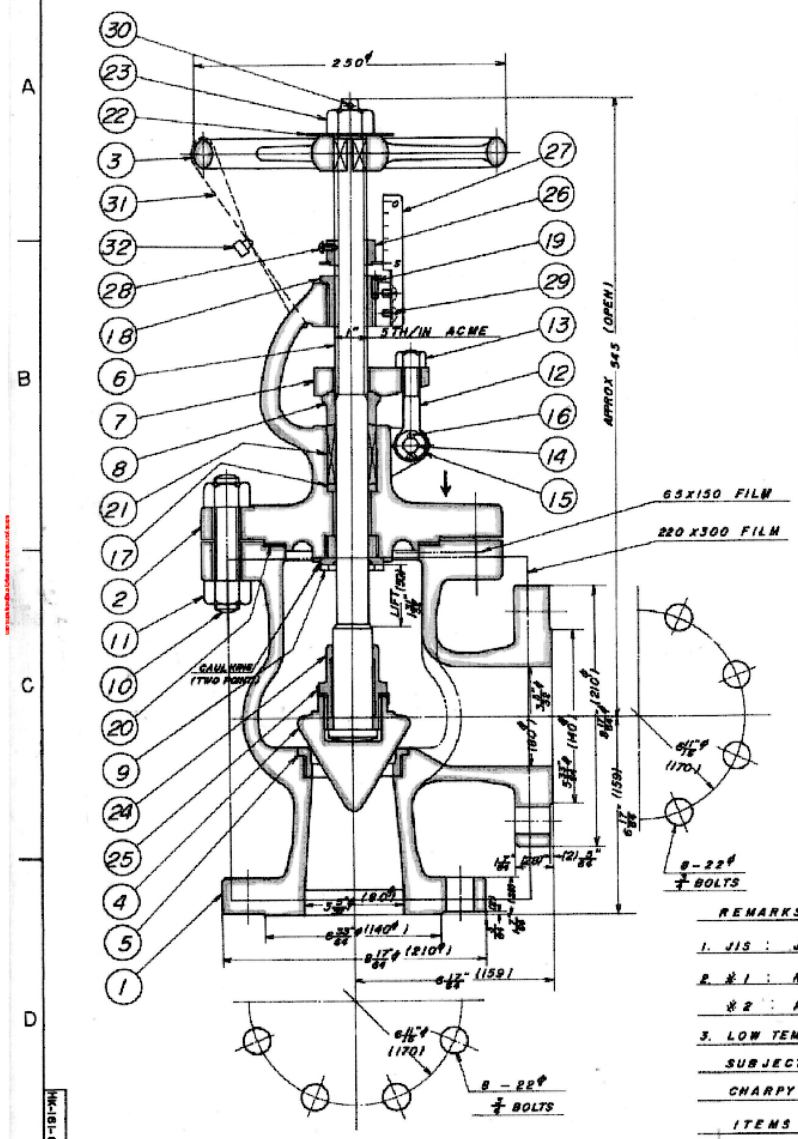
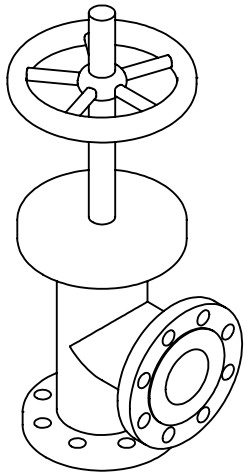
NO.	REVISIONS	DATE	REVISED	CHK
A	CHANGED MATERIAL OF ③, ⑤ ADDED FILM POSITION. ADDED TEST LOAD OF ①②③④⑤⑥	THU 10-06	T. Takamoto	



