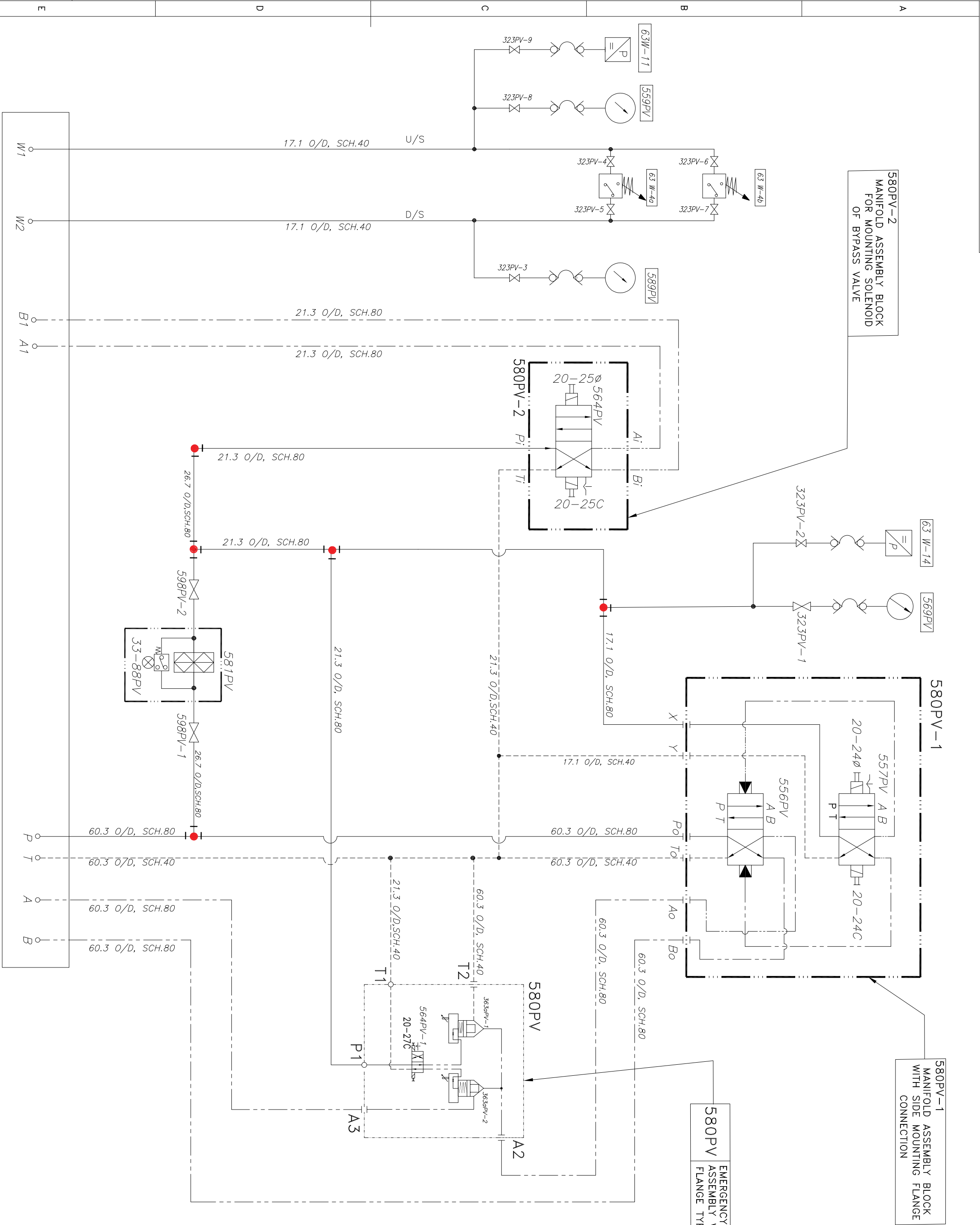


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- NOTE:
1. ALL DEVICE SHOWN IN CLOSED,DE-ENERGISED AND DE-PRESSURISED CONDITION.
 2. ALL PRESSURE SWITCHES AND PRESSURE GAUGE SHOULD BE CONNECTED TO ISOLATING VALVES (323PV) THROUGH MINNESS COUPLING.

