

ՆԿԱՐԱԳԻՐ

առաջարկվող ապրանքի ամբողջական

« ՄԵՅԴ ԹՈՒ ՄԵՅՔ » ՍՊԸ-ն « ՀԱՅՏ N ԵԶԷԿ-ԷԱՃԱՊՁԲ-22/58 » ծածկագրով Էլեկտրոնային աճուրդի շրջանակում ըստ չափաբաժինների ստորև ներկայացնում է իր կողմից առաջարկվող ապրանքի ամբողջական նկարագիրը

Առաջարկվող ապրանքի					
Չափաբաժնի համար	Ֆիրմային անվանումը	ապրանքային նշանը	մակնիշը	արտադրողի անվանումը	տեխնիկական բնութագրերը
1	Flowserve	Flowserve	13LAB30AA902	Flowserve Corp.	Կարգավորիչ փական իր շարժաբերով և աքսեսուարներով բարձր ճնշման թմբուկի շրջանցիկ գծի համար տիպը՝ DN80/Globe,չափը՝ 3",կարգը՝ 1500 ANSI,միացման ձևը BW/80, ակտուատոր 100 SQ IN, փականի բոլոր տեխնիկական տվյալները բերված են կից ֆայլում /յուրաքանչյուր մասնակից կից ֆայլով պետք է ներկայացնի ապրանքի նկարագիրը և գծագիրը/
2	Flowserve	Flowserve	13LAB70AA901	Flowserve Corp.	Կարգավորիչ փական իր շարժաբերով և աքսեսուարներով ցածր ճնշման թմբուկի համար տիպը՝ Globe,չափը՝ 3",կարգը՝ 600 ANSI,միացման ձևը BW/80, ակտուատոր 100 SQ IN, փականի բոլոր տեխնիկական տվյալները բերված են կից ֆայլում /յուրաքանչյուր մասնակից կից ֆայլով պետք է ներկայացնի ապրանքի նկարագիրը և գծագիրը/
3	Flowserve	Flowserve	10LBG50AA901	Flowserve Corp.	Կարգավորիչ փական իր շարժաբերով և աքսեսուարներով դեաներատորի լրասնուցման գծի համար տիպը՝ Globe,չափը՝ 8",կարգը՝ 300 ANSI, միացման ձևը BW, ակտուատոր 100 SQ IN, փականի բոլոր տեխնիկական տվյալները բերված են կից ֆայլում /յուրաքանչյուր մասնակից կից ֆայլով պետք է ներկայացնի ապրանքի նկարագիրը և գծագիրը/
4	Flowserve	Flowserve	10LBD55AA901	Flowserve Corp.	Կարգավորիչ փական իր շարժաբերով և աքսեսուարներով դեաներատորի լրասնուցման գծի համար տիպը՝ Globe,չափը՝ 8",կարգը՝ 300 ANSI, միացման ձևը BW, ակտուատոր 100 SQ IN, փականի բոլոր տեխնիկական տվյալները բերված են կից ֆայլում /յուրաքանչյուր մասնակից կից ֆայլով պետք է ներկայացնի ապրանքի նկարագիրը և գծագիրը/

« ՄԵՅԴ ԹՈՒ ՄԵՅՔ » ՍՊԸ-ի տնօրեն՝
Անահիտ Մանվելյան

Մասնակցի անվանումը (ղեկավարի պաշտոնը, անուն ազգանունը)

ստորագրությունը



Control Valve Specification
Prepared By :

Customer :
PO # :
Quote # :
Rev/By : 0.0 / rcsehi
Application : Deaerator Pressure Control

Project : -
Proj Num :
Q. ID : rcsehi_JKBS4707PNXT_5918
Alternate :

Valve Tag # : 10LBG50AA901
Page # : 1
P&ID :
Line :
Date / Ver : 10-Mar-2022 / 12.7360

Process Data For Control Valve Selection	1	Pipe Size, Up/Down	8.000 / 8.000				Actuator	51	Act. Type/Matl	VL Cylinder / Aluminum				
	2	Pipe Sch, Up/Down	40 / 40					52	Act. Size/Instr. Sup.	100 / Air				
	3	Allow Noise/Add Attn/Type	85 / 10 /					53	Stroke/Spring	3.00 / Standard				
	4	Process Fluid	STEAM					54	Fail/Air-To	In Place / Open				
	5	Design Press./Temp.	0.00 / 16.00 bar (g) / 0.00 / 350.00 °C					55	Vol Tank/Orient/Mtg	/ /				
	6	Driving Cond.	Cond1	Cond2	Cond3	Cond4		56	Tubing Size/Mtl	1/4" / 316 SS				
	7	Temperature (°C)	203.300	271.500	235.500			57	Fitting Mfg/Mtl	Swagelok / 316 SS				
	8	Inlet Press (bar (g))	3.000	13.600	3.000			58	Pos. Ornmt./HW	HVR / Side Mnt/Cont Connect				
	9	Outlet Press (bar (g))	2.500	2.500	2.500			59	Act O-Rings	Buna-N				
	10	Liq Flow Rate (kg/h)	0	0	0			60	Spud	3.38 / 1.50-12 UNF				
	11	Gas Flow Rate (kg/h)	6876.000	2628.000	340.000			61	Model BETA Model # L3W1L11B1200-NT3002282SN1W00 Material Paint Aluminum, White Venting Non-Vented Base Soft Goods Buna-N Gauges 2SS-Brass PSI/BAR/KPA Signal 4 - 20 mA Spool Valve High flow Pos Tag/Mounting / Transducer NT 3000 / Direct Mounted Conduit Conn. 1/2" NPT / Std Alum w/ Mylar Cert Sticker Model Pos. Pac TX (analog) Switch Model# Indicate Mounting Tag					
	12	Viscosity (cP)	0.000	0.000	0.000									
	13	Vapor Press (bar (g))	15.680	55.153	29.939									
	14	SG-MW	18.020	18.020	18.020									
	15	Max Shutoff / Shutoff Class 16.000 bar / Class IV												
	16	Min Supply Pressure / Max Supply Pressure 7.500 / 10.340 bar (g)												
	17	Valve Function / Amb Temp Min/Max Throttling / °F												
Calculated Data	18	Driving Cond.	Cond1	Cond2	Cond3	Cond4	Positioner	62						
	19	Flow Coeff. (Cv)	279.872	18.297	14.311			63						
	20	Est Stroke (% Lift)	67.000	18.000	10.000			64						
	21	Pressure Drop (bar)	0.500	11.100	0.500			65						
	22	Choke Drop (bar)	2.860	10.412	2.860			66						
	23	Noise [IEC] (dBA)	<70	<70	<70			67						
	24	Valve Vel (m/s)	36.837	15.653	1.948			68						
25	Pipe Vel (m/s)	37.012	15.728	1.957		69	Model Pos. Pac TX (analog) Switch Model# Indicate Mounting Tag							
Valve Body Assembly	26	Model / Body Type / Trim Type	Mark One / Globe / Standard							Pos Ind Sw	70			
	27	Size/Pressure Class/Body Form	8.00 / CL 300 / Cast								71			
	28	Trim # - Cv / Characteristic	5.00 Cv:457 / Equal Percent								72			
	29	Stages / Design	/ / /								73			
	30	Flow Direction	Flow Under								74			
	31	Body Matl / Bonnet Matl	Carbon Steel (WCC) / Carbon Steel								75			
	32	End Conn/Sch/Face to Face	Butt Weld / 40 / ISA S75.08.05								76			
	33	Flange Finish									77			
	34	Bonnet / Drip Plate / Cryo Type	Standard / /								78			
	35	Balance Type / P/B Seal Matl.	Unbalanced /					79						
	36	Plug Mtl/ Facing/Treatment /Stem Cvr	316 SS / Seat Surf. Alloy 6 /					80						
	37	Stem Mtl/ Facing/Treatment /Pilot Spr	316 SS / Alloy 6, LGA /					81						
	38	Seat Ring Mtl/ Facing/Treatment	316 SS / Seat Surf. Alloy 6					82						
	39	Seat Style / Soft Material	/ /					83						
	40	Seat Retainer Mtl/ Facing/Treatment	316 SS /					84						
	41	Sleeve Mtl/ Facing/Treatment	/					85						
	42	Guides Upper/Lower	316 SS & Graphite / 316 SS & Graphite					86						
	43	Packing Matl / Style / Vac / Fire / Cert AFP / Single / / /						87						
	44	Packing - Live-Loaded						88						
	45	Bonnet Port / Body Drain	/					89						
	46	Bellows Type / Material	/					90						
	47	Body Bolting/Bonnet Flange Matl	B7-2H Zinc Plated / Carbon Steel					91						
	48	Gaskets	Spiral Graphite					92						
	49	Gland Flange Material	Carbon Steel					93						
	50	Gland Flange Bolting	Carbon Steel, Zinc Plated					94						
Customer Spec	T1						Solenoid	95	Tag/Reset/Override / / / Air Filter/Mnting / Filter-Reg/Mnting FR 04411S00ALLT2 Al / Nipple Mtd Flow Booster / Mtg. / Booster Config Quick Exhaust / SupTube/Jctn Box / Lockup/Mnting Fail-In-Place / Plate ID Plate Type Packaging Standard Pwr. Sup. Wiring Conn. Type					
	T2							96						
	T3							97						
	T4							98						
	2	Certification/Approval Type	ATEX / Intr Safe /					99						
	3	Class or Gas Group	IIB+H2					1						
	4	Division or Zone	Zone 1 (2)					2						
	5	Group						3						
	6	Ingress / Temperature	IP 65 / T4					4						
	7	NACE / Nuclear	NA / NA					5						
	8	SIL Vlv-Act / Pos	NA / NA					6						
	9	Oxygen Service/Assy. Lubricant	NA /					7						
		9	Oxygen Service/Assy. Lubricant	NA /					8	Rad. Exm/Mat Regu / Drawings Type I Assem Hydro EN 60534-4 / FCI 70-2 Seat leak/Final test cert. EN 60534-4 / FCI 70-2 / PMI/Weld Req / ASME BPVC Section IX Cert of Conf. DIN 3.1B Seat-Leak & Results Cln/Bld/Doc/Act Cln / / CMTR/Mat Cert. Body & Bonnet / EN 10204 3.1 Special Paint/Test High temp. stand. V11 / Diag Test/FM / Cust. Insp/Witn. No / No N. D. Exam. / Cust Furnish None Flow Testing				
									9					
								10						
								11						
								12						
								13						
								14						
								S1						

