)

*** Additionally compact as the maximum diameter is 167mm for 18.5kW or less.**

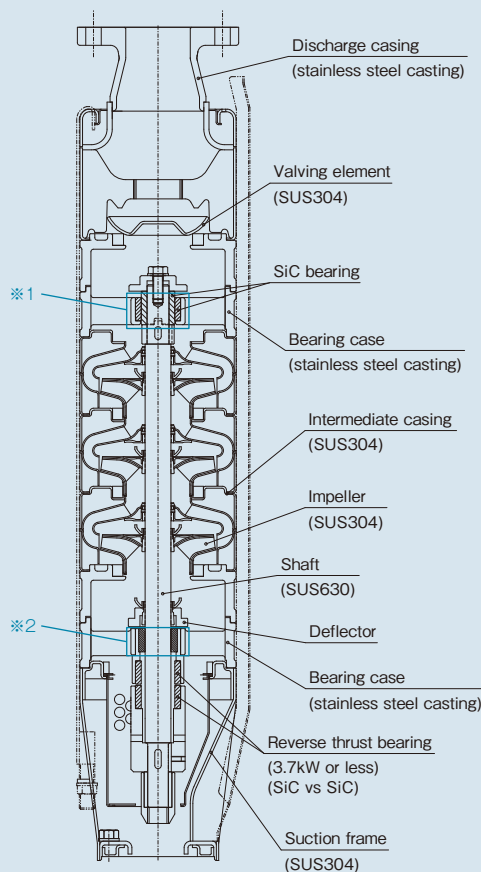
Efficient

High efficiency is realized by optimally designed three-dimensional impeller and three-dimensional guide vane.

The maximum pump efficiency is increased by approximately 3% compared with conventional models.

Enhanced life

- Robust structure with bearings installed at both ends of the pump shaft. ※1 ※2
- Adoption of SiC pump bearings high in wear resistance. ※1
- Adoption of double structure to prevent the entry of sand into motors as in the case of conventional models.



Structure of pump bore 50 - 80mm



Standard specifications

Applicable well diameter (mm)			100 (4B) or more	150 (6B) or more		200 (8B) or more	
Applicable type			25MSUS4 32MSUS4 40MSUS4 50MSUS4	50MSUS6 65MSUS6 80MSUS6	50A-MSUS6 65A-MSUS6 65B-MSUS6 80B-MSUS6	80MSUS8 100MSUS8	80C-MSUS8
Liquid handled	Liquid quality		Fresh water				
	Allowable liquid temperature		0 - 40°C (Minimum flow rate through the motor 4.5m/min)	0 - 30°C			
	pH		5.8 - 8.6				
	Amount of Chloride		200mg/L or less				
	Amount of sand		50mg/L (size 0.1 - 0.25mm) or less				
Maximum allowable submergence depth of pump (m)			0.6 - 2.2kW 70m	M4 1.9 - 2.2kW 70m		3.7 - 18.5kW 350m	
			2.7 - 3.7kW 210m	M4 2.7 - 3.7kW 210m		22 - 37kW 150m	
				M6 3.7 - 15kW 350m			
Minimum required submergence depth of pump (m)			0.5m	1.0m		1.5m	
Minimum well inner diameter (mm)			100	146 (VP acceptable)		205	
Pump	Range	Bore (mm)	25 - 50	50 - 80		80-100	80
		Output (kW)	0.6 - 3.7	1.9 - 15		3.7 - 37	
	Material		Refer to specifications such as sectional drawing.				
Submersible motor	Frame number		M4	M4 1.9 - 3.7kW M6 3.7 - 15kW		M6 3.7 - 18.5kW M8 22 - 37kW	
	Type		Canned type				
	Poles/Phase/ Voltage		2-pole, 3-phase, 200V				
	Starting method		Direct-on-Line start	7.5kW or less: Direct-on-Line start 11kW or more: Star-delta start			
	Insulation class		Class A	M4 class A M6 class F		M6 class F M8 class F (22kW) M8 class E (26, 30, 37kW)	
Piping connection	Pump body		Screw-in type	Flange type			
	Discharge bent pipe (aboveground side)		Flange type				

Standard specifications

Applicable well diameter (mm)			75 (3B)	125 (5B) or more	150 (6B) or more	200 (8B) or more	250 (10B) or more	300 (12B) or more	350 (14B) or more	400 (16B) or more	
Applicable type			25MSU3	40MSU5	40MSU6	80MSU8 100MSU8	100MSU10 125MSU10	150MSU12	200MSU14	250MSU16	
Liquid handled	Liquid quality		Fresh water								
	Allowable liquid temperature		0 – 25°C	0 – 40°C	0 – 30°C	0 – 25°C					
	pH		5.8 – 8.6								
	Amount of Chloride		200mg/L or less								
	Amount of sand		50mg/L (size 0.1 – 0.25mm) or less								
Maximum allowable submergence depth of pump (m)			50m	100m	350m	3.7 – 18.5kW 350m 22kW or more 100m	3.7 – 18.5kW 350m 22kW or more 100m		100m		
Minimum required submergence depth of pump (m)			1m	0.5m	0.5m	1.5m	2.5m	3.5m	5.5m	7.5m	
Minimum well inner diameter (mm)			75 (VP acceptable)	125 (VP acceptable)	146 (VP acceptable)	205	254.2	304.7	339.8	390.6	
Pump	Range	Bore (mm)	25	40		80-100	125	150	200	250	
		Output (kW)	0.4, 0.75	1.5 – 3.7	5.5 – 7.5	3.7 – 37	7.5 – 55	11 – 75	30 – 75	22 – 75	
	Material		Refer to specifications such as sectional drawing.								
Submersible motor	Frame number		M3	M4	M6	M6 3.7 - 18.5kW M8 22 - 37kW	M6 7.5 - 18.5kW M8 22 - 37kW M10 45 - 55kW	M6 11 - 18.5kW M8 22 - 37kW M12 45 - 75kW	M8 30 - 37kW M12 45 - 75kW	M10 22-55kW M12 75kW	
	Type		Canned type				M6 canned type M8 Waterproof insulated M10 Waterproof insulated	M6 canned type M8 Waterproof insulated M12 Waterproof insulated	Waterproof insulated		
	Poles/Phase/ Voltage		2-pole, 3-phase, 200V							4-pole, 3-phase, 200V	
	Starting method		Direct-on-Line start			7.5kW or less: Direct-on-Line start 11kW or more: Star-delta start					
	Insulation class		Class E	1.5kW class F 2.2kW or more class E	Class F	M6 class F M8 class Y	M6 class F M8,10,12 class Y		Class Y		
Piping connection	Pump body		Screw-in type			Flange type					
	Discharge bent pipe (aboveground side)		Flange type								

Standard specifications

Applicable well diameter (mm)			100 (4B) or more	150 (6B) or more	
Applicable type			25MSUH4 32MSUH4 40MSUH4 50MSUH4	50MSUH6 65MSUH6	50MSUH6 65MSUH6 80MSUH6
Liquid handled	Liquid quality		For simple hot spring or warm water ※1		
	Allowable liquid temperature		75° C (Minimum flow rate through the motor velocity 4.5m/min)		90° C (Minimum flow rate through the motor velocity 9m/min)
	p H		5.8 - 8.6		
	Amount of Chloride		200mg/L or less		
	Amount of sand		50mg/L (size 0.1 – 0.25mm) or less		
Maximum allowable submergence depth of pump (m)			210m	350m	
Minimum required submergence depth of pump (m)			0.5m	1.0m	
Minimum well inner diameter (mm)			100	146 (VP acceptable)	
Maximum pump outer diameter (mm)			97	142	
Pump	Range	Bore (mm)	25 - 50	50 - 80	
		Output (kW)	0.6 - 3.7	3.7	3.7 - 15
	Material		Refer to specifications such as sectional drawing.		
Submersible motor	Frame number		M4		M6
	Type		Canned type		
	Poles/Phase/Voltage		2-pole, 3-phase, 200V		
	Starting method		Direct-on-Line start		7.5kW or less: Direct-on-Line start 11kW or more: Star-delta start
	Insulation class		Class A		Class F
Piping connection	Pump body		Screw-in type	Flange type	
	Discharge bent pipe (aboveground side)		Flange type		

※ 1 Simple hot spring: A hot spring that is always 25° C or more with solid components and free carbon dioxide contained per kilogram of water less than 1g.
Contact us for special hot springs (carbonate springs, sulfurous springs, chalybeate springs, salt springs, and sodium bicarbonate springs), etc.

Special specifications

Motor..... Voltage change

Standard accessories

Submersible check valve (built-in the pump) 1
Discharge companion flange (except screw-in type and 80MSUS8/100MSUS8) 1

Special accessories

● Well lid (with air valve and companion flange)
● Companion flange (for 80MSUS8/100MSUS8) ● Control panel
● Liquid level relay ● Compound gauge ● Extension cable
● Lifting pipe ● Check valve ● Sluice valve ● Foundation bolt
● Electrode rod and cable for electrode rod

Description of types

32 MSUS 4 - 5 1.5 - 20

① ② ③ ④ ⑤ ⑥

- ① Bore diameter
② Model MSU: Cast-iron pump
MSUS: Stainless steel pump
MSUH: For hot spring (simple hot spring)
③ Well diameter 4inch: 100mm
5inch: 125mm
6inch: 150mm
8inch: 200mm
10inch: 250mm etc.
④ Frequency 5 : 50Hz
6 : 60Hz
⑤ Output
⑥ Number of stage

50 A - MSUS 6 - 5 3.7 - 8

① ② ③ ④ ⑤ ⑥ ⑦

- ① Bore diameter
② Impeller type
③ Model
④ Well diameter 6inch: 150mm
8inch: 200mm
⑤ Frequency 5 : 50Hz
6 : 60Hz
⑥ Output
⑦ Number of stage

Appropriate operating range of pumps

Pump discharge rate must be within the specified range (see the specification table).

If the discharge rate is too low, the motor may overheat and burn out.

For use with a well larger than the applicable well diameter, secure the following minimum flow rate.

Minimum flow rate

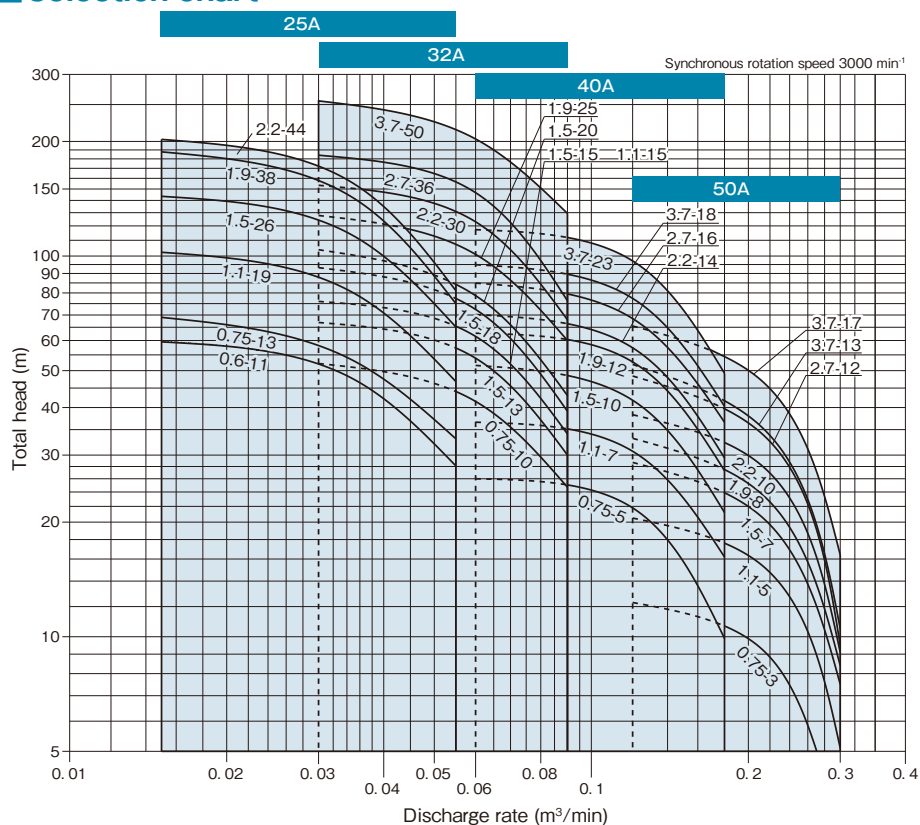
(unit: m³/min)

Well diameter Pump	75mm 3B	100mm 4B	125mm 5B	150mm 6B	200mm 8B	250mm 10B	300mm 12B	350mm 14B	400mm 16B
MSU3		0.020	0.040						
MSUS4			0.030	0.055					
MSU5									
MSUS6					0.165	0.330	0.530		
MSU8 MSUS8						0.330	0.530	0.690	
MSU10							0.530	0.690	
MSU12								0.690	
MSU14									0.560

Note: Applicable well diameter

Well diameter 100mm / Pump bore 25 - 50mm

■ Selection chart



■ Specifications table

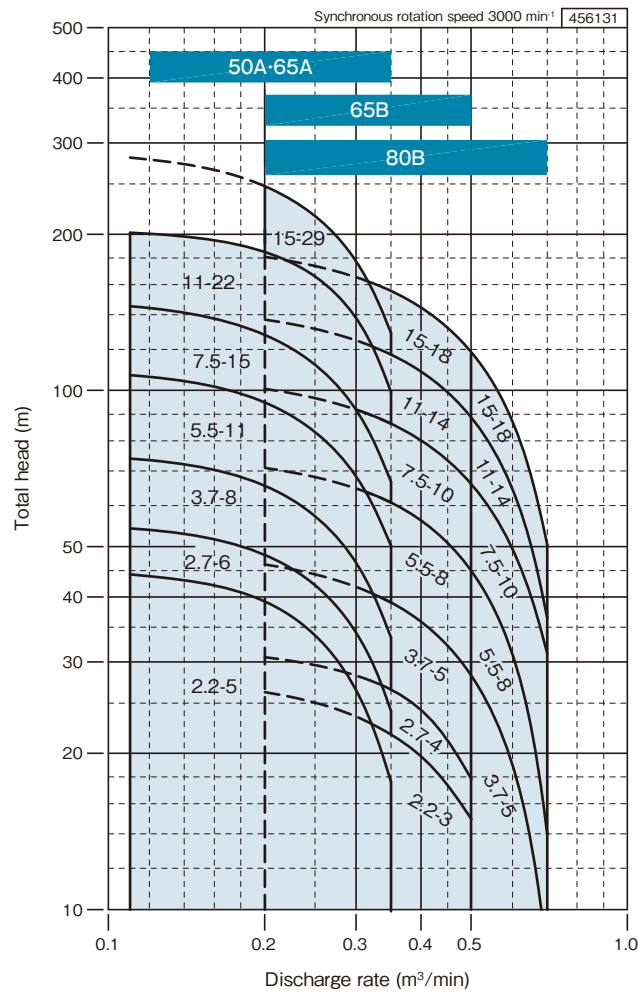
Synchronous rotation speed 3000 min⁻¹

Well diameter (mm)	Bore (mm)	Type	No. of stages	Output (kW)	Rated current (A)	Specifications	
						Discharge rate (m ³ /min)	Total head (m)
100	25	25MSUS4-5.6-11	11	0.6	3.5	0.015	59.5
		25MSUS4-5.75-13	13	0.75	4.2	0.015	69.0
		25MSUS4-51.1-19	19	1.1	6.2	0.015	102.3
		25MSUS4-51.5-26	26	1.5	8.6	0.015	143.5
		25MSUS4-51.9-38	38	1.9	9.7	0.015	187.8
		25MSUS4-52.2-44	44	2.2	11.3	0.015	202.5
	(25) 32	32MSUS4-5.75-10	10	0.75	4.2	0.03	52.2
		32MSUS4-51.1-15	15	1.1	6.2	0.03	76.0
		32MSUS4-51.5-13	13	1.5	8.6	0.03	66.9
		32MSUS4-51.5-15	15	1.5	8.6	0.03	76.0
		32MSUS4-51.5-18	18	1.5	8.6	0.03	93.2
		32MSUS4-51.5-20	20	1.5	8.6	0.03	103.9
		32MSUS4-51.9-25	25	1.9	9.7	0.03	127.8
		32MSUS4-52.2-30	30	2.2	11.3	0.03	153.4
		32MSUS4-52.7-36	36	2.7	15	0.03	184.0
		32MSUS4-53.7-50	50	3.7	19.3	0.03	255.6
	(25) (32) 40	40MSUS4-5.75-5	5	0.75	4.2	0.06	26.0
		40MSUS4-51.1-7	7	1.1	6.2	0.06	36.6
		40MSUS4-51.5-10	10	1.5	8.6	0.06	51.6
		40MSUS4-51.9-12	12	1.9	9.7	0.06	62.7
		40MSUS4-52.2-14	14	2.2	11.3	0.06	70.2
		40MSUS4-52.7-16	16	2.7	15	0.06	84.9
		40MSUS4-53.7-18	18	3.7	19.3	0.06	94.9
		40MSUS4-53.7-23	23	3.7	19.3	0.06	117.3
	(25) (32) 50	50MSUS4-5.75-3	3	0.75	4.2	0.12	12.3
		50MSUS4-51.1-5	5	1.1	6.2	0.12	20.5
		50MSUS4-51.5-7	7	1.5	8.6	0.12	28.7
		50MSUS4-51.9-8	8	1.9	9.7	0.12	33.2
		50MSUS4-52.2-10	10	2.2	11.3	0.12	38.3
		50MSUS4-52.7-12	12	2.7	15	0.12	48.4
		50MSUS4-53.7-13	13	3.7	19.3	0.12	51.9
		50MSUS4-53.7-17	17	3.7	19.3	0.12	65.5

* Bore (25), (32) is for control areas.

