

DATA SHEETS FOR QUOTATION

JOKWANG ILI

Doc. No.	260401-046
PROJECT NAME	
PROJECT NO.	
INQ NO.	
CLIENT	코머신

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D	CLIENT	
						APP'D	DATE
0	2026-04-01	For Quotation	S.H.SEO	K.H.LEE	E.J.NAM		

JOKWANG ILI

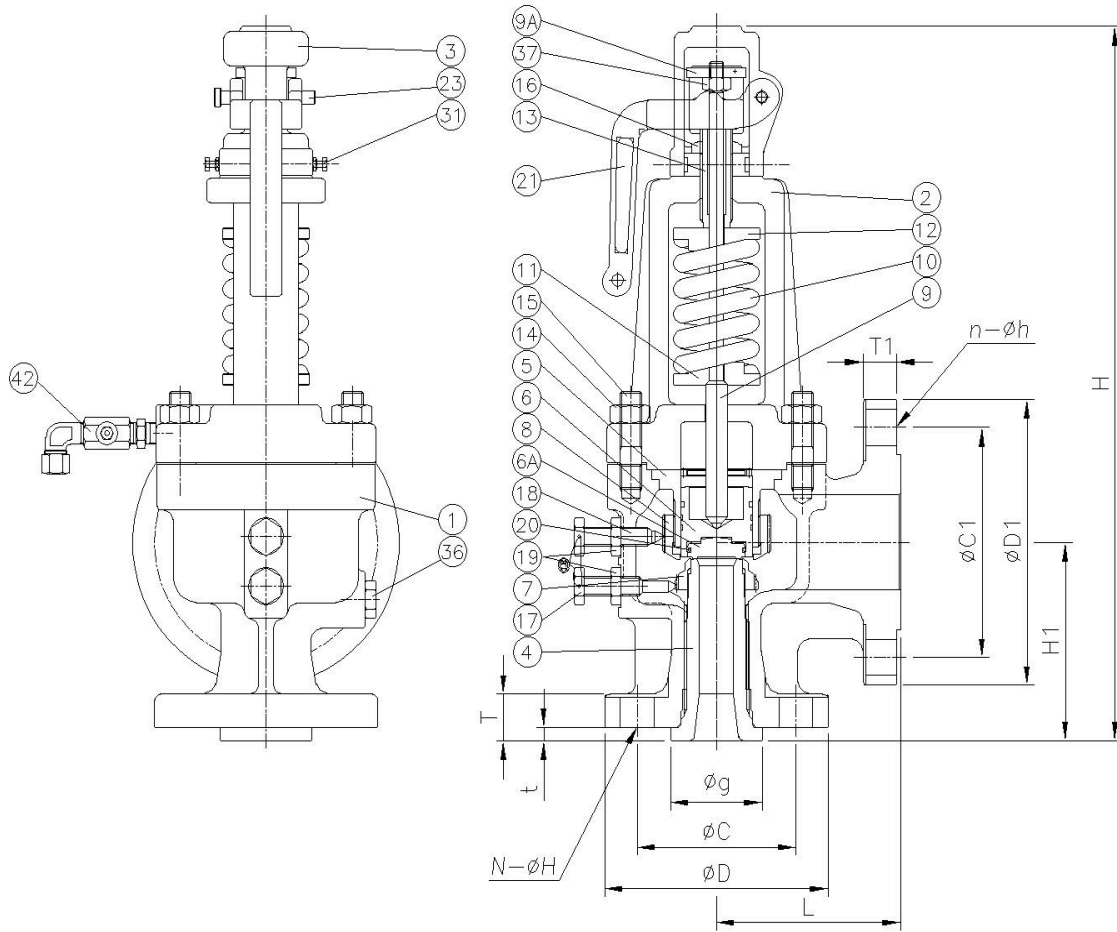
Pressure Safety & Relief Valve Specification and Calculation Sheet

Sheet No.	1 of 1	Rev. No	0
Project Name			
Project No.			
Date	2026-04-01	By	S.H.SEO
Checked	K.H.LEE	Approved	E.J.NAM

