

Volute pumps

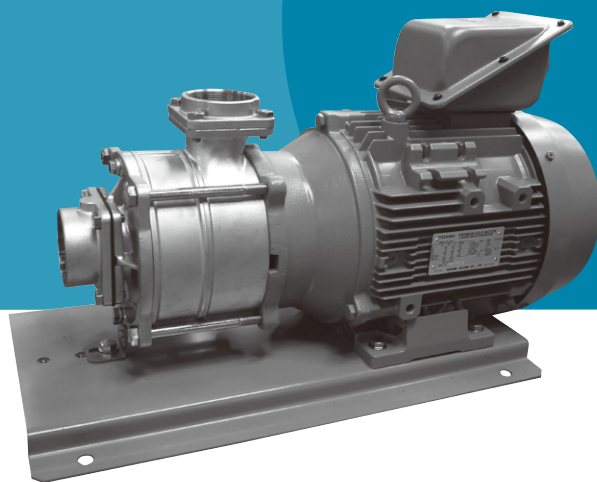
NX

TERAL



Triple e series

50Hz



TERAL INC.

Applications

- General water supply for buildings, condominiums, etc.
- Conveyance and distribution of industrial water and tap water
- Water sprinkling
- For incorporating into equipment
- Circulation of cold/warm water
- Other uses

Features

- ① Energy-saving pump with a Top Runner efficiency (equivalent to IE3) motor.
- ② Ministry of Land, Infrastructure, Transport and Tourism specification compliant
- ③ Quietness
Three-dimensional fluid analysis of internal pump water and precision stainless steel casting on the casing portion make operating noise quiet.
- ④ Compact, lightweight and high performance
High performance and compact and lightweight realized by the latest fluid design.
- ⑤ Adoption of stainless steel press impeller
Measures against rusty water with stainless steel, resin, etc. for wetted parts.
- ⑥ Adoption of a totally enclosed fan-cooled outdoor type motor
It can also be used outdoors, and durability against moisture and dust has been increased.
- ⑦ Compatible mounting dimensions with conventional pumps(NX).



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

Description of types

NX 32 2 - 5 .75 - e

① ② ③ ④ ⑤ ⑥ ⑦

- | | | |
|---|------------------------------|--|
| ① Model NX: Standard
NXH: High temperature specification | ③ Number of stages (2-stage) | ⑥ Phase and voltage
None: 3-phase 200V, S: single phase 100V, S2: single phase 200V |
| ② Nominal diameter (32mm) | ④ Frequency (50Hz) | ⑦ Motor efficiency
None: standard efficiency (equivalent to IE1)
e: Top Runner efficiency (equivalent to IE3)
(3-phase 0.4kW is equivalent to IE3 efficiency) |
| ⑤ Output (0.75kW) | | |

Standard specifications/Special specifications

— : Not available

Pumping liquid	Liquid quality	Fresh water	
	Liquid temperature	NX : 0 - 60°C NXH : 0 - 80°C	
Total suction head (In case of 20°C)		- 6 m	
Allowable positive pressure		See the specification table.	
Specifications		Standard specifications	Special specifications
Structure	Impeller	Closed	—
	Shaft seal	Mechanical seal (Ceramic vs Carbon)	Mechanical seal (Sic vs Carbon)
	Bearing	Sealed ball bearing (built-in the motor)	—
	Casing drain	Plug	Cock
	Others	—	Oil free treatment (grade I)
Material	Impeller	SUS304	—
	Shaft	SUS304	—
	Casing	SCS13	—
	Guide vane	NX : PPE...50A or less : PPS...65A NXH : PPS	—
	Wearing ring	NX : SUS304 + NBR...Nominal diameter 25/32mm : CAC406...Nominal diameter 40 - 65mm NXH : CAC406	—
Motor	Efficiency	Standard efficiency (equivalent to IE1): Single phase Top Runner efficiency (equivalent to IE3): 3-phase (3-phase 0.4kW is equivalent to IE3)	—
	Starting method	Direct-on-Line start* ^{※1}	—
	Type	Totally enclosed fan-cooled outdoor type	—
	Power source	Single-phase / 100V...0.4kW Single-phase / 200V...0.75kW 3-phase / 200V...0.4 - 7.5kW	3-phase, 380/400/415V
	No. of poles	2-pole	—
Piping connection		Dedicated flange	—
Painting ^{※2}	Paint color	TERAL standard painting	Outside : specified color
	Painting type	TERAL standard	Salt-resistant paint Heavy-duty salt-resistant paint