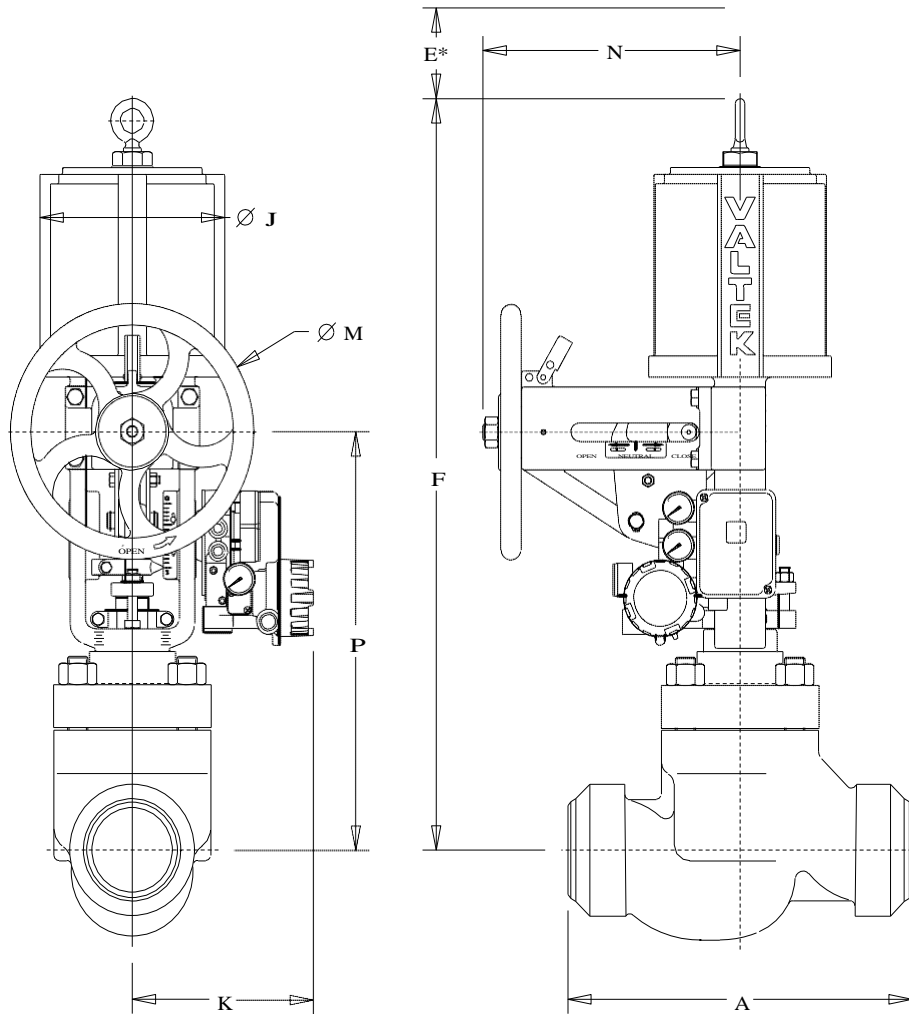
Line # : Remarks :

C	72	we will supply to electrical conn 1/2" 3/4" NPT(F) with adaptor.
C	201	Replacement to SN 708155.007

DB Rev - 766 : 30-May-2022 : ID = rcsehi_JKBS4707PNXT_5918

Quantity: 1

MK1|D|W|V|NN5|XX|8|300|A216WCC|O|D|X|X|P|O|M|P|2|R|G|5,00|316SS|A|N5|100|X|S|S|S|D|N|



FLOW →

* - DISASSEMBLY / MAINTENANCE CLEARANCE

	A	E	F	J	K	M	N	P	WT
INCH	24.00	11.4	49.3	12.5	12.6	24.0	19.5	29.4	773 LBS
MM	609.6	290	1252	318	320	610	495	746	351 KG

Note: Dimensions are correct per associated specification sheet. End connections and scaling may not actual. For accessory information, see associated specification sheet.

MODEL
Mark One
SIZE
8 INCH

ACTUATOR
100 SQ IN
AIR TO
OPEN

BY
rcsehi

DIMENSIONAL DRAWING
CUSTOMER

ITEM
1

RATING / F/F STD
CL 300 / S75.08.05

FAIL
In Place

DATE
10-Mar-2022

VALVE TAG
10LBG50AA901

SHEET
1

END CONNECTION
BW SCH

SPRING
STANDARD


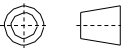
THIRD ANGLE PROJECTION

P.O. NUMBER

REVISION
0.0

TRIM TYPE

DB Rev - 766 : 30-May-2022

Detail Information
Prepared By :

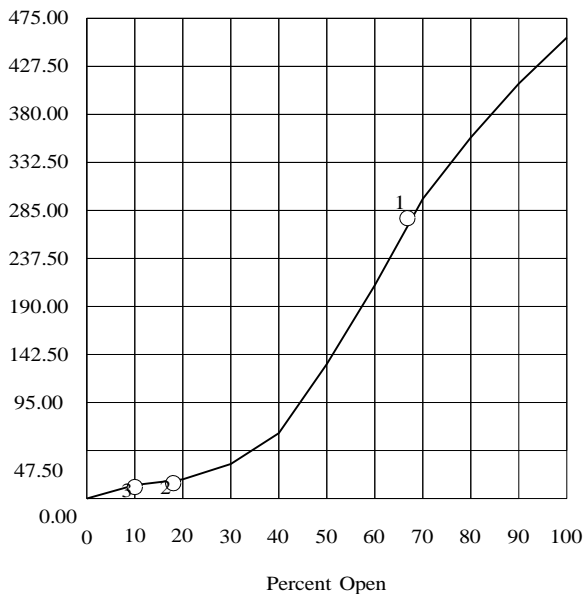
Customer :
PO # :
Quote # :
Rev/By : 0.0 / rcsehi
Application : Deaerator Pressure Control

Project : -
Proj Num :
Q. ID : rcsehi_JKBS4707PNXT_5918
Alternate :

Valve Tag # : 10LBG50AA901
Page # : 1
P&ID :
Line :
Date / Ver : 10-Mar-2022 / 12.7360