Well diameter 150mm / Pump bore 50 - 80mm Impeller made of SUS304

Selection chart

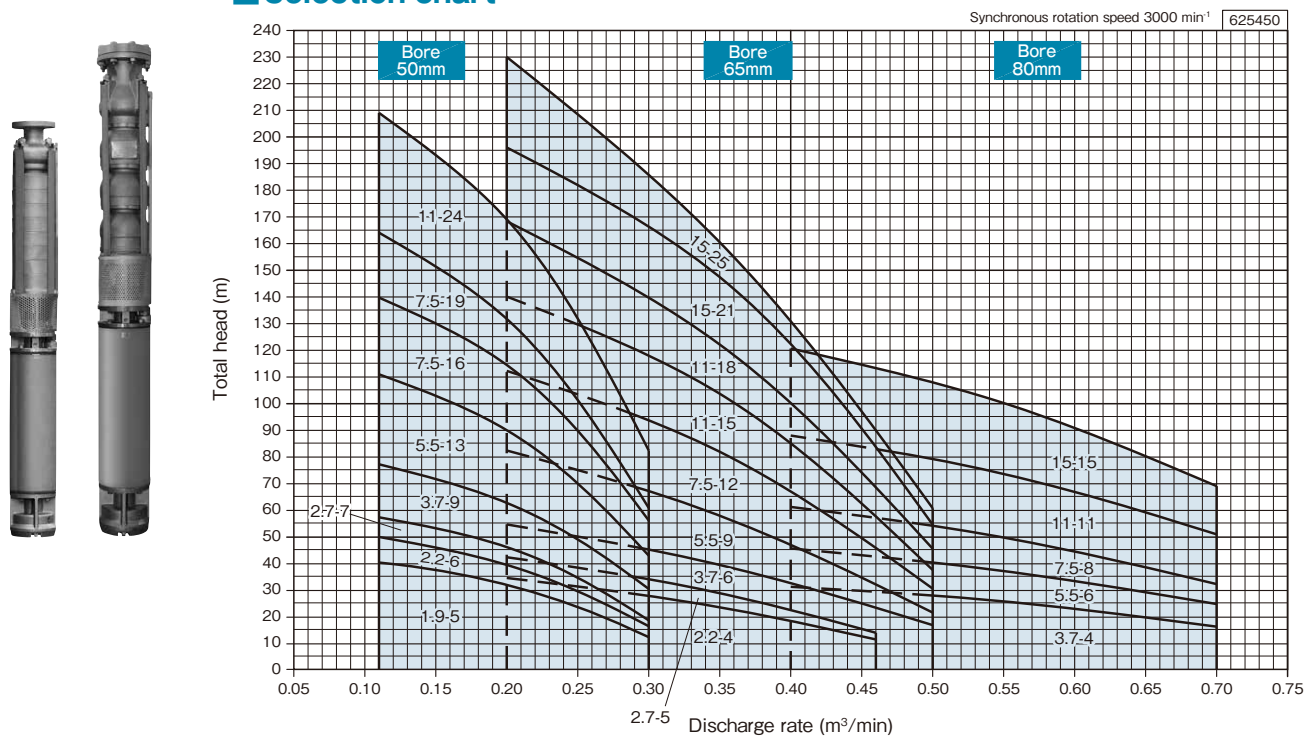


Specifications table

Well diameter (mm)	Bore (mm)	Type	No. of stages	Output (kW)	Rated current (A)	Specifications	
						Discharge rate m³/min	Total head m
150	50	50A-MSUS6-52.2-5	5	2.2	11.3	0.2	39.2
		50A-MSUS6-52.7-6	6	2.7	15	0.2	48.2
		50A-MSUS6-53.7-8	8	3.7	19.3	0.2	65.5
		50A-MSUS6-55.5-11	11	5.5	26.5	0.2	94.8
		50A-MSUS6-57.5-15	15	7.5	35	0.2	127.9
		50A-MSUS6-511-22	22	11	52.5	0.2	184.8
	65	65A-MSUS6-52.2-5	5	2.2	11.3	0.2	39.2
		65A-MSUS6-52.7-6	6	2.7	15	0.2	48.2
		65A-MSUS6-53.7-8	8	3.7	19.3	0.2	65.5
		65A-MSUS6-55.5-11	11	5.5	26.5	0.2	94.8
		65A-MSUS6-57.5-15	15	7.5	35	0.2	127.9
		65A-MSUS6-511-22	22	11	52.5	0.2	184.8
		65A-MSUS6-515-29	29	15	69	0.2	247.4
		65B-MSUS6-52.2-3	3	2.2	11.3	0.35	21.7
		65B-MSUS6-52.7-4	4	2.7	15	0.35	26.5
		65B-MSUS6-53.7-5	5	3.7	19.3	0.35	39.0
		65B-MSUS6-55.5-8	8	5.5	26.5	0.35	60.8
		65B-MSUS6-57.5-10	10	7.5	35	0.35	86.3
		65B-MSUS6-511-14	14	11	52.5	0.35	117.2
		65B-MSUS6-515-18	18	15	69	0.35	155.5
	80	80B-MSUS6-53.7-5	5	3.7	19.3	0.35	39.0
		80B-MSUS6-55.5-8	8	5.5	26.5	0.35	60.8
		80B-MSUS6-57.5-10	10	7.5	35	0.35	86.3
		80B-MSUS6-511-14	14	11	52.5	0.35	117.2
		80B-MSUS6-515-18	18	15	69	0.35	155.5

Well diameter 150mm / Pump bore 50 - 80mm Impeller made of SCS13

■ Selection chart

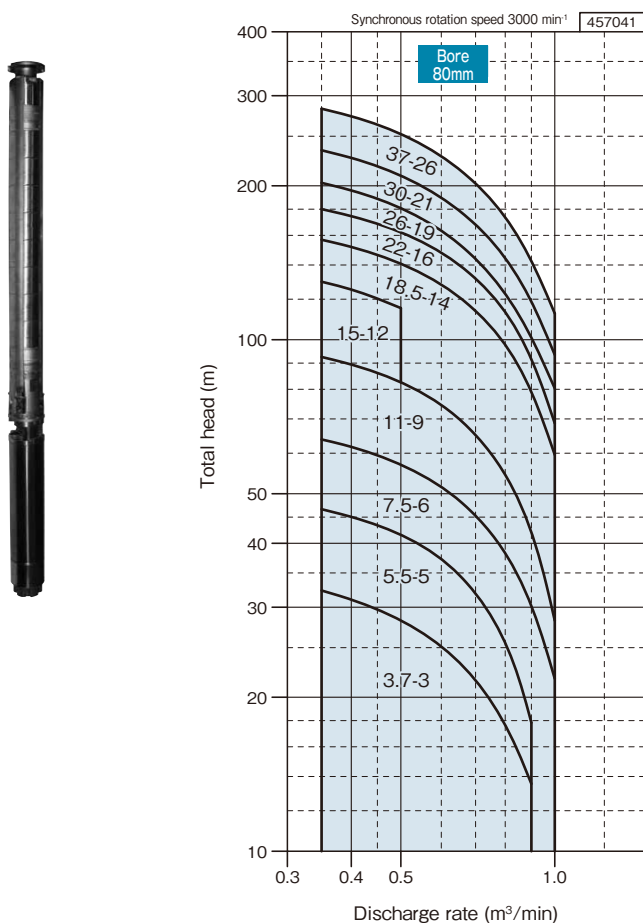


■ Specifications table

Well diameter (mm)	Bore (mm)	Type	No. of stages	Output (kW)	Rated current (A)	Specifications	
						Discharge rate m ³ /min	全揚程 m
150	50	50MSUS6-51.9-5	5	1.9	9.7	0.2	31.7
		50MSUS6-52.2-6	6	2.2	11.3	0.2	39.2
		50MSUS6-52.7-7	7	2.7	15	0.2	45.9
		50MSUS6-53.7-9	9	3.7	19.3	0.2	62.5
		50MSUS6-55.5-13	13	5.5	26.5	0.2	89.8
		50MSUS6-57.5-16	16	7.5	35	0.2	114.3
		50MSUS6-57.5-19	19	7.5	35	0.2	131.6
		50MSUS6-511-24	24	11	52.5	0.2	169.0
	65	65MSUS6-52.2-4	4	2.2	11.3	0.35	23.3
		65MSUS6-52.7-5	5	2.7	15	0.35	28.6
		65MSUS6-53.7-6	6	3.7	19.3	0.35	39.2
		65MSUS6-55.5-9	9	5.5	26.5	0.35	57.7
		65MSUS6-57.5-12	12	7.5	35	0.35	81.7
		65MSUS6-511-15	15	11	52.5	0.35	103.5
		65MSUS6-511-18	18	11	52.5	0.35	122.0
		65MSUS6-515-21	21	15	69	0.35	147.3
		65MSUS6-515-25	25	15	69	0.35	160.4
	80	80MSUS6-53.7-4	4	3.7	18.5	0.55	25.5
		80MSUS6-55.5-6	6	5.5	26.5	0.55	36.9
		80MSUS6-57.5-8	8	7.5	35	0.55	49.5
		80MSUS6-511-11	11	11	52.5	0.55	73.4
		80MSUS6-515-15	15	15	69	0.55	100.0

Well diameter 200mm / Pump bore 80mm Impeller made of SUS304

Selection chart

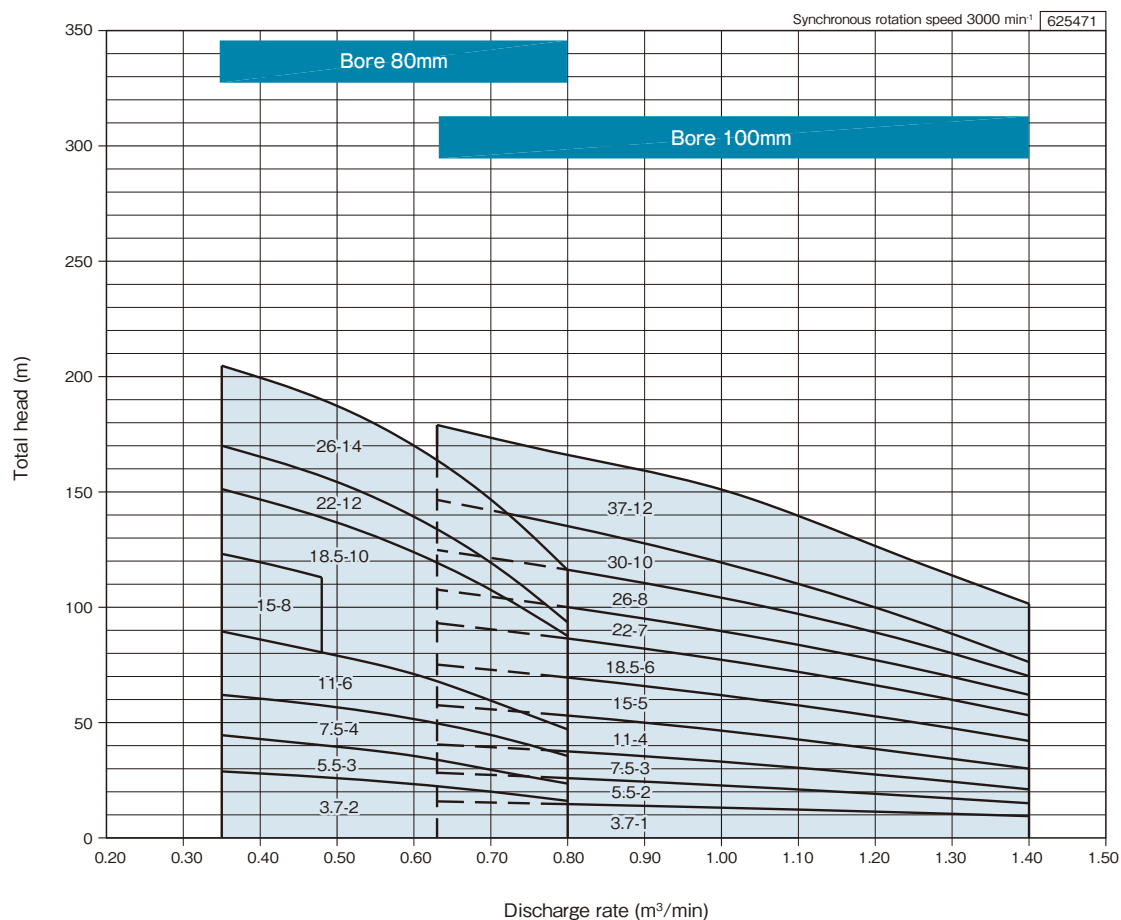


Specifications table

Well diameter (mm)	Bore (mm)	Type	No. of stages	Output (kW)	Rated current (A)	Specifications	
						Discharge rate m ³ /min	Total head m
200	80	80C-MSUS8-53.7-3	3	3.7	18.5	0.6	25.1
		80C-MSUS8-55.5-5	5	5.5	26.5	0.6	37.2
		80C-MSUS8-57.5-6	6	7.5	35	0.6	51.5
		80C-MSUS8-511-9	9	11	52.5	0.6	74.5
		80C-MSUS8-515-12	12	15	69	0.4	125.3
		80C-MSUS8-518-14	14	18.5	84	0.6	128.1
		80C-MSUS8-522-16	16	22	85	0.6	147.9
		80C-MSUS8-526-19	19	26	103	0.6	163.3
		80C-MSUS8-530-21	21	30	118	0.6	189.4
		80C-MSUS8-537-26	26	37	144	0.6	228.3

Well diameter 200mm / Pump bore 80 - 100mm Impeller made of SCS13

■ Selection chart



■ Specifications table

Synchronous rotation speed 3000 min⁻¹

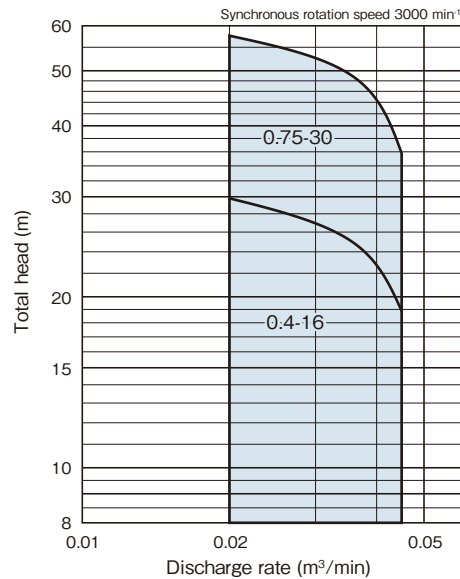
Well diameter (mm)	Bore (mm)	Type	No. of stages	Output (kW)	Rated current (A)	Specifications	
						Discharge rate m³/min	Total head m
200	80	80MSUS8-53.7-2	2	3.7	18.5	0.6	23.3
		80MSUS8-55.5-3	3	5.5	26.5	0.6	35.5
		80MSUS8-57.5-4	4	7.5	35	0.6	51.5
		80MSUS8-511-6	6	11	52.5	0.6	71.0
		80MSUS8-515-8	8	15	69	0.4	119.5
		80MSUS8-518-10	10	18.5	84	0.6	123.8
		80MSUS8-522-12	12	22	85	0.6	139.2
		80MSUS8-526-14	14	26	103	0.6	170.0
	100	100MSUS8-53.7-1	1	3.7	18.5	1.0	13.1
		100MSUS8-55.5-2	2	5.5	26.5	1.0	22.7
		100MSUS8-57.5-3	3	7.5	35	1.0	33.0
		100MSUS8-511-4	4	11	52.5	1.0	46.5
		100MSUS8-515-5	5	15	69	1.0	61.8
		100MSUS8-518-6	6	18.5	84	1.0	77.2
		100MSUS8-522-7	7	22	85	1.0	89.6
		100MSUS8-526-8	8	26	103	1.0	104.1
		100MSUS8-530-10	10	30	118	1.0	119.3
		100MSUS8-537-12	12	37	144	1.0	151.0

Well diameter 75mm / Pump bore 25mm

■ Selection chart



● For 75mm well (3B)



■ Specifications table

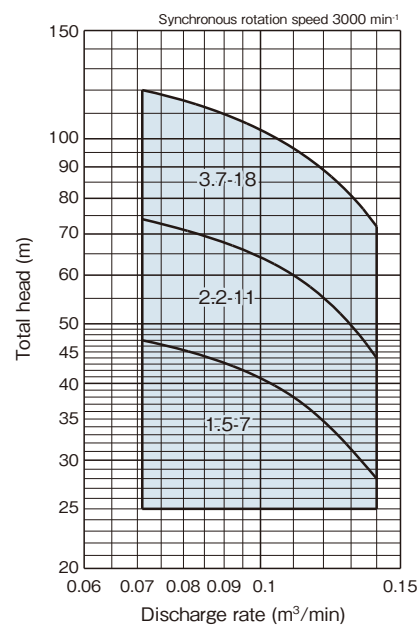
Well diameter (mm)	Bore (mm)	Type	No. of stages	Output (kW)	Rated current (A)	Specifications					
						Discharge rate m³/min	Total head m	Discharge rate m³/min	Total head m	Discharge rate m³/min	Total head m
75	25	25MSU3-5.4-16	16	0.4	3.7	0.02	30	0.036	25	0.045	19
		25MSU3-5.75-30	30	0.75	6.5	0.02	58	0.036	49	0.045	36

Well diameter 125 - 150mm / Pump bore 40mm (25mm)

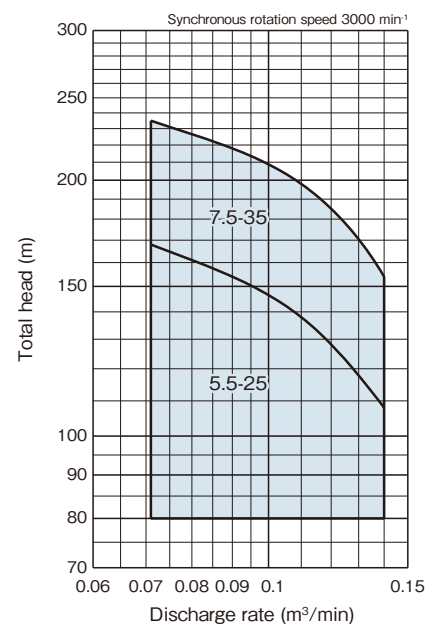
■ Selection chart



● For 125mm well (5B)



● For 150mm well (6B)



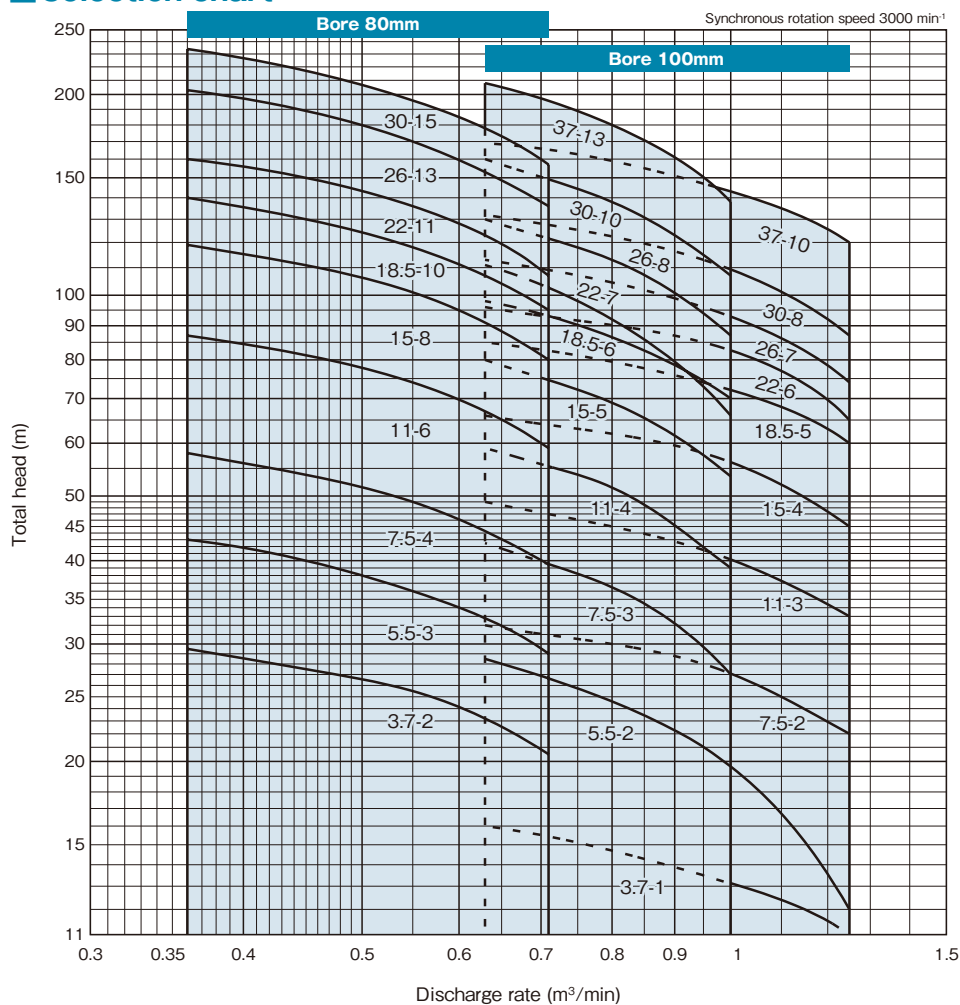
■ Specifications table

Well diameter (mm)	Bore (mm)	Type	No. of stages	Output (kW)	Rated current (A)	Specifications					
						Discharge rate m³/min	Total head m	Discharge rate m³/min	Total head m	Discharge rate m³/min	Total head m
125	(25) 40	40MSU5-51.5-7	7	1.5	8.4	0.071	47	0.11	38	0.14	28
		40MSU5-52.2-11	11	2.2	12.3	0.071	74	0.11	60	0.14	44
		40MSU5-53.7-18	18	3.7	19.7	0.071	120	0.11	96.5	0.14	72
150	(25) 40	40MSU6-55.5-25	25	5.5	26.5	0.071	168	0.11	138	0.14	108
		40MSU6-57.5-35	35	7.5	35	0.071	235	0.11	198	0.14	154

* Bore (25) is for control areas.

