



Japanese Technology since 1912

JESX

Data Book 50Hz



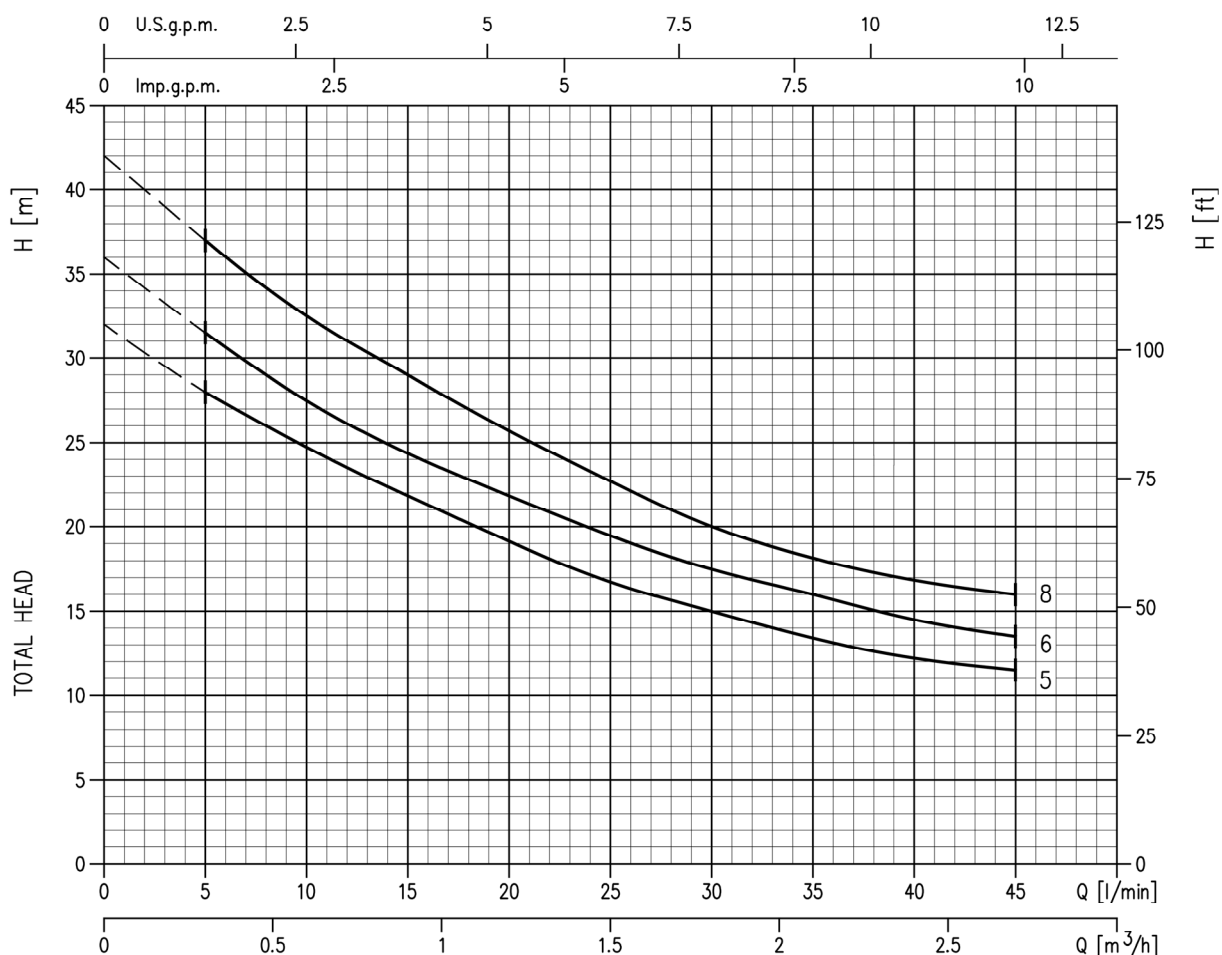
SPECIFICATION

50Hz

Rev.I

PUMP		
Liquid Handled	Type of liquid	Clean water
	Temperature [°C]	min. +5 max. +45
Maximum working pressure [MPa]		0.6
Maximum suction depth [m]		8
Construction	Impeller	Closed centrifugal type
	Shaft seal type	Mechanical seal
	Bearing	Sealed ball bearing
Pipe Connection	Suction [inch]	G 1" UNI ISO 228
	Discharge [inch]	G 1" UNI ISO 228
Material	Casing	AISI 304
	Impeller	PPE+PS glass fibre reinforced
	Casing cover	AISI 304
	Shaft seal	Ceramic/Carbon/NBR
	Shaft	AISI 303 (Wet extension)
	Stages	-
	Ejector	PPE+PS glass fibre reinforced
	Bracket	Aluminium
	Diffuser	PPE+PS glass fibre reinforced
Applicable standard of test		ISO 9906 – Annex A

MOTOR		
Type	Electric - TEFC	
	Single Phase	Three Phase
Efficiency level(Reg.1781/2019)	IE2	IE3
No. of Poles	2	
Rotation speed [min ⁻¹]	≈ 2800	
Insulation Class	F	
Protection degree (CEI EN 60034-5)	IP 54 IP 55 (on request)	
Power rating	0.37 ÷ 0.6	
	0.5 ÷ 0.8	