※ Please note that in case of special specifications, the assembly drawing, etc., may differ from the standard drawing.

※ 1 Star-delta connection is not available.

※ 2 Stainless steel parts are not painted.

Standard accessories

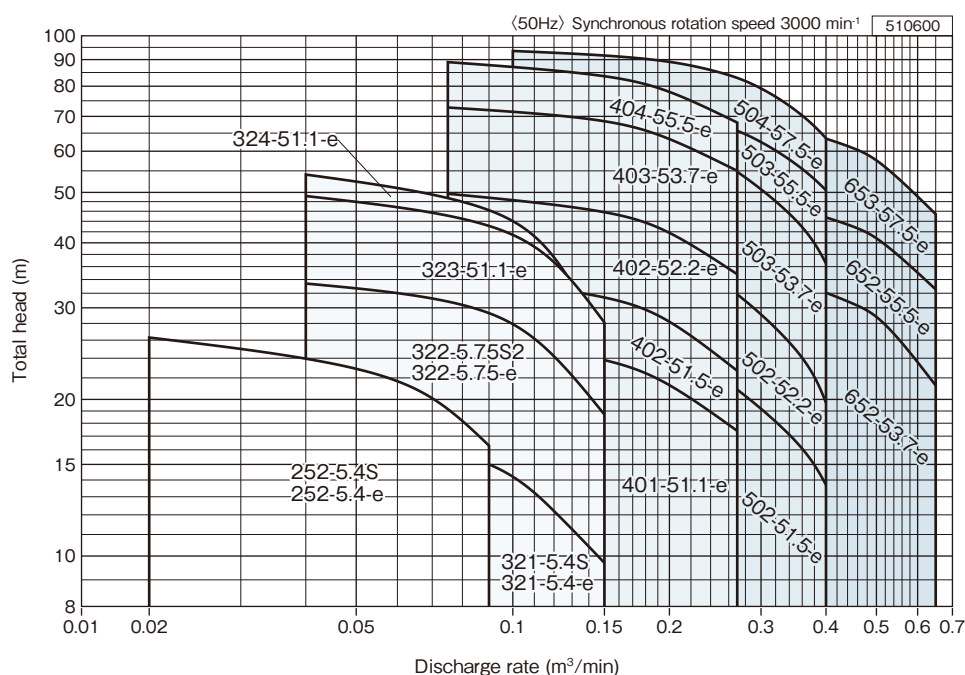
Companion flange (packing, O-ring and bolt included) 2sets
Common base 1

※ Standard accessories are included in the product components.

Special accessories

Priming funnel (with cock, short pipe)
Sluice valve
Companion flange (for taking-out of pressure gauge, nominal diameter 32mm or less, packing, bolt and nut included)
Short pipe (for taking-out of pressure, nominal diameter 40mm or more)
Pressure gauge, Compound gauge (cock and piping included)
Vibration isolator
Vibration isolation joint
Anchor bolt

