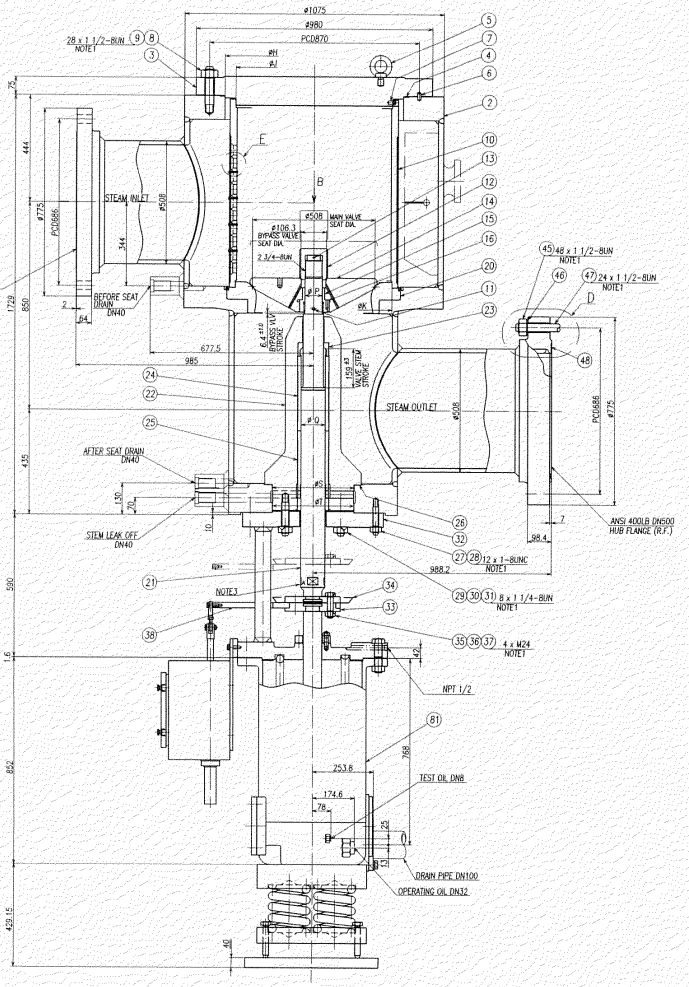
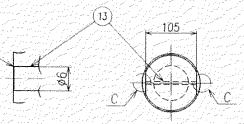
7-149 ~ 7-167

DDK103859-a
21/32

DESIGN DATA

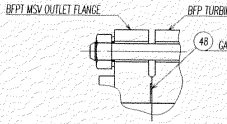
- DESIGN PRESSURE : 9 bar(g)
- DESIGN TEMPERATURE : 370 °C
- HYDROSTATIC PRESSURE : 13.5 bar(g)



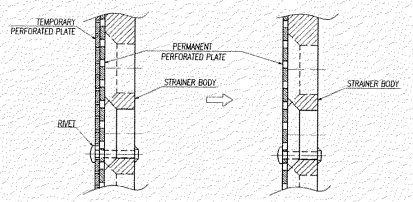


DETAIL-C (SCALE 1:5)

VIEW-B (SCALE 1:5)



DETAIL-D (SCALE 1:5)



DETAIL E (NOTE 8)
S=1:2

PARTS LIST

P.No.	PARTS NAME	QTY.	MATERIAL
2	CASING	1	JIS G 3103 SB450
3	UPPER HEAD	1	JIS G 3103 SB450
4	GASKET	1	GRAPHITE + Ni ALLOY600
5	EYE BOLT	3	JIS G 3101 SS400
6	PIN	1	JIS G 4051 S45C
7	PIN	1	1CrMoV alloy steel
8	TAP STUD	28	JIS G 4053 SCM435
9	HEX NUT	28	JIS G 4053 SCM435
10	STRAINER	1	JIS G 3103 SB450 + SUS410
11	PIN	1	JIS G 4053 SACM645 + NITRIDING
12	BYPASS VALVE	1	1CrMoV alloy steel + STELLITE
13	PIN	1	JIS G 4053 SCM435
14	VALVE MSV	1	JIS G 3103 SB450 + STELLITE
15	BUSH MSV	1	JIS G 4053 SACM645+ NITRIDING
16	KEY	1	JIS G 4053 SACM645
20	VALVE SEAT	1	JIS G 3103 SB450 + STELLITE
21	VALVE STEM	1	JIS G 4053 SACM645 + NITRIDING
22	SEAL HEAD	1	JIS G 4051 S25C
23	SEAT RING	1	JIS G 4053 SACM645 + STELLITE
24	BUSH UPPER	1	JIS G 4053 SACM645 + NITRIDING
25	BUSH LOWER	1	JIS G 4053 SACM645 + NITRIDING
26	PACKING	1	JIS G 3141 SPCC-SD
27	TAP STUD	12	JIS G 4053 SCM435
28	HEX NUT	12	JIS G 4053 SCM435
29	TAP STUD	8	JIS G 4053 SCM435
30	HEX NUT	8	JIS G 4053 SCM435
31	LOCK PLATE	1 set	JIS G 3141 SPCC-SD
32	YOKE	1	JIS G 3101 SS400
33	COUPLING	1	JIS G 3101 SS400
34	DRAIN CUT	1	JIS G 3141 SPCC-SD
35	REAMER BOLT	4	JIS G 4051 S45C
36	HEX NUT	4	JIS G 4051 S45C
37	LOCK PLATE	4	JIS G 3141 SPCC-SD
38	LEVER	1	JIS G 3101 SS400
45	HEX NUT	48	JIS G 4053 SCM435
46	PLAIN WASHER	48	JIS G 4051 S45C
47	D.E.STUD	24	JIS G 4053 SCM435
48	GASKET	1	GRAPHITE + Ni ALLOY600
81	ACTUATOR	1	-