GENERAL	P&ID No.	1	-				
	Tag No.	2	-				
	Service Line	3	-				
	Model No.	4	JSV-FF200				
	Quantity	5	1				
TYPE	Nozzle Type	6	Full Nozzle	Calculation			
	Design Type	7	Conventional	Calculation of Area			
	Bonnet Type	8	Open	$A1 = W1 / (5.25 * Kd * (P * 1.03 + 0.101) * Ksh)$			
	Lever Type	9	Plain Lever	$= 5750 / (5.25 * 0.869 * (1.56 * 1.03 + 0.101) * 0.866)$			
	Cap Type	10	Plain	$= \underline{852.185} \text{ mm}^2$			
CONN	Size. Inlet / Outlet	11	2"X3"				
	Inlet. Rating / Facing	12	ASME CL300 RF				
	Outlet. Rating / Facing	13	ASME CL150 RF				
MATERIALS	Body (Base)	14	SA216 WCB	Calculation of Capacity			
	Bonnet	15	SA216 WCB	$W = 5.25 * A * Kd * (P * 1.03 + 0.1) * Ksh$			
	Seat	16	431 SS	$= 5.25 * 1134.2 * 0.869 * (1.56 * 1.03 + 0.1) * 0.866$			
	Disc	17	Inconel 718	$= \underline{7653} \text{ kg/h}$			
	Guide	18	A217 CA15				
	Gasket (Bonnet)	19	N/A				
	Spring	20	Chrome Alloy(SWOSC-B)				
BASIS	Approved by	22	V STAMP	W	Valve Capacity	7653 kg/h	
	Comply with NACE	23	-	W1	Required Capacity	5750 kg/h	
	EN 10204	24	No	P	Set Pressure	1.56 MPag	
	Code	25	ASME sec. I	A1	Calculated Area	852.185 mm ²	
	Fire	26	No	A	Selected Area	1134.2 mm ²	
	Sizing Basis	27	-	Kd	Coefficient of Discharge	0.869	
	Rupture Disk	28	No	Ksh	Steam Correction Factor	0.866	
SERVICE CONDITION	Fluid / State	29	Steam / STEAM	ATM	Standard Atmosphere	0.101 Mpa	
	Mol. Weight / Specific Gravity	30	18				
	Compressibility Factor	31	1				
	Ratio of Specific Heat	32	1.4				
	Viscosity	33	-				
	Operating / Relieving Temp.	34	295 / 295 °C				
	Design Min. / Design Max. Temp.	35	350 °C				
	Operating / Set Pressure	36	/ 1.56 MPag				
	Design Pressure / C.D.T.P	37	- / 1.56 MPag				
	Back Pressure	Superimposed - Constant	38	0 MPag	Remarks		
		Superimposed - Variable	39	- MPag			
Built-up		40	- MPag				
Total		41	0 MPag				
Allowable Overpressure	42	3 %					
Closing Pressure / Blowdown	43	Min. 1.4664 MPag / 6%					
SIZING & SELECTION	Required Capacity	44	5750 kg/h				
	Valve Actual Capacity	45	7653 kg/h				
	Calculated Orifice Area	46	852.185 mm ²				
	Selected Orifice Area	47	1134.2 mm ²				
	Orifice Dia.(mm)	48	J(38)				
			-				
ETC	Paint System & Color	49	Heat Resistant Silver QT603				
	Test Gag	50	Yes				
	Bug screen	51	No				

TAG NO.

TEST GAG is provided



DIMENSION

UNIT : mm

SIZE	L	H1	H	INLET FLANGE ASME B 165 CL300 RF						OUTLET FLANGE ASME B 165 CL150 RF				Wt(kg)	
				ØD	Øg	ØC	ØP	T	t	N-ØH	ØD1	ØC1	T1		n-Øh
2"x3"	134	130	543	165	921	127	-	35	9	8-19	190	1524	223	4-19	338

NO	PART NAME	MATERIAL	QTY	REMARK
42	VENT ASSEMBLY	Brass(C35300)	1	
37	STEM NUT	316 SS	1	
36	PLUG	316 SS	1	
31	CAP BOLT	SCM440	2	
23	PIN-1	Carbon Steel	1	
21	LEVER	Carbon Steel	1	
20	DISC RING	316 SS	1	
19	NUT	316 SS	2	
18	SET SCREW (UPP)	316 SS	1	
17	SET SCREW (LOW)	316 SS	1	
16	LOCK NUT	316 SS	1	
15	STUD BOLT	SA193 B7	4	
14	STUD NUT	SA194 2H	4	
13	ADJUST SCREW	410 SS	1	
12	SPRING SEAT (UPP)	316 SS	1	
11	SPRING SEAT (LOW)	316 SS	1	
10	SPRING	Chrome Alloy(SWOSC-B)	1	
9A	STEM WASHER	316 SS	1	
9	STEM	431 SS	1	
8	ADJUST RING (UPP)	410 SS	1	
7	ADJUST RING (LOW)	410 SS	1	
6A	DISC	Inconel 718	1	
6	HOLDER	410 SS	1	
5	GUIDE	410 SS	1	
4	SEAT	431 SS	1	
3	CAP	Carbon Steel	1	
2	BONNET	SA216 WCB	1	
1	BODY	SA216 WCB	1	

DWG NO	JKS-SLQ085013-10	Designed	Checked	Approved
MODEL	JSV-FF200	<i>JL</i>	<i>Lu</i>	<i>sh</i>
DATE	2026-04-01	JKYOON	HMMUN	SYPARK

FULL BORE TYPE SAFETY RELIEF VALVE				REV
JOKWANG ILI				0