Frequency [Hz]	50	
Voltage [V]	230 ±10%	230/400 ±10%
Capacitor	Built in	-
Over load protection	Built in	Provided by the user
Casing material	Aluminium	
Motor support	Aluminium	
Dimensions of cable entry	PG 11 (see dimensions page 400)	



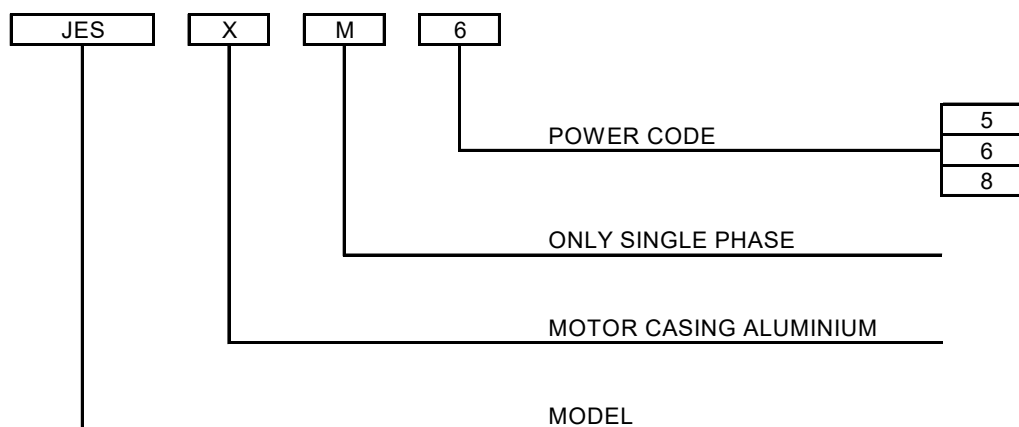
Pump Type		Q=Capacity					
		l/min	0	5	20	40	45
Single Phase	Three Phase	m³/h	0	0.3	1.2	2.4	2.7
		H=Total manometric head in meters					
JESXM 5	JESX 5		32	28	19.5	12	11.5
JESXM 6	JESX 6		36	31.5	22	14.5	13.5
JESXM 8	JESX 8		42	37	26	17	16

TYPE KEY AND CURVE SPECIFICATIONS

50Hz

Rev.I

TYPE KEY



PERFORMANCE CURVE SPECIFICATIONS

The specifications below qualify the curves shown on the following pages.

Tolerances according to ISO 9906 Annex A

The curves refer to effective speed of asynchronous motors at 50 Hz

Measurements were carried out with clean water at 20°C of temperature and with a kinematic viscosity of $\nu = 1 \text{ mm}^2/\text{s}$ (1 cSt)

The NPSH curve is an average curve obtained in the same conditions of performance curves.

