THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WITH ALL RIGHTS AND TITLES RESERVED AND MAY NOT BE REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN CONSENT OF CONTROL COMPONENTS INC.

PARTS LIST

NO	NAME	MATERIAL	QTY	REMARKS
1	BODY	A182 F11 Cl.2	1	
2	BONNET	A182 F11 Cl.2	1	
3	STUD, BONNET	A193-B16	10	
4	NUT, HEX, BONNET	A194-3	10	
5	PLUG	410 SS	1	HEAT TREAT
6	STEM	410 SS	1	HEAT TREAT
7	GASKET, FLEXITALLIC	GRAPHITE/300 SS	1	
8	GASKET, FLEXITALLIC	GRAPHITE/300 SS	3	
9	SEAT RING	410 SS	1	HEAT TREAT
10	DISK STACK	410 SS	1	
11	BONNET SPACER	410 SS	1	
12	GUIDE, BUSHING	410 SS	1	
13	SEAL, PLUG	GRAPHITE	1	
14	PACKING, STEM	GRAPHITE	1 SET	
15	PACKING, SPACER	CARBON	1	
16	YOKE	CARBON STEEL	1	
17	ACTUATOR	PISTON	1	STI
18	N/R			
19	N/R			
20	NAME PLATE	316 SS	1	
21	WIRING TAG PLATE	316 SS	1	
22–40				

ENGINEERING DATA

MAIN ELEMENT

PRESS. CLASS	2500 ASME
DESIGN PRESS./DESIGN TEMP.	29,8 MPAG / 375°C
MAX. PRESS. AT 100F	430,9 BARG (43,09 MPAG)
NUCLEAR CLASS	N/A
HYDROTEST PRESSURE	647 BARG (64.7 MPAG)
MAX. Cv AT 100% STROKE	389
MAX. SEAT LEAKAGE	10.8 CC/MIN @ 29.8 MPAG (298 BARG) ⚠4
BONNET FLG. NUT TORQUE	2407-2660 N-M

OPERATOR

TYPE	PNEUMATIC-PISTON				
SUPPLY	0.5-0.8 MPAG				
SIGNAL	IN	4 ~ 20 mA HART	OUT	4 ~ 20 mA	
INCREASING SIGNAL	OPENS	ELEMENT			
SHAFT	EXTENDS	TO CLOSE ELEMENT			
FAILURE POSITION / MECHANISM	Valve in Place				
NOMINAL STROKE	152,4 MM (6 IN)				
STROKE TIME (SEC)	< 20 SEC	OPEN	< 20 SEC	CLOSE ⚠8	
VALVE AND OPERATOR WEIGHT	2000 KGS APPROX.				

NOTES:

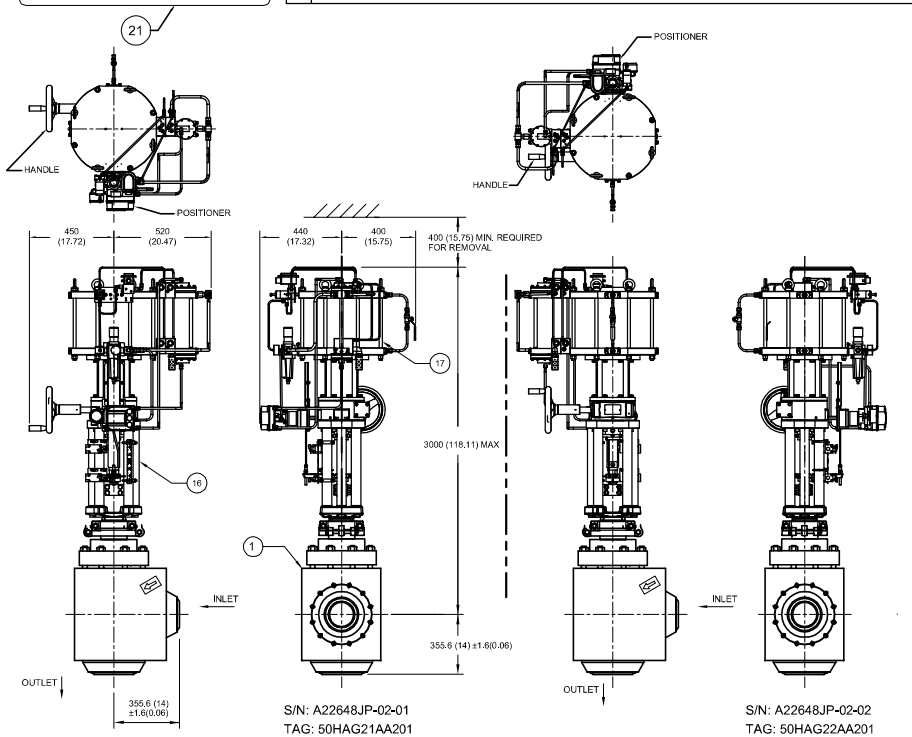
1. VALVE ORIENTATION TO BE STEM VERTICAL WITH ACTUATOR UP.
2. MODEL NO.
3. ALL DIMENSIONS WITHOUT STATED TOLERANCES ARE FOR REFERENCE ONLY.
⚠4. SEAT LEAKAGE PER
5. ALL DIMENSIONS ARE IN MM, EXCEPT ( ) ARE IN INCHES.
6. STANDARD CCI TAGGING ONLY.
7. REMOVE VALVE INTERNALS PRIOR TO POST WELD HEAT TREAT.
⚠8. QUICK CLOSE TIME < 5 SEC