8.00 in (Trim: 5.00 Cv:457) CL 300 Mark One Standard Globe

	Cond1	Cond2	Cond3								
Process Data											
Temp	(°C)	203.300	271.500	235.500	---	---	---	---	---	---	---
P1	(bar (g))	3.000	13.600	3.000	---	---	---	---	---	---	---
P2	(bar (g))	2.500	2.500	2.500	---	---	---	---	---	---	---
Liq Flow	(kg/h)	---	---	---	---	---	---	---	---	---	---
Gas Flow	(kg/h)	6876.000	2628.000	340.000	---	---	---	---	---	---	---
Visc	(cP)	0.000	0.000	0.000	---	---	---	---	---	---	---
VP	(bar (g))	15.680	55.153	29.939	---	---	---	---	---	---	---
DP	(bar)	0.500	11.100	0.500	---	---	---	---	---	---	---
DpC	(bar)	2.860	10.412	2.860	---	---	---	---	---	---	---
Vel	(m/s)	36.837	15.653	1.948	---	---	---	---	---	---	---
Pipe Vel	(m/s)	37.012	15.728	1.957	---	---	---	---	---	---	---
Noise	(dBA)	< 70.0	< 70.0	< 70.0	---	---	---	---	---	---	---
Flow Cap	(Cv)	279.872	18.297	14.311	---	---	---	---	---	---	---
Stroke	(% Lift)	67	18	10	---	---	---	---	---	---	---
Info	()	---	---	---	---	---	---	---	---	---	---
Detailed Miscellaneous Information											
FP		1.000	1.000	1.000	---	---	---	---	---	---	---
FL		---	---	---	---	---	---	---	---	---	---
FR		0.000	0.000	0.000	---	---	---	---	---	---	---
Sg		---	---	---	---	---	---	---	---	---	---
K		1.330	1.330	1.330	---	---	---	---	---	---	---
Xt		0.750	0.750	0.750	---	---	---	---	---	---	---
Z		1.002	0.974	1.004	---	---	---	---	---	---	---
FD		0.315	0.040	0.031	---	---	---	---	---	---	---
MWT		18.020	18.020	18.020	---	---	---	---	---	---	---
Detailed Cavitation (Sigma) Information											
Sigma		---	---	---	---	---	---	---	---	---	---
Sigma MR		---	---	---	---	---	---	---	---	---	---
PSE		---	---	---	---	---	---	---	---	---	---
SSE		---	---	---	---	---	---	---	---	---	---
Sigma V		---	---	---	---	---	---	---	---	---	---
Sigma P		---	---	---	---	---	---	---	---	---	---



Fluid: STEAM
Type: Full
Owner: EVERYONE Fluid List: STANDARD
Vp Equation: Antoine

Critical Pressure (psi (a)/bar (a)) : 3208.200 / 221.255
Critical Temperature (°F/°C) : 705.430 / 374.128
Reference Specific Gravity: 0.998
Molecular Weight: 18.020
Specific Heat Ratio: 1.330
Reference Temperature (°F/°C) : 67.730 / 19.850
Vp-A: 14.358 Vp-B: 6869.520
Vp-C: -83.030

Minimum Temperature (°F/°C) : 35.330 / 1.850
Maximum Temperature (°F/°C) : 704.930 / 373.850
Bulk Modulus ((lbf/in²)/(kg/cm²)) : 340000.000 / 4835820.000

Flow Direction : Flow Under
Trim Characteristic : Equal Percent
Balance Type: Unbalanced
Trim Type : Standard

DB Rev - 766 : 30-May-2022

Control Valve Specification
Prepared By :

Customer :
PO # :
Quote # :
Rev/By : 0.0 / rcsehi
Application : 1.3MPa Steam Header to Aux.Steam Pressur

Project : -
Proj Num :
Q. ID : rcsehi_JKBS4707PNXT_5919
Alternate :

Valve Tag # : 10LBD55AA901
Page # : 2
P&ID :
Line :
Date / Ver : 10-Mar-2022 / 12.7360

Process Data For Control Valve Selection	1	Pipe Size, Up/Down	8.000 / 8.000			
	2	Pipe Sch, Up/Down	40 / 40			
	3	Allow Noise/Add Attn/Type	85 / 10 /			
	4	Process Fluid	STEAM			
	5	Design Press./Temp.	0.00 / 16.00 bar (g) / 0.00 / 350.00 °C			
	6	Driving Cond.	Cond1	Cond2	Cond3	Cond4
	7	Temperature (°C)	290.400	290.400	274.800	
	8	Inlet Press (bar (g))	13.600	13.600	13.600	
	9	Outlet Press (bar (g))	3.000	3.000	3.000	
	10	Liq Flow Rate (kg/h)	0	0	0	
	11	Gas Flow Rate (kg/h)	29592.000	19440.000	1944.000	
	12	Viscosity (cP)				
	13	Vapor Press (bar (g))	73.275	73.275	58.053	
	14	SG-MW	18.020	18.020	18.020	
	15	Max Shutoff / Shutoff Class	16.000 bar / Class IV			
	16	Min Supply Pressure / Max Supply Pressure	7.500 / 10.340 bar (g)			
	17	Valve Function / Amb Temp Min/Max	Throttling / °F			
Calculated Data	18	Driving Cond.	Cond1	Cond2	Cond3	Cond4
	19	Flow Coeff. (Cv)	211.402	138.522	13.009	
	20	Est Stroke (% Lift)	76.000	63.000	7.000	
	21	Pressure Drop (bar)	10.600	10.600	10.600	
	22	Choke Drop (bar)	10.410	10.378	11.384	
	23	Noise [IEC] (dBA)	85	76	<70	
	24	Valve Vel (m/s)	284.690	187.022	18.140	
	25	Pipe Vel (m/s)	160.901	105.702	10.252	
Valve Body Assembly	26	Model / Body Type / Trim Type	Mark One / Globe / MegaStream			
	27	Size/Pressure Class/Body Form	6.00 / CL 300 / Cast			
	28	Trim # - Cv / Characteristic	5.00 Cv:371 / Equal Percent			
	29	Stages/Hole Size/Ret Guiding	1 Stage / S / / Standard			
	30	Flow Direction	Flow Under			
	31	Body Matl / Bonnet Matl	Carbon Steel (WCC) / Carbon Steel			
	32	End Conn/Sch/Face to Face	Butt Weld / 40 / ISA S75.08.05			
	33	Flange Finish				
	34	Bonnet / Drip Plate / Cryo Type	Standard / /			
	35	Balance Type / P/B Seal Matl.	Unbalanced /			
	36	Plug Mtl/ Facing/Treatment /Stem Cvr	316 SS / Full Cont. Alloy 6 /			
	37	Stem Mtl/ Facing/Treatment /Pilot Spr	316 SS / /			
	38	Seat Ring Mtl/ Facing/Treatment	316 SS / Seat Surf. Alloy 6			
	39	Soft Seat/Pilot Plug	/ /			
	40	Seat Retainer Mtl/ Facing/Treatment	316 SS /			
	41	Sleeve Mtl/ Facing/Treatment	/			
	42	Guides Upper/Lower	316 SS & Graphite / 316 SS & Graphite			
	43	Packing Matl / Style / Vac / Fire / Cert AFP / Single / / /				
	44	Packing - Live-Loaded				
	45	Bonnet Port / Body Drain	/			
	46	Bellows Type / Material	/			
	47	Body Bolting/Bonnet Flange Matl	B7-2H Zinc Plated / Carbon Steel			
	48	Gaskets	Spiral Graphite			
	49	Gland Flange Material	Stainless Steel			
	50	Gland Flange Bolting	Stainless Steel			
	T1					
	T2					
	T3					
	T4					
Customer Spec	2	Certification/Approval Type	ATEX / Intr Safe /			
	3	Class or Gas Group	IIB+H2			
	4	Division or Zone	Zone 1 (2)			
	5	Group				
	6	Ingress / Temperature	IP 65 / T4			
	7	NACE / Nuclear	NA / NA			
	8	SIL Vlv-Act / Pos	NA / NA			
	9	Oxygen Service/Assy. Lubricant	NA /			
Actuator	51	Act. Type/Matl	VL Cylinder / Aluminum			
	52	Act. Size/Instr. Sup.	100 / Air			
	53	Stroke/Spring	3.00 / Standard			
	54	Fail/Air-To	In Place / Open			
	55	Vol Tank/Orient/Mtg	/ /			
	56	Tubing Size/Mtl	1/4" / 316 SS			
	57	Fitting Mfg/Mtl	Swagelok / 316 SS			
	58	Pos. Ormt./HW	HVR / Side Mnt/Cont Connect			
	59	Act O-Rings	Buna-N			
	60	Spud	3.38 / 1.50-12 UNF			
	61					
Positioner	62	Model	BETA			
	63	Model #	L3W1L11B1200-NT3002282SN1W00			
	64	Material Paint	Aluminum, White			
	65	Venting	Non-Vented			
	66	Base Soft Goods	Buna-N			
	67	Gauges	2SS-Brass PSI/BAR/KPA			
	68	Signal	4 - 20 mA			
	69	Spool Valve	High flow			
Pos Tag/Mounting	70	Pos Tag/Mounting	/			
	71	Transducer	NT 3000 / Direct Mounted			
	72	Conduit Conn.	1/2" NPT / Std Alum w/ Mylar Cert Sticker			
	73	Model	Pos. Pac TX (analog)			
Solenoid	74	Switch Model#				
	75	Indicate				
	76	Mounting				
	77	Tag				
	78					
	79					
	80					
	81					
Others	82	Model/Qty	/			
	83	Cv-Kv/De-en	/			
	84	Volt/Watt	/			
	85	Body/Housing Mtl	/			
	86	Body/Elect Conn	/			
	87	Port Size/Mtg	/			
	88	Tag/Reset-Override	/ / /			
	89	Air Filter/Mnting	/			
Special Req	90	Filter-Reg/Mnting	FR 04411S00ALLT2 Al / Nipple Mtd			
	91	Flow Booster / Mtg.	/			
	92	Booster Config				
	93	Quick Exhaust	/			
	94	SupTube/Jctn Box	/			
	95	Lockup/Mnting	Fail-In-Place /			
	96	Plate ID				
	97	Plate Type				
	98	Packaging	Standard			
	99	Pwr. Sup.				
	1	Wiring Conn. Type				
Special Req	1	Rad. Exm	/			
	2	Drawings	Type I			
	3	Assem Hydro	EN 60534-4 / FCI 70-2			
	4	Seat leak/Final test cert.	EN 60534-4 / FCI 70-2 /			
	5	PMI/Weld Req	/ ASME BPVC Section IX			
	6	Cert of Conf.	DIN 3.1B Seat-Leak & Results			
	7	Clean/Bld/Doc	/ /			
	8	CMTR	Body & Bonnet / EN 10204 3.1			
	9	Special Paint/Test	High temp. stand. V11 /			
	10	Diag Test/FM	/			
	11	Cust. Insp/Witn.	No / No			
	12		/			
	13	Cust Furnish	None			
	14	Flow Testing				
	S1					
	S2					