Selection chart



Specification table

Nominal diameter mm	Model	Number of stage	Output kW	Phase and voltage V	Standard specifications						Allowable positive pressure MPa (m)
					Discharge rate m³/min	Total head m	Discharge rate m³/min	Total head m	Discharge rate m³/min	Total head m	
25	NX252-5.4S	2	0.4	Single-phase/100	0.02	26.3	0.05	22.9	0.09	16.3	0.69 (70)
	NX252-5.4-e	2	0.4	3-phase/200	0.02	26.3	0.05	22.9	0.09	16.3	0.69 (70)
32	NX321-5.4S	1	0.4	Single-phase/100	0.04	17.1	0.09	15.0	0.15	9.7	0.69 (70)
	NX321-5.4-e	1	0.4	3-phase/200	0.04	17.1	0.09	15.0	0.15	9.7	0.69 (70)
	NX322-5.75S2	2	0.75	Single-phase/200	0.04	33.4	0.09	29.3	0.15	18.7	0.59 (60)
	NX322-5.75-e	2	0.75		0.04	33.4	0.09	29.3	0.15	18.7	0.59 (60)
	NX323-51.1-e	3	1.1		0.04	49.2	0.09	43.1	0.15	28.1	0.39 (40)
	NX324-51.1-e	4	1.1		0.04	54.1	0.09	46.2	0.15	25.8	0.39 (40)
40	NX401-51.1-e	1	1.1	3-phase/200	0.075	26.6	0.15	23.8	0.27	17.4	0.69 (70)
	NX402-51.5-e	2	1.5		0.075	34.6	0.15	31.4	0.27	22.7	0.59 (60)
	NX402-52.2-e	2	2.2		0.075	49.7	0.15	45.8	0.27	34.8	0.39 (40)
	NX403-53.7-e	3	3.7		0.075	72.8	0.15	68.5	0.27	55.0	0.2 (20)
	NX404-55.5-e	4	5.5		0.075	89.0	0.15	83.6	0.27	68.1	0.05 (5)
	NX502-51.5-e	2	1.5		0.10	28.0	0.25	22.1	0.40	13.7	0.59 (60)
50	NX502-52.2-e	2	2.2		0.10	42.2	0.25	33.7	0.40	19.7	0.49 (50)
	NX503-53.7-e	3	3.7		0.10	68.6	0.25	57.5	0.40	36.5	0.2 (20)
	NX503-55.5-e	3	5.5		0.10	75.3	0.25	67.4	0.40	50.4	0.2 (20)
	NX504-57.5-e	4	7.5		0.10	93.5	0.25	85.0	0.40	63.5	0.05 (5)
65	NX652-53.7-e	2	3.7		0.20	37.4	0.45	30.6	0.65	21.3	0.59 (60)
	NX652-55.5-e	2	5.5		0.20	50.2	0.45	43.0	0.65	32.5	0.39 (40)
	NX653-57.5-e	3	7.5		0.20	71.2	0.45	60.9	0.65	45.4	0.2 (20)

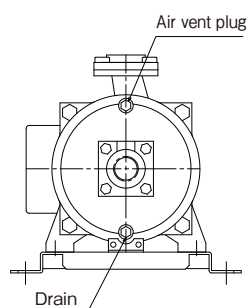
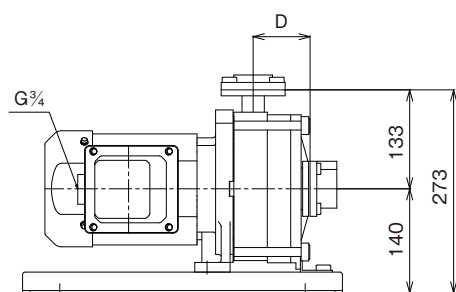
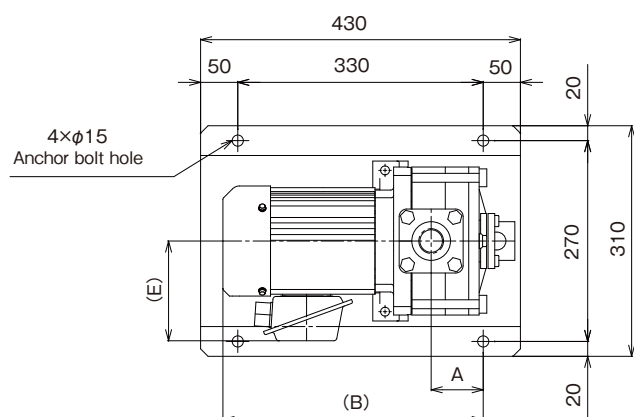
Motor specification table