Well diameter 200mm / Pump bore 80 - 100mm

Selection chart



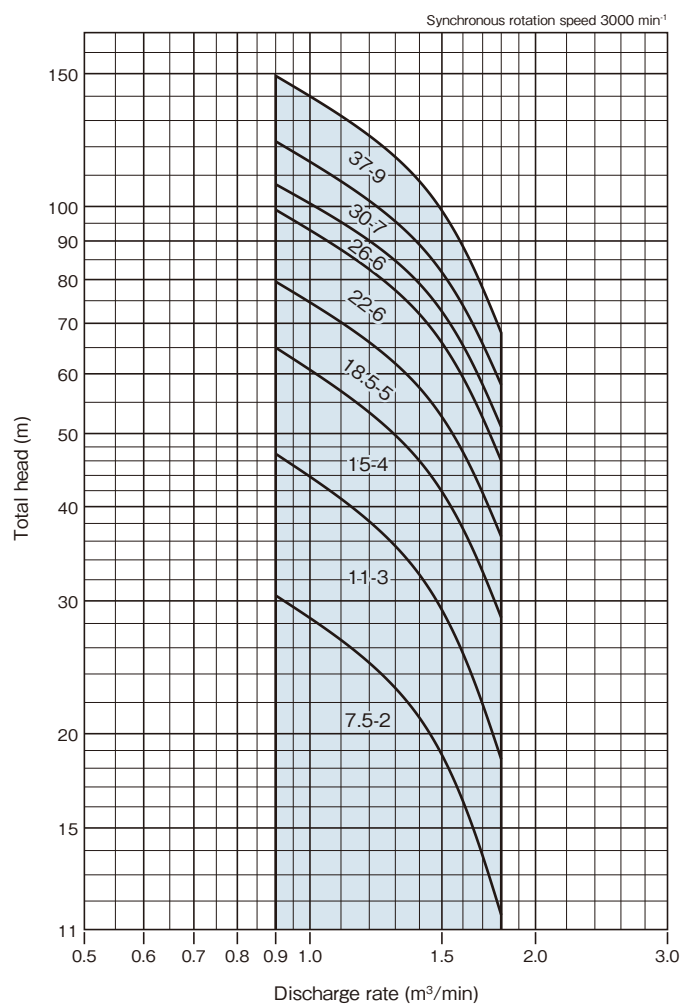
Specifications table

Synchronous rotation speed 3000 min⁻¹

Well diameter (mm)	Bore (mm)	Type	No. of stages	Output (kW)	Rated current (A)	Specifications					
						Discharge rate m ³ /min	Total head m	Discharge rate m ³ /min	Total head m	Discharge rate m ³ /min	Total head m
200	80	80MSU8-53.7-2	2	3.7	18.5	0.36	29.5	0.55	25.5	0.71	20.5
		80MSU8-55.5-3	3	5.5	26.5	0.36	43	0.55	36	0.71	29
		80MSU8-57.5-4	4	7.5	35	0.36	58	0.55	49	0.71	39.5
		80MSU8-511-6	6	11	52.5	0.36	87	0.55	74	0.71	59
		80MSU8-515-8	8	15	69	0.36	119	0.55	101	0.71	80
		80MSU8-518-10	10	18.5	84	0.36	140	0.55	118	0.71	95
		80MSU8-522-11	11	22	101	0.36	160	0.55	136	0.71	107
		80MSU8-526-13	13	26	114	0.36	203	0.55	170	0.71	136
	100	80MSU8-530-15	15	30	128	0.36	234	0.55	196	0.71	157
		100MSU8-53.7-1	1	3.7	18.5	0.63	16	0.95	13.5	1.25	11
		100MSU8-55.5-2	2	5.5	26.5	0.63	28.5	0.95	21	1.25	12
		100MSU8-57.5-2	2	7.5	35	0.63	32	0.95	28	1.25	22
		100MSU8-57.5-3	3	7.5	35	0.63	42.5	0.80	36.5	1.00	27
		100MSU8-511-3	3	11	52.5	0.63	49	0.95	41.5	1.25	33
		100MSU8-511-4	4	11	52.5	0.63	59	0.80	51.5	1.00	39
		100MSU8-515-4	4	15	69	0.63	66	0.95	58	1.25	45
		100MSU8-515-5	5	15	69	0.63	80	0.80	69	1.00	53.5
		100MSU8-518-5	5	18.5	84	0.63	85	0.95	74	1.25	60
		100MSU8-518-6	6	18.5	84	0.63	98	0.80	86.5	1.00	70
		100MSU8-522-6	6	22	101	0.63	96	0.95	85	1.25	65
		100MSU8-522-7	7	22	101	0.63	111	0.80	92	1.00	66
		100MSU8-526-7	7	26	114	0.63	113	0.95	96	1.25	74
		100MSU8-526-8	8	26	114	0.63	130	0.80	113	1.00	87
		100MSU8-530-8	8	30	128	0.63	132	0.95	113	1.25	87
		100MSU8-530-10	10	30	128	0.63	160	0.80	138	1.00	107
		100MSU8-537-10	10	37	155	0.63	169	0.95	147	1.25	120
		100MSU8-537-13	13	37	155	0.63	208	0.80	180	1.00	138

Well diameter 200mm / Pump bore 100mm

■ Selection chart



■ Specifications table

Synchronous rotation speed 3000 min⁻¹

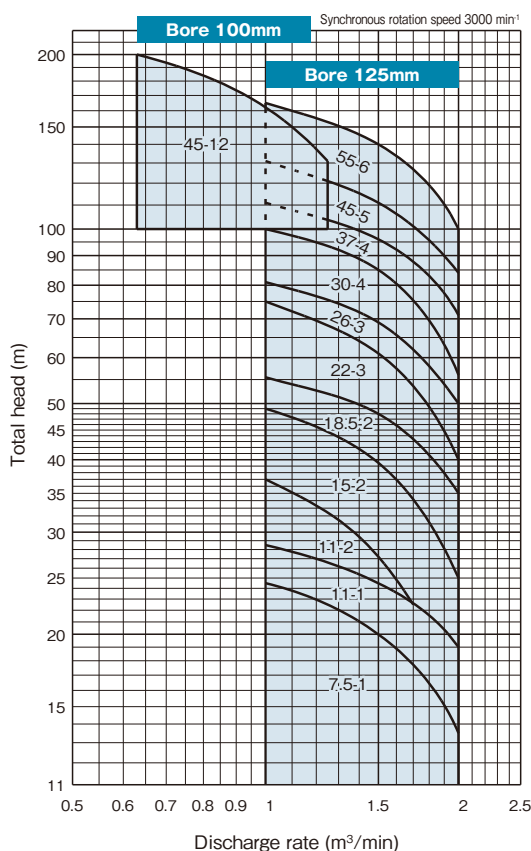
Well diameter (mm)	Bore (mm)	Type	No. of stages	Output (kW)	Rated current (A)	Specifications					
						Discharge rate m ³ /min	Total head m	Discharge rate m ³ /min	Total head m	Discharge rate m ³ /min	Total head m
200	100	100MSU8-57.5-2B	2	7.5	35	0.9	30.5	1.4	21	1.8	11.5
		100MSU8-511-3B	3	11	51.5	0.9	47	1.4	32.5	1.8	18.5
		100MSU8-515-4B	4	15	69.3	0.9	65	1.4	46	1.8	28.5
		100MSU8-518-5B	5	18.5	88	0.9	79.5	1.4	57.5	1.8	36.5
		100MSU8-522-6B	6	22	109	0.9	99	1.4	72	1.8	46
		100MSU8-526-6B	6	26	110	0.9	107	1.4	79	1.8	51
		100MSU8-530-7B	7	30	123	0.9	122	1.4	89	1.8	58
		100MSU8-537-9B	9	37	150	0.9	149	1.4	108	1.8	68

Well diameter 250 - 300mm / Pump bore 100 - 150mm

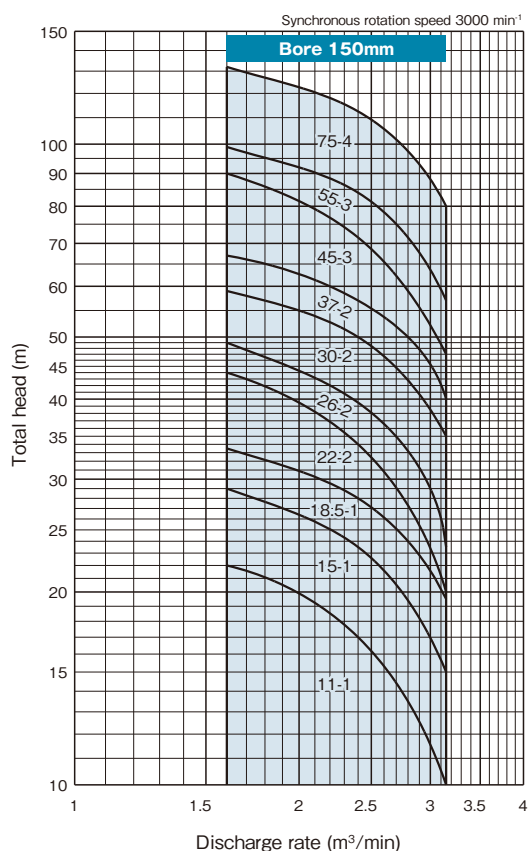
■ Selection chart



● For 250mm well (10B)



● For 300mm well (12B)



■ Specifications table

● For 250mm well (10B)

Synchronous rotation speed 3000 min⁻¹

Well diameter (mm)	Bore (mm)	Type	No. of stages	Output (kW)	Rated current (A)	Specifications					
						Discharge rate m³/min	Total head m	Discharge rate m³/min	Total head m	Discharge rate m³/min	Total head m
250	100	100MSU10-545-12	12	45	188	0.63	200	0.95	168	1.25	131
	125	125MSU10-57.5-1	1	7.5	35	1.00	24.5	1.50	20	2.00	13.5
		125MSU10-511-1	1	11	52.5	1.00	28.5	1.50	24.5	2.00	19
		125MSU10-511-2	2	11	52.5	1.00	37	1.35	30.5	1.70	22.5
		125MSU10-515-2	2	15	69	1.00	49	1.50	39.5	2.00	25
		125MSU10-518-2	2	18.5	84	1.00	55.5	1.50	48	2.00	35
		125MSU10-522-3	3	22	101	1.00	75	1.50	61	2.00	40
		125MSU10-526-3	3	26	114	1.00	81	1.50	69	2.00	50
		125MSU10-530-4	4	30	128	1.00	100	1.50	85	2.00	56
		125MSU10-537-4	4	37	155	1.00	111	1.50	96	2.00	71
		125MSU10-545-5	5	45	188	1.00	131	1.50	111	2.00	84
		125MSU10-555-6	6	55	230	1.00	165	1.50	140	2.00	100

● For 300mm well (12B)

Synchronous rotation speed 3000 min⁻¹

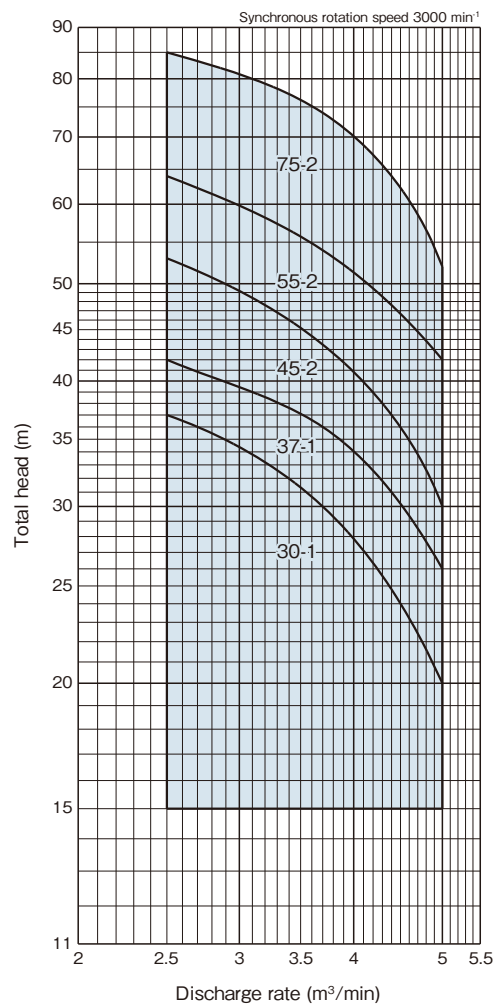
Well diameter (mm)	Bore (mm)	Type	No. of stages	Output (kW)	Rated current (A)	Specifications					
						Discharge rate m³/min	Total head m	Discharge rate m³/min	Total head m	Discharge rate m³/min	Total head m
300	150	150MSU12-511-1	1	11	52.5	1.60	22	2.40	17	3.15	10
		150MSU12-515-1	1	15	69	1.60	29	2.40	23.5	3.15	15
		150MSU12-518-1	1	18.5	84	1.60	33.5	2.40	28	3.15	19.5
		150MSU12-522-2	2	22	101	1.60	44	2.40	34	3.15	20
		150MSU12-526-2	2	26	114	1.60	49	2.40	39.5	3.15	23.5
		150MSU12-530-2	2	30	128	1.60	59	2.40	50	3.15	35
		150MSU12-537-2	2	37	155	1.60	67	2.40	57	3.15	40
		150MSU12-545-3	3	45	175	1.60	90	2.40	71.5	3.15	47
		150MSU12-555-3	3	55	210	1.60	99	2.40	84	3.15	57
		150MSU12-575-4	4	75	284	1.60	132	2.40	112.5	3.15	80

Well diameter 350 - 400mm / Pump bore 200 - 250mm

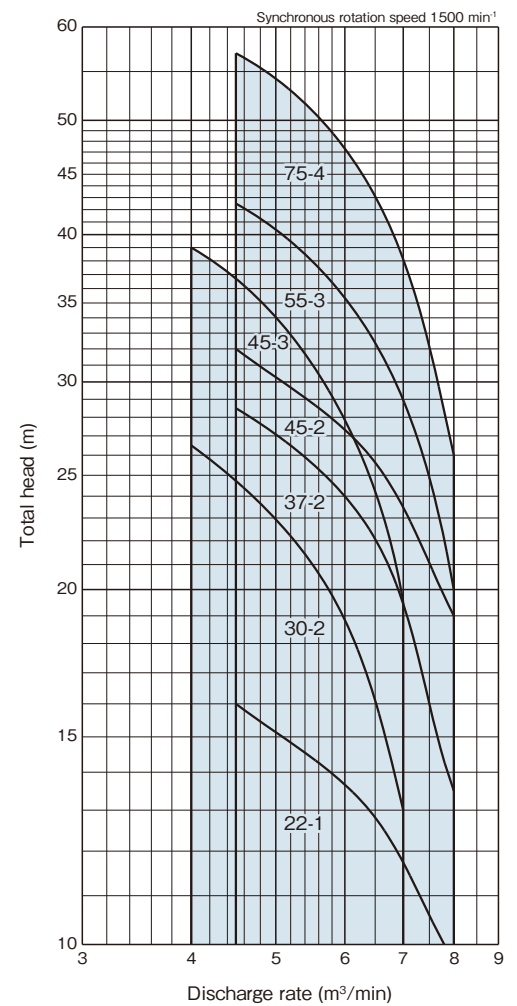
Selection chart



For 350mm well (14B)



For 400mm well (16B)



Specifications table

For 350mm well (14B)

Synchronous rotation speed 3000 min⁻¹

Well diameter (mm)	Bore (mm)	Type	No. of stages	Output (kW)	Rated current (A)	Specifications					
						Discharge rate m³/min	Total head m	Discharge rate m³/min	Total head m	Discharge rate m³/min	Total head m
350	200	200MSU14-530-1	1	30	128	2.5	37	3.7	30	5.0	20
		200MSU14-537-1	1	37	155	2.5	42	3.7	36	5.0	26
		200MSU14-545-2	2	45	175	2.5	53	3.7	43.5	5.0	30
		200MSU14-555-2	2	55	210	2.5	64	3.7	54	5.0	42
		200MSU14-575-2	2	75	284	2.5	85	3.7	74	5.0	52

For 400mm well (16B)

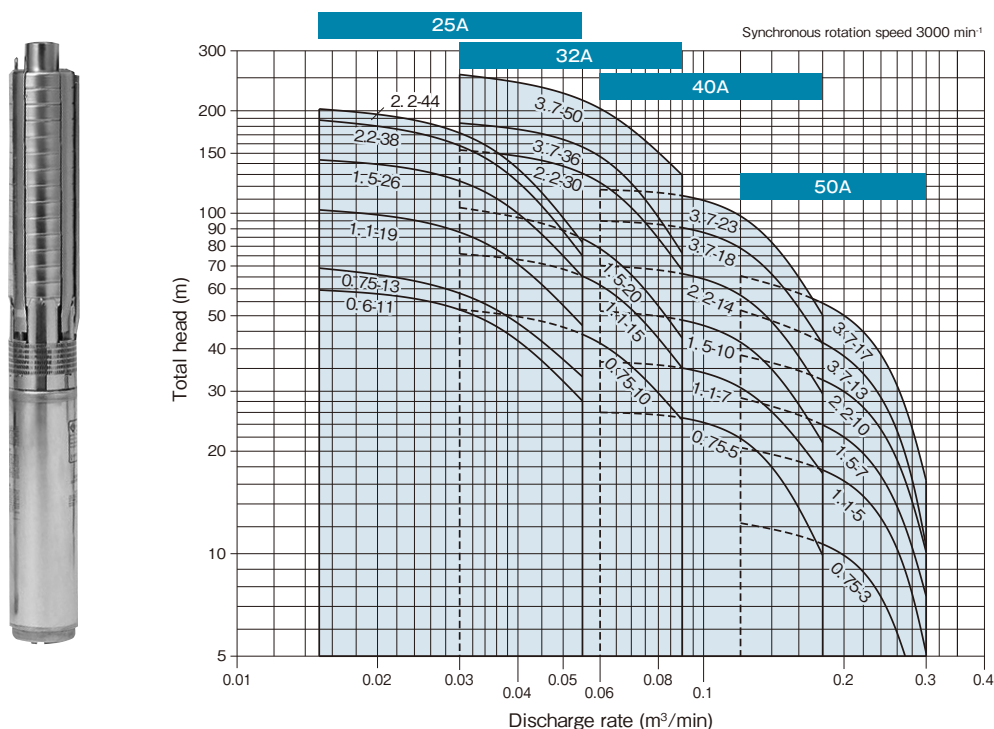
Synchronous rotation speed 1500 min⁻¹

Well diameter (mm)	Bore (mm)	Type	No. of stages	Output (kW)	Rated current (A)	Specifications					
						Discharge rate m³/min	Total head m	Discharge rate m³/min	Total head m	Discharge rate m³/min	Total head m
400	250	250MSU16-522-1	1	22	116	4.5	16	6.4	13	7.8	10
		250MSU16-530-2	2	30	144	4.0	26.5	5.75	20	7.0	13
		250MSU16-537-2	2	37	184	4.5	28.5	6.4	22.5	8.0	13.5
		250MSU16-545-2	2	45	212	4.5	32	6.4	26	8.0	19
		250MSU16-545-3	3	45	212	4.0	39	5.75	29.5	7.0	19.5
		250MSU16-555-3	3	55	138※	4.5	42.5	6.4	33	8.0	20
		250MSU16-575-4	4	75	160※	4.5	57	6.4	44	8.0	26

※ For 55kW or more, characteristic values at 400V are shown.