The continuous curves indicate the recommended working range. The dotted curve is only a guide.

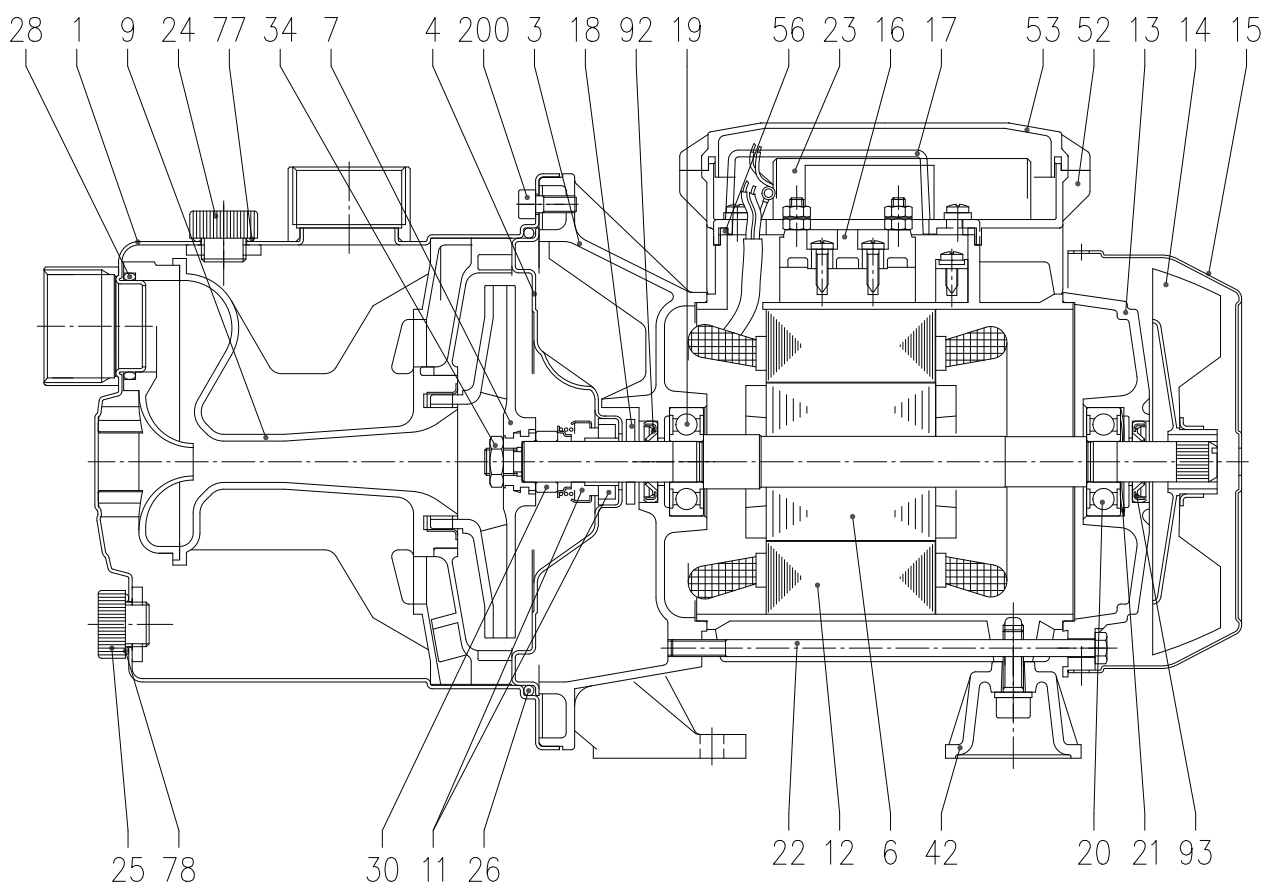
In order to avoid the risk of over-heating, the pumps should not be used at a flow rate below 10% of best efficiency point.

