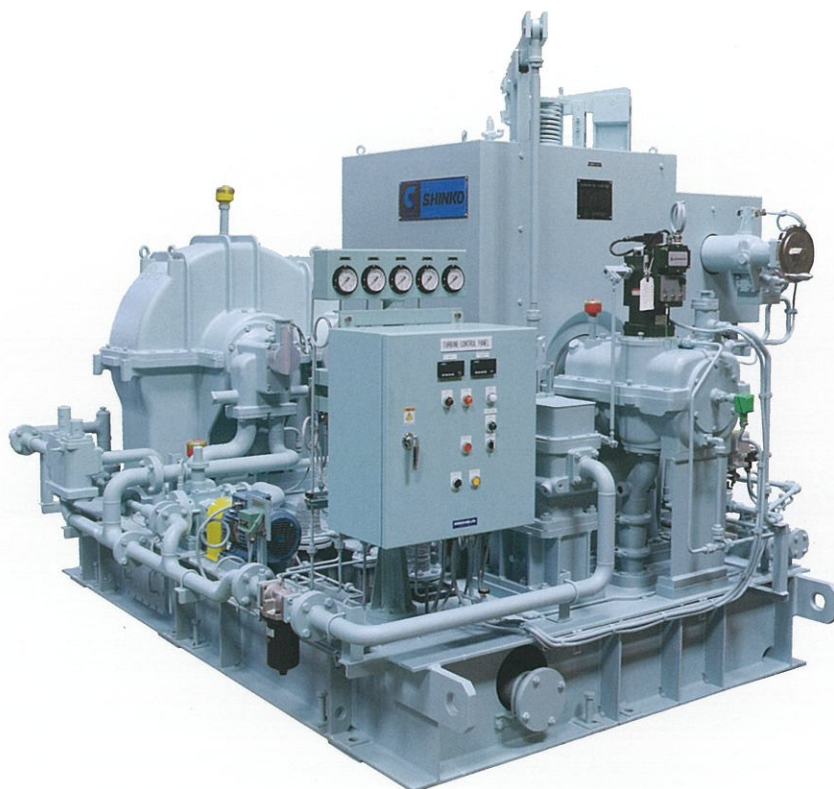


Rateau 3-stage with reduction gear

STEAM TURBINES

RB8

■ GENERAL CHARACTERISTICS

Item	Model	RB8
Max. output	(kW)	3500
Max. speed (turbine shaft)	(rpm)	7000
Speed (output shaft)	(rpm)	1500, 1800
Rotation of output shaft		CCW facing turbine toward driven machine
Max. inlet steam pressure	(MPaG)	4.2
Max. inlet steam temperature	(°C)	425
Max. exhaust steam pressure	(MPaG)	0.5
Steam inlet bore	(mm)	200
Steam exhaust bore	(mm)	400
Lubrication system		Forced lubrication
Main LO pump	(m ³ /h x MPaG)	20 × 0.8
Prim. LO pump	(m ³ /h x MPaG)	9 × 0.35
Control system		Automatic 3 valves nozzle control
Governor		Woodward UG-25+
Gland seal		Labyrinth packing
Weight (without generator)	(kg)	11500