Well diameter 100mm / Pump bore 25 - 50mm

■ Selection chart



■ Specifications table

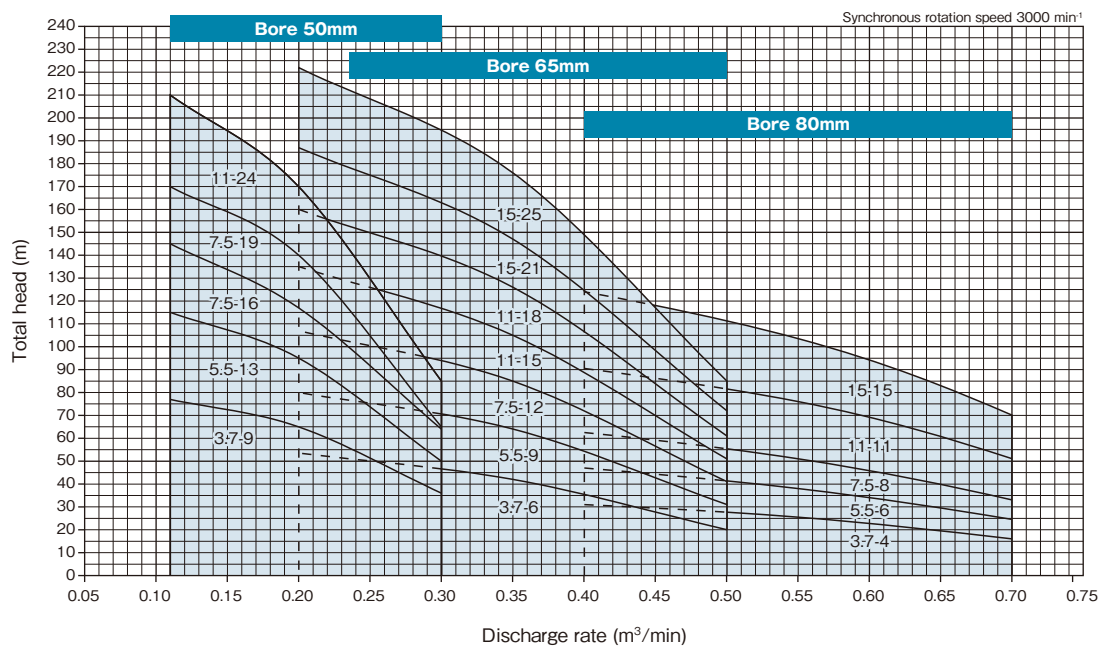
Synchronous rotation speed 3000 min⁻¹

Well diameter (mm)	Bore (mm)	Type	No. of stages	Output (kW)	Rated current (A)	Specifications	
						Discharge rate (m³/min)	Total head (m)
100	25	25MSUH4-5.6-11*	11	0.6	4.8	0.015	59.5
		25MSUH4-5.75-13*	13	0.75	6.1	0.015	69.0
		25MSUH4-5.1.1-19*	19	1.1	7.6	0.015	102.3
		25MSUH4-5.1.5-26	26	1.5	8.6	0.015	143.5
		25MSUH4-5.2.2-38	38	2.2	11.3	0.015	187.8
		25MSUH4-5.2.2-44	44	2.2	11.3	0.015	202.5
	32	32MSUH4-5.75-10*	10	0.75	6.1	0.03	52.2
		32MSUH4-5.1.1-15*	15	1.1	7.6	0.03	76.0
		32MSUH4-5.1.5-20	20	1.5	8.6	0.03	103.9
		32MSUH4-5.2.2-30	30	2.2	11.3	0.03	153.4
		32MSUH4-5.3.7-36	36	3.7	19.3	0.03	184.0
		32MSUH4-5.3.7-50	50	3.7	19.3	0.03	255.6
	40	40MSUH4-5.75-5*	5	0.75	6.1	0.06	26.0
		40MSUH4-5.1.1-7*	7	1.1	7.6	0.06	36.6
		40MSUH4-5.1.5-10	10	1.5	8.6	0.06	51.6
		40MSUH4-5.2.2-14	14	2.2	11.3	0.06	70.2
		40MSUH4-5.3.7-18	18	3.7	19.3	0.06	94.9
		40MSUH4-5.3.7-23	23	3.7	19.3	0.06	117.3
	50	50MSUH4-5.75-3*	3	0.75	6.1	0.12	12.3
		50MSUH4-5.1.1-5*	5	1.1	7.6	0.12	20.5
		50MSUH4-5.1.5-7	7	1.5	8.6	0.12	28.7
		50MSUH4-5.2.2-10	10	2.2	11.3	0.12	38.3
		50MSUH4-5.3.7-13	13	3.7	19.3	0.12	51.9
		50MSUH4-5.3.7-17	17	3.7	19.3	0.12	65.5

For the types marked with *, the motor output is 1.5kW.

Well diameter 150mm / Pump bore 50 - 80mm

■ Selection chart



■ Specifications table

Synchronous rotation speed 3000 min⁻¹

Well diameter (mm)	Bore (mm)	Type	No. of stages	Output (kW)	Rated current (A)	Specifications					
						Discharge rate m ³ /min	Total head m	Discharge rate m ³ /min	Total head m	Discharge rate m ³ /min	Total head m
150	50	50MSUH6-53.7-9	9	3.7	19.3	0.11	77	0.20	65	0.30	36
		50MSUH6-55.5-13	13	5.5	24.6	0.11	115	0.20	95	0.30	50
		50MSUH6-57.5-16	16	7.5	32.6	0.11	145	0.20	117	0.30	64
		50MSUH6-57.5-19	19	7.5	32.6	0.11	170	0.20	140	0.30	65
		50MSUH6-511-24	24	11	48.4	0.11	210	0.20	170	0.30	85
	65	65MSUH6-53.7-6	6	3.7	19.3	0.20	56	0.35	42	0.50	20
		65MSUH6-55.5-9	9	5.5	24.6	0.20	84	0.35	64.5	0.50	30
		65MSUH6-57.5-12	12	7.5	32.6	0.20	112	0.35	86	0.50	40
		65MSUH6-511-15	15	11	48.4	0.20	140	0.35	105	0.50	50
		65MSUH6-511-18	18	11	48.4	0.20	168	0.35	126	0.50	60
		65MSUH6-515-21	21	15	66	0.20	196	0.35	147	0.50	70
		65MSUH6-515-25	25	15	66	0.20	233	0.35	179	0.50	83
	80	80MSUH6-53.7-4	4	3.7	17	0.40	31	0.55	25.5	0.70	16
		80MSUH6-55.5-6	6	5.5	24.6	0.40	47	0.55	38	0.70	24.5
		80MSUH6-57.5-8	8	7.5	32.6	0.40	62.5	0.55	51	0.70	33
		80MSUH6-511-11	11	11	48.4	0.40	90.5	0.55	76	0.70	51
		80MSUH6-515-15	15	15	66	0.40	124	0.55	103.5	0.70	70

Well diameter 100mm / Pump bore 25 - 50mm

■ Assembly drawing

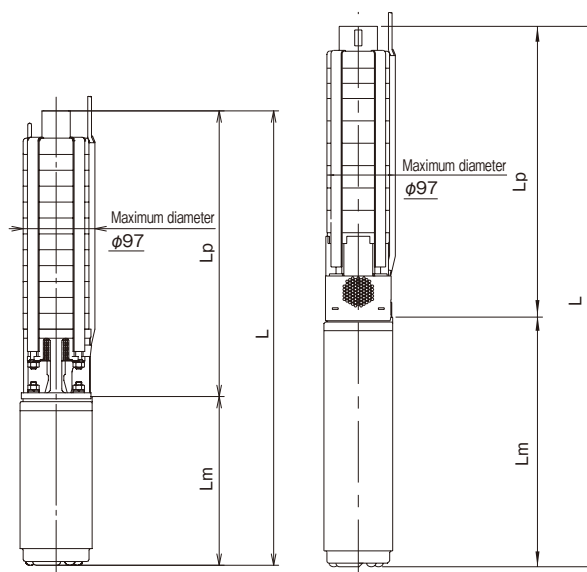


Fig. 1

Fig. 2

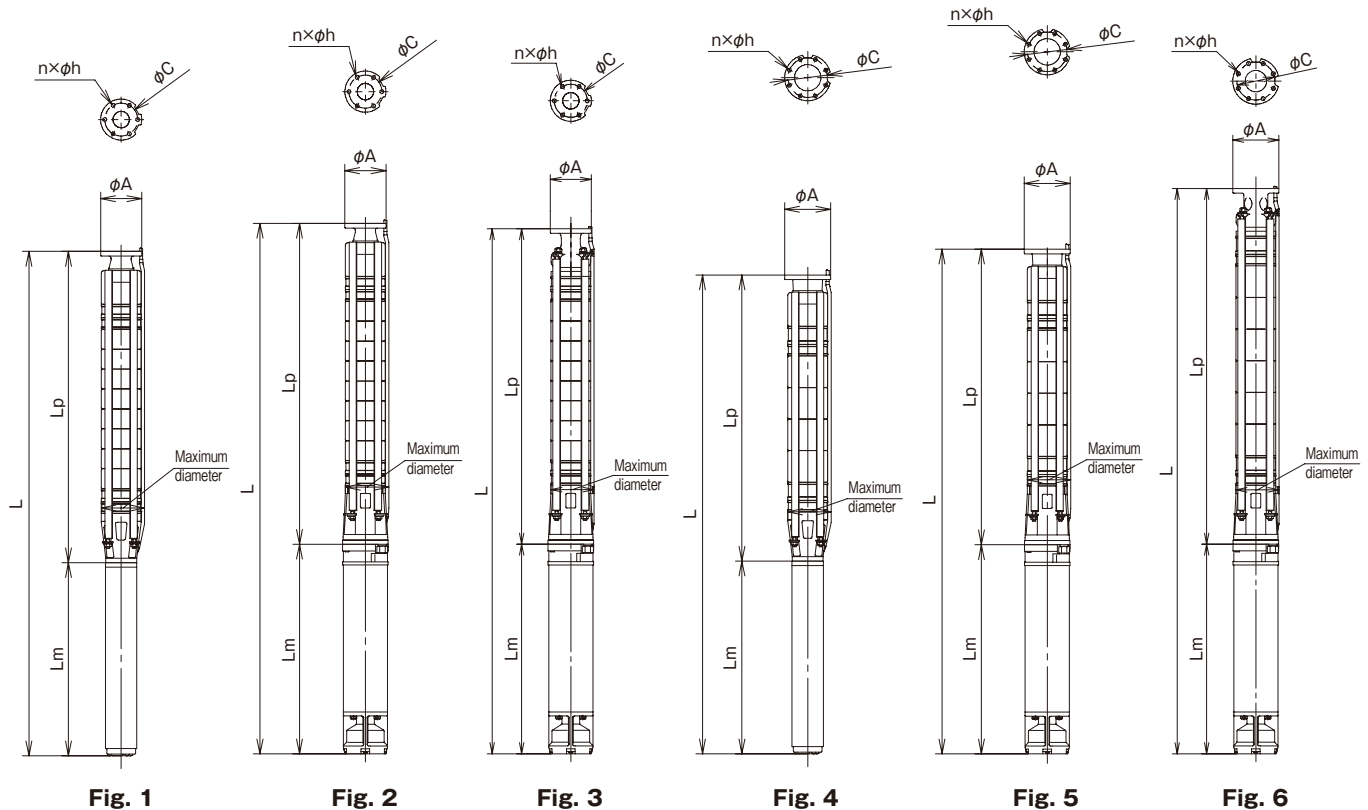
■ Dimensions

Well diameter (mm)	Bore (mm)	Type	Output (kW)	Discharge size	Outer dimensions (mm)			Approx. mass (kg)	Fig.
					L	Lp	Lm		
100	25	25MSUS4-5.6-11	0.6	Rc1	680	438	242	12	1
		25MSUS4-5.75-13	0.75	Rc1	772	480	292	16	
		25MSUS4-5.11-19	1.1	Rc1	919	627	292	18	
		25MSUS4-5.15-26	1.5	Rc1	1113	774	339	21	
		25MSUS4-5.19-38	1.9	Rc1	1426	1047	379	27	
	(25) 32	25MSUS4-5.22-44	2.2	Rc1	1552	1173	379	29	1
		32MSUS4-5.75-10	0.75	Rc1 1/4	709	417	292	15	
		32MSUS4-5.11-15	1.1	Rc1 1/4	814	522	292	17	
		32MSUS4-5.15-13	1.5	Rc1 1/4	819	480	339	19	
		32MSUS4-5.15-15	1.5	Rc1 1/4	861	522	339	19	
		32MSUS4-5.15-18	1.5	Rc1 1/4	945	606	339	20	
		32MSUS4-5.15-20	1.5	Rc1 1/4	987	648	339	20	
		32MSUS4-5.19-25	1.9	Rc1 1/4	1132	753	379	23	
	(25) (32) 40	32MSUS4-5.22-30	2.2	Rc1 1/4	1237	858	379	23	2
		32MSUS4-5.27-36	2.7	Rc1 1/4	1576	1005	571	32	
		32MSUS4-5.37-50	3.7	Rc1 1/4	1891	1320	571	35	
		40MSUS4-5.75-5	0.75	Rc1 1/2	692	400	292	15	
		40MSUS4-5.11-7	1.1	Rc1 1/2	754	462	292	16	
		40MSUS4-5.15-10	1.5	Rc1 1/2	894	555	339	19	
		40MSUS4-5.19-12	1.9	Rc1 1/2	1027	648	379	21	
		40MSUS4-5.22-14	2.2	Rc1 1/2	1089	710	379	22	
	(25) (32) 50	40MSUS4-5.27-16	2.7	Rc1 1/2	1343	772	571	28	2
		40MSUS4-5.37-18	3.7	Rc1 1/2	1405	834	571	29	
		40MSUS4-5.37-23	3.7	Rc1 1/2	1591	1020	571	30	
		50MSUS4-5.75-3	0.75	Rc2	676	384	292	15	
		50MSUS4-5.11-5	1.1	Rc2	766	474	292	17	
		50MSUS4-5.15-7	1.5	Rc2	903	564	339	20	
		50MSUS4-5.19-8	1.9	Rc2	1023	644	379	22	
		50MSUS4-5.22-10	2.2	Rc2	1113	734	379	23	
		50MSUS4-5.27-12	2.7	Rc2	1395	824	571	29	
		50MSUS4-5.37-13	3.7	Rc2	1440	869	571	29	
		50MSUS4-5.37-17	3.7	Rc2	1655	1084	571	31	

* Bore (25), (32) is for control areas.

Well diameter 150mm / Pump bore 50 - 80mm Impeller made of SUS304

■ Assembly drawing



■ Flange dimensions (unit: mm)

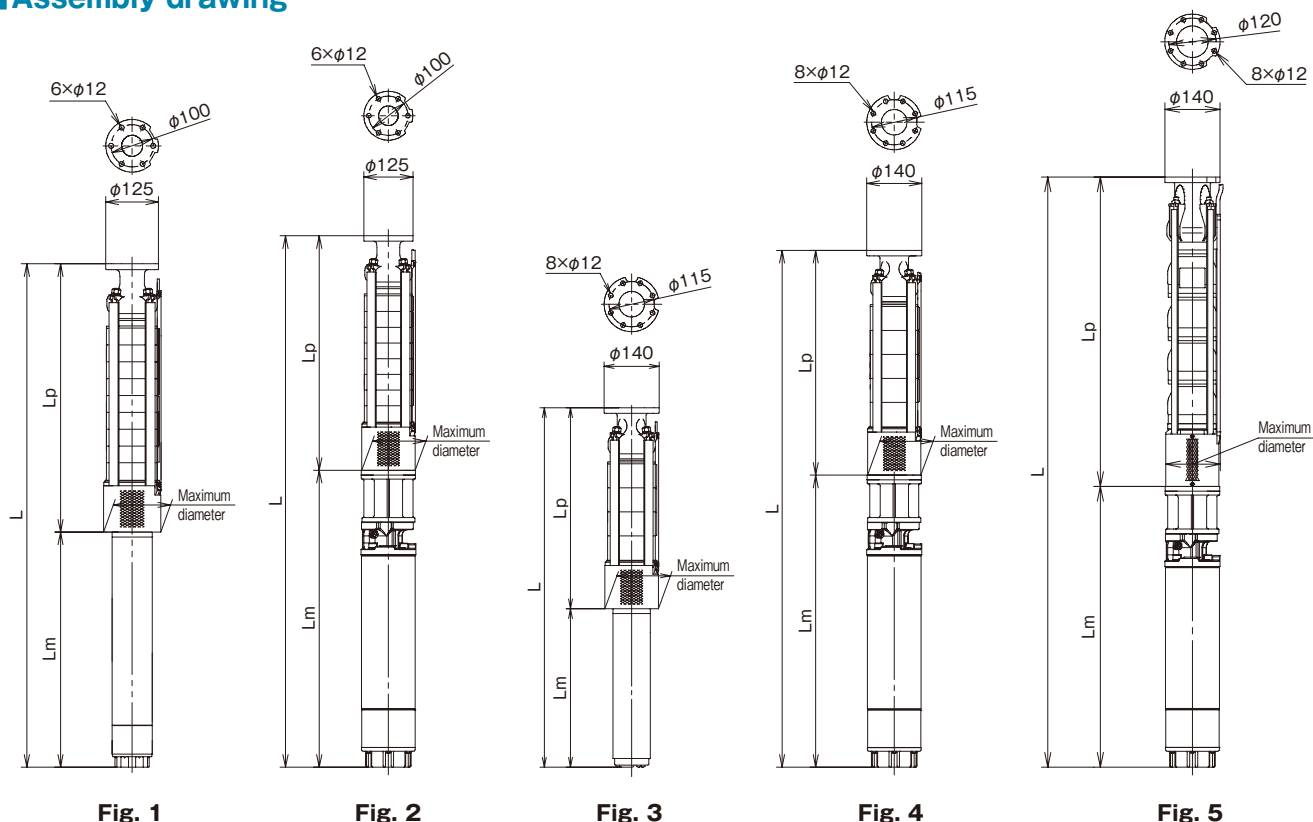
Bore	A	C	n	h	Fig.
50	125	100	6	12	1-2-3
65	140	115	8	12	4-5-6
80	140	120	8	12	4-5-6

■ Dimensions

Well diameter (mm)	Bore (mm)	Type	Output (kW)	Outer dimensions (mm)				Lead wire (mm ²)	Approx. mass (kg)	Fig.
				L	Lp	Lm	Maximum diameter			
150	50	50A-MSUS6-52.2-5	2.2	1143	766	377	φ135	2	39	1
		50A-MSUS6-52.7-6	2.7	1394	826	568	φ135	2	44	
		50A-MSUS6-53.7-8	3.7	1515	947	568	φ135	2	47	
		50A-MSUS6-55.5-11	5.5	1794	1158	636	φ142	8	78	2
		50A-MSUS6-57.5-15	7.5	2101	1400	701	φ142	8	89	
	65	50A-MSUS6-511-22	11	2646	1880	766	φ142	8	112	3
		65A-MSUS6-52.2-5	2.2	1138	761	377	φ141	2	39	4
		65A-MSUS6-52.7-6	2.7	1389	821	568	φ141	2	44	
		65A-MSUS6-53.7-8	3.7	1510	942	568	φ141	2	47	
		65A-MSUS6-55.5-11	5.5	1789	1153	636	φ142	8	78	5
		65A-MSUS6-57.5-15	7.5	2096	1395	701	φ142	8	89	
		65A-MSUS6-511-22	11	2646	1880	766	φ143	8	115	6
		65A-MSUS6-515-29	15	3136	2304	832	φ143	8	132	
		65B-MSUS6-52.2-3	2.2	1153	776	377	φ141	2	39	4
		65B-MSUS6-52.7-4	2.7	1440	872	568	φ141	2	44	
		65B-MSUS6-53.7-5	3.7	1536	968	568	φ141	2	46	
		65B-MSUS6-55.5-8	5.5	1921	1285	636	φ142	8	82	5
		65B-MSUS6-57.5-10	7.5	2178	1477	701	φ142	8	91	
		65B-MSUS6-511-14	11	2704	1938	766	φ142	8	115	6
		65B-MSUS6-515-18	15	3154	2322	832	φ142	8	130	
	80	80B-MSUS6-53.7-5	3.7	1552	984	568	φ141	2	47	4
		80B-MSUS6-55.5-8	5.5	1937	1301	636	φ142	8	83	5
		80B-MSUS6-57.5-10	7.5	2194	1493	701	φ142	8	92	
		80B-MSUS6-511-14	11	2789	2023	766	φ142	8	119	6
		80B-MSUS6-515-18	15	3239	2407	832	φ142	8	135	