Classification		Output kW	Rating			Starting			Thermal class	Bearing	
Phase	Type		Voltage V	Current A	Rotation speed min ⁻¹	Torque %	Current A	Method		Load side (D.S)	Anti-load side (O.S)
Single-phase	Totally enclosed fan-cooled outdoor type	0.4	100	8.3	2840	70	25.0	Direct-on-Line	B	6305ZZC3	6203ZZC3
		0.75	200	6.4	2835	50	28.0	Direct-on-Line	E	6305ZZC3	6203ZZC3
0.4		200	2.5	2875	348	15.3	Direct-on-Line	F	6305ZZC3	6204ZZC3	
0.75		200	3.9	2865	254	23.0	Direct-on-Line	F	6305ZZC3	6204ZZC3	
1.1		200	5.8	2900	333	39.2	Direct-on-Line	F	6306ZZC3	6304ZZC3	
1.5		200	6.7	2865	254	45.7	Direct-on-Line	F	6306ZZC3	6305ZZC3	
2.2		200	10.4	2890	268	68.2	Direct-on-Line	F	6306ZZC3	6305ZZC3	
3.7		200	16.7	2885	295	127	Direct-on-Line	F	6307ZZC3	6305ZZC3	
5.5		200	22.2	2920	247	151	Direct-on-Line	F	6310ZZC3	6208ZZC3	
7.5		200	29.9	2910	237	205	Direct-on-Line	F	6310ZZC3	6208ZZC3	
3-phase											

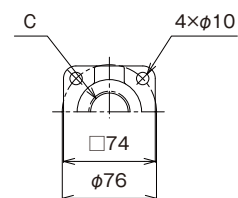
Assembly drawing

●Nominal diameter 25mm : 0.4kW

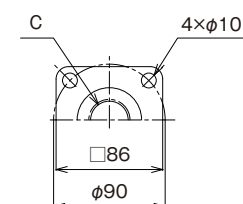
●Nominal diameter 32mm : 0.4, 0.75kW



Suction companion flange



Discharge companion flange



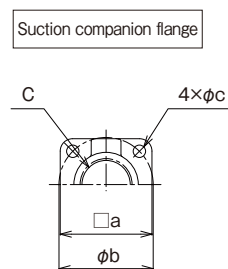
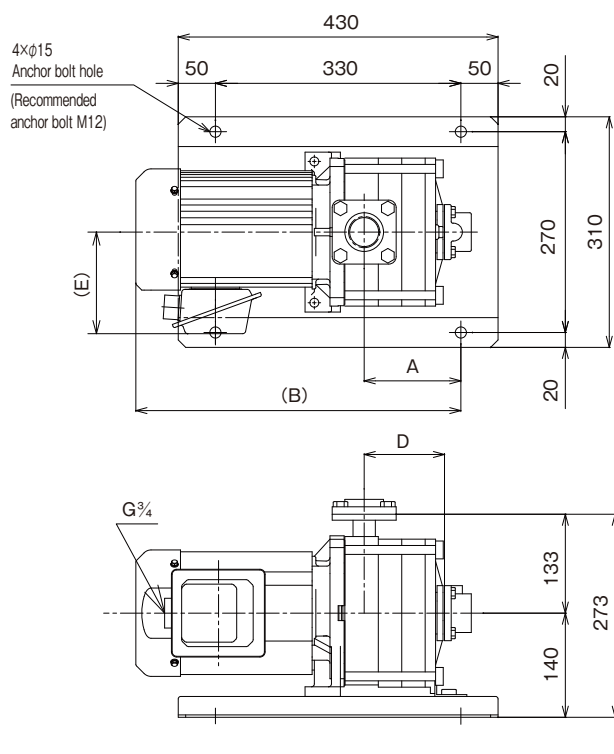
Dimensions