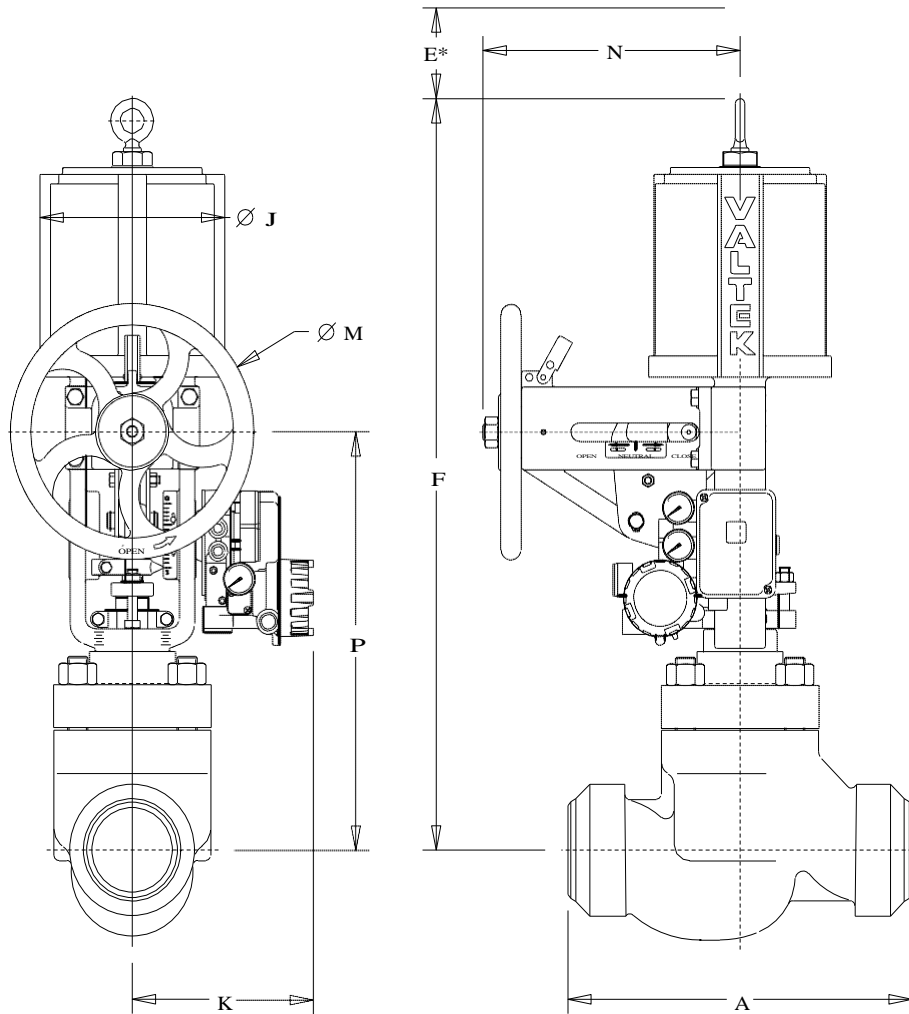
Line # : Remarks :

C	72	we will supply to electrical conn 1/2" 3/4" NPT(F) with adaptor.
C	201	Replacement to SN 708155.005

DB Rev - 766 : 30-May-2022 : ID = rcsehi_JKBS4707PNXT_5919

Quantity: 1

MK1|D|W|V|NN5|XX|6|300|A216WCC|O|D|X|X|E|1|K|P|2|R|G|5.00|316SS|A|N5|100|X|S|S|D|N|



* - DISASSEMBLY / MAINTENANCE CLEARANCE

	A	E	F	J	K	M	N	P	WT
INCH	20.00	10.0	47.4	12.5	12.6	24.0	19.5	27.4	610 LBS
MM	508.0	254	1203	318	320	610	495	697	276 KG

Note: Dimensions are correct per associated specification sheet. End connections and scaling may not actual. For accessory information, see associated specification sheet.