Well diameter 150mm / Pump bore 50 - 80mm Impeller made of SCS13

■ Assembly drawing



■ Dimensions

Well diameter (mm)	Bore (mm)	Type	Output (kW)	Outer dimensions (mm)				Lead wire (mm ²)	Approx. mass (kg)	Fig.
				L	Lp	Lm	Maximum diameter			
150	50	50MSUS6-51.9-5	1.9	853	478	375	φ139	2	32	1
		50MSUS6-52.2-6	2.2	893	518	375	φ139	2	33	
		50MSUS6-52.7-7	2.7	1124	558	566	φ139	2	42	
		50MSUS6-53.7-9	3.7	1204	638	566	φ139	2	45	2
		50MSUS6-55.5-13	5.5	1554	798	756	φ139	8	81	
		50MSUS6-57.5-16	7.5	1739	918	821	φ139	8	91	
		50MSUS6-57.5-19	7.5	1859	1038	821	φ139	8	96	
	65	50MSUS6-511-24	11	2124	1238	886	φ142	8	109	3
		65MSUS6-52.2-4	2.2	887	512	375	φ140	2	32	
		65MSUS6-52.7-5	2.7	1139	573	566	φ140	2	42	
		65MSUS6-53.7-6	3.7	1200	634	566	φ140	2	44	4
		65MSUS6-55.5-9	5.5	1573	817	756	φ140	8	80	
		65MSUS6-57.5-12	7.5	1821	1000	821	φ140	8	91	
		65MSUS6-511-15	11	2069	1183	886	φ142	8	104	
		65MSUS6-511-18	11	2252	1366	886	φ142	8	110	
		65MSUS6-515-21	15	2500	1549	951	φ142	8	123	
		65MSUS6-515-25	15	2809	1793	1016	φ142	8	140	
	80	80MSUS6-53.7-4	3.7	1509	785	724	φ141	8	76	5
		80MSUS6-55.5-6	5.5	1761	1005	756	φ141	8	86	
		80MSUS6-57.5-8	7.5	2046	1225	821	φ141	8	99	
		80MSUS6-511-11	11	2591	1705	886	φ142	8	121	
		80MSUS6-515-15	15	3096	2145	951	φ142	8	143	

Well diameter 200mm / Pump bore 80mm Impeller made of SUS304

■ Assembly drawing

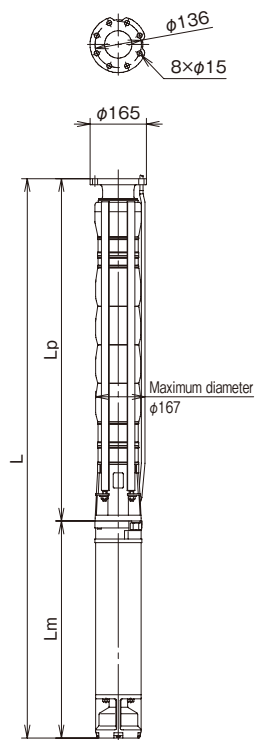


Fig. 1

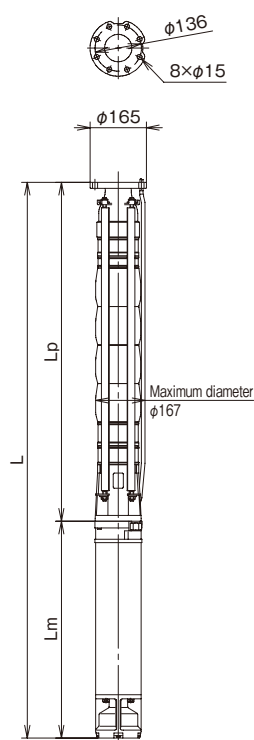


Fig. 2

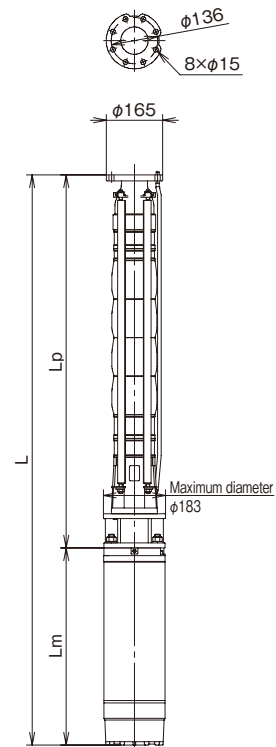


Fig. 3

■ Dimensions

Well diameter (mm)	Bore (mm)	Type	Output (kW)	Outer dimensions (mm)			Lead wire (mm ²)	Approx. mass (kg)	Fig.
				L	Lp	Lm			
200	80	80C-MSUS8-53.7-3	3.7	1508	904	604	8	73	1
		80C-MSUS8-55.5-5	5.5	1766	1130	636	8	80	
		80C-MSUS8-57.5-6	7.5	1944	1243	701	8	88	
		80C-MSUS8-511-9	11	2473	1707	766	8	106	
		80C-MSUS8-515-12	15	2877	2046	831	8	120	2
		80C-MSUS8-518-14	18.5	3158	2262	896	8	135	
		80C-MSUS8-522-16	22	3343	2575	768	5.5	174	3
		80C-MSUS8-526-19	26	4037	3039	998	8	212	
		80C-MSUS8-530-21	30	4263	3265	998	8	218	
		80C-MSUS8-537-26	37	4893	3830	1063	14	246	

Well diameter 200mm / Pump bore 80 - 100mm Impeller made of SCS13

■ Assembly drawing

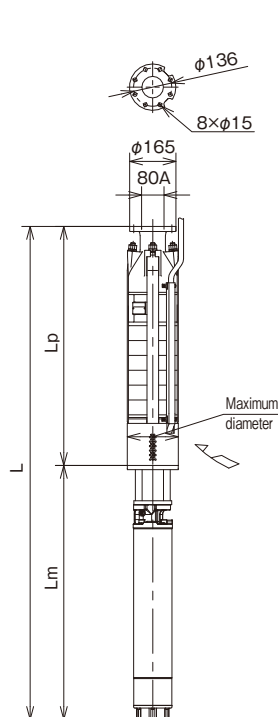


Fig. 1

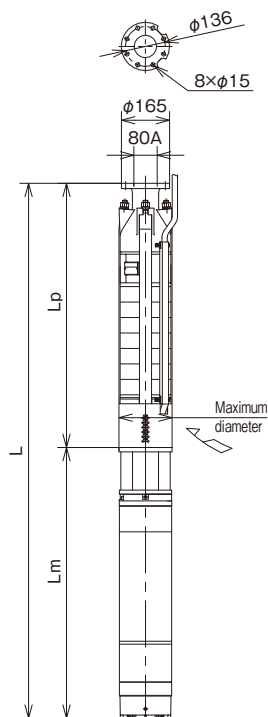


Fig. 2

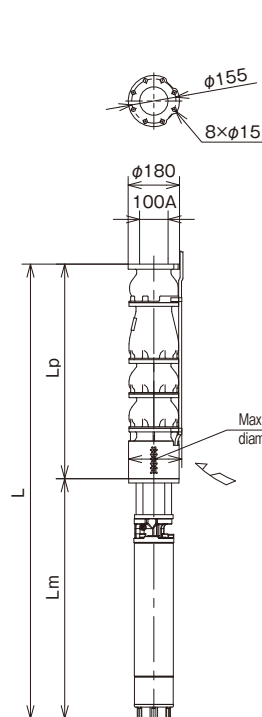


Fig. 3

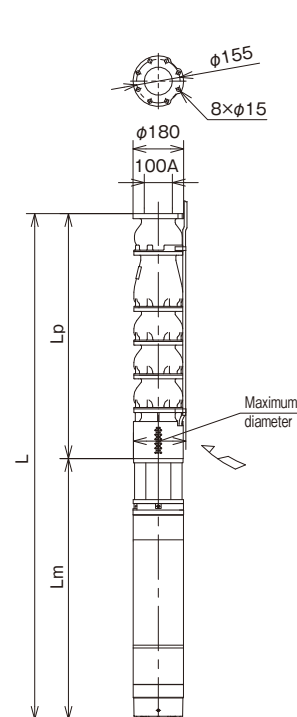


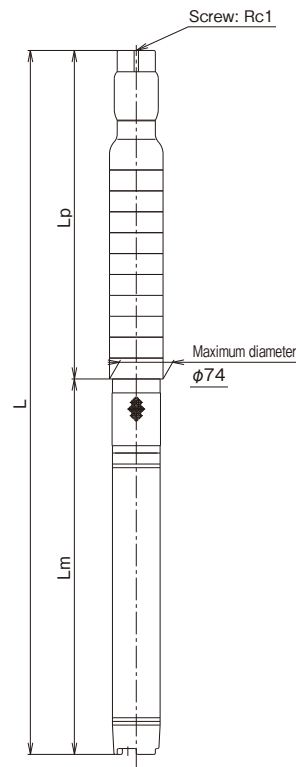
Fig. 4

■ Dimensions

Well diameter (mm)	Bore (mm)	Type	Output (kW)	Outer dimensions (mm)				Lead wire (mm ²)	Approx. mass (kg)	Fig.
				L	Lp	Lm	Maximum diameter			
200	80	80MSUS8-53.7-2	3.7	1385	641	744	φ191	8	90	1
		80MSUS8-55.5-3	5.5	1469	693	776	φ191	8	103	
		80MSUS8-57.5-4	7.5	1588	747	841	φ191	8	105	
		80MSUS8-511-6	11	1759	853	906	φ191	8	120	
		80MSUS8-515-8	15	1929	958	971	φ191	8	136	2
		80MSUS8-518-10	18.5	2101	1065	1036	φ191	8	149	
		80MSUS8-522-12	22	2099	1171	928	φ191	5.5	192	
		80MSUS8-526-14	26	2435	1277	1158	φ193	8	226	
	100	100MSUS8-53.7-1	3.7	1256	512	744	φ190	8	90	3
		100MSUS8-55.5-2	5.5	1408	632	776	φ190	8	102	
		100MSUS8-57.5-3	7.5	1593	752	841	φ190	8	116	
		100MSUS8-511-4	11	1778	872	906	φ190	8	132	
		100MSUS8-515-5	15	1963	992	971	φ190	8	148	4
		100MSUS8-518-6	18.5	2148	1112	1036	φ190	8	162	
		100MSUS8-522-7	22	2160	1232	928	φ190	5.5	207	
		100MSUS8-526-8	26	2630	1472	1158	φ194	8	252	
		100MSUS8-530-10	30	2870	1712	1158	φ194	8	272	4
		100MSUS8-537-12	37	3175	1952	1223	φ194	14	306	

Well diameter 75mm / Pump bore 25mm

■ Assembly drawing



■ Dimensions

Well diameter (mm)	Bore (mm)	Type	Output (kW)	Outer dimensions (mm)			Approx. mass (kg)
				L	Lm	Lp	
75	25	25MSU3-5.4-16	0.4	1132	541	591	22
		25MSU3-5.75-30	0.75	1631	641	990	30

Well diameter 125 - 150mm / Pump bore 40mm (25mm)

■ Assembly drawing

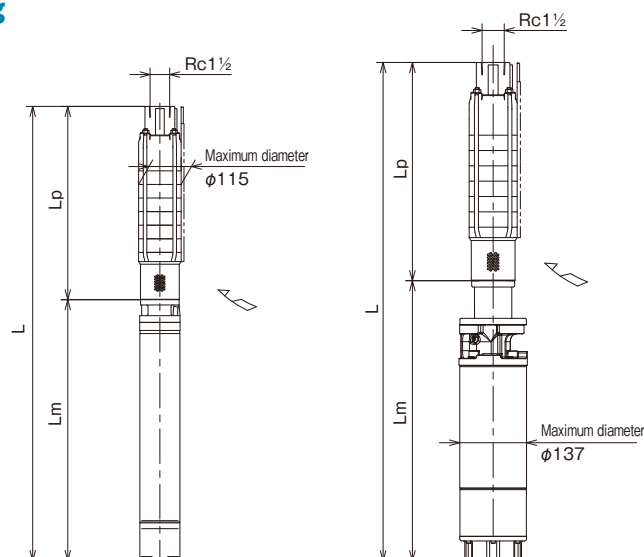


Fig. 1

Fig. 2

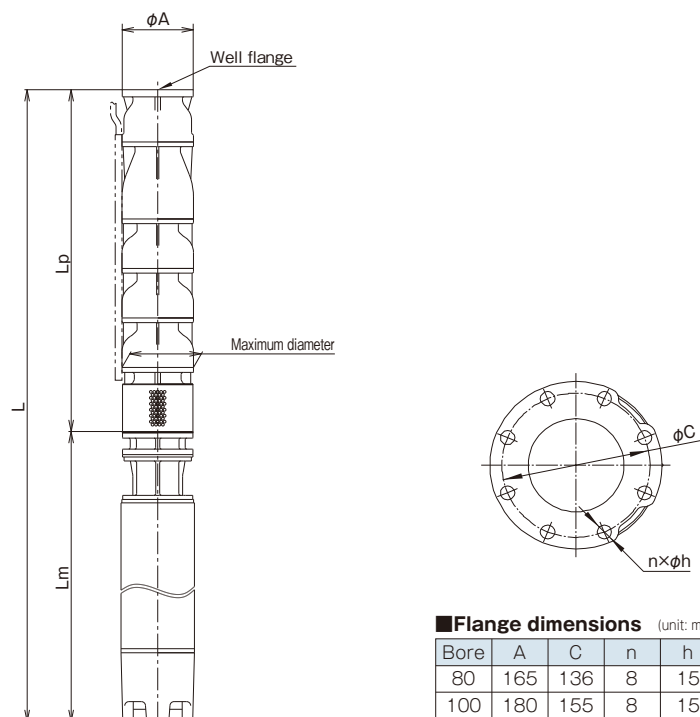
■ Dimensions

Well diameter (mm)	Bore (mm)	Type	Output (kW)	Outer dimensions (mm)			Lead wire (mm ²)	Approx. mass (kg)	Fig.
				L	Lp	Lm			
125	(25) 40	40MSU5-51.5-7	1.5	906	441	465	1.25	29	1
		40MSU5-52.2-11	2.2	1090	565	525	1.25	36	
		40MSU5-53.7-18	3.7	1387	782	605	1.25	47	
150	(25) 40	40MSU6-55.5-25	5.5	1725	999	726	8	75	2
		40MSU6-57.5-35	7.5	2250	1459	791	8	95	

* Bore (25) is for control areas.

Well diameter 200mm / Pump bore 80 - 100mm

■ Assembly drawing



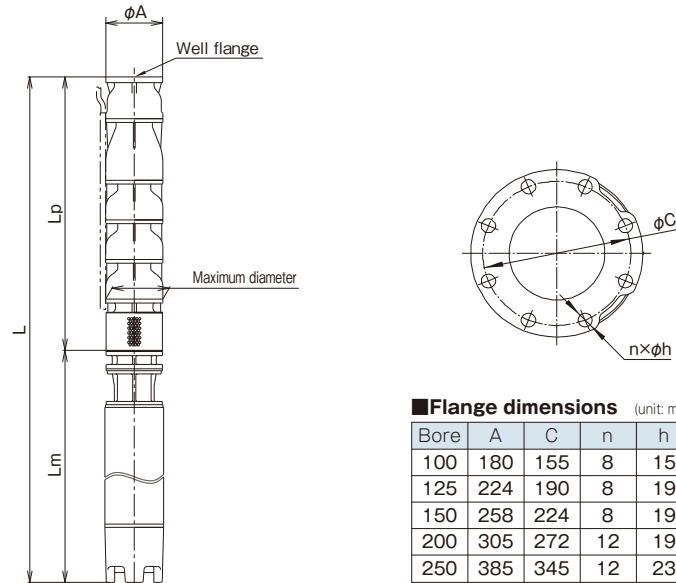
■ Dimensions

Well diameter (mm)	Bore (mm)	Type	Output (kW)	Outer dimensions (mm)				Lead wire (mm ²)	Approx. mass (kg)
				L	Lp	Lm	Maximum diameter		
200	80	80MSU8-53.7-2	3.7	1355	632	723	$\phi 189$	8	100
		80MSU8-55.5-3	5.5	1507	752	755	$\phi 189$	8	119
		80MSU8-57.5-4	7.5	1692	872	820	$\phi 189$	8	135
		80MSU8-511-6	11	1997	1112	885	$\phi 189$	8	161
		80MSU8-515-8	15	2422	1472	950	$\phi 189$	8	197
		80MSU8-518-10	18.5	2727	1712	1015	$\phi 189$	8	225
		80MSU8-522-11	22	3012	1832	1180	$\phi 189$	8	315
		80MSU8-526-13	26	3402	2112	1290	$\phi 189$	8	347
		80MSU8-530-15	30	3642	2352	1290	$\phi 189$	8	370
	100	100MSU8-53.7-1	3.7	1235	512	723	$\phi 189$	8	88
		100MSU8-55.5-2	5.5	1387	632	755	$\phi 189$	8	107
		100MSU8-57.5-2	7.5	1452	632	820	$\phi 189$	8	111
		100MSU8-57.5-3	7.5	1572	752	820	$\phi 189$	8	123
		100MSU8-511-3	11	1637	752	885	$\phi 189$	8	126
		100MSU8-511-4	11	1757	872	885	$\phi 189$	8	138
		100MSU8-515-4	15	1822	872	950	$\phi 189$	8	144
		100MSU8-515-5	15	1942	992	950	$\phi 189$	8	155
		100MSU8-518-5	18.5	2007	992	1015	$\phi 189$	8	161
		100MSU8-518-6	18.5	2127	1112	1015	$\phi 189$	8	173
		100MSU8-522-6	22	2292	1112	1180	$\phi 189$	8	252
		100MSU8-522-7	22	2412	1232	1180	$\phi 189$	8	263
		100MSU8-526-7	26	2522	1232	1290	$\phi 189$	8	278
		100MSU8-526-8	26	2762	1472	1290	$\phi 189$	8	297
		100MSU8-530-8	30	2762	1472	1290	$\phi 189$	8	297
		100MSU8-530-10	30	3002	1712	1290	$\phi 189$	8	319
		100MSU8-537-10	37	3062	1712	1350	$\phi 193$	14	334
		100MSU8-537-13	37	3462	2112	1350	$\phi 193$	14	365

Well diameter (mm)	Bore (mm)	Type	Outer dimensions (mm)				Approx. mass (kg)
			L	Lm	LP	Maximum diameter	
200	100	100MSU8-57.5-2B	Please consult us.				
		100MSU8-511-3B					
		100MSU8-515-4B					
		100MSU8-518-5B					
		100MSU8-522-6B					
		100MSU8-526-6B					
		100MSU8-530-7B					
		100MSU8-537-9B					

Well diameter 250 - 400mm / Pump bore 100 - 250mm

■ Assembly drawing



■ Flange dimensions (unit: mm)

Bore	A	C	n	h
100	180	155	8	15
125	224	190	8	19
150	258	224	8	19
200	305	272	12	19
250	385	345	12	23

■ Dimensions

● For 250mm well (10B)