ELECTRICAL DEVICES	
Device No.	Description
20-24-ø/C	SOLENOIDS TO OPEN & CLOSE OF 557PV
20-25-ø/C	SOLENOIDS TO OPEN & CLOSE BYPASS VALVE SERVO 564PV
20-27C	SOLENOIDS TO EMERGENCY CLOSE OF BIV SERVO
63W-4ø & 4b	PRESSURE SWITCH (DIFFERENTIAL TYPE)
33-88PV	VISUAL AND ELECTRICAL CLOGGING INDICATOR
63W-14	PRESSURE TRANSMITTER WITH COCK ON OIL PRESSURE LINE
63W-11	PRESSURE TRANSMITTER FOR UPSTREAM WATER PRESSURE

MECHANICAL DEVICES	
Device No.	Description
556PV	MAIN DISTRIBUTING VALVE FOR BIV SERVO
557PV	SOLENOID OPERATING PILOT VALVE FOR 556PV
559PV	PRESSURE GAUGE WITH COCK ON U/S
564PV	SOLENOID FOR BYPASS VALVE
564PV-1	SOLENOID FOR EMERGENCY CLOSING VALVE
569PV	PRESSURE GAUGE WITH COCK FOR OIL PRESSURE
581PV	DUPLEX OIL FILTER WITH CLOGGING INDICATION
589PV	PRESSURE GAUGE WITH COCK ON D/S OF BIV
599PV-1&2	ISOLATING VALVE ON 581PV
363øPV-1&2	LOGIC CARTRIDGE VALVES OF EMERGENCY CLOSING MANIFOLD
580PV	EMERGENCY CLOSING MANIFOLD FOR BIV SERVO
580PV-1	MANIFOLD ASSEMBLY FOR MOUNTING 556PV
580PV-2	MANIFOLD ASSEMBLY FOR MOUNTING 564PV

COLOUR CODE:	
PRESSURE PIPE	YELLOW RAL 1016
DRAIN PIPE (GILD)	BROWN RAL 8012
EXTERNAL PIPE	WHITE RAL 9002
INTERNAL PIPE	PEBBLE GRAY RAL 7032
ACCUMULATOR	RED RAL 2010
EXTERNAL BOTTLE	WHITE RAL 9002
INTERNAL BOTTLE	WHITE RAL 9002
NE PIPE	WHITE RAL 9002
NE BOTTLE BANK	PEBBLE GRAY RAL 7032

NOTE - COLOUR CODE GIVEN IN THE TABLE ARE TENTATIVE. IT WILL BE FINALLY APPROVE BY THE CUSTOMER DURING DRAWING APPROVAL.

LEGENDS:

WATER CONNECTION :

W1 - WATER CONNECTION FROM UPSTREAM OF BIV (3/8" BSP WITH PLUG)

W2 - WATER CONNECTION FROM DOWNSTREAM OF BIV (3/8" BSP WITH PLUG)

OIL CONNECTION FOR BYPASS AND BIV SERVO MOTOR:

A1 & B1 - TO OPENING & CLOSING PORT OF BYPASS VALVE (1/2" BSP WITH PLUG)

P - 50 NB DIN, PN100 ATA FOR PRESSURE LINE WITH MATCHING BLANK FLANGE

T - 65 NB DIN, PN16 ATA FOR DRAIN LINE WITH MATCHING BLANK FLANGE

A - 50 NB DIN, PN100 ATA FOR CONTROL LINE WITH MATCHING BLANK FLANGE

P - 50 NB DIN, PN100 ATA FOR CONTROL LINE WITH MATCHING BLIND FLANGE

MANIFOLD ASSEMBLY [580PV-1]:

Po,To,Aø & Bo - 50 NB, SIDE FLANGE CONNECTION

X, Y - PILOT PRESSURE & DRAIN PORT (3/8" BSP)

EMERGENCY CLOSING MANIFOLD ASSEMBLY [580PV]:

A2 & A3 - 50 NB FLANGE CONNECTION, PN100 ATA

T2 - 65 NB FLANGE CONNECTION, PN 16 ATA

X, Y - PILOT PRESSURE & DRAIN PORT (1/2" BSP)

MANIFOLD ASSEMBLY [580PV-2]:

Pi, Ti, Ai & Bi - CONNECTION FOR PRESSURE & CONTROL OF BYPASS VALVE (1/2" BSP)

INVENTORY NO.	SIGN AND DATE	REF. DRG. NO.
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IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

REV.	DATE	REV.	DATE
	ALTERED		ALTERED
	CHECKED		CHECKED
	APPROVED		APPROVED

ADDITIONAL INFORMATION		PROJECT	6x170MW PUNATSANGCHHU-II HEP
STATUS OF DRAWING		CUSTOMER	PHA-II BHUTAN
DISTRIBUTION OF PRINTS		CONSULTANT	WAPCOS LIMITED, GURGAON
HPE-2		CUSTOMER-5	CENTRAL ELECTRICITY AUTHORITY, NEW DELHI
CONTRACTOR		ISSUED BY	BHARAT HEAVY ELECTRICALS LTD.
SUB-SUPPLIER/VENDOR		UNITS/DIMS. GR.	1/75
		SCALE	1/75
		WEIGHT (KG)	--
		REF. TO ASSY. DRG.	--
		ITEM NO. OF REV.	--
		DRAWING NO.	22170118801
		REV.	00