Symbols explanation:

Q = volume flow rate

H = total head

SECTIONAL VIEW



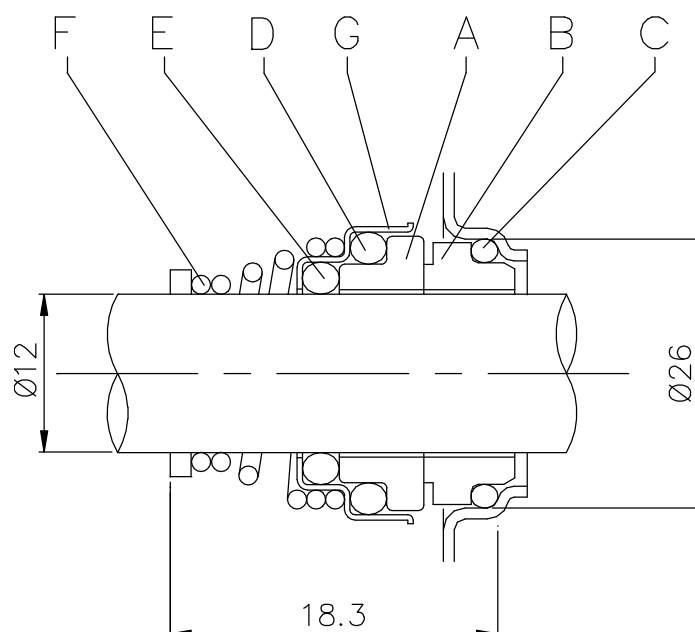
N°	PART NAME	MATERIAL	Q. TY	N°	PART NAME	MATERIAL	Q. TY
1	Casing	AISI 304	1	22	Tie rod	Fe 42 Zincate	4
3	Motor bracket	Aluminium	1	23	Capacitor [1]	-	1
4	Casing cover	AISI 304	1	24	Priming plug	PA	1
6	Shaft with rotor	AISI 303 (Wet extension)	1	25	Drain plug	PA	1
7	Impeller	PPE+PS glass fibre reinforced	1	26	O-ring	NBR	1
9	Diffuser Venturi tube	PPE+PS glass fibre reinforced	1	28	O-ring	NBR	1
11	Mechanical seal	Carbon/Ceramic/NBR	1	30	Mechanical seal spacer	Brass	1
12	Motor frame with stator	-	1	34	Impeller nut (2)	AISI 304	1
13	Motor cover	Aluminium	1	42	Motor support	Aluminium	1
14	Fan	PA	1	52	Capacitor box [1]	ABS	1
15	Fan cover	Fe P04 Zincate	1	53	Capacitor box cover with gasket [1]	ABS+NBR	1
16	Terminal board	-	1	56	Box gasket	NBR	1
17	Terminal box cover [2]	Aluminium	1	77	O-ring	NBR	1
18	Splash ring	NBR	1	78	O-ring	NBR	1
19	Pump side ball bearing	-	1	92	Lip seal [3]	-	1
20	Fan side ball bearing	-	1	93	Lip seal [3]	-	1
21	Adjusting ring	Steel C70	1	200	Screw	Stainless steel A2 UNI7323	6

