

COPES-VULCAN, SPX Valves & Controls Road Two, Industrial Estate, Winsford, Cheshire. UK Phone: +44 (0)1606 552041 Fax: +44 (0)1606 558275					CONTROL VALVE SPECIFICATION SHEET						
Customer Name: ALSTOM POWER CENTRALES - BELFORT Customer Inquiry: EMAIL Customer PO: 745117 P12 73077 Ultimate User: MARITZA EAST 1 BULGARIA Tag: 01/02 LCH70 AA001 Application: HP7 NORMAL DRAIN					CV Inquiry: DMS/060909/PM1 CV Job: WH/00071 CV Job Ref: CW32706 CV Serial #: 07CW32706/01-02 Item: 07 Quantity: 2						
Description: 4" (100 mm), CL600, WC9 , BW, GS-700 DIAPHRAGM											
FLUID: Water		SERVICE CONDITIONS									
	FLOW (Mton/hr)	P1 (bar a)	P2 (bar a)	Temp. (deg C)	Cv	CV (%)	Travel (%)	Valve Outlet Vel. (ft/sec)	Noise * (dBA)	Remarks	
COND 1	65	40.7	20.7	224.9	21.2	52%	71%	1574 (ft/min)	---	FLASHING	
COND 2	58.4	38.5	19.7	222.5	19.7	49%	68%	1465 (ft/min)	---	FLASHING	
COND 3	14	12.4	6.64	169.7	8.28	20%	41%	516 (ft/min)	---	FLASHING	
COND 4											
COND 5											
SHUTOFF		54	1	270	Allowable Leakage:			* Estimated Noise Level with 0" of Insulation			
DESIGN		54		270	Class IV						
BODY AND BONNET											
Style: GS - General Service, Globe Size: 4 inch ASME Class: 600 Standard Body Inlet: Butt Weld, Sch 40 per ANSI B16.25, Fig. 2b Body Outlet: Butt Weld, Sch 40 per ANSI B16.25, Fig. 2b Material: A-217 WC9 Inlet Pipe: 6 In. (150 mm), Sch 40 Outlet Pipe: 6 In. (150 mm), Sch 40					Bonnet Type: Bolted Packing Material: Grafoil Packing Hardware: Stainless Steel Packing Nut Torque: 4 ft-lbs. Options: Double Packed(w/Leakoff Tapped & Plugged) Service: Intermittent Modulation						
TRIM											
Size: 3 inch with 4 Starts Style: CAV-B9 (Balanced w/Carbon Piston Rings) Flow Direction: OVER THE WEB Stem Diameter: .75 in. Characteristic: CAV-B9					Seat Type: METAL Trim Material: 400/70 SST Max. Cv Available: 40.39 @Max. Act. Travel of 1" (±1/8) Min. Controllable Cv of Trim: 1.5						
ACTUATOR											
Style: 700 DIAPHRAGM Size: 100 (Square Inch) Action: Spring Closing (Reverse) Handwheel: None Frame Material: Ductile Iron Air Pressure Available: 4.0 bar g (58 psig) Air Pressure Required: 2.5 bar g (36 psig)					Actuator Mounting Style: Screwed Ring Actuator Spring: 357569 Spring Rate: 600 (lbs/inch) Max. Stem Thrust Required to Close: 1304 (lbs) Max. Stem Thrust Required to Open: 572 (lbs) Spring Precompression (Diaphragm Air Pressure): 19 (psig) Pressure @ Full Valve Travel (With No Internal Valve Pres.): 25 (psig)						
ACCESSORIES											
Positioner: Siemens SIPART PS2, Single Acting Positioner Input Range: 4-20 mA Position FeedBack Module (4-20ma): NO Alarm Module: NO HART Module: NO					Airlock: None Filter/Regulator: Norgren B64G-4GK-AD3-RMN Qty: 1 Solenoid Valve: ASCO (110 VDC) Qty: 1 De-energize to vent actuator Booster Relay: RK 1000 Qty: 1 Additional Acc'y: Pneumatic Isolation Valve Qty: 1						
Piping: 1/2" Stainless Steel Tubing (Hoke) Limit Switches: None											
COMMENTS											
Gland is double packed for vacuum service Solenoid valve tag number 01/02 LCH70 AA001 A Alstom to confirm pipe sizes as they appear large for the stated duties Stroking speed <4 seconds											
Model = GS4 Body Option: BDY504080603 Bonnet Option: BNT504270603 Trim Option: TRM504330710403 Hardware Pack Option: HDP5124112 Actuator Option: ACT5***** Stem Option: STM5**04021012 Gasket Option: GSK5040301061 Accessory Kit Option: I.D. Plate: OPT187019 Limit Switch Option: None											
					3	IJW	Revised For Contract Use		Jan-24-2007		
					2	MW	Revised per Clarification		Nov-20-2006		
					1	MW	Stroking speed added		Oct-26-2006		
					0	MW	Original Sizing		Sep-15-2006		
					Rev	Initials	Description		Date		
Program Rev Level: 9.2.11 S					File Name: K:\...Technical\Contract Docs\Datasheets\DS-CW32706.VS3 (9.2.11)						