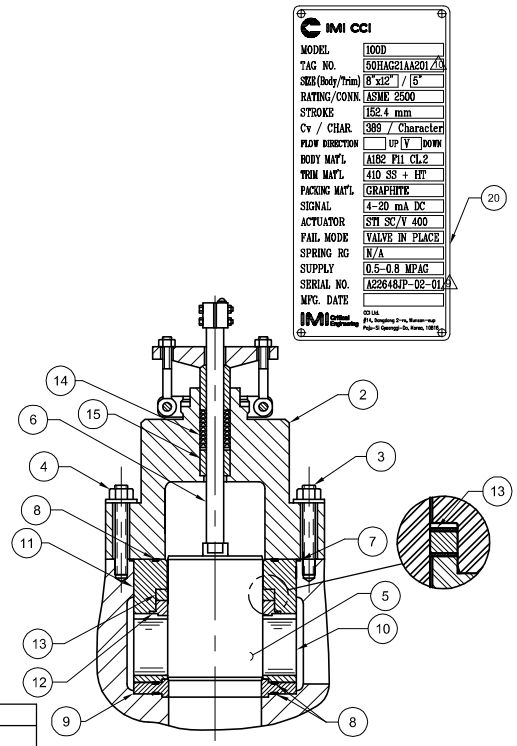
ACAD Generated Dwg.

REVISIONS

LTR.	DESCRIPTIONS	DATE	APPROVED
-	RELEASED	08MAR18	ID KIM
A	CHANGED END CONNECTION	28MAR18	ID KIM
B	CHANGED HANDLE WHEEL LOCATION, ADDED PNEUMATIC DRAWING	06JUL18	CH PANG
C	CHANGED BW END DETAIL	20AUG18	CH PANG
D	CORRECTED UNIT TYPOS FOR THE TEST PRESSURE OF MAX. SEAT LEAKAGE (WAS MAPG, IS MPAG)	29OCT18	CH PANG
E	ADDED BOLT INFORMATION FOR HYDRO TEST AT INLET AND OUTLET CONNECTION DETAIL	27NOV18	CH PANG

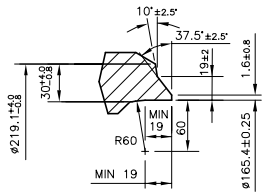
TAG: 50HAG21AA201 ⚠1
8 X 12, ANGLE, 2500ASME
S/N: A22648JP-02-01 ⚠2





BODY SECTIONAL VIEW

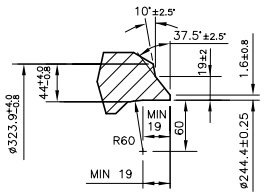
INLET CONNECTION OD 219.1 x ID 165.4



BOLT FOR HYDRO TEST
BOLT CIRCLE DIA : 381 (15)
NUMBER OF BOLTS : 12
THREAD SIZE : 1"-8 UNC-2B
DEPTH OF THREAD : 29.97 - 36.32 (1.18 - 1.43)

HOLES TO STRADDLE CENTER LINE.

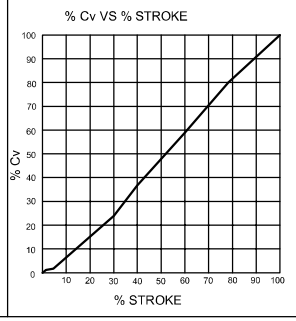
OUTLET CONNECTION OD 323.9 x ID 244.4



BOLT FOR HYDRO TEST
BOLT CIRCLE DIA : 444.5 (17.5)
NUMBER OF BOLTS : 14
THREAD SIZE : 1 1/4"-8 UN-2B
DEPTH OF THREAD : 38.1 - 44.45 (1.5 - 1.75)

HOLES TO STRADDLE CENTER LINE.

A22648JP-02-02	50HAG22AA201
A22648JP-02-01	50HAG21AA201
SERIAL NO. ⚠2	TAG NO. ⚠1



CERTIFICATION

CUSTOMER	MITSUBISHI HITACHI POWER SYSTEMS KURE
P.O.	
PROJECT	TANJUNG JATI B EXPANTION(JAWA-4)
CONTRACT NO:	

IMI CCI, 14Dangdong 2-ro, Munsan-eup, Paju-si Kyunggi-Do, Korea

PREP	MJ CHOI	07MAR2018
CHK	SH LEE	07MAR2018
REVW	CH PANG	08MAR2018
APVD	ID KIM	08MAR2018

DRAG ® VALVE
8 X 12, ANGLE, 2500 ASME
STORAGE TANK LEVEL CONTROL VALVE A/B (361 VALVE)

IMI Critical Engineering

SIZE D | DRAWING NUMBER A22648JP-02-01

PLOT SCALE: 1:1 | SHEET 1 OF 2