Well diameter (mm)	Bore (mm)	Type	Output (kW)	Outer dimensions (mm)				Lead wire (mm ²)	Approx. mass (kg)
				L	L _p	L _m	Maximum diameter		
250	100	100MSU10-545-12	45	3472	1992	1480	$\phi 216$	22	448
	125	125MSU10-57.5-1	7.5	1365	535	830	$\phi 240$	8	123
		125MSU10-511-1	11	1430	535	895	$\phi 240$	8	130
		125MSU10-511-2	11	1575	680	895	$\phi 240$	8	150
		125MSU10-515-2	15	1640	680	960	$\phi 240$	8	156
		125MSU10-518-2	18.5	1705	680	1025	$\phi 240$	8	162
		125MSU10-522-3	22	2085	825	1260	$\phi 240$	8	266
		125MSU10-526-3	26	2195	825	1370	$\phi 245$	8	285
		125MSU10-530-4	30	2340	970	1370	$\phi 245$	8	305
		125MSU10-537-4	37	2400	970	1430	$\phi 245$	14	320
		125MSU10-545-5	45	2517	1115	1402	$\phi 245$	22	411
		125MSU10-555-6	55	2732	1260	1472	$\phi 245$	22	446

● For 300mm well (12B)

Well diameter (mm)	Bore (mm)	Type	Output (kW)	Outer dimensions (mm)				Lead wire (mm ²)	Approx. mass (kg)
				L	L _p	L _m	Maximum diameter		
300	150	150MSU12-511-1	11	1602	707	895	$\phi 275$	8	155
		150MSU12-515-1	15	1667	707	960	$\phi 275$	8	173
		150MSU12-518-1	18.5	1732	707	1025	$\phi 275$	8	214
		150MSU12-522-2	22	2147	887	1260	$\phi 275$	8	305
		150MSU12-526-2	26	2257	887	1370	$\phi 275$	8	305
		150MSU12-530-2	30	2257	887	1370	$\phi 275$	8	320
		150MSU12-537-2	37	2317	887	1430	$\phi 280$	14	356
		150MSU12-545-3	45	2324	1067	1257	$\phi 288$	22	434
		150MSU12-555-3	55	2389	1067	1322	$\phi 288$	22	496
		150MSU12-575-4	75	2839	1247	1592	$\phi 288$	38	660

● For 350mm well (14B)

Well diameter (mm)	Bore (mm)	Type	Output (kW)	Outer dimensions (mm)				Lead wire (mm ²)	Approx. mass (kg)
				L	L _p	L _m	Maximum diameter		
350	200	200MSU14-530-1	30	2220	850	1370	$\phi 322$	8	338
		200MSU14-537-1	37	2280	850	1430	$\phi 322$	14	358
		200MSU14-545-2	45	2327	1070	1257	$\phi 322$	22	463
		200MSU14-555-2	55	2392	1070	1322	$\phi 322$	22	525
		200MSU14-575-2	75	2582	1070	1512	$\phi 322$	38	650

● For 400mm well (16B)

Well diameter (mm)	Bore (mm)	Type	Output (kW)	Outer dimensions (mm)				Lead wire (mm ²)	Approx. mass (kg)
				L	L _p	L _m	Maximum diameter		
400	250	250MSU16-522-1	22	2215	985	1230	$\phi 387$	Please consult us.	
		250MSU16-530-2	30	2500	1250	1250	$\phi 387$		
		250MSU16-537-2	37	2770	1250	1520	$\phi 387$		
		250MSU16-545-2	45	2770	1250	1520	$\phi 387$		
		250MSU16-545-3	45	3035	1515	1520	$\phi 387$		
		250MSU16-555-3	55	3285	1515	1770	$\phi 387$		
		250MSU16-575-4	75	3210	1780	1430	$\phi 387$		

Well diameter 100mm / Pump bore 25 - 50mm

■ Assembly drawing

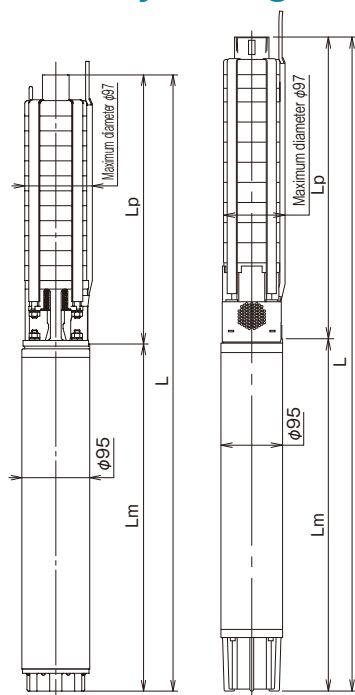


Fig. 1

Fig. 2

■ Dimensions

Well diameter (mm)	Bore (mm)	Type	Output (kW)	Discharge size	Outer dimensions (mm)			Approx. mass (kg)	Fig.
					L	Lp	Lm		
100	25	25MSUH4-5.6-11	0.6	Rc1	925	438	487	22	1
		25MSUH4-5.75-13	0.75	Rc1	967	480	487	23	
		25MSUH4-51.1-19	1.1	Rc1	1114	627	487	25	
		25MSUH4-51.5-26	1.5	Rc1	1261	774	487	26	
		25MSUH4-52.2-38	2.2	Rc1	1553	1047	506	31	
		25MSUH4-52.2-44	2.2	Rc1	1679	1173	506	33	
	32	32MSUH4-5.75-10	0.75	Rc1 1/4	904	417	487	22	
		32MSUH4-51.1-15	1.1	Rc1 1/4	1009	522	487	24	
		32MSUH4-51.5-20	1.5	Rc1 1/4	1135	648	487	25	
		32MSUH4-52.2-30	2.2	Rc1 1/4	1364	858	506	27	
		32MSUH4-53.7-36	3.7	Rc1 1/4	1588	1005	583	34	
		32MSUH4-53.7-50	3.7	Rc1 1/4	1903	1320	583	36	
	40	40MSUH4-5.75-5	0.75	Rc1 1/2	887	400	487	22	2
		40MSUH4-51.1-7	1.1	Rc1 1/2	949	462	487	23	
		40MSUH4-51.5-10	1.5	Rc1 1/2	1042	555	487	24	
		40MSUH4-52.2-14	2.2	Rc1 1/2	1216	710	506	26	
		40MSUH4-53.7-18	3.7	Rc1 1/2	1417	834	583	30	
		40MSUH4-53.7-23	3.7	Rc1 1/2	1603	1020	583	31	
	50	50MSUH4-5.75-3	0.75	Rc2	871	384	487	22	
		50MSUH4-51.1-5	1.1	Rc2	961	474	487	24	
		50MSUH4-51.5-7	1.5	Rc2	1051	564	487	25	
		50MSUH4-52.2-10	2.2	Rc2	1240	734	506	27	
		50MSUH4-53.7-13	3.7	Rc2	1452	869	583	30	
		50MSUH4-53.7-17	3.7	Rc2	1667	1084	583	32	

Well diameter 150mm / Pump bore 50 - 80mm

■ Assembly drawing

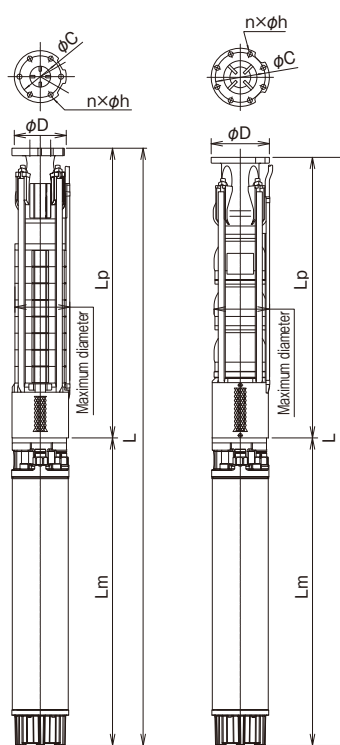


Fig. 3

Fig. 4

■ Dimensions

Well diameter (mm)	Bore (mm)	Type	Output (kW)	Outer dimensions (mm)				Approx. mass (kg)	Fig.
				L	Lp	Lm	Maximum diameter		
150	50	50MSUH6-53.7-9	3.7	1222	638	584	φ139	46	3
		50MSUH6-55.5-13	5.5	1654	798	856	φ139	87	
		50MSUH6-57.5-16	7.5	1839	918	921	φ139	99	
		50MSUH6-57.5-19	7.5	1959	1038	921	φ139	104	
		50MSUH6-511-24	11	2224	1238	986	φ142	119	
	65	65MSUH6-53.7-6	3.7	1218	634	584	φ140	46	3
		65MSUH6-55.5-9	5.5	1553	817	736	φ140	86	
		65MSUH6-57.5-12	7.5	1801	1000	801	φ140	99	
		65MSUH6-511-15	11	2049	1183	866	φ142	114	
		65MSUH6-511-18	11	2232	1366	866	φ142	120	
		65MSUH6-515-21	15	2480	1549	931	φ142	139	
		65MSUH6-515-25	15	2724	1793	931	φ142	156	
		80MSUH6-53.7-4	3.7	1576	785	791	φ141	77	4
	80	80MSUH6-55.5-6	5.5	1861	1005	856	φ141	92	
		80MSUH6-57.5-8	7.5	2146	1225	921	φ141	107	
		80MSUH6-511-11	11	2691	1705	986	φ142	131	
		80MSUH6-515-15	15	3196	2145	1051	φ142	153	

■ Flange dimensions

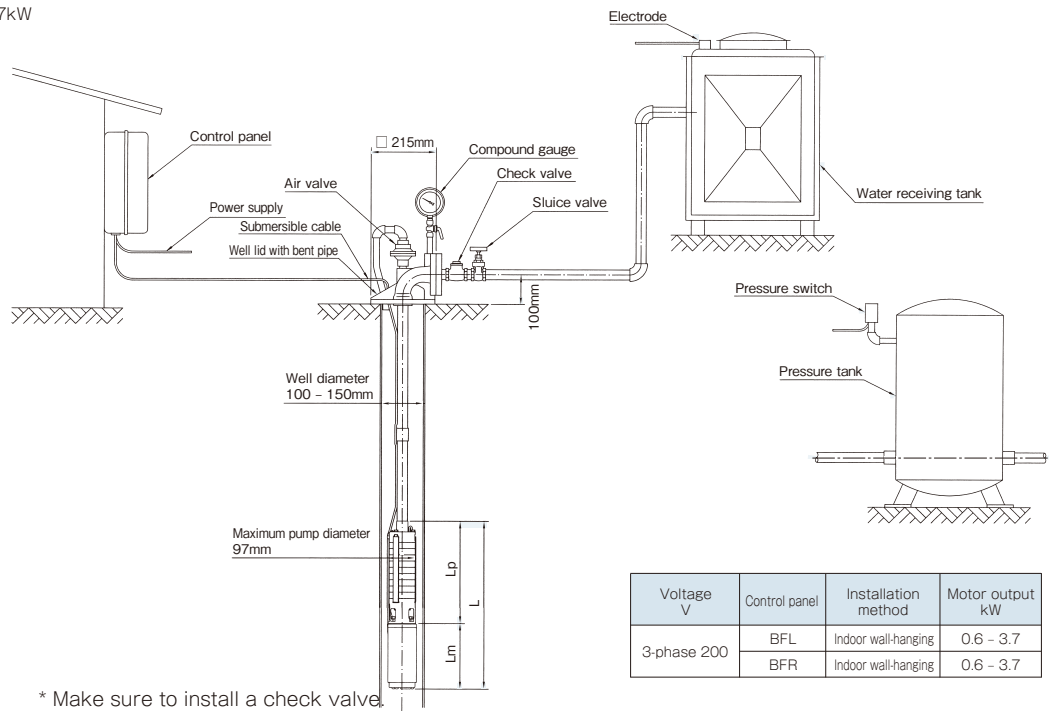
Bore	A	C	n	h	Fig.
50	125	100	6	12	3
65	140	115	8	12	3
80	140	120	8	12	4

(unit: mm)

■ Combination of pump and control method

■ Example of installation of a pressure tank and pressure switch control, or water receiving tank liquid level control (control panel method)

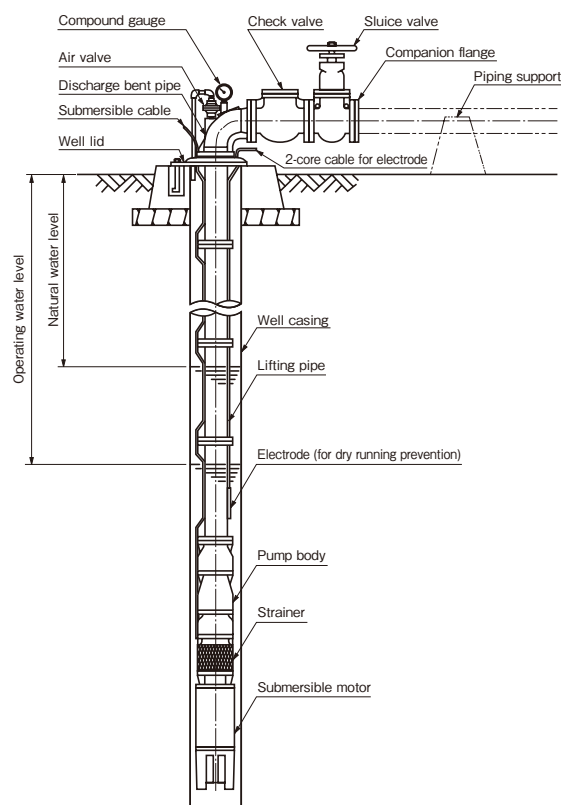
3-phase, 200V, 0.6 - 3.7kW



■ Combination of pump and aboveground parts

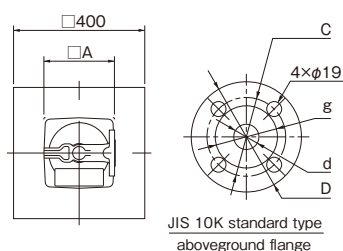
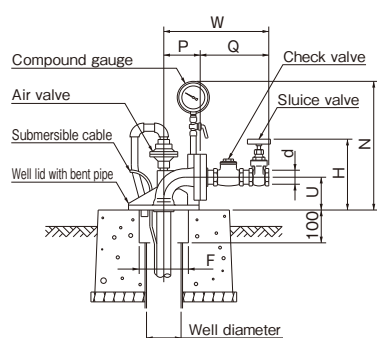
Pump installation position

- Install as far above the well strainer as possible.
- Avoid agreement between the well strainer and pump strainer where possible. If they are in agreement, sand will be taken in, causing pump wear, seizing, or well collapse.
- Keep at least 10m from the well bottom. Otherwise, the motor will be filled with sand, causing failure.



Installation and flange dimensions (screw-in type)

Assembly drawing



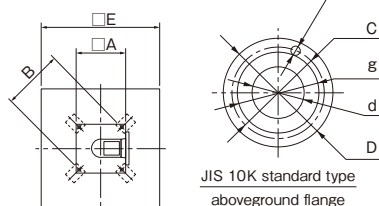
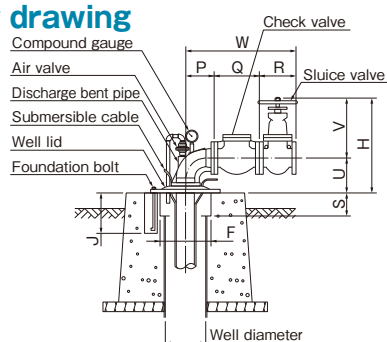
Dimensions

(Unit: mm)															
Bore	Lifting pipe connection	Max. well diameter applicable for well lid	Flange dimensions				Aboveground well lid dimensions								Approx. mass of aboveground part (kg)
			D	C	g	d	A	W	P	Q	N	H	U	F	
25	Screw-in type	125	140	100	79	Rc1	215	293	110	183	380	205	100	150	15
32	Screw-in type	125	140	100	79	Rc1¼	215	338	110	228	380	217	100	150	14
40	Screw-in type	125	140	105	79	Rc1½	215	348	110	238	380	233	100	150	15
50	Screw-in type	125	155	120	100	Rc2	220	390	112	278	350	277	115	150	18

(Unit: mm)

Installation and flange dimensions (flange type: JIS 10K standard type)*1

Assembly drawing



Dimensions

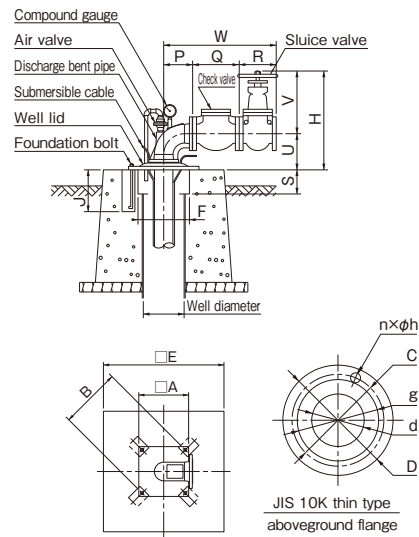
(Unit: mm)																					
Bore	Pump	Max. well diameter applicable for well lid	Flange dimensions					Aboveground well lid dimensions								Basic dimensions					Approx. mass of aboveground part (kg)
			d	g	C	D	n×h	P	R	Q	W	U	V	H	A	F	B	J	E	S	
50	50MSUS6	200	50	100	120	155	4×19	130	180	200	510	170	276	446	250	210	300	200	550	100	49
	50A-MSUS6																				
65	65MSUS6	200	65	120	140	175	4×19	150	190	220	560	190	302	492	250	210	300	200	550	100	52
	65A-MSUS6																				
	65B-MSUS6																				
80	80MSUS6	200	80	130	150	185	8×19	180	200	240	620	225	332	557	265	250	280	260	650	150	83
	80B-MSUS6																				
	80MSU(S)8	250	80	130	150	185	8×19	180	200	240	620	225	332	557	310	250	380	260	650	150	83
	80C-MSUS8																				
100	100MSU(S)8	250	100	155	175	210	8×19	180	230	290	700	225	384	609	310	250	380	260	650	150	107
	100MSU10	250	100	155	175	210	8×19	180	230	290	700	225	384	609	310	250	380	260	750	150	107
125	125MSU10	300	125	185	210	250	8×23	200	250	360	810	245	435	680	350	320	430	300	750	150	155
150	150MSU12	350	150	215	240	280	8×23	220	270	410	900	270	497	767	400	350	500	300	800	200	200
200	200MSU14	400	200	265	290	330	12×23	300	290	500	1090	350	608	958	500	410	630	300	900	200	345

(Unit: mm)

*1 Flanges of JIS 10K standard type and thin type are the same in discharge bent pipe but different in sluice valve and check valve.

Installation and flange dimensions (flange type: JIS 10K thin type)^{※1}

■ Assembly drawing



■ Dimensions

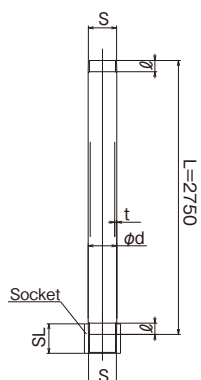
(Unit: mm)

Bore	Pump	Max. well diameter applicable for well lid	Flange dimensions					Aboveground well lid dimensions								Basic dimensions					Approx. mass of aboveground part (kg)
			d	g	C	D	n×h	P	R	Q	W	U	V	H	A	F	B	J	E	S	
50	50MSUS6	200	50	100	120	155	4×15	130	150	160	440	170	235	405	250	210	300	200	550	100	44.5
	50A-MSUS6																				
65	65MSUS6	200	65	120	140	175	4×15	150	160	175	485	190	266	456	250	210	300	200	550	100	47
	65A-MSUS6																				
80	80MSUS6	200	80	130	150	185	8×15	180	175	185	540	225	293	518	265	250	280	260	650	150	72
	80B-MSUS6																				
100	80MSU(S)8	250	80	130	150	185	8×15	180	175	185	540	225	293	518	310	250	380	260	650	150	72
	80C-MSUS8																				
100	100MSU(S)8	250	100	155	175	210	8×15	180	200	230	610	225	360	585	310	250	380	260	650	150	94
	100MSU10																				
125	125MSU10	300	125	185	210	250	8×19	200	225	255	680	245	406	651	350	320	430	300	750	150	119.5
150	150MSU12	350	150	215	240	280	8×19	220	250	290	760	270	453	723	400	350	500	300	800	200	158

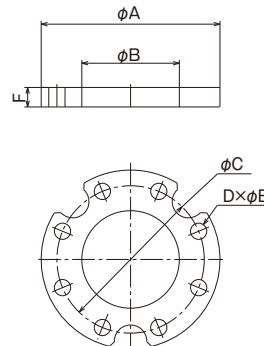
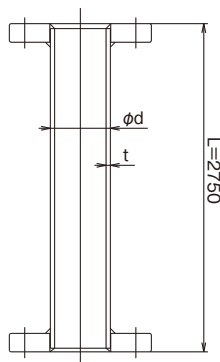
※1 Flanges of JIS 10K standard type and thin type are the same in discharge bent pipe but different in sluice valve and check valve.

