COPES-VULCAN, SPX Valves & Controls
Road Two, Winsford Industrial Estate, Cheshire. CW7 3QL
Phone: 0044 1606 552041 Fax: 0044 1606 558275

CONTROL VALVE SPECIFICATION SHEET

Customer Name: **BSTO DEVELOPMENT**
Customer Inquiry: **SES ZONGULDAK, TURKEY**
Customer PO: **BSTO-O-038-2007**
Ultimate User: **ZONGULDAK TPP, TURKEY**
Tag: **LAB51AA001**
Application: **FEEDING 100%**

CV Inquiry: **DMC/070402/ML1**
CV Job: **WH/00549**
CV Job Ref: **CW33160**
CV Serial #: **08CW33160/01**
Item: **2**
Quantity: **1**

Description: **8" (200 mm), CL2500, WCB , BW, SD-AUMA SAR 14.1-22/ LE70.1**

FLUID: **Water**

SERVICE CONDITIONS

	FLOW (Mton/hr)	P1 (MPa a)	P2 (MPa a)	Temp. (deg C)	Cv	CV (%)	Travel (%)	Valve Outlet Vel. (ft/sec)	Noise * (dBA)	Remarks
COND 1	**145**	**10**	**5**	**180**	**25.2**	**7%**	**22%**	**6**	**<75**	
COND 2	**185**	**9.12**	**8.62**	**215**	**104**	**28%**	**45%**	**8**	**<75**	
COND 3	**464**	**19.5**	**19**	**260**	**272**	**72%**	**69%**	**22**	**<75**	
COND 4	**579**	**19.5**	**19**	**260**	**339**	**90%**	**83%**	**27**	**<75**	
COND 5										
SHUTOFF		**26.4**	**0.1**	**265**	Allowable Leakage:			* Estimated Noise Level with **0"** of Insulation		
DESIGN		**26.4**		**265**	**Class IV**					

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: **A-216 WCB**
Inlet Pipe: **323.9 mm 32.45 mm** Inlet Reducer: **200 mm Sch 160 X 323.9 x 32.45 mm, Length: 203.20 mm, Material: A-234 WPE**
Outlet Pipe: **323.9 mm 32.45 mm** Outlet Expander: **200 mm Sch 160 X 323.9 x 32.45 mm, Length: 203.20 mm, Material: A-234 W**

Bonnet Type: **Bolted**
Packing Material: **Grafoil**
Packing Hardware: **Steel**
Packing Nut Torque: **20 ft-lbs.**
Options: **Single Packed**
Service: **Intermittent Modulation**

TRIM

Size: **6 inch with 4 Ports**
Style: **PORT THROTTLE (Balanced w/Carbon Piston Rings)**
Flow Direction: **OVER THE WEB**
Stem Diameter: **.75 in.**
Characteristic: **MODIFIED PARABOLIC**

Seat Type: **METAL**
Trim Material: **400/70 SST**
Max. Cv Available: **377** @Max. Trim Travel of **2.5" (±1/8)**
Min. Controllable Cv of Trim: **4.2**

ACTUATOR

Style: **AUMA SAR 14.1-22/ LE70.1 (80)**
Size: **N/A**
Action: **N/A**
Handwheel: **Side Mounted**
Frame Material: **Cast Steel**
Air Pressure Available: **N/A**
Air Pressure Required: **N/A**

Actuator Mounting Style: **Clamped**
Actuator Spring: **N/A**
Spring Rate: **N/A**
Max. Stem Thrust Required to Close: **