

CONTROL VALVE SPECIFICATION SHEET

CV Inquiry: **DMS/060909/PM1**
CV Job: **WH/00071**
CV Job Ref: **CW32703**
CV Serial#: **07CW32703/01-02**
Item: **04**
Quantity: **2**

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	305.0	189.5	179.0	137.0	115.5	84%	81%	17.9	<75	14.93
COND 2	94.0	28.1	10.0	30.0	26.2	19%	22%	5.1	<75	19.60
COND 3										
COND 4										
COND 5										
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

Style: SD-Severe Duty, Globe	Bonnet Type: Pressure Sealed
Size: 6 Inch	Packing Material: Teflon
ASME Class: 2500 Standard	Packing Hardware: Stainless Steel
Body Inlet: Butt Weld, Sch 160 Per ANSI B16.25, Fig. 2b	Options: Single Packed
Body Outlet: Butt Weld, Sch 160 Per ANSI B16.25, Fig. 2b	Service: Continuous Modulation
Material: ASTM A217 WC6	
Inlet Pipe: 193.7mm OD x 16mm WT	Inlet Reducer: 6" Sch 160 x 193.7mm OD x 16mm WT, Length: 6.00 In., 15NiCuMoNb5
Outlet Pipe: 193.7mm OD x 16mm WT	Outlet Expander: 6" Sch 160 x 193.7mm OD x 16mm WT, Length: 6.00 In., 15NiCuMoNb5

Size: 4 Inch with 4 Turns	Seat Type: Metal
Style: RAVEN (Balanced with Ucup seal)	Trim Material: 40070 SST & 300SST Disc Stack
Flow Direction: OVER THE WEB	Max. Cv Available: 136.8 @Max Travel of 3.5" (+/-1/8)
Stem Diameter: 1.00 Inch	Min. Controllable Cv of Trim: 0.66
Characteristic: RAVEN	

Actuator Model: Pneumatic Piston	Actuator Mounting Style: Studded
16" Diameter	Actuator Spring: TBA
Action: Direct (Air Fail Open)	Spring Rate: TBA lbf/in
Handwheel: None	Max Stem Thrust Required to Close: 7901 lbf
Frame Material: Ductile Iron	Max Stem Thrust Required to Open: 3426 lbf
Air Pressure Available: 4.0 bar.g	Bench Set: N/A psi.g
Air Pressure Required: 3.5 bar.g	

Positioner: Siemens SIPART PS2, Single Acting	Airlock: None	
Positioner Input Range: 4-20 mA	Filter/Regulator: Davis Pneumatics, w/Gauge	Qty: 1
Position FeedBack Module (4-20mA): YES	Solenoid Valve: None	
Alarm Module: NO	Booster Relay: As Required for Stroke Speed	
HART Module: NO	Additional Acc'y: Pneumatic Isolation Valve	Qty: 1
Piping: 1/2" Stainless Steel Tubing (NERO)		
Limit Switches: None		

Trim Exit Velocities are Shown

	07	CMN	Shut off and Design pressure changed	Nov-26-2007
	06	CMN	Shut Off was Class IV	Nov-14-2007
	05	ADA	REVIEWED THROUGH ENGINEERING	Feb-28-2007
	04	MW	Inlet & Outlet pipe size revised	Feb-05-2007
	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

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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/CW32703/01 & 02	AFTER MARKET 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 6" 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
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01/02LAB40AA012	CW32703/01 & 02	1	CD32703	3,4,5,18,20,21,25,33,39	Assy Trim, Raven 6" 4T 38P Consisting Of #	C99106SAQA		1
01/02LAB40AA012	CW32703/01 & 02	1	CD32703	3+	Plug #	C33774-XMC		1
01/02LAB40AA012	CW32703/01 & 02	1	CD32703	4+	Trim Slack #	C33773-AQA		1
01/02LAB40AA012	CW32703/01 & 02	1	CD32703	5+	Seat#	SRG30410403		1
01/02LAB40AA012	CW32703/01 & 02	1	CD32703	18+	Spirol Pin #	U20-120		1
01/02LAB40AA012	CW32703/01 & 02	1	CD32703	20++	Trim Gasket #	S289034	1	4
01/02LAB40AA012	CW32703/01 & 02	1	CD32703	21+	Trim Spacer #	C33775-XMC		1
01/02LAB40AA012	CW32703/01 & 02	1	CD32703	22++	Trim Gasket #	S286166	1	4
01/02LAB40AA012	CW32703/01 & 02	1	CD32703	25++	U Cup Seal #	VAS040101	1	4
01/02LAB40AA012	CW32703/01 & 02	1	CD32703	33+	Seal Retainer #	RET3040101		1
01/02LAB40AA012	CW32703/01 & 02	1	CD32703	39++	Retaining Ring #	S342267	1	4
01/02LAB40AA012	CW32703/01 & 02	1	CD32703	50	Split Ring #	C32512-XMA		
01/02LAB40AA012	CW32703/01 & 02	1	CD32703	51	Retaining Ring #	C32514-ZHE		
01/02LAB40AA012	CW32703/01 & 02	1	CD32703	71	Seat Adaptor Ring #	ADR3060402		
01/02LAB40AA012	CW32703/01 & 02	12	CD32703	89	Split Ring Capscrew #	C32517-ZHR	1	12
01/02LAB40AA012	CW32703/01 & 02	1	CD32703	107+	Locking Bar #	C32570-AQA	1	1
01/02LAB40AA012	CW32703/01 & 02	1	CD32703	142++	U Cup Seal #	C33778-BPP	1	4
01/02LAB40AA012	CW32703/01 & 02	1	CD32703	6+	Stem	STM320326502		1
01/02LAB40AA012	CW32703/01 & 02	1	CD32703	16++	Gland Packing	C15886-BPP	1	4
01/02LAB40AA012	CW32703/01 & 02	1	CD32703	46++	Pressure Seal	C30881ABPP	1	4
01/02LAB40AA012	CW32703/01 & 02	1	CD32703		Actuator Repair Kit	AKX25-257		1
					See Manual			

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