MODEL
Mark One
SIZE
6 INCH

ACTUATOR
100 SQ IN
AIR TO
OPEN

BY
rcsehi

DIMENSIONAL DRAWING
CUSTOMER

ITEM
2

RATING / F/F STD
CL 300 / S75.08.05

FAIL
In Place

DATE
10-Mar-2022

VALVE TAG
10LBD55AA901

SHEET
1

END CONNECTION
BW SCH

SPRING
STANDARD

THIRD ANGLE PROJECTION

P.O. NUMBER

REVISION
0.0

TRIM TYPE


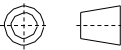
MGSTRM

TRIM / CV
5.00 / Cv:371

PROJECT
-

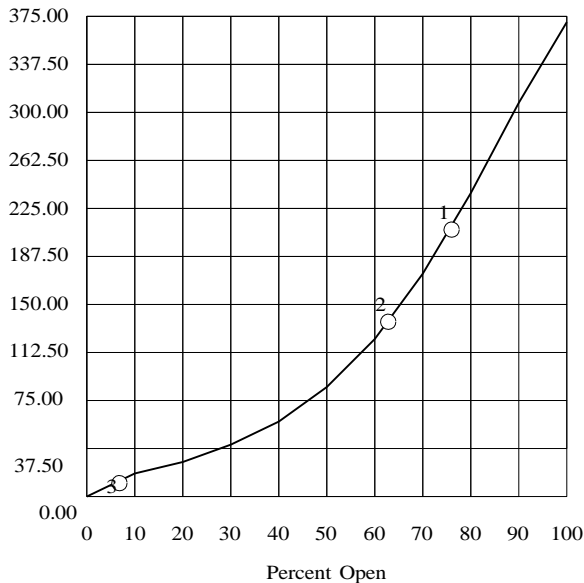
SERIAL NUMBER
.002

DB Rev - 766 : 30-May-2022

6.00 in (Trim: 5.00 Cv:371) CL 300 Mark One MegaStream Globe

	Cond1	Cond2	Cond3								
Process Data											
Temp	(°C)	290.400	290.400	274.800	---	---	---	---	---	---	---
P1	(bar (g))	13.600	13.600	13.600	---	---	---	---	---	---	---
P2	(bar (g))	3.000	3.000	3.000	---	---	---	---	---	---	---
Liq Flow	(kg/h)	---	---	---	---	---	---	---	---	---	---
Gas Flow	(kg/h)	29592.000	19440.000	1944.000	---	---	---	---	---	---	---
Visc	(cP)	---	---	---	---	---	---	---	---	---	---
VP	(bar (g))	73.275	73.275	58.053	---	---	---	---	---	---	---
DP	(bar)	10.600	10.600	10.600	---	---	---	---	---	---	---
DpC	(bar)	10.410	10.378	11.384	---	---	---	---	---	---	---
Vel	(m/s)	284.690	187.022	18.140	---	---	---	---	---	---	---
Pipe Vel	(m/s)	160.901	105.702	10.252	---	---	---	---	---	---	---
Noise	(dBA)	85.000	76.000	< 70.0	---	---	---	---	---	---	---
Flow Cap	(Cv)	211.402	138.522	13.009	---	---	---	---	---	---	---
Stroke	(% Lift)	76	63	7	---	---	---	---	---	---	---
Info	()	---	---	---	---	---	---	---	---	---	---
Detailed Miscellaneous Information											
FP		0.993	0.997	1.000	---	---	---	---	---	---	---
FL		---	---	---	---	---	---	---	---	---	---
FR		1.000	1.000	1.000	---	---	---	---	---	---	---
Sg		---	---	---	---	---	---	---	---	---	---
K		1.330	1.330	1.330	---	---	---	---	---	---	---
Xt		0.756	0.750	0.820	---	---	---	---	---	---	---
Z		0.977	0.977	0.975	---	---	---	---	---	---	---
FD		0.047	0.047	0.047	---	---	---	---	---	---	---
MWT		18.020	18.020	18.020	---	---	---	---	---	---	---
Detailed Cavitation (Sigma) Information											
Sigma		---	---	---	---	---	---	---	---	---	---
Sigma MR		---	---	---	---	---	---	---	---	---	---
PSE		---	---	---	---	---	---	---	---	---	---
SSE		---	---	---	---	---	---	---	---	---	---
Sigma V		---	---	---	---	---	---	---	---	---	---
Sigma P		---	---	---	---	---	---	---	---	---	---



Fluid: STEAM
Type: Full
Owner: EVERYONE Fluid List: STANDARD
Vp Equation: Antoine

Critical Pressure (psi (a)/bar (a)) : 3208.200 / 221.255
Critical Temperature (°F/°C) : 705.430 / 374.128
Reference Specific Gravity: 0.998
Molecular Weight: 18.020
Specific Heat Ratio: 1.330
Reference Temperature (°F/°C) : 67.730 / 19.850
Vp-A: 14.358 Vp-B: 6869.520
Vp-C: -83.030

Minimum Temperature (°F/°C) : 35.330 / 1.850
Maximum Temperature (°F/°C) : 704.930 / 373.850
Bulk Modulus ((lbf/in²)/(kg/cm²)) : 340000.000 / 4835820.000

Flow Direction : Flow Under
Trim Characteristic : Equal Percent
Balance Type: Unbalanced
Trim Type : MegaStream

DB Rev - 766 : 30-May-2022

Control Valve Specification
Prepared By :

Customer :
PO # :
Quote # :
Rev/By : 0.0 / rcsehi
Application : HP Feedwater Line

Project : -
Proj Num :
Q. ID : rcsehi_JKBS4707PNXT_5920
Alternate :

Valve Tag # : 13LAB30AA902
Page # : 3
P&ID :
Line :
Date / Ver : 10-Mar-2022 / 12.7360

Process Data For Control Valve Selection	1	Pipe Size, Up/Down	3.000 / 3.000				Actuator	51	Act. Type/Matl	VL Cylinder / Aluminum			
	2	Pipe Sch, Up/Down	80 / 80					52	Act. Size/Instr. Sup.	100 / Air			
	3	Allow Noise/Add Attn/Type	85 / 10 /					53	Stroke/Spring	2.50 / Standard			
	4	Process Fluid	WATER					54	Fail/Air-To	In Place / Open			
	5	Design Press./Temp.	0.00 / 134.00 bar (g) / 0.00 / 180.00 °C					55	Vol Tank/Orient/Mtg	/ /			
	6	Driving Cond.	Cond1	Cond2	Cond3	Cond4		56	Tubing Size/Mtl	3/8" / 316 SS			
	7	Temperature (°C)	140.000	140.000	140.000			57	Fitting Mfg/Mtl	Swagelok / 316 SS			
	8	Inlet Press (bar (g))	124.900	124.900	124.900			58	Pos. Ornt./HW	HVR / Top Mnt/Side Operated			
	9	Outlet Press (bar (g))	50.700	50.400	0.700			59	Act O-Rings	Buna-N			
	10	Liq Flow Rate (1000 kg/h)	61.320	42.920	10.220			60	Spud	3.38 / 1.31-12 UN			
	11	Gas Flow Rate (kg/h)	0	0	0			61					
	12	Viscosity (cP)	0.000	0.000	0.000			Positioner	62	Model	BETA		
	13	Vapor Press (bar (g))	2.603	2.603	2.603				63	Model #	L3W1L11B1200-NT3002282SN1W00		
	14	SG-MW	0.93	0.93	0.93				64	Material Paint	Aluminum, White		
15	Max Shutoff / Shutoff Class	134.000 bar / Class IV					65		Venting	Non-Vented			
16	Min Supply Pressure / Max Supply Pressure	8.800 / 10.340 bar (g)					66		Base Soft Goods	Buna-N			
17	Valve Function / Amb Temp Min/Max	Throttling / °F					67		Gauges	2SS-Brass PSI/BAR/KPA			
Calculated Data	18	Driving Cond.	Cond1	Cond2	Cond3	Cond4	68		Signal	4 - 20 mA			
	19	Flow Coeff. (Cv)	8.546	5.969	1.121		69		Spool Valve	High flow			
	20	Est Stroke (% Lift)	64.000	45.000	8.000		70		Pos Tag/Mounting	/			
	21	Pressure Drop (bar)	74.200	74.500	124.200		71		Transducer	NT 3000 / Direct Mounted			
	22	Choke Drop (bar)	119.647	119.647	119.647		72		Conduit Conn.	1/2" NPT / Std Alum w/ Mylar Cert Sticker			
	23	Noise [IEC] (dBA)	<70	<70	Flashing		73		Model	Pos. Pac TX (analog)			
	24	Valve Vel (m/s)	4.788	3.351	39.093		74		Switch Model#				
Valve Body Assembly	25	Pipe Vel (m/s)	4.305	3.013	35.154		75		Indicate				
	26	Model / Body Type / Trim Type	Mark One / Globe / ChannelStream					76	Mounting				
	27	Size/Pressure Class/Body Form	3.00 / CL 1500 / Cast					77	Tag				
	28	Trim # - Cv / Characteristic	1.690 Cv:13.0 (6stg) / Linear					78					
	29	Stages/DWG/Ret Guiding	2 Stage / / CD_3750 /					79					
	30	Flow Direction	Flow Over					80					
	31	Body Matl / Bonnet Matl	Carbon Steel (WCC) / Carbon Steel					81					
	32	End Conn/Sch/Face to Face	Butt Weld / 40 / ISA S75.08.05					Solenoid	82	Model/Qty	/		
	33	Flange Finish							83	Cv-Kv/De-en	/		
	34	Bonnet / Drip Plate / Cryo Type	Standard / /						84	Volt/Watt	/		
	35	Balance Type / P/B Seal Matl.	P/B O-Ring / Make Selection						85	Body/Housing Mtl	/		
	36	Plug Mtl/ Facing/Treatment /Stem Cvr	1.4122 HT / /						86	Body/Elect Conn	/		
	37	Stem Mtl/ Facing/Treatment /Pilot Spr	1.4122 HT / /						87	Port Size/Mtg	/		
	38	Seat Ring Mtl/ Facing/Treatment	1.4122 HT (~440C) /						88	Tag/Reset-Override	/ / /		
	39	Soft Seat Material	/ /					Others	89	Air Filter/Mnting	/		
	40	Seat Retainer Mtl/ Facing/Treatment	1.4122 HT (~440C) / Boronized						90	Filter-Reg/Mnting	FR 04411S00ALLT2 Al / Nipple Mtd		
	41	Sleeve Mtl/ Facing/Treatment	/						91	Flow Booster / Mtg.	/		
	42	Guides Upper/Lower	Bronze C93200 / Bronze C93200						92	Booster Config			
	43	Packing Matl / Style / Vac / Fire / Cert AFPI / Single / / /							93	Quick Exhaust	/		
	44	Packing - Live-Loaded							94	SupTube/Jctn Box	/		
	45	Bonnet Port / Body Drain	/						95	Lockup/Mnting	Fail-In-Place /		
	46	Bellows Type / Material	/						96	Plate ID			
	47	Body Bolting/Bonnet Flange Matl	B7-2H Zinc Plated / Carbon Steel						97	Plate Type			
	48	Gaskets	Spiral Graphite						98	Packaging	Standard		
	49	Gland Flange Material	Carbon Steel						99	Pwr. Sup.			
	Customer Spec	50	Gland Flange Bolting	Carbon Steel, Zinc Plated					1	Wiring Conn. Type			
		2	Certification/Approval Type	ATEX / Intr Safe /					Special Req	1	Rad. Exm	/	
		3	Class or Gas Group	IIB+H2						2	Drawings	Type I	
		4	Division or Zone	Zone 1 (2)						3	Assem Hydro	EN 60534-4 / FCI 70-2	
		5	Group							4	Seat leak/Final test cert.	EN 60534-4 / FCI 70-2 /	
6		Ingress / Temperature	IP 65 / T4					5		PMI/Weld Req	/ ASME BPVC Section IX		
7		NACE / Nuclear	NA / NA					6		Cert of Conf.	DIN 3.1B Seat-Leak & Results		
8		SIL Vlv-Act / Pos	NA / NA					7		Clean/Bld/Doc	/ /		
9		Oxygen Service/Assy. Lubricant	NA /					8		CMTR	Body & Bonnet / EN 10204 3.1		
								9		Special Paint/Test	High temp. stand. V11 /		
								10		Diag Test/FM	/		
								11		Cust. Insp/Witn.	No / No		
								12		/	/		
								13		Cust Furnish	None		
							14	Flow Testing					
							S1						
							S2						