Assembly drawing

●Screw-in type



●Flange type



Dimensions

●Screw-in type

(Unit: mm)

Bore	Lifting pipe				Socket		Mass (including socket) kg
	S	ℓ	t	d	S	SL	
25	Rc1	16.79	3.2	34.0	Rc1	45	6.9
32	Rc1¼	19.1	3.5	42.7	Rc1¼	50	9.6
40	Rc1½	19.1	3.5	48.6	Rc1½	55	11.0
50	Rc2	23.4	3.8	60.5	Rc2	60	15.1
65	Rc2½	26.6	4.2	76.3	Rc2½	70	22.0
80	Rc3	29.8	4.2	89.1	Rc3	75	25.3
100	Rc4	35.8	4.5	114.3	Rc4	85	35.0

●Flange type

(Unit: mm)

Lifting pipe type															(Unit: mm)
Min. well diameter applicable for pump	Min. well diameter applicable for lifting pipe	Bore	Pump type	Lifting pipe flange type	Lifting pipe		Lifting pipe flange						Applicable bolt size	Lifting pipe mass kg	
					d	t	A	B	C	D	E	F			
100	100	32	32MSUS4*1	RF32-04	42.7	3.5	95	43.2	75	4	12	12	M10×40	9.5	
125	150	40	40MSUS4*1	RF40-07	48.6	3.5	115	49.1	90	6	12	14	M10×45	11	
150			40MSU5*1												
100		40MSU6*1													
150		50	50MSUS4*1	RF50-04	60.5	3.8	125	61.1	100	6	12	14	M10×45	17.5	
			50MSUS6												
			50A-MSUS6												
		65	65MSUS6	RF65-13	76.3	4.2	140	77.1	115	8	12	14	M10×45	24.5	
			65A-MSUS6												
			65B-MSUS6												
200		80	80MSUS6	RF80-41	89.1	4.2	140	90	120	8	12	19	M10×55	29.0	
	80B-MSUS6														
	80MSU(S)8		RF80-24	89.1	4.2	165	90	136	8	15	18	M12×55	29.2		
	80C-MSUS8														
	100	100MSU(S)8	RF100-07	114.3	4.5	180	115.4	155	8	15	18	M12×55	37.0		
		100MSU10													
250	250	125	125MSU10	RF125-05	139.8	4.5	224	141.2	190	8	19	20	M16×65	47.0	
300	300	150	150MSU12	RF150-05	165.2	4.5	258	166.6	224	8	19	22	M16×70	63.0	
350	350	200	200MSU14	RF200-03	218	5.8	305	218	272	12	19	22	M16×70	93.0	

*Connecting pipe is used because the pump is screw-in type.

■ Allowable length

● Applicable standards

(JISB8324-compliant)

- Aboveground parts: Within 3m
- Ambient temperature: 30°C or less
- Allowable current: Rated current of motor x 110%
- Voltage drop: 5% of rating or less
- Aerial installation in conduit

* Values in the table are obtained based on the conditions of the JIS Standards. Slight extension may be possible depending on the conditions of use.

● Cautions

1. If the selected cable size is too thick, it may not fit into the well. In such a case, consult us.
2. Cable sizes in the table are for up to the conduit and terminal box, etc. Do not apply them to aboveground wiring.
3. Do not coil excess cable above the ground.

● Stainless steel MSUS model, for 200V

Applicable pump	Frame number	Starting method	Output (kW)	Allowable cable length (m)											
				Cable size (mm ²)											
				Flat 3-core EVCT						Flat 3-core CVCT					
				1.25	2	3.5	5.5	8	14	22	30	38	50	60	
25MSUS4 32MSUS4 40MSUS4 50MSUS4	M4	Direct-on-Line	0.6	140	217										
			0.75	105	163	305									
			1.1	80	124	232	361								
			1.5	59	92	172	268	377							
			1.9	50	78	146	228	321							
			2.2	40	62	116	181	255							
			2.7	29	45	85	133	187	329						
			3.7		36	67	104	147	259						
50MSUS6 65MSUS6 50A-MSUS6 65A-MSUS6 65B-MSUS6 80B-MSUS6	M4	Direct-on-Line	1.9	50	78	146	228	321							
			2.2	40	62	116	181	255							
			2.7	29	45	85	133	187	329						
			3.7		36	67	104	147	259						
	M6	Direct-on-Line	5.5			46	71	101	177	278	375				
			7.5				56	79	139	218	294	371			
		Star-delta	11			36	57	80	141	220	298	376			
			15				61	107	168	227	286	364			
80MSUS6 80C-MSUS8 80MSUS8 100MSUS8	M6	Direct-on-Line	3.7		36	68	106	150	264						
			5.5			46	71	101	177	278	375				
			7.5				56	79	139	218	294	371			
		Star-delta	11			36	57	80	141	220	298	376			
			15				61	107	168	227	286	364			
	M8	Star-delta	18.5						88	138	186	235	299	374	
			22						77	121	163	206	262	328	
			26						64	101	136	171	219	274	
			30						56	87	118	149	190	237	
			37						71	96	121	155	194		

●Stainless steel MSUS model, for 400V

Applicable pump	Frame number	Starting method	Output (kW)	Allowable cable length (m)											
				Cable size (mm ²)											
				Flat 3-core EVCT								Flat 3-core CVCT			
				1.25	2	3.5	5.5	8	14	22	30	38	50	60	
25MSUS4 32MSUS4 40MSUS4 50MSUS4	M4	Direct-on-Line	0.75	422											
			1.1	321	497										
			1.5	238	369										
			2.2	161	249	465									
			3.7	93	144	269	420								
50MSUS6 65MSUS6	M4	Direct-on-Line	2.2	161	249	465									
			3.7	93	144	269	420								
	M6	Direct-on-Line	5.5	63	98	184	287	404							
			7.5		77	144	225	317							
			11	50	78	146	228	321							
80MSUS6 80C-MSUS8 80MSUS8 100MSUS8	M6	Star-delta	15		59	111	173	244	430						
			3.7	94	146	273	426								
			5.5	63	98	184	287	404							
			7.5		77	144	225	317							
			11	50	78	146	228	321							
	M8	Star-delta	15		59	111	173	244	430						
			18.5			91	142	200	353						
			22			80	125	176	309	484					
			26			66	104	146	258	404					
			30				90	127	224	350	473				
			37					104	182	286	386	486			

※ The above table is not applicable to outputs of 0.6kW, 1.9kW and 2.7kW.

●Cast iron MSU model, for 200V

Applicable pump	Frame number	Starting method	Output (kW)	Allowable cable length (m)											
				Cable size (mm ²)											
				Flat 3-core EVCT								Flat 3-core CVCT			
				1.25	2	3.5	5.5	8	14	22	30	38	50	60	
25MSU3	M3	Direct-on-Line	0.4	173	269										
			0.75	92	143	267									
40MSU5	M4	Direct-on-Line	1.5	53	82	153	239	337							
			2.2	38	59	111	174	245							
			3.7		36	67	104	147	259						
			3.7		36	68	106	150	264						
40MSU6 80MSU8 100MSU8 100MSU10 125MSU10	M6	Direct-on-Line	5.5			46	71	101	177	278	375				
			7.5				56	79	139	218	294	371			
			11				37	58	82	144	226	305	385		
			15					61	107	168	227	286	364		
	M8	Star-delta	18.5						88	138	186	235	299	374	
			22						73	114	155	195	249	311	
			26						65	102	137	173	221	277	
			30							88	119	150	191	239	
	M10	Star-delta	37							72	97	123	156	196	
			45									100	128	160	
			55									78	100	125	
			11			37	58	82	144	226	305	385			
150MSU12 200MSU14	M6	Star-delta	15					61	107	168	227	286	364		
			18.5						88	138	186	235	299	374	
			22						73	114	155	195	249	311	
	M8	Star-delta	26						65	102	137	173	221	277	
			30							88	119	150	191	239	
			37							72	97	123	156	196	
			45								82	104	133	166	
	M12	Star-delta	55									85	108	136	
			75											101	

●Cast iron MSU model, for 400V

Applicable pump	Frame number	Starting method	Output (kW)	Allowable cable length (m)											
				Cable size (mm ²)											
				Flat 3-core EVCT						Flat 3-core CVCT					
				1.25	2	3.5	5.5	8	14	22	30	38	50	60	
25MSU3	M3	Direct-on-Line	0.4	695											
			0.75	371											
40MSU5	M4	Direct-on-Line	1.5	213	330										
			2.2	154	239	447									
			3.7	93	144	269	419								
			5.5	63	98	184	287	404							
40MSU6 80MSU8 100MSU8 100MSU10 125MSU10	M6	Direct-on-Line	7.5	77	144	225	317								
			11	52	80	150	233	329							
			15		59	111	173	244	430						
		Star-delta	18.5			91	142	200	353						
			22			76	118	167	293	459					
			26				105	148	261	408					
	M8	Star-delta	30				91	128	226	353	477				
			37					105	184	289	390	492			
			45						151	237	320	403			
	M10	Star-delta	55						118	185	250	315	402		
150MSU12 200MSU14	M6	Star-delta	11	52	80	150	233	329							
			15		59	111	173	244	430						
			18.5			91	142	200	353						
	M8	Star-delta	22			76	118	167	293	459					
			26				105	148	261	408					
			30				91	128	226	353	477				
			37					105	184	289	390	492			
			45						157	245	331	418			
	M12	Star-delta	55						128	200	271	341	435		
			75							149	202	254	324	406	

●MSUH model for hot spring, for 3-phase 200V (Unit: m)

Type	Motor output (kW)	Cable size (mm ²)	Ambient temperature (°C)		
			40	60	75
M4	1.5	2	84	78	74
		3.5	159	148	141
		5.5	244	227	216
	2.2	2	62	57	55
		3.5	115	107	102
		5.5	178	166	158
		8	252	234	223
	3.7	2	37	—	—
		3.5	68	65	—
		5.5	106	99	94
		8	149	139	132
		14	262	244	232

Numbers in the table show the values of CVCT-F (flat 3-core).

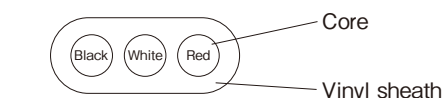
(Unit: m)

Type	Motor output (kW)	Cable size (mm ²)	Ambient temperature (°C)		
			40	60	75
M6	3.7	8	149	139	132
		14	262	244	232
		22	400	385	365
		30	380	360	340
	5.5	8	105	100	95
		14	180	170	165
		22	285	265	255
		30	285	270	255
	7.5	8	80	75	70
		14	135	130	125
		22	210	200	190
		30	285	270	255
	11*	8	85	80	75
		14	145	135	125
		22	220	210	195
		30	300	280	265
	15*	8	60	60	—
		14	105	100	95
		22	165	155	145
		30	220	210	195

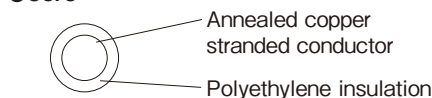
* For 11kW or more, allowable lengths in the case of star-delta start are shown.

■Structural drawing

●Structural drawing



●Core



■Outer dimensions and specifications

Cable type	Conductor		Finished outside diameter	Conductor resistance (20°C) Ω/km	Allowable current (30°C) A	Approx. mass kg/km
	Nominal cross-sectional area (mm ²)	Outside diameter (mm)	Short diameter x Long diameter (mm)			
EVCT-F	1.25	1.5	6.5±0.3×13.0±0.3	14.7	14	120
	2	1.8	7.0±0.3×14.0±0.3	9.50	19	150
	3.5	2.5	7.7±0.3×16.0±0.3	5.09	28	220
	5.5	3.1	9.1±0.3×19.5±0.3	3.27	36	325
	8	3.7	10.5±0.3×22.5±0.3	2.32	44	440
	14	5.1	12.5±0.3×28.5±0.3	1.32	62	720
	22	7.0	15.5±0.3×36.0±0.3	0.844	83	1120
CVCT-F	30	8.1	17.0±0.3×39.5±0.3	0.625	98	1410
	38	9.1	17.1±1.0×40.1±1.6	0.496	149	1630

■Handling precautions

- Avoid piling up cables or using them when they are coiled.
- Do not expose cables to direct sunlight.
- Always keep cables in a well-ventilated condition.

For melting snow, a deep well submersible pump, snowfall detector, and control panel are available as a set.

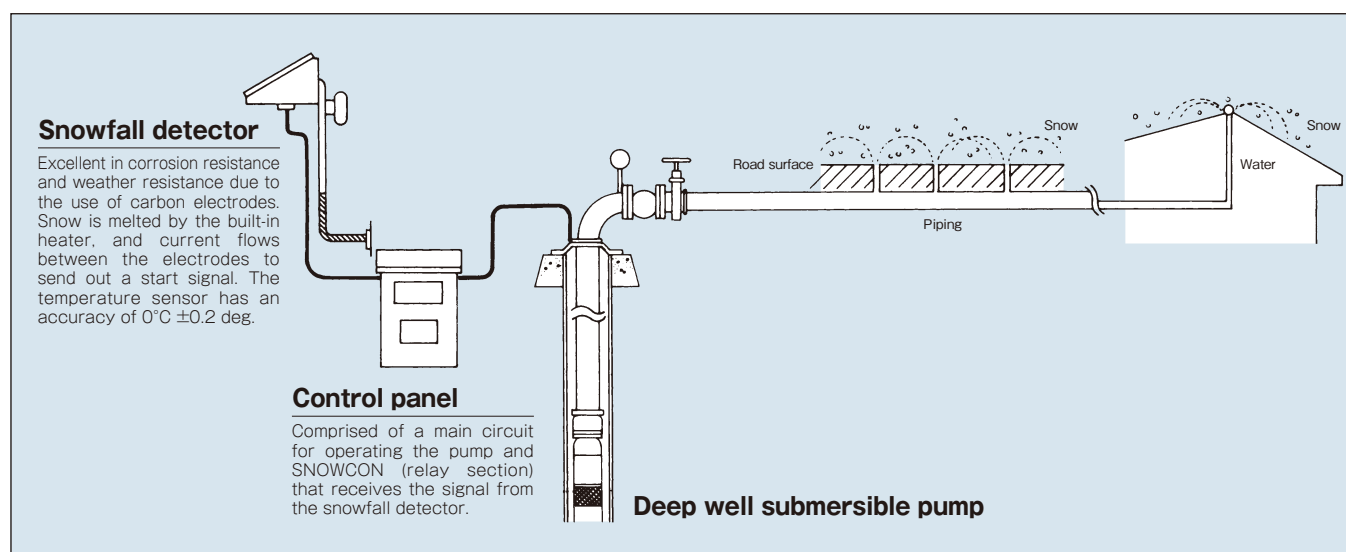
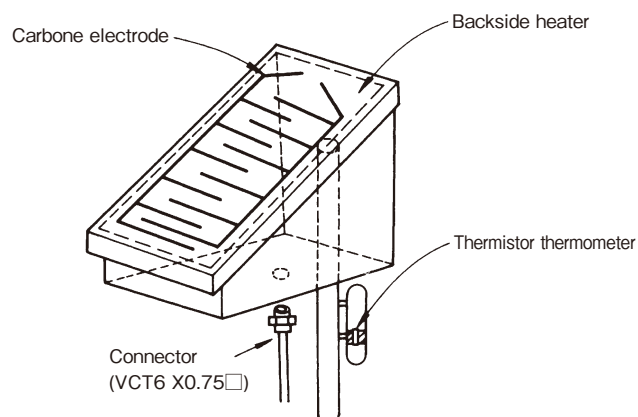
Each part has a structure superior in reliability, safety and durability.

■ Applications

- Melting of snow on roads, roofs, parking lots, etc.

■ Features

- Snowfall is automatically detected and the deep well submersible pump is automatically operated.
- The snow receiving plate is reliably actuated by snowfall and air temperature.
- Due to the automatic operation, initial snowfall is taken precisely, and when it stops snowing, the operation is finished after a certain period of time of remaining snow treatment to prevent loss of groundwater.
- There is no need for storage in summer.