(Unit: mm)

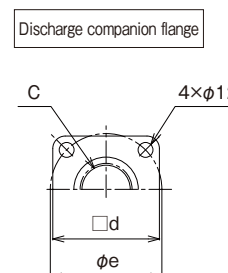
Nominal diameter	Type	Output kW	A	B	C	D	E	Approx. mass kg
25	NX252-5.4S	0.4	70	336	Rc1	77	134	26
	NX252-5.4-e	0.4	70	350	Rc1	77	134	28
32	NX321-5.4S	0.4	70	336	Rc1 1/4	45	134	23
	NX321-5.4-e	0.4	70	350	Rc1 1/4	45	134	25
	NX322-5.75S2	0.75	70	366	Rc1 1/4	77	141	29
	NX322-5.75-e	0.75	70	342	Rc1 1/4	77	137	31

■ Assembly drawing

- Nominal diameter 32mm : 1.1 kW
- Nominal diameter 40mm : 1.1 - 3.7kW
- Nominal diameter 50mm : 1.5 - 3.7kW
- Nominal diameter 65mm : 3.7kW



(Unit: mm)			
Nominal diameter	a	b	c
32	74	76	10
40	84	88	10
50	84	88	10
65	105	120	12



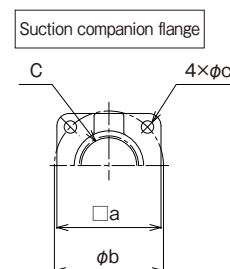
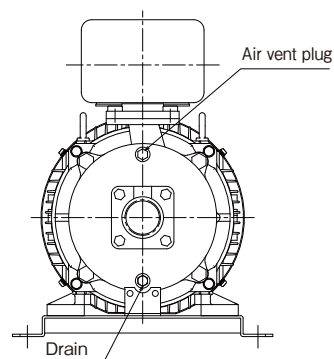
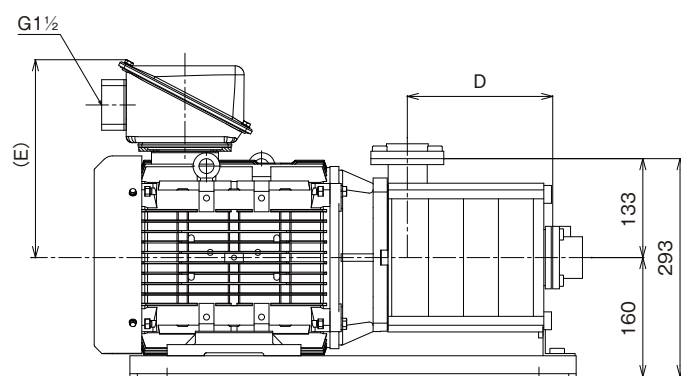
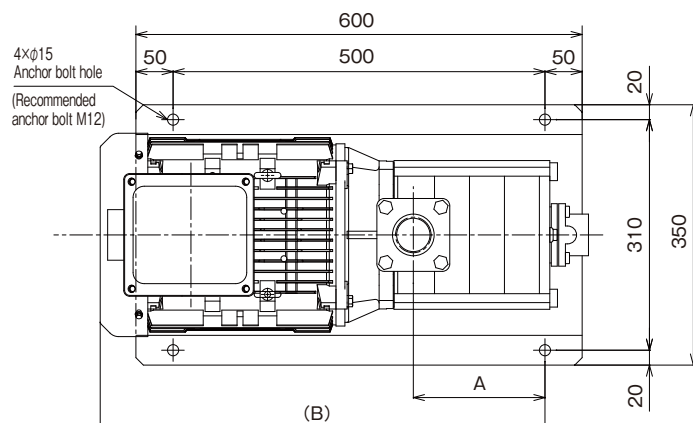
(Unit: mm)		
Nominal diameter	d	e
32	86	90
40	98	105
50	98	105
65	98	105