Line # : Remarks :

C	29	SEAT RET, MK1, CHNLSTRM, 3", CL 900/1500, LIN, TN 2.50, CV 13, 2 STAGE, 2.50 STROKE, A-582-416, HEAT TREAT PER SPP-929 (HRC 34-43) (ECO 153 11-8-02) as per 192296.158.000
C	72	we will supply to electrical conn 1/2" 3/4" NPT(F) with adaptor.
C	90	Connection 1/4" NPT

DB Rev - 766 : 30-May-2022 : ID = rcsehi_JKBS4707PNXT_5920

Quantity: 1

MK1|D|W|X|NN4|XX|3"|1500|A216WCC|O|D|X|I|2|N|P|X|L|I|1,69|X|A|N4|100|X|S|H|S|P|N|

Additional Remarks

Valve Model : Mark One / Globe / ChannelStream		Tag Number : 13LAB30AA902	Page Number : 3
Customer :		Project : -	
C	201	Rev2.: Comment on Minimum Condition - It will not operate for ling time	
		Rev2.: Change CV from 10.2 to 13.	
C	202	Replacement to SN 708872.033	

WT

INCH
MM

MODEL	ACTUATOR	DIMENSIONAL DRAWING		
Mark One	100 SQ IN			
SIZE	AIR TO	BY	CUSTOMER	ITEM
3 INCH	OPEN	rcsehi		3
RATING / F/F STD	FAIL	DATE	VALVE TAG	SHEET
CL 1500 / S75.08.05	In Place	10-Mar-2022	13LAB30AA902	1
END CONNECTION	SPRING	THIRD ANGLE PROJECTION	P.O. NUMBER	REVISION
BW SCH	STANDARD			0.0
TRIM TYPE				

CHNLSTRMP/B


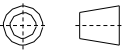
TRIM / CV
1.69O / Cv:13.0 (6stg)

PROJECT
-

SERIAL NUMBER
.003

DB Rev - 766 : 30-May-2022

DIMENSIONAL DATA
CURRENTLY NOT AVAILABLE

Detail Information
Prepared By :

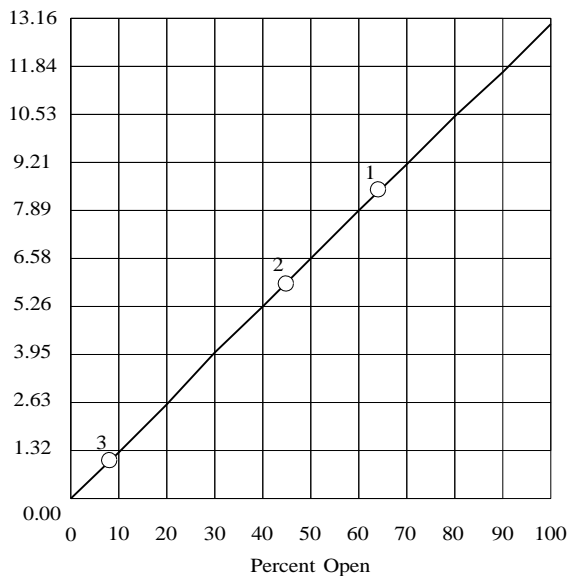
Customer :
PO # :
Quote # :
Rev/By : 0.0 / rcsehi
Application : HP Feedwater Line

Project : -
Proj Num :
Q. ID : rcsehi_JKBS4707PNXT_5920
Alternate :

Valve Tag # : 13LAB30AA902
Page # : 3
P&ID :
Line :
Date / Ver : 10-Mar-2022 / 12.7360

3.00 in (Trim: 1.69O Cv:13.0 (6stg)) CL 1500 Mark One ChannelStream Globe

	Cond1	Cond2	Cond3							
Process Data										
Temp (°C)	140.000	140.000	140.000	---	---	---	---	---	---	---
P1 (bar (g))	124.900	124.900	124.900	---	---	---	---	---	---	---
P2 (bar (g))	50.700	50.400	0.700	---	---	---	---	---	---	---
Liq Flow (1000 kg/h)	61.320	42.920	10.220	---	---	---	---	---	---	---
Gas Flow (kg/h)	---	---	---	---	---	---	---	---	---	---
Visc (cP)	0.000	0.000	0.000	---	---	---	---	---	---	---
VP (bar (g))	2.603	2.603	2.603	---	---	---	---	---	---	---
DP (bar)	74.200	74.500	124.200	---	---	---	---	---	---	---
DpC (bar)	119.647	119.647	119.647	---	---	---	---	---	---	---
Vel (m/s)	4.788	3.351	39.093	---	---	---	---	---	---	---
Pipe Vel (m/s)	4.305	3.013	35.154	---	---	---	---	---	---	---
Noise (dBA)	< 70.0	< 70.0	Flashing	---	---	---	---	---	---	---
Flow Cap (Cv)	8.546	5.969	1.121	---	---	---	---	---	---	---
Stroke (% Lift)	64	45	8	---	---	---	---	---	---	---
Info ()	---	---	---	---	---	---	---	---	---	---
Detailed Miscellaneous Information										
FP	1.000	1.000	1.000	---	---	---	---	---	---	---
FL	0.988	0.988	0.988	---	---	---	---	---	---	---
FR	1.000	1.000	1.000	---	---	---	---	---	---	---
Sg	0.930	0.930	0.930	---	---	---	---	---	---	---
K	---	---	---	---	---	---	---	---	---	---
Xt	---	---	---	---	---	---	---	---	---	---
Z	---	---	---	---	---	---	---	---	---	---
FD	---	---	---	---	---	---	---	---	---	---
MWT	---	---	---	---	---	---	---	---	---	---
Detailed Cavitation (Sigma) Information										
Sigma	1.648	1.642	---	---	---	---	---	---	---	---
Sigma MR	1.011	1.011	---	---	---	---	---	---	---	---
PSE	0.867	0.867	---	---	---	---	---	---	---	---
SSE	1.000	1.000	---	---	---	---	---	---	---	---
Sigma V	1.009	1.009	---	---	---	---	---	---	---	---
Sigma P	1.009	1.009	---	---	---	---	---	---	---	---



Fluid: WATER
Type: Full
Owner: EVERYONE Fluid List: STANDARD
Vp Equation: Antoine

Critical Pressure (psi (a)/bar (a)) : 3208.200 / 221.255
Critical Temperature (°F/°C) : 705.430 / 374.128
Reference Specific Gravity: 1.000
Molecular Weight: 18.020
Specific Heat Ratio: 1.330
Reference Temperature (°F/°C) : 67.730 / 19.850
Vp-A: 14.358 Vp-B: 6869.520
Vp-C: -83.030

Minimum Temperature (°F/°C) : 35.330 / 1.850
Maximum Temperature (°F/°C) : 704.930 / 373.850
Bulk Modulus ((lbf/in²)/(kg/cm²)) : 340000.000 / 4835820.000

Flow Direction : Flow Over
Trim Characteristic : Linear
Balance Type: P/B O-Ring
Trim Type : ChannelStream

DB Rev - 766 : 30-May-2022

Control Valve Specification
Prepared By :

Customer :
PO # :
Quote # :
Rev/By : 0.0 / rcsehi
Application : LP Feedwater Line

Project : -
Proj Num :
Q. ID : rcsehi_JKBS4707PNXT_6053
Alternate :

Valve Tag # : 13LAB70AA901
Page # : 4
P&ID :
Line :
Date / Ver : 01-Jun-2022 / 12.7360