[1] Only for single phase

[2] Only for three phase

[3] Only for IP55

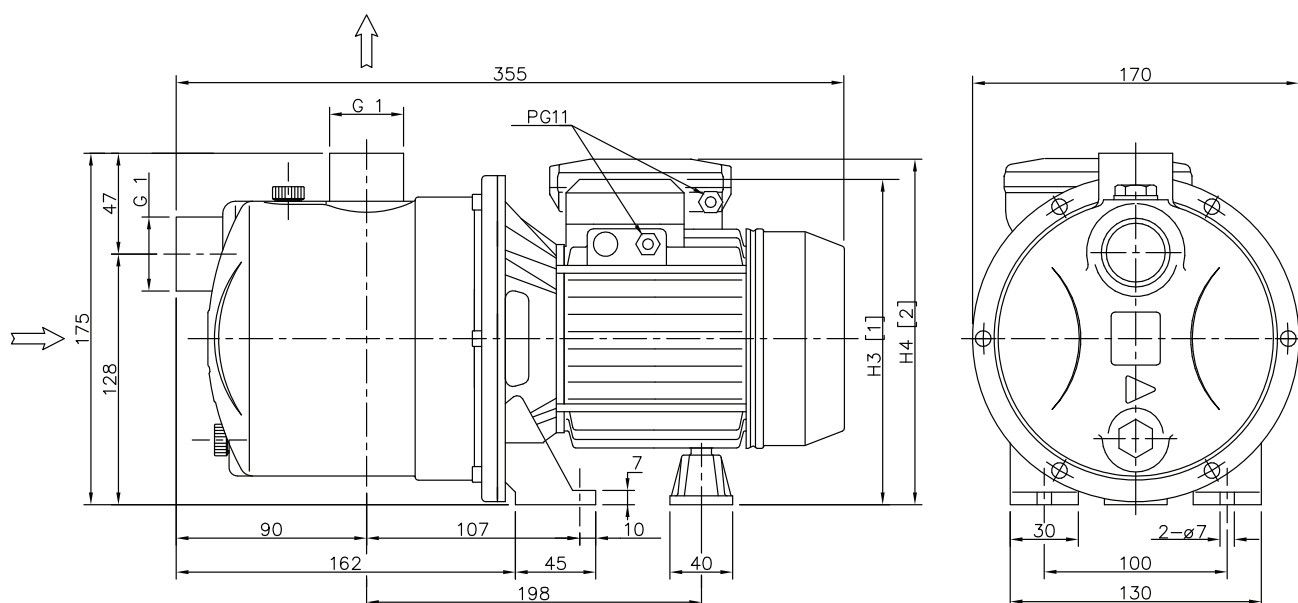
MECHANICAL SEAL



REF	PART NAME	MATERIAL Standard version (JESX)
A	Rotary seal ring	Ceramic
B	Stationary seal ring	Carbon graphite
C	O Ring	NBR
D	O Ring	NBR
E	O Ring	NBR
F	Self driving spring	AISI 316
G	Frame	AISI 304

BEARINGS

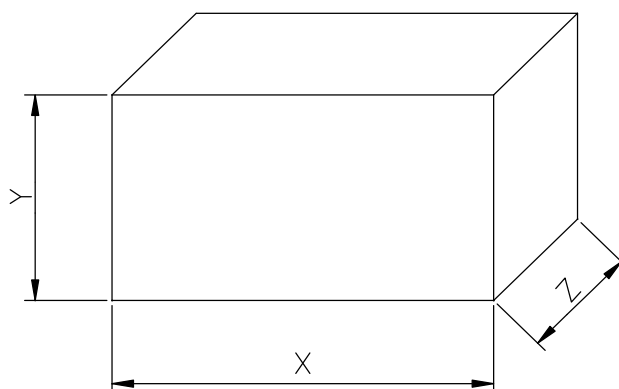
Pump type		Ball Bearing	
Single Phase	Three Phase	Pump side	Fan side
JESXM 5	JESX 5	6201	6201
JESXM 6	JESX 6	6201	6201
JESXM 8	JESX 8	6201	6201

PUMP

Pump type	Dimensions [mm]		Weight [kgf]	
	H3	H4	[1~]	[3~]
JESX 5	175	200	6	5,2
6	175	200	6,5	5,5
8	175	200	7	6

[1] = Three phase

[2] = Single phase

PACKING

Pump type		Packing [mm]				Weight [kgf]	
Single Phase	Three Phase	X	Y	Z		[1~]	[3~]
JESXM 5	JESX 5	239	225	442	442	7	5,7
JESXM 6	JESX 6	239	225	442	442	7,5	6,2
JESXM 8	JESX 8	239	225	442	442	7,5	6,5