■ Dimensions

Dimensions								(Unit: mm)
Nominal diameter	Type	Output kW	A	B	C	D	E	Approx. mass kg
32	NX323-51.1-e	1.1	130	437	Rc1¼	108	137	33
	NX324-51.1-e	1.1	130	437	Rc1¼	140	137	35
40	NX401-51.1-e	1.1	70	377	137	55	137	29
	NX402-51.5-e	1.5	130	451	Rc1½	102	148	37
	NX402-52.2-e	2.2	130	466	Rc1½	102	148	41
	NX403-53.7-e	3.7	130	525	Rc1½	149	148	49
50	NX502-51.5-e	1.5	130	451	Rc2	102	148	34
	NX502-52.2-e	2.2	130	466	Rc2	102	148	41
	NX503-53.7-e	3.7	130	525	Rc2	149	148	49
65	NX652-53.7-e	3.7	129	525	Rc2½	128	148	48

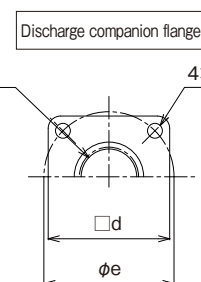
Assembly drawing

- Nominal diameter 40mm : 5.5kW
- Nominal diameter 50mm : 5.5 - 7.5kW
- Nominal diameter 60mm : 5.5 - 7.5kW



(Unit: mm)

Nominal diameter	a	b	c
32	74	76	10
40	84	88	10
50	84	88	10
65	105	120	12



(Unit: mm)

Nominal diameter	d	e
32	86	90
40	98	105
50	98	105
65	98	105

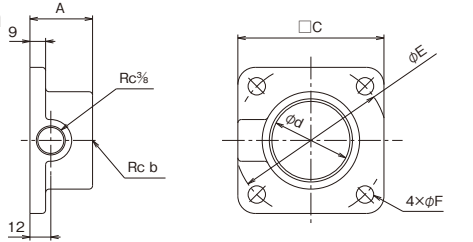
Dimensions

(Unit: mm)

Nominal diameter	Type	Output kW	A	B	C	D	E	Approx. mass kg
40	NX404-55.5-e	5.5	177	598	Rc1½	196	266	76
50	NX503-55.5-e	5.5	177	598	Rc2	149	266	73
	NX504-57.5-e	7.5	177	598	Rc2	196	266	80
65	NX652-55.5-e	5.5	176	599	Rc2½	128	266	72
	NX653-57.5-e	7.5	176	599	Rc2½	184	266	79

Companion flange for taking-out of pressure gauge

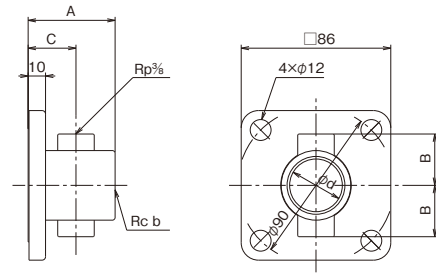
For suction



(Unit: mm)

Parts symbol	Nominal diameter d	A	b	C	E	F	Approx. mass kg
2NX-57C*1	25	34	Rc1	74	76	10	0.4
3NX-57C*1	32	36	Rc1 1/4	74	76	10	0.5
4NX-57C*1	40	36	Rc1 1/2	84	88	10	0.6
5NX-57C*1	50	40	Rc2	84	88	10	0.6
6NX-57C*1	65	44	Rc2 1/2	105	120	12	0.9

For discharge

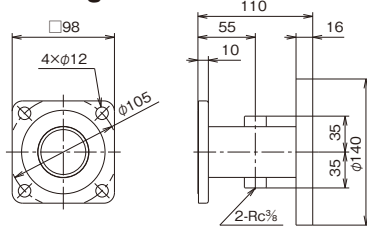


(Unit: mm)