Process Data For Control Valve Selection	1	Pipe Size, Up/Down	3.000 / 3.000			
	2	Pipe Sch, Up/Down	40 / 40			
	3	Allow Noise/Add Attn/Type	85 / 0 /			
	4	Process Fluid	WATER			
	5	Design Press./Temp.	0.00 / 23.00 bar (g) / 0.00 / 180.00 °C			
	6	Driving Cond.	MAX	NORM	MIN	Cond4
	7	Temperature (°C)	138.900	138.900	138.900	
	8	Inlet Press (bar (g))	10.100	11.000	13.200	
	9	Outlet Press (bar (g))	4.600	4.600	4.300	
	10	Liq Flow Rate (1000 kg/h)	58.090	52.810	5.000	
	11	Gas Flow Rate (kg/h)	0	0	0	
	12	Viscosity (cP)	0.000	0.000	0.000	
	13	Vapor Press (bar (g))	2.540	2.540	2.540	
	14	SG-MW	0.931	0.931	0.931	
	15	Max Shutoff / Shutoff Class	14.200 bar / Class IV			
	16	Min Supply Pressure / Max Supply Pressure	8.800 / 10.340 bar (g)			
	17	Valve Function / Amb Temp Min/Max	Throttling / °F			
Calculated Data	18	Driving Cond.	MAX	NORM	MIN	Cond4
	19	Flow Coeff. (Cv)	29.714	25.042	2.011	
	20	Est Stroke (% Lift)	83.000	68.000	5.000	
	21	Pressure Drop (bar)	5.500	6.400	8.900	
	22	Choke Drop (bar)	6.626	7.388	9.250	
	23	Noise [IEC] (dBA)	<70	<70	<70	
	24	Valve Vel (m/s)	3.807	3.461	0.328	
	25	Pipe Vel (m/s)	3.640	3.309	0.313	
Valve Body Assembly	26	Model / Body Type / Trim Type	Mark One / Globe / ChannelStream			
	27	Size/Pressure Class/Body Form	3.00 / CL 600 / Cast			
	28	Trim # - Cv / Characteristic	1.62C Cv:34 (3stg) / Linear			
	29	Stages/DWG/Ret Guiding	2 Stage / / CD_1500 /			
	30	Flow Direction	Flow Over			
	31	Body Matl / Bonnet Matl	Carbon Steel (WCC) / Carbon Steel			
	32	End Conn/Sch/Face to Face	Butt Weld / 40 / ISA S75.08.05			
	33	Flange Finish				
	34	Bonnet / Drip Plate / Cryo Type	Standard / /			
	35	Balance Type / P/B Seal Matl.	Unbalanced /			
	36	Plug Mtl/ Facing/Treatment /Stem Cvr	1.4122 HT / /			
	37	Stem Mtl/ Facing/Treatment /Pilot Spr	1.4122 HT / /			
	38	Seat Ring Mtl/ Facing/Treatment	1.4122 HT (~440C) /			
	39	Soft Seat Material	/ /			
	40	Seat Retainer Mtl/ Facing/Treatment	1.4122 HT (~440C) /			
	41	Sleeve Mtl/ Facing/Treatment	/			
	42	Guides Upper/Lower	Bronze C93200 / Bronze C93200			
	43	Packing Matl / Style / Vac / Fire / Cert AFPI / Single / / /				
	44	Packing - Live-Loaded				
	45	Bonnet Port / Body Drain	/			
	46	Bellows Type / Material	/			
	47	Body Bolting/Bonnet Flange Matl	B7-2H Zinc Plated / Carbon Steel			
	48	Gaskets	Spiral Graphite			
	49	Gland Flange Material	Stainless Steel			
	50	Gland Flange Bolting	Carbon Steel, Zinc Plated			
	T1					
	T2					
	T3					
Customer Spec	T4					
	2	Certification/Approval Type	ATEX / Intr Safe /			
	3	Class or Gas Group	IIB+H2			
	4	Division or Zone	Zone 1 (2)			
	5	Group				
	6	Ingress / Temperature	IP 65 / T4			
	7	NACE / Nuclear	NA / NA			
	8	SIL Vlv-Act / Pos	NA / NA			
	9	Oxygen Service/Assy. Lubricant	NA /			
Actuator	51	Act. Type/Matl	VL Cylinder / Aluminum			
	52	Act. Size/Instr. Sup.	50 / Air			
	53	Stroke/Spring	2.50 / Standard			
	54	Fail/Air-To	In Place / Open			
	55	Vol Tank/Orient/Mtg	/ /			
	56	Tubing Size/Mtl	3/8" / 316 SS			
	57	Fitting Mfg/Mtl	Swagelok / 316 SS			
	58	Pos. Ornt./HW	HVR / Side Mnt/Cont Connect			
	59	Act O-Rings	Buna-N			
	60	Spud	2.62 / 1.00-12 UNF			
	61					
	62	Model	BETA			
	63	Model #	L3W1L1B1100-NT3002282SN1W00			
	64	Material Paint	Aluminum, White			
Positioner	65	Venting	Non-Vented			
	66	Base Soft Goods	Buna-N			
	67	Gauges	2SS-Brass PSI/BAR/KPA			
	68	Signal	4 - 20 mA			
	69	Spool Valve	Standard			
	70	Pos Tag/Mounting	/			
	71	Transducer	NT3000/Direct Mounted			
	72	Conduit Conn.	1/2" NPT / Std Alum w/ Mylar Cert Sticker			
	73	Model	Pos. Pac TX (analog)			
	74	Switch Model#				
	75	Indicate				
	76	Mounting				
	77	Tag				
	78					
Pos Ind Sw	79					
	80					
	81					
	82	Model/Qty	/			
	83	Cv-Kv/De-en	/			
	84	Volt/Watt	/			
	85	Body/Housing Mtl	/			
	86	Body/Elect Conn	/			
	87	Port Size/Mtg	/			
	88	Tag/Reset-Override	/ / /			
	89	Air Filter/Mnting	/			
	90	Filter-Reg/Mnting	FR 04411S00ALLT2 Al / Nipple Mtd			
	91	Flow Booster / Mtg.	/			
	92	Booster Config				
Solenoid	93	Quick Exhaust	/			
	94	SupTube/Jctn Box	/			
	95	Lockup/Mnting	Fail-In-Place /			
	96	Plate ID				
	97	Plate Type				
	98	Packaging	Standard			
	99	Pwr. Sup.				
	1	Wiring Conn. Type				
	1	Rad. Exm	/			
	2	Drawings	Type I			
	3	Assem Hydro	EN 60534-4 / FCI 70-2			
	4	Seat leak/Final test cert.	EN 60534-4 / FCI 70-2 /			
	5	PMI/Weld Req	/ ASME BPVC Section IX			
	6	Cert of Conf.	DIN 3.1B Seat-Leak & Results			
Others	7	Clean/Bld/Doc	/ /			
	8	CMTR	Body & Bonnet / EN 10204 3.1			
	9	Special Paint/Test	Epoxy stand. V16 /			
	10	Diag Test/FM	/			
	11	Cust. Insp/Witn.	No / No			
	12	/				
	13	Cust Furnish	None			
	14	Flow Testing				
	S1					
	S2					
Special Req	1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					