■ For well diameter 100mm

Material of wetted parts	Well diameter (mm)	Nominal pump diameter (mm)	Output (kW)	Number of stages	New type	Conventional MSU series	Conventional SUM series
Stainless steel	100	25	0.6	11	25MSUS4-5.6-11	402MSU-S5.6H-11	25R4J-0.611-5A
			0.75	13	25MSUS4-5.75-13	402MSU-S5.75H-13	25R4J-0.713-5A
			1.1	19	25MSUS4-51.1-19	402MSU-S51.1H-19	25R4J-1.119-5A
			1.5	26	25MSUS4-51.5-26	402MSU-S51.5H-26	25R4J-1.526-5A
			1.9	38	25MSUS4-51.9-38	402MSU-S51.9H-38	25R4J-1.938-5A
			2.2	44	25MSUS4-52.2-44	—	25U4J-2.238-5A
		32	0.75	10	32MSUS4-5.75-10	403MSU-S5.75H-10	32S4K-0.710-5A
			1.1	15	32MSUS4-51.1-15	403MSU-S51.1H-15	32S4K-1.115-5A
			1.5	13	32MSUS4-51.5-13	—	32S4K-1.513-5A
			1.5	15	32MSUS4-51.5-15	—	32S4K-1.515-5A
			1.5	18	32MSUS4-51.5-18	403MSU-S51.5H-18	32S4K-1.518-5A
			1.5	20	32MSUS4-51.5-20	403MSU-S51.5H-20	32S4K-1.520-5A
			1.9	25	32MSUS4-51.9-25	403MSU-S51.9H-25	32S4K-1.925-5A
			2.2	30	32MSUS4-52.2-30	403MSU-S52.2H-30	32S4K-2.230-5A
			2.7	36	32MSUS4-52.7-36	403MSU-S52.7H-36	32U4K-2.736-5A
			3.7	50	32MSUS4-53.7-50	—	32U4K-3.736-5A
		40	0.75	5	40MSUS4-5.75-5	404MSU-S5.75H-5	40U4L-0.75-5A
			1.1	7	40MSUS4-51.1-7	404MSU-S51.1H-7	40U4L-1.17-5A
			1.5	10	40MSUS4-51.5-10	404MSU-S51.5H-10	40U4L-1.510-5A
			1.9	12	40MSUS4-51.9-12	404MSU-S51.9H-12	40U4L-1.912-5A
			2.2	14	40MSUS4-52.2-14	404MSU-S52.2H-14	40U4L-2.214-5A
			2.7	16	40MSUS4-52.7-16	404MSU-S52.7H-16	40U4L-2.716-5A
			3.7	18	40MSUS4-53.7-18	404MSU-S53.7H-18	40U4L-3.718-5A
		50	3.7	23	40MSUS4-53.7-23	404MSU-S53.7H-23	40U4L-3.723-5A
			0.75	3	50MSUS4-5.75-3	405MSU-S5.75H-3	50U4M-0.73-5A
			1.1	5	50MSUS4-51.1-5	405MSU-S51.1H-5	50U4M-1.15-5A
			1.5	7	50MSUS4-51.5-7	405MSU-S51.5H-7	50U4M-1.57-5A
			1.9	8	50MSUS4-51.9-8	405MSU-S51.9H-8	50U4M-1.98-5A
			2.2	10	50MSUS4-52.2-10	405MSU-S52.2H-10	50U4M-2.210-5A
			2.7	12	50MSUS4-52.7-12	405MSU-S52.7H-12	50U4M-2.712-5A
			3.7	13	50MSUS4-53.7-13	405MSU-S53.7H-13	50U4M-3.713-5A
			3.7	17	50MSUS4-53.7-17	405MSU-S53.7H-17	50U4M-3.717-5A

● For well control areas

Material of wetted parts	Well diameter (mm)	Nominal pump diameter (mm)	Output (kW)	Number of stages	New type	Conventional MSU series	Conventional SUM series
Stainless steel	100	25	0.75	10	25MSUS4-5.75-10	402MSU-S5.75H-10	25S4K-0.710-5A
			1.1	15	25MSUS4-51.1-15	402MSU-S51.1H-15	25S4K-1.115-5A
			1.5	13	25MSUS4-51.5-13	—	25S4K-1.513-5A
			1.5	15	25MSUS4-51.5-15	—	25S4K-1.515-5A
			1.5	18	25MSUS4-51.5-18	402MSU-S51.5H-18	25S4K-1.518-5A
			1.5	20	25MSUS4-51.5-20	402MSU-S51.5H-20	25S4K-1.520-5A
			1.9	25	25MSUS4-51.9-25	402MSU-S51.9H-25	25S4K-1.925-5A
			2.2	30	25MSUS4-52.2-30	402MSU-S52.2H-30	25S4K-2.230-5A
			2.7	36	25MSUS4-52.7-36	402MSU-S52.7H-36	25U4K-2.736-5A
			3.7	50	25MSUS4-53.7-50	—	25U4K-3.736-5A
			0.75	5	25MSUS4-5.75-5	402MSU-S5.75H-5	25U4K-0.75-5A
			1.1	7	25MSUS4-51.1-7	402MSU-S51.1H-7	25U4L-1.17-5A
			1.5	10	25MSUS4-51.5-10	402MSU-S51.5H-10	25U4L-1.510-5A
			1.9	12	25MSUS4-51.9-12	402MSU-S51.9H-12	25U4L-1.912-5A
			2.2	14	25MSUS4-52.2-14	402MSU-S52.2H-14	25U4L-2.214-5A
			2.7	16	25MSUS4-52.7-16	402MSU-S52.7H-16	25U4L-2.716-5A
			3.7	18	25MSUS4-53.7-18	402MSU-S53.7H-18	25U4L-3.718-5A
			3.7	23	25MSUS4-53.7-23	402MSU-S53.7H-23	25U4L-3.723-5A
			0.75	3	25MSUS4-5.75-3	402MSU-S5.75H-3	25U4M-0.73-5A
			1.1	5	25MSUS4-51.1-5	402MSU-S51.1H-5	25U4M-1.15-5A
			1.5	7	25MSUS4-51.5-7	402MSU-S51.5H-7	25U4M-1.57-5A
			1.9	8	25MSUS4-51.9-8	402MSU-S51.9H-8	25U4M-1.98-5A
			2.2	10	25MSUS4-52.2-10	402MSU-S52.2H-10	25U4M-2.210-5A
			2.7	12	25MSUS4-52.7-12	402MSU-S52.7H-12	25U4M-2.712-5A
			3.7	13	25MSUS4-53.7-13	402MSU-S53.7H-13	25U4M-3.713-5A
			3.7	17	25MSUS4-53.7-17	402MSU-S53.7H-17	25U4M-3.717-5A

■ For well diameter 150mm

Material of wetted parts	Well diameter (mm)	Nominal pump diameter (mm)	Output (kW)	Number of stages	New type	Conventional MSU series	Conventional SUM series
Stainless steel	150	50	1.9	5	50MSUS6-51.9-5	605MSU-S51.9J-5	50S6D-1.95-5
			2.2	6	50MSUS6-52.2-6	605MSU-S52.2J-6	50S6D-2.26-5
			2.7	7	50MSUS6-52.7-7	605MSU-S52.7J-7	50S5D-2.77-5
			3.7	9	50MSUS6-53.7-9	605MSU-S53.7J-9	50S6D-3.79-5
			5.5	13	50MSUS6-55.5-13	605MSU-S55.5J-13	50S6D-5.513-5
			7.5	16	50MSUS6-57.5-16	605MSU-S57.5J-16	50S6D-7.516-5
			7.5	19	50MSUS6-57.5-19	605MSU-S57.5J-19	50S6D-7.519-5
		65	11	24	50MSUS6-511-24	605MSU-S511J-24	50S6D-1124-5
			1.9	4	65MSUS6-51.9-4	607MSU-S51.9J-4	—
			2.2	4	65MSUS6-52.2-4	607MSU-S52.2J-4	65S6E-2.24-5
			2.7	5	65MSUS6-52.7-5	607MSU-S52.7J-5	65S6E-2.75-5
			3.7	6	65MSUS6-53.7-6	607MSU-S53.7J-6	65S6E-3.76-5
			5.5	9	65MSUS6-55.5-9	607MSU-S55.5J-9	65S6E-5.59-5
			7.5	12	65MSUS6-57.5-12	607MSU-S57.5J-12	65S6E-7.512-5
			11	15	65MSUS6-511-15	607MSU-S511J-15	65S6E-1115-5
			11	18	65MSUS6-511-18	607MSU-S511J-18	65S6E-1118-5
			15	21	65MSUS6-515-21	607MSU-S515J-21	65S6E-1521-5
			15	25	65MSUS6-515-25	607MSU-S515J-25	65S6E-1525-5
		80	3.7	4	80MSUS6-53.7-4	608MSU-S53.7H-4	80U6F-3.74-5
			5.5	6	80MSUS6-55.5-6	608MSU-S55.5H-6	80U6F-5.56-5
			7.5	8	80MSUS6-57.5-8	608MSU-S57.5H-8	80U6F-7.58-5
			11	11	80MSUS6-511-11	608MSU-S511H-11	80U6F-1111-5
			15	15	80MSUS6-515-15	608MSU-S515H-15	80U6F-1515-5

■ For well diameter 200mm

Material of wetted parts	Well diameter (mm)	Nominal pump diameter (mm)	Output (kW)	Number of stages	New type	Conventional MSU series	Conventional SUM series
Stainless steel	200	80	3.7	2	80MSUS8-53.7-2	808MSU-S53.7H-2	80U8G-3.72-5
			5.5	3	80MSUS8-55.5-3	808MSU-S55.5H-3	80U8G-5.53-5
			7.5	4	80MSUS8-57.5-4	808MSU-S57.5H-4	80U8G-7.54-5
			11	6	80MSUS8-511-6	808MSU-S511H-6	80U8G-116-5
			15	8	80MSUS8-515-8	808MSU-S515H-8	80U8G-158-5
			18.5	10	80MSUS8-518-10	808MSU-S518H-10	80U8G-18.510-5
			22	12	80MSUS8-522-12	808MSU-S522H-12	80U8G-2212-5
			26	14	80MSUS8-526-14	808MSU-S526H-14	80U8G-2614-5
			30	16	—	808MSU-S530H-16	80U8G-3016-5
			37	20	—	808MSU-S537H-20	80U8G-3720-5
		100	3.7	1	100MSUS8-53.7-1	—	100U8J-3.71-5
			5.5	2	100MSUS8-55.5-2	810A-MSU-S55.5H-2	100U8J-5.52-5
			7.5	3	100MSUS8-57.5-3	810A-MSU-S57.5H-3	100U8J-7.53-5
			11	4	100MSUS8-511-4	810A-MSU-S511H-4	100U8J-114-5
			15	5	100MSUS8-515-5	810A-MSU-S515H-5	100U8J-155-5
			18.5	6	100MSUS8-518-6	810A-MSU-S518H-6	100U8J-18.56-5
			22	7	100MSUS8-522-7	810A-MSU-S522H-7	100U8J-227-5
			26	8	100MSUS8-526-8	810A-MSU-S526H-8	100U8J-268-5
			30	10	100MSUS8-530-10	810A-MSU-S530H-10	100U8J-3010-5
			37	12	100MSUS8-537-12	810A-MSU-S537H-12	100U8J-3712-5

■ For well diameter 75mm

Material of wetted parts	Well diameter (mm)	Nominal pump diameter (mm)	Output (kW)	Number of stages	New type	Conventional MSU series	Conventional SUM series
Cast iron	75	25	0.4	16	25MSU3-5.4-16	MSU-3116F	—
			0.75	30	25MSU3-5.75-30	MSU-3130F	—

■ For well diameter 125mm

Material of wetted parts	Well diameter (mm)	Nominal pump diameter (mm)	Output (kW)	Number of stages	New type	Conventional MSU series	Conventional SUM series
Cast iron	125	40	1.5	7	40MSU5-51.5-7	504MSU-51.5H-7	40U5A-1.57-5
			2.2	11	40MSU5-52.2-11	504MSU-52.2H-11	40U5A-2.211-5
			3.7	18	40MSU5-53.7-18	504MSU-53.7H-18	40U5A-3.718-5

■ For well diameter 150mm

Material of wetted parts	Well diameter (mm)	Nominal pump diameter (mm)	Output (kW)	Number of stages	New type	Conventional MSU series	Conventional SUM series
Cast iron	150	40	5.5	25	40MSU6-55.5-25	604MSU-55.5H-25	40U5A-5.525-5
			7.5	35	40MSU6-57.5-35	604MSU-57.5H-35	40U5A-7.535-5

■For well diameter 200mm

Material of wetted parts	Well diameter (mm)	Nominal pump diameter (mm)	Output (kW)	Number of stages	New type	Conventional MSU series	Conventional SUM series
Cast iron	200	80	3.7	2	80MSU8-53.7-2	—	80U8A-3.72-5
			5.5	3	80MSU8-55.5-3	—	80U8A-5.53-5
			7.5	4	80MSU8-57.5-4	—	80U8A-7.54-5
			11	6	80MSU8-511-6	—	80U8A-116-5
			15	8	80MSU8-515-8	—	80U8A-158-5
			18.5	10	80MSU8-518-10	—	80U8A-18.510-5
			22	11	80MSU8-522-11	—	80U8A-2211-5
		100	26	13	80MSU8-526-13	—	80U8A-2613-5
			30	15	80MSU8-530-15	—	80U8A-3015-5
			3.7	1	100MSU8-53.7-1	—	100U8F-3.71-5
			5.5	2	100MSU8-55.5-2	—	100U8B-5.52-5
			7.5	2	100MSU8-57.5-2	—	100U8F-7.52-5
			7.5	3	100MSU8-57.5-3	—	100U8B-7.53-5
			11	3	100MSU8-511-3	—	100U8F-113-5
			11	4	100MSU8-511-4	—	100U8B-114-5
			15	4	100MSU8-515-4	—	100U8F-154-5
			15	5	100MSU8-515-5	—	100U8B-155-5
			18.5	5	100MSU8-518-5	—	100U8F-18.55-5
			18.5	6	100MSU8-518-6	—	100U8B-18.56-5
			22	6	100MSU8-522-6	—	100U8F-226-5
			22	7	100MSU8-522-7	—	100U8B-227-5
			26	7	100MSU8-526-7	—	100U8F-267-5
			26	8	100MSU8-526-8	—	100U8B-268-5
			30	8	100MSU8-530-8	—	100U8F-308-5
			30	10	100MSU8-530-10	—	100U8B-3010-5
			37	10	100MSU8-537-10	—	100U8F-3710-5
			37	13	100MSU8-537-13	—	100U8B-3713-5
			7.5	2	100MSU8-57.5-2B	810B-MSU-57.5-2	—
			11	3	100MSU8-511-3B	810B-MSU-511-3	—
			15	4	100MSU8-515-4B	810B-MSU-515-4	—
			18.5	5	100MSU8-518-5B	810B-MSU-518-5	—
			22	6	100MSU8-522-6B	810B-MSU-522-6	—
			26	6	100MSU8-526-6B	810B-MSU-526-6	—
			30	7	100MSU8-530-7B	810B-MSU-530-7	—
			37	9	100MSU8-537-9B	810B-MSU-537-9	—

■For well diameter 250mm

Material of wetted parts	Well diameter (mm)	Nominal pump diameter (mm)	Output (kW)	Number of stages	New type	Conventional MSU series	Conventional SUM series
Cast iron	250	100	45	12	100MSU10-545-12	1010MSU-545H-12	100U8F-4512-5
		125	7.5	1	125MSU10-57.5-1	1013MSU-57.5H-1	125U10B-7.51-5
			11	1	125MSU10-511-1	1013MSU-511H-1	125U10B-111-5
			11	2	125MSU10-511-2	1013MSU-511H-2	125U10B-112-5
			15	2	125MSU10-515-2	1013MSU-515H-2	125U10B-152-5
			18.5	2	125MSU10-518-2	1013MSU-518H-2	125U10B-18.52-5
			22	3	125MSU10-522-3	1013MSU-522H-3	125U10B-223-5
			26	3	125MSU10-526-3	1013MSU-526H-3	125U10B-263-5
			30	4	125MSU10-530-4	1013MSU-530H-4	125U10B-304-5
			37	4	125MSU10-537-4	1013MSU-537H-4	125U10B-374-5
			45	5	125MSU10-545-5	1013MSU-545H-5	125U10B-455-5
			55	6	125MSU10-555-6	1013MSU-555H-6	125U10B-556-5

■For well diameter 300mm

Material of wetted parts	Well diameter (mm)	Nominal pump diameter (mm)	Output (kW)	Number of stages	New type	Conventional MSU series	Conventional SUM series
Cast iron	300	150	11	1	150MSU12-511-1	1215MSU-511H-1	150U12A-111-5
			15	1	150MSU12-515-1	1215MSU-515H-1	150U12B-151-5
			18.5	1	150MSU12-518-1	1215MSU-518H-1	150U12B-18.51-5
			22	2	150MSU12-522-2	1215MSU-522H-2	150U12A-222-5
			26	2	150MSU12-526-2	1215MSU-526H-2	150U12A-262-5
			30	2	150MSU12-530-2	1215MSU-530H-2	150U12B-302-5
			37	2	150MSU12-537-2	1215MSU-537H-2	150U12B-372-5
			45	3	150MSU12-545-3	1215MSU-545H-3	150U12B-453-5
			55	3	150MSU12-555-3	1215MSU-555H-3	150U12B-553-5
			75	4	150MSU12-575-4	1215MSU-575H-4	150U12B-754-5

■For well diameter 350mm

Material of wetted parts	Well diameter (mm)	Nominal pump diameter (mm)	Output (kW)	Number of stages	New type	Conventional MSU series	Conventional SUM series
Cast iron	350	200	30	1	200MSU14-530-1	1420MSU-530H-1	200U14B-301-5
			37	1	200MSU14-537-1	1420MSU-537H-1	200U14A-371-5
			45	2	200MSU14-545-2	1420MSU-545H-2	200U14B-452-5
			55	2	200MSU14-555-2	1420MSU-555H-2	200U14B-552-5
			75	2	200MSU14-575-2	1420MSU-575H-2	200U14A-752-5

■ For well diameter 400mm

Material of wetted parts	Well diameter (mm)	Nominal pump diameter (mm)	Output (kW)	Number of stages	New type	Conventional MSU series	Conventional SUM series
Cast iron	400	250	22	1	250MSU16-522-1	—	250U16A-221-5
			30	2	250MSU16-530-2	—	250U16B-302-5
			37	2	250MSU16-537-2	—	250U16A-372-5
			45	2	250MSU16-545-2	—	250U16A-452-5
			45	3	250MSU16-545-3	—	250U16A-453-5
			55	3	250MSU16-555-3	—	250U16A-553-5
			75	4	250MSU16-575-4	—	250U16A-754-5

■ Pumps for hot springs

Material of wetted parts	Well diameter (mm)	Nominal pump diameter (mm)	Output (kW)	Number of stages	New type	Conventional MSU series	Conventional SUM series
Stainless steel	100	25	0.6	11	25MSUH4-5.6-11	—	25RH4J-0.611-5A
			0.75	13	25MSUH4-5.75-13	—	25RH4J-0.713-5A
			1.1	19	25MSUH4-5.1.1-19	—	25RH4J-1.119-5A
			1.5	26	25MSUH4-5.1.5-26	—	25RH4J-1.526-5A
			2.2	38	25MSUH4-5.2.2-38	—	25UH4J-2.238-5A
			2.2	44	25MSUH4-5.2.2-44	—	25UH4J-2.244-5A
		32	0.75	10	32MSUH4-5.75-10	—	32SH4K-0.710-5A
			1.1	15	32MSUH4-5.1.1-15	—	32SH4K-1.115-5A
			1.5	15	32MSUH4-5.1.5-15	—	32SH4K-1.515-5A
			1.5	20	32MSUH4-5.1.5-20	—	32SH4K-1.520-5A
			2.2	30	32MSUH4-5.2.2-30	—	32SH4K-2.230-5A
			3.7	36	32MSUH4-5.3.7-36	—	32UH4K-3.736-5A
		40	3.7	50	32MSUH4-5.3.7-50	—	32UH4K-3.750-5A
			0.75	5	40MSUH4-5.75-5	—	40UH4L-0.75-5A
			1.1	7	40MSUH4-5.1.1-7	—	40UH4L-1.117-5A
			1.5	10	40MSUH4-5.1.5-10	—	40UH4L-1.510-5A
			2.2	14	40MSUH4-5.2.2-14	—	40UH4L-2.214-5A
			3.7	18	40MSUH4-5.3.7-18	—	40UH4L-3.718-5A
		50	3.7	23	40MSUH4-5.3.7-23	—	40UH4L-3.723-5A
			0.75	3	50MSUH4-5.75-3	—	50UH4M-0.73-5A
			1.1	5	50MSUH4-5.1.1-5	—	50UH4M-1.15-5A
			1.5	7	50MSUH4-5.1.5-7	—	50UH4M-1.57-5A
			2.2	10	50MSUH4-5.2.2-10	—	50UH4M-2.210-5A
			3.7	13	50MSUH4-5.3.7-13	—	50UH4M-3.713-5A
		50	3.7	17	50MSUH4-5.3.7-17	—	50UH4M-3.717-5A
			3.7	9	50MSUH6-5.3.7-9	—	50SH6D-3.79-5
			5.5	13	50MSUH6-5.5.5-13	—	50SH6D-5.513-5
			7.5	16	50MSUH6-5.7.5-16	—	50SH6D-7.516-5
			7.5	19	50MSUH6-5.7.5-19	—	50SH6D-7.519-5
			11	24	50MSUH6-5.11-24	—	50SH6D-1124-5
		65	3.7	6	65MSUH6-5.3.7-6	—	65SH6E-3.76-5
			5.5	9	65MSUH6-5.5.5-9	—	65SH6E-5.59-5
			7.5	12	65MSUH6-5.7.5-12	—	65SH6E-7.512-5
			11	15	65MSUH6-5.11-15	—	65SH6E-1115-5
			11	18	65MSUH6-5.11-18	—	65SH6E-1118-5
			15	21	65MSUH6-5.15-21	—	65SH6E-1521-5
			15	25	65MSUH6-5.15-25	—	65SH6E-1525-5
		80	3.7	4	80MSUH6-5.3.7-4	—	80SH6F-3.74-5
			5.5	6	80MSUH6-5.5.5-6	—	80SH6F-5.56-5
			7.5	8	80MSUH6-5.7.5-8	—	80SH6F-7.58-5
			11	11	80MSUH6-5.11-11	—	80SH6F-1111-5
			15	15	80MSUH6-5.15-15	—	80SH6F-1515-5

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