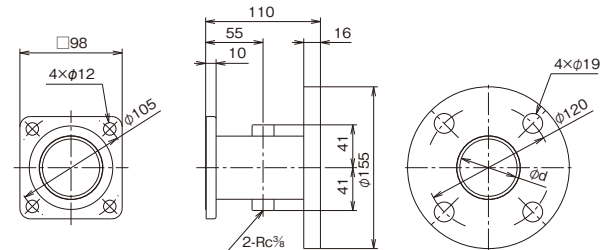
Parts symbol	Nominal diameter d	A	b	B	C	Approx. mass kg
2NXT-57	25	50	Rc1	30	28	0.7
3NXT-57	32	56	Rc1 1/4	35	31	0.8

Short pipe for taking-out of pressure gauge

For discharge

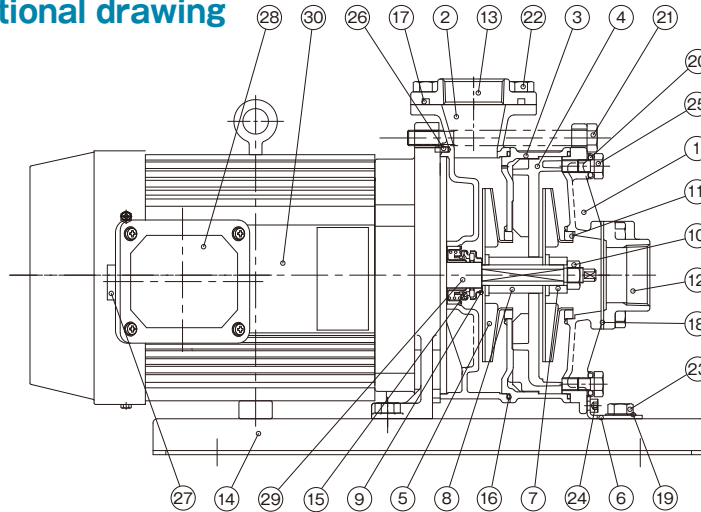


Parts symbol	Nominal diameter d	Approx. mass kg
4NXT-335	40	2.9



Parts symbol	Nominal diameter d	Approx. mass kg
5NXT-335	50	3.0

Example of sectional drawing



Parts list

n: Number of stages

No.	Part name	Qty	Material
1	Suction casing	1	SCS13
2	Discharge casing	1	SCS13
3	Intermediate casing	n-1	SCS13
4	Guide vane	n-1	Plastic
5	Impeller	n	SUS304
6	Mounting leg	1	SUS304
7	Shaft sleeve	1	SUS304
8	Shaft sleeve	n-1	SUS304
9	Shim	*1	SUS304
10	Impeller nut	1	SUS304

No.	Part name	Qty	Material
11	Wearing ring	n	SUS304+NBR *2
12	Suction companion flange	1	SCS13
13	Discharge companion flange	1	SCS13
14	Common base	1	SPHC
15	Mechanical seal	1	Ceramic vs carbon
16	O-ring	n	NBR
17	O-ring	1	NBR
18	Sheet packing	1	NBR
19	Washer	3	SUS304
20	Seal washer	2	SUS304+NBR

No.	Part name	Qty	Material
21	Through bolt	4	SS400
22	Hexagon bolt	8	SS400
23	Hexagon bolt	3	SUS304
24	Hexagon socket head cap screw	2	SUS304
25	Special bolt	2	SUS304
26	Spring pin	1	SUS304
27	Terminal box adaptor	1	C2700
28	Terminal box	1	SPCC
29	Motor shaft	1	SUS304
30	Motor	1	

*1 The quantity is 0 to 4 pieces depending on the pump type.

*2 CAC406 is used for Nominal diameter 40-65mm.

Note) The materials in the table above are equivalents.

Note) Please contact us for high-temperature specification.



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