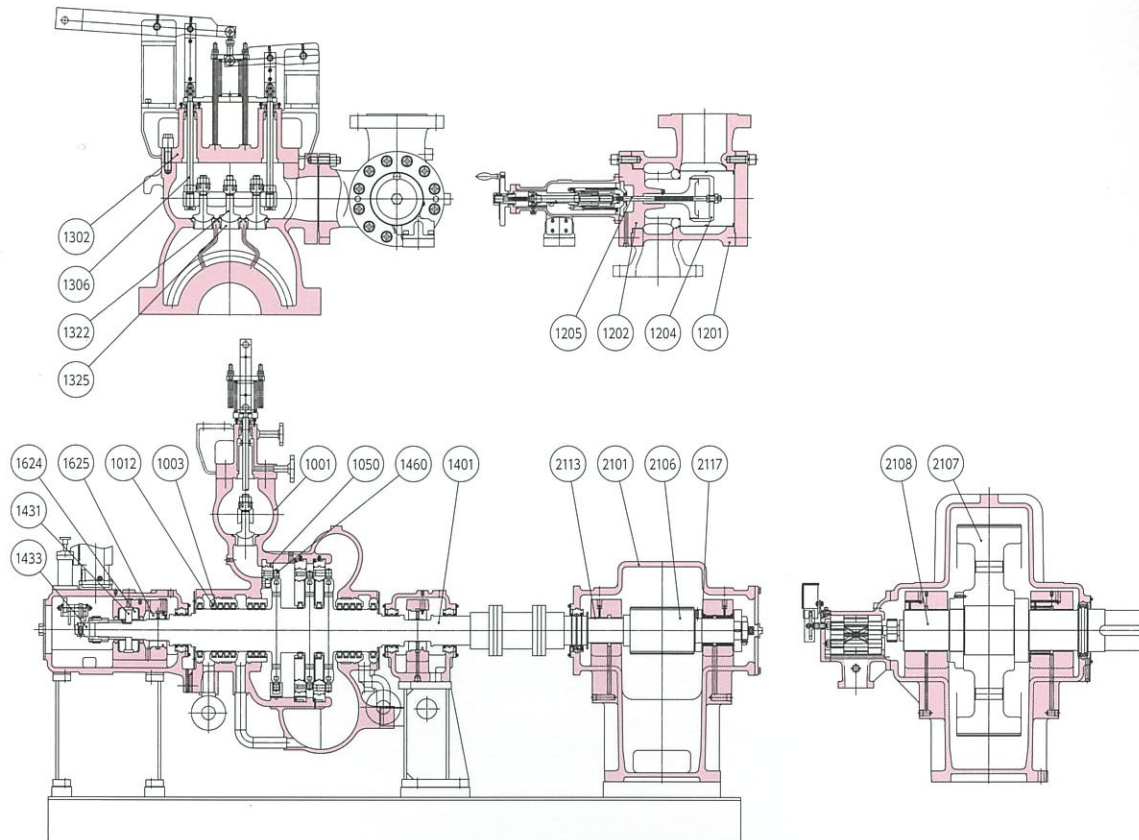
Governor

Max. speed regulation 0.5% , 0~4%
 Max. speed variation ±0.25%
 Max. speed rise 7%
 Speed range +5% ~ -40%
 NEMA class D

Emergency Trip Device

Overspeed trip 110% of rated speed
 Low LO pressure trip Below 0.05 MPaG
 Turbine rotor axial movement trip ±0.7mm

DESIGN & MATERIALS



PART NO.	NAME OF PART	MATERIAL		REQ.NO. FOR 1 TURBINE	PART NO.	NAME OF PART	MATERIAL		REQ.NO. FOR 1 TURBINE
		NAME	JIS				NAME	JIS	
1001	TURBINE CASING	CAST STEEL	SCPH2	1	1401	TURBINE ROTOR	3%Cr-Mo STEEL		1
1003	PACKING CASE	CARBON STEEL	S35C	5 SETS	1431	THRUST COLLAR	CARBON STEEL	S35C	1
1012	LABYRINTH PACKING	NI-BRASS CASTING		15 SETS	1433	OVERSPEED TRIP SHAFT	CARBON STEEL	S35C	1
1050	NOZZLE PLATE	CARBON STEEL STAINLESS STEEL	S25C SUS403	1 SET	1460	MOVING BLADE	STAINLESS STEEL	SUS410J1	1 SET
1201	EMERGENCY STOP VALVE CASING	CAST STEEL	SCPH2	1	1625	BEARING METAL	WHITE METAL WITH STEEL	WJ2 S25C	1 SET
1202	EMERGENCY STOP VALVE CASING COVER	CAST STEEL	SCPH2	1	1627	THRUST BEARING METAL	WHITE METAL WITH STEEL	WJ2 S25C	1 SET
1204	VALVE	STAINLESS STEEL	SUS420J2	1	2101	REDUCTION GEAR CASING	CAST IRON	FC200	1
1205	VALVE STEM	STELLITE		1	2106	PINION	Ni-Cr-Mo STEEL	SNCM439	1
1302	GOVERNOR VALVE CASING COVER	CAST STEEL	SCPH2	1	2107	WHEEL	Cr-Mo STEEL	SCM440	1
1306	VALVE STEM	Al-Cr-Mo STEEL	SACM645	2	2108	WHEEL SHAFT	FORGED STEEL	SF540A	1
1322	GOVERNOR VALVE	STAINLESS STEEL	SUS420J2	3	2113	BEARING METAL	AL-ALLOY METAL WITH STEEL		1 SET
1325	GOVERNOR VALVE SEAT	STAINLESS STEEL	SUS420J2	3	2117	THRUST BEARING METAL	WHITE METAL WITH STEEL	WJ2 S25C	1 SET

OUTLINE DIMENSIONS

Dimensions : mm