NOTE

1. Lubricate hot bolted and nut threads with anti-seize compound (NEVER SEEZ Standard grade).
2. Studs ⑧ and Nuts ⑨ require tightening with 0.12 to 0.15mm. (tightening angle : 8 to 12 deg.)
3. Turn Mark "A" of MSV stem ㉑ toward the steam inlet.
4. Check seat contact between MSV disc and valve seat, to obtain 360° continuous line contact.
5. Tighten Bolts, Nuts and Connector with Torque value specified in the drawing (See Torque Table.)
6. For Stud extension of Outlet flange, see "Stud extension" table.
7. Reference drawing
   OUTLINE DRAWING FOR BFPT MAIN STOP VALVE
   Doc. No.: TJB56-L1-OFF-C-XAA-M-DRD-2660 (1KT004223)
8. Temporary perforated plate of strainer shall be used in commisioning stage only. After commisioning, remove temporary perforated plate and re-assemble the strainer in the Casing.

TIGHTENING TORQUE TABLE

P. No.	BOLT SIZE	TIGHTENING TORQUE (±10%)
㉑	2 3/4-8UN	918.0N·m(93.6Kg.m)
㉘	1-8UNC	392.0N·m(40.0Kg.m)
㉚	1 1/4-8UN	823.0N·m(84.0Kg.m)

CLEARANCE TABLE

LETTER	HOLE	SHAFT	CLEARANCE
øH	CASING ø740.35 +0.13 0	UPPER HEAD ø739.95 0 -0.13	C=0.40~0.66
øJ	STRAINER ø650.0 +0.9 +0.7	UPPER HEAD ø650.0 -0.1 -0.45	C=0.60~0.90
øK	STRAINER ø650.0 +0.45 +0.3	VALVE SEAT ø650.0 -0.1 -0.45	C=0.60~0.90
øP	BUSH ø72.00 +0.025 +0.8	STEM ø72.0 -0.255 -0.270	C=0.255~0.295
øQ	BUSH ø100.08 +0.056 -0	STEM ø99.80 -0.055 -0.079	C=0.335~0.411
øS	CASING ø340.0 +0.025 0	SEAL HEAD ø339.87 0 -0.025	C=0.13~0.18
øT	CASING ø338.0 +0.025 0	SEAL HEAD ø337.87 0 -0.025	C=0.13~0.18

WEIGHT:

TOTAL WEIGHT.....8000 kg (approx.)
Weight of UPPER HEAD.....715 kg (approx.)
Weight of STRAINER.....430 kg (approx.)
Weight of MSV CASSETTE ASSEMBLY.....660 kg (approx.)
Weight of ACTUATOR (with YOKE).....1000 kg (approx.)

KKS CODE		EQUIPMENT
XIT05	XIT06	
50LAC11AA201	60LAC11AA201	BFP-T(A) MAIN STOP VALVE
50LAC12AA201	60LAC12AA201	BFP-T(B) MAIN STOP VALVE

REV	DATE	DESCRIPTION	BY	CHKD	APPD
C	FEB.'19	REVISED AS PER CUSTOMER COMMENTS	SA	RT	RT
B	OCT.'18	REVISED AS PER CUSTOMER COMMENTS	SA	RJ	RT
A	MAR.'18	FIRST ISSUE	SA	RT	RT

OWNER: PT.Bhumi Jati Power

PROJECT TITLE: TANJUNG JATI B EXPANSION (JAWA-4) COAL FIRED STEAM POWER PLANT 2 x 1,000 MW

OWNER'S ENGINEER: POYRY

EPC CONTRACTORS: Sumitomo Corporation / PT. Wasa Mitra Engineering / AvantPower Japan Ltd.

PROJECT DRAWING NO.: TJB56-L1-OFF-C-XAA-M-DRD-2746 REV C

EPC LOT SUB-CONTRACTOR: TOSHIBA

EPC LOT SUB-CONTRACTOR DRAWING NO.: 1KT004283 REV C

SHEET NO. 1 OF 1

TITLE: SECTION DRAWING FOR BFPT MAIN STOP VALVE

SCALE: 1:10 UNITS: mm

DRS-M014346	DRS-M014172	NDS-M516050
R.Takenaru FEB.'19	R.Takenaru OCT.'18	承認 APPROVED BY
R.Takenaru FEB.'19	R.Takenaru OCT.'18	調査 REVIEWED BY
S.Manikandan FEB.'19	S.Manikandan OCT.'18	担当 PREPARED BY
C - XIT05	B - XIT05	REV 番号 XIT05
Revised as per customer comments	Revised as per customer comments	記事 CONTENTS

承認 APPROVED BY	調査 REVIEWED BY	担当 PREPARED BY
R.Takenaru AUG.'18	R.Takenaru AUG.'18	S.Manikandan AUG.'18

TOSHIBA 東芝エネルギーシステムズ株式会社
TOSHIBA ENERGY SYSTEMS & SOLUTIONS CORPORATION

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Toshiba Energy Systems & Solutions Corporation
Keihin Product Operations

図面番号 DRAWING NO.: 1KT004283 REV C

(株)) 図面管理室 2019/04/16 電子承認システム適用