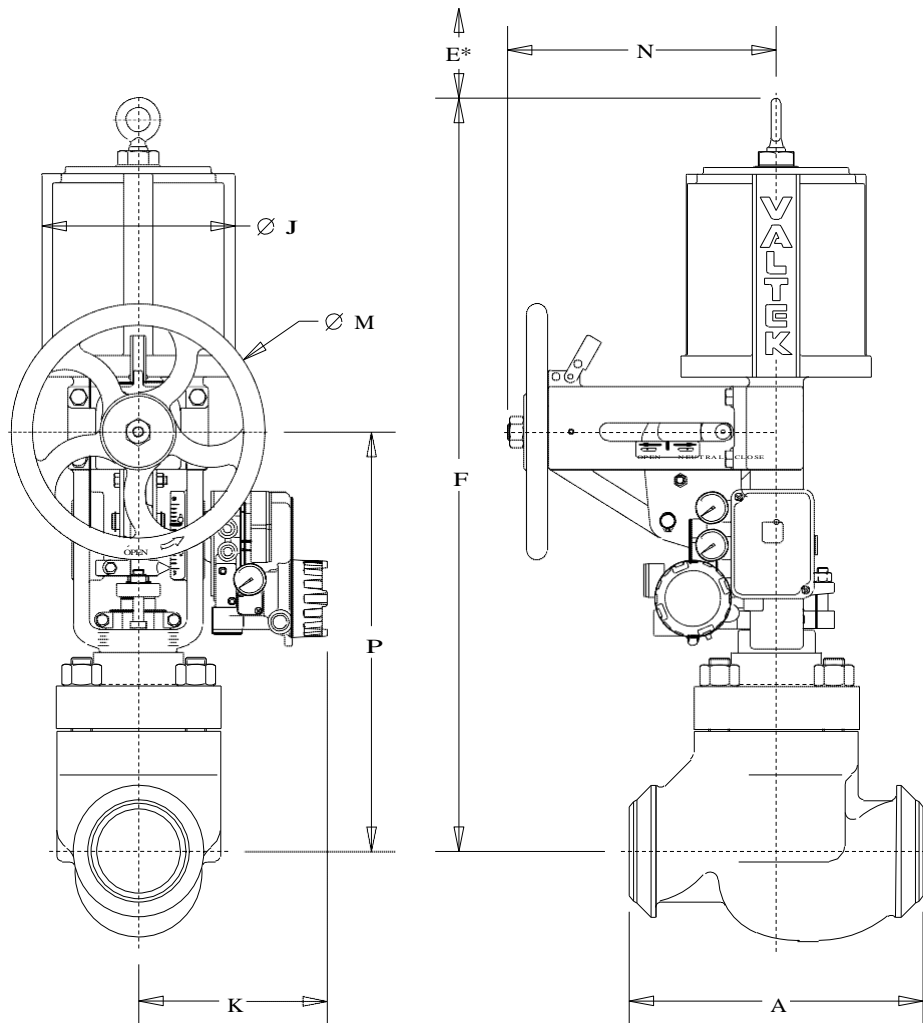
Line # : Remarks :

C	29	SEAT RET, MK1, CHNLSTRM, 3", CL 900/1500, LIN, TN 2.50, CV 13, 2 STAGE, 2.50 STROKE, A-582-416, HEAT TREAT PER SPP-929 (HRC 34-43) (ECO 153 11-8-02) as per 192296.158.000
C	72	we will supply to electrical conn 1/2" 3/4" NPT(F) with adaptor.
C	90	Connection 1/4" NPT
C	202	Replacement to SN 708872.003

DB Rev - 766 : 30-May-2022 : ID = rcsehi_JKBS4707PNXT_6053

Quantity: 1

MK1|D|W|V|NL3|XX|3|600|A216WCC|O|D|X|X|I|2|N|P|X|L|I|1,62|X|A|L3|50|X|S|S|P|N|



* - DISASSEMBLY / MAINTENANCE CLEARANCE

	A	E	F	J	K	M	N	P	WT
INCH	13.25	5.8	32.8	9.1	9.6	12.0	12.8	17.1	178 LBS
MM	336.6	147	832	232	244	305	324	434	81 KG

Note: Dimensions are correct per associated specification sheet. End connections and scaling may not actual. For accessory information, see associated specification sheet.

MODEL
Mark One
SIZE
3 INCH

ACTUATOR
50 SQ IN
AIR TO
OPEN

BY
rcsehi

DIMENSIONAL DRAWING

CUSTOMER

ITEM
4

RATING / F/F STD
CL 600 / S75.08.05

FAIL
In Place

DATE
01-Jun-2022

VALVE TAG
13LAB70AA901

SHEET
1

END CONNECTION
BW SCH

SPRING
STANDARD

THIRD ANGLE PROJECTION

P.O. NUMBER

REVISION
0.0

TRIM TYPE


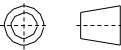
CHNLSTRM

TRIM / CV
1.62C / Cv:34 (3stg)

PROJECT
-

SERIAL NUMBER
.004

DB Rev - 766 : 30-May-2022

Detail Information
Prepared By :

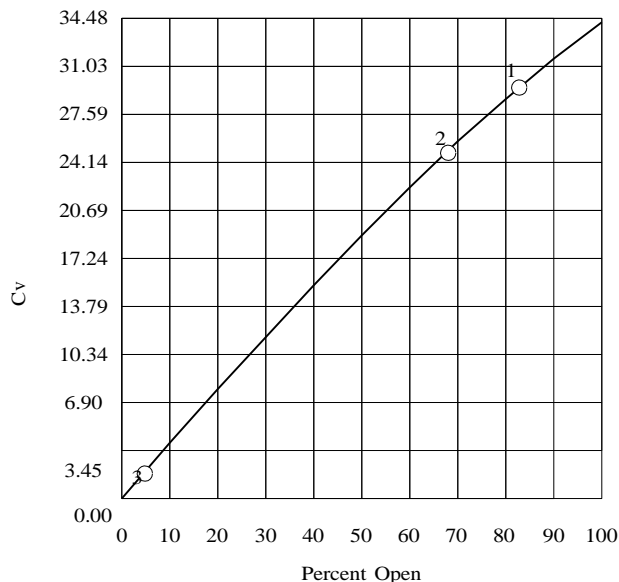
Customer :
PO # :
Quote # :
Rev/By : 0.0 / rcsehi
Application : LP Feedwater Line

Project : -
Proj Num :
Q. ID : rcsehi_JKBS4707PNXT_6053
Alternate :

Valve Tag # : 13LAB70AA901
Page # : 4
P&ID :
Line :
Date / Ver : 01-Jun-2022 / 12.7360

3.00 in (Trim: 1.62C Cv:34 (3stg)) CL 600 Mark One ChannelStream Globe

		MAX	NORM	MIN							
Process Data											
Temp	(°C)	138.900	138.900	138.900	---	---	---	---	---	---	---
P1	(bar (g))	10.100	11.000	13.200	---	---	---	---	---	---	---
P2	(bar (g))	4.600	4.600	4.300	---	---	---	---	---	---	---
Liq Flow	(1000 kg/h)	58.090	52.810	5.000	---	---	---	---	---	---	---
Gas Flow	(kg/h)	---	---	---	---	---	---	---	---	---	---
Visc	(cP)	0.000	0.000	0.000	---	---	---	---	---	---	---
VP	(bar (g))	2.540	2.540	2.540	---	---	---	---	---	---	---
DP	(bar)	5.500	6.400	8.900	---	---	---	---	---	---	---
DpC	(bar)	6.626	7.388	9.250	---	---	---	---	---	---	---
Vel	(m/s)	3.807	3.461	0.328	---	---	---	---	---	---	---
Pipe Vel	(m/s)	3.640	3.309	0.313	---	---	---	---	---	---	---
Noise	(dBA)	< 70.0	< 70.0	< 70.0	---	---	---	---	---	---	---
Flow Cap	(Cv)	29.714	25.042	2.011	---	---	---	---	---	---	---
Stroke	(% Lift)	83	68	5	---	---	---	---	---	---	---
Info	()	---	---	---	---	---	---	---	---	---	---
Detailed Miscellaneous Information											
FP		1.000	1.000	1.000	---	---	---	---	---	---	---
FL		0.920	0.920	0.920	---	---	---	---	---	---	---
FR		1.000	1.000	1.000	---	---	---	---	---	---	---
Sg		0.931	0.931	0.931	---	---	---	---	---	---	---
K		---	---	---	---	---	---	---	---	---	---
Xt		---	---	---	---	---	---	---	---	---	---
Z		---	---	---	---	---	---	---	---	---	---
FD		---	---	---	---	---	---	---	---	---	---
MWT		---	---	---	---	---	---	---	---	---	---
Detailed Cavitation (Sigma) Information											
Sigma		1.375	1.322	1.198	---	---	---	---	---	---	---
Sigma MR		1.107	1.107	1.107	---	---	---	---	---	---	---
PSE		0.535	0.547	0.572	---	---	---	---	---	---	---
SSE		1.000	1.000	1.000	---	---	---	---	---	---	---
Sigma V		1.057	1.058	1.061	---	---	---	---	---	---	---
Sigma P		1.057	1.058	1.061	---	---	---	---	---	---	---



Fluid: WATER
Type: Full
Owner: EVERYONE Fluid List: STANDARD
Vp Equation: Antoine

Critical Pressure (psi (a)/bar (a)) : 3208.200 / 221.255
Critical Temperature (°F/°C) : 705.430 / 374.128
Reference Specific Gravity: 1.000
Molecular Weight: 18.020
Specific Heat Ratio: 1.330
Reference Temperature (°F/°C) : 67.730 / 19.850
Vp-A: 14.358 Vp-B: 6869.520
Vp-C: -83.030

Minimum Temperature (°F/°C) : 35.330 / 1.850
Maximum Temperature (°F/°C) : 704.930 / 373.850
Bulk Modulus ((lbf/in²)/(kg/cm²)) : 340000.000 / 4835820.000

Flow Direction : Flow Over
Trim Characteristic : Linear
Balance Type: Unbalanced
Trim Type : ChannelStream

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