PART NO.	NAME OF PARTS	MATERIAL	CODE (JIS)	QUANTITY
1	VALVE BODY	B.S. 1504-161 Gr B	SC 49	1
2	VALVE BONNET	B.S. 1504-161 Gr B	SC 49	1
3	HAND WHEEL	MALLEABLE CAST IRON	FCMB 28	1
4	VALVE DISC	B.S.1504-713	SUS 53	1
5	BODY SEAT	B.S.1504-713	SUS 52	1
6	STEM	STAINLESS STEEL	SUS 30	1
7	GLAND FLANGE	CARBON STEEL	S 25C	1
8	GLAND	STAINLESS STEEL	SUS 53	1
9	BONNET BUSH	STAINLESS STEEL	SUS 53	1
10	BONNET BOLTS	B.S. 1506-621 Gr A	SCM 3	8
11	BONNET BOLT NUTS	B.S. 1506-162	S 45C	16
12	EYE BOLTS	CARBON STEEL	S 25C	2
13	EYE BOLT NUTS	CARBON STEEL	S 20C	2
14	EYE BOLT PINS	CARBON STEEL	S 25C	2
15	WASHERS	MILD STEEL	SS41	2
16	SPLIT PINS	STEEL WIRE	SWRM 3	2
17	PACKING RING	STAINLESS STEEL	SUS 53	1
18	YOKE BUSH	ALUMINIUM BRONZE	ALBC 2	1
19	SET SCREW	MILD STEEL	SS 41	1

PART NO.	NAME OF PARTS	MATERIAL	CODE (JIS)	QUANTITY
20	GASKET	SPIRAL WOUND GASKET STAINLESS STEEL & ASBESTOS	# 1	1
21	GLAND PACKING	GRAPHITE BRAIDED ASBESTOS PACKING	# 2	1
22	NAME PLATE	ALUMINIUM PLATE	ALBI-1/4H	1
23	WHEEL NUT	MILD STEEL	SS 41	1
24	DISC STEM RING	STAINLESS STEEL	SUS 53	1
25	LOCK PLATE	STAINLESS STEEL	SUS 51P	1
26	INDICATOR	BRASS	BS BF	1
27	INDICATOR PLATE	ALUMINIUM PLATE	ALPI-1/4H	1
28	SET SCREW	MILD STEEL	SS 41	1
29	SET SCREWS	MILD STEEL	SS 41	2
30	SPLIT PIN	STEEL WIRE	SWRM 3	1
31	LOCKING CHAIN	CARBON STEEL	S 8 C	1
32	PAD LOCK	MILD STEEL	SS 41	1

HITACHI VALVE NO.	DESIGN PRESS. kg/cm² (PSI)	DESIGN TEMP °C (°F)	HYDRAULIC TEST PRESS. kg/cm² (PSI) BODY / SEAT	NAME PLATE INSCRIPTION	APPROX WEIGHT kg (LBS)
NO.10	30 (426.7)	25 (77)	1.5 (21.3) / 1.1 (15.6)		55 (121)



REMARKS

1. JIS : JAPANESE INDUSTRIAL STANDARD.
2. # 1 : NIPPON VALQUA IND. CO. LTD. STYLE NO. 590
   # 2 : NIPPON VALQUA IND. CO. LTD. STYLE NO. 135 .
3. LOW TEMPERATURE IMPACT TEST IN ACCORDANCE WITH BS. 131 SUBJECT TO A MINIMUM OF 15 FT/LBS WHEN TESTED BY CHARPY V-NOTCH METHOD AT -10°C , TO BE APPLIED TO ITEMS 1, 2, 4, 5, 10 AND 11 .

Hitachi Ltd.

MP-M2-1113

FINAL DRAWING

AUSTRALIA SNOWY MOUNTAINS HYDRO-ERECTRIC AUTHORITY
MURRAY 2 POWER STATION

DWN. T. Takamoto 11. AUG '65
CHKD. F. Abri
APPD. M. Ishiori

THIRD ANG. PROJ.
SCALE 1/4

ASSEMBLY OF 3" DIA. NEEDLE VALVE FOR (VALVE NO. 10) FLOW CONTROL OF P.R.V.

Hitachi, Ltd.
Tokyo Japan

HK-161-620

REV. A

UNLESS OTHERWISE SPECIFIED: TOLERANCES: MACHINE + / - 0.25mm FABRICATION + / - 1.0 mm

DIMENSIONS IN MILLIMETRES

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MECS
Mechanical Engineering & CAD Services
11 Campbell Place WAGGA NSW 2650
Ph: - 0409 985 816
Email: nick@mecservices.com.au

THIRD ANGLE PROJECTION

WEIGHT: 0 kg

CLIENT
RODDY ENGINEERING
14 Waratah St TUMUT NSW 2720
Ph: - 02 6947 4039
Email: roddyeng.com.au

TITLE: VALVE 2953 -80NB NEEDLE VALVE SHL DWG MP-M2-1113

DWG NO. OEM-2953-SHL

A4

DRAWN N DE BRUYN DATE 4/12/2025 SCALE:1:10 SHEET 1 OF 1