

COPES-VULCAN, SPX Process Equipment Road Two, Industrial Estate, Winsford, Cheshire. United Kingdom 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: 01/02LAB40 AA002 Application: DRUM LEVEL NORMAL CONTROL VALVE							CV Inquiry: DMS/060909/PM1 CV Job: WH/00071 CV Job Ref: CW32702 CV Serial#: 07CW32702/01-02 Item: 03 Quantity: 2			
Description : 8 Inch, Class 2500 STD, BW, A217 WC6, SD, Pneumatic Piston										
FLUID: Water		SERVICE CONDITIONS								
	FLOW t/hr	P1 bar.a	P2 bar.a	Temp deg C	Cv	Cv (%)	Travel (%)	Valve Outlet Vel. ft/sec	Noise (dBA)	Trim Exit Vel. m/sec
COND 1	960.5	213.7	203.7	182.4	402.5	85%	79%	32	<75	20.17
COND 2	889.2	210.0	200.0	179.0	371.8	79%	71%	29	<75	20.17
COND 3	864.0	225.6	215.7	173.6	361.9	77%	69%	28	<75	20.07
COND 4	449.6	197.6	187.6	152.1	185.1	39%	34%	14	<75	20.17
COND 5	304.9	189.5	179.0	137.0	121.6	26%	23%	10	<75	20.67
SHUTOFF		333	1.01		Allowable Leakage:			Predicted noise level with Insulation (IEC 60534-8-3)		Insulation
DESIGN		333		195	ANSI FCI 70-2 Class V					0.0 Inch
BODY AND BONNET										
Style: SD-Severe Duty, Globe Size: 8 Inch ASME Class: 2500 Standard Body Inlet: Butt Weld, Sch 160 Per ANSI B16.25, Fig. 2b Body Outlet: Butt Weld, Sch 160 Per ANSI B16.25, Fig. 2b Material: ASTM A217 WC6 Inlet Pipe: 310mm ID x 25.5mm WT Outlet Pipe: 310mm ID x 25.5mm WT					Bonnet Type: Pressure Seal Packing Material: Teflon Packing Hardware: Stainless Steel Options: Single Packed Service: Continuous Modulation Inlet Reducer: 8" Sch 160 x 310mm ID x 25.5mm WT, Length: 12.00 In., 15NiCuMoNb5 Outlet Expander: 8" Sch 160 x 310mm ID x 25.5mm WT, Length: 12.00 In., 15NiCuMoNb5					
TRIM										
Size: 8 Inch with 2 Turns Style: RAVEN (Balanced with Ucup seal) Flow Direction: OVER THE WEB Stem Diameter: 1.25 Inch Characteristic: RAVEN					Seat Type: Metal Trim Material: 400/70 SST & 300SST Disc Stack Max. Cv Available: 472.2 @Max Travel of 4.5" (+/-1/8) Min. Controllable Cv of Trim: 1.29					
ACTUATOR										
Actuator Model: Pneumatic Piston 18" Diameter Action: Direct (Air Fail Open) Handwheel: None Frame Material: Ductile Iron Air Pressure Available: 5.0 bar.g Air Pressure Required: 3.5 bar.g					Actuator Mounting Style: Studded Actuator Spring: TBA Spring Rate: TBA Max Stem Thrust Required to Close: 12286 lbf/in Max Stem Thrust Required to Open: 4577 lbf Bench Set: N/A psi.g					
ACCESSORIES										
Positioner: Siemens SIPART PS2, Single Acting Positioner Input Range: 4-20 mA Position FeedBack Module (4-20mA): YES Alarm Module: NO HART Module: NO Piping: 1/2" Stainless Steel Tubing (NERO) Limit Switches: None					Airlock: None Filter/Regulator: Davis Pneumatics, w/Gauge Solenoid Valve: None Booster Relay: As Required for Stroke Speed Additional Acc'y: Pneumatic Isolation Valve Qty: 1 Qty: 1					
COMMENTS										
Stroking Speed Opening or Closing shall be less than 30 Seconds Trim Exit Velocities are Shown Reducer / Transition pieces shall be provided on the inlet & Outlet Connection to match the customer pipe size and material.										
					06	CMN	Design and Shut Off Pressures were 331 Customer Req	Dec-24-2007		
					05	CMN	Shut Off was Class IV	Nov-14-2007		
					04	ADA	DESIGN REVIEW	Mar-28-2007		
					03	IJW	Issued For Contract Use	Jan-24-2007		
					02	MW	Revised Per L2 Meeting	Nov-20-2006		
					01	MW	Revised to RAVEN Trim	Oct-25-2006		
					00	MW	Original Data Sheet	Sep-15-2006		
					Rev	Initials	Description	Date		
Program Rev Level: UK-1-2 (WS Version)										

SPX Process Equipment

LISTEN...INNOVATE...DELIVER

COPE-S-VULCAN®

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/CW32702/01 & 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	SD Globe 8" ANSI 2500
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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
01/02LAB40AA002	CW32702/01 & 02	1	CD32702	3,4,5,18,20,21,22,25,39,88,107,142	Assy Trim, 8" Raven 2T 32P Consisting Of #	C99107VQAQ		1
01/02LAB40AA002	CW32702/01 & 02	1	CD32702	3+	Plug #	C33751-XMC		1
01/02LAB40AA002	CW32702/01 & 02	1	CD32702	4+	Trim Slack #	C33745-AQA		1
01/02LAB40AA002	CW32702/01 & 02	1	CD32702	5+	Seat#	C32826-XMC		1
01/02LAB40AA002	CW32702/01 & 02	1	CD32702	18+	Spirol Pin #	U20-126		1
01/02LAB40AA002	CW32702/01 & 02	1	CD32702	20++	Trim Gasket #	S269593	1	4
01/02LAB40AA002	CW32702/01 & 02	1	CD32702	21+	Trim Spacer #	C33754-XMA	1	1
01/02LAB40AA002	CW32702/01 & 02	1	CD32702	25++	U Cup Seal #	C27727-BPP	1	4
01/02LAB40AA002	CW32702/01 & 02	1	GD32702	39	Retaining Ring #	C33040-XHE		1
01/02LAB40AA002	CW32702/01 & 02	1	CD32702	89,107	Assy Split Ring Bolt & Bar #	C33042-AQA		1
01/02LAB40AA002	CW32702/01 & 02	16	GD32702	89	Split Ring Bolt #	C33038-XHR		16
01/02LAB40AA002	CW32702/01 & 02	14	GD32702	107+	Locking Bar #	SBF0030X0120		14
01/02LAB40AA002	CW32702/01 & 02	1	CD32702	142++	U Cup Seal #	C33753-BPP	1	4
01/02LAB40AA002	CW32702/01 & 02	1	CD32702	6+	Stem	STM330431004		1
01/02LAB40AA002	CW32702/01 & 02	1	CD32702	46++	Pressure Seal	C22971UBPP	1	4
01/02LAB40AA002	CW32702/01 & 02	1	CD32702	16++	Gland Packing	C11578-BPP	1	4
01/02LAB40AA002	CW32702/01 & 02	1	CD32702	144+	Gland Spring	C08421-BPP		1
01/02LAB40AA002	CW32702/01 & 02	1	See Manual		Actuator Repair Kit	AKX25-256		1

NOTES

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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