RECOMMENDED SPARES LIST

CUSTOMER NAME	ALSTOM POWER CENTRALES - BELFORT	VENDOR CONTRACT N°	WH/00071	DATE	21-May-07
PROJECT NAME	MARITZA EAST 1 BULGARIA	DOCUMENT N°	RSL/CW32706/01 & 02	AFTERMARKET REF	DGE/070206/IRSL8
CUSTOMER PO N°	745117 P12 73077	REV STATUS	0	CONTACT	D.G. EDWARDS

Qty Of Valves	2 OFF	Description	GS Globe 8" ANSI 300
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Tag N°	Serial N°	Qty Installed Per Valve	CD Drawing N°	Drawing Item	Description	Part N°	Notes	Recommended 2 Yrs Operation
0102LCH70AA001	CW32706/01 & 02	1	CD32706	3,4,5,40,71,73	Assy, Trim 4" BH CAV 4S NIT Consisting of #	M504330410303		1
0102LCH70AA001	CW32706/01 & 02	1	CD32706	3+	Plug #	PLG303020203		1
0102LCH70AA001	CW32706/01 & 02	1	CD32706	4+	Cage #	CAG30301050403		1
0102LCH70AA001	CW32706/01 & 02	1	CD32706	5+	Seat#	SRG30310303		1
0102LCH70AA001	CW32706/01 & 02	2	CD32706	40++	Piston Ring #	S347748	1	8
0102LCH70AA001	CW32706/01 & 02	1	CD32706	71	Seat Adaptor Ring #	UAR3040302		
0102LCH70AA001	CW32706/01 & 02	1	CD32706	73	Cage Adaptor Ring #	ADR3040302		
0102LCH70AA001	CW32706/01 & 02	1	CD32706	6+	Stem	STM310214502		1
0102LCH70AA001	CW32706/01 & 02	1	CD32706	9++	Bonnet Gasket	S342796	1	4
0102LCH70AA001	CW32706/01 & 02	1	CD32706	10+	Gland Washer	S373407		1
0102LCH70AA001	CW32706/01 & 02	1	CD32706	16++	Gland Packing	S388491	1	4
0102LCH70AA001	CW32706/01 & 02	1	CD32706	18+	Spirol Pin #	U20-119		1
0102LCH70AA001	CW32706/01 & 02	1	CD32706	20,22	Trim Gasket Consisting Of ##	GSK6040301061	1	4
0102LCH70AA001	CW32706/01 & 02	2	CD32706	20++	Trim Gasket #	S268903	1	8
0102LCH70AA001	CW32706/01 & 02	2	CD32706	22++	Trim Gasket #	S325432	1	8
0102LCH70AA001	CW32706/01 & 02	1	See Manual	14,30,32,33,35,36	Actuator Spares Kit 100R Consisting of ## #	C80135-AQA		1
0102LCH70AA001	CW32706/01 & 02	1	See Manual	14+	Diaphragm #	S186989BPP		1
0102LCH70AA001	CW32706/01 & 02	1	See Manual	32++	Gasket #	S356999		1
0102LCH70AA001	CW32706/01 & 02	1	See Manual	33+	U Cup Seal #	S357800		1
0102LCH70AA001	CW32706/01 & 02	1	See Manual	35+	O Ring (Inner) #	S357801		1
0102LCH70AA001	CW32706/01 & 02	1	See Manual	36+	O Ring (Outer) #	S357802		1
0102LCH70AA001	CW32706/01 & 02	1	See Manual	30+	Bushing	S356093		1

NOTES

COMMENTS

Please note that items marked with a [1], must be changed during an inspection or maintenance overhaul it should be ensured that these items are available before commencing the inspection.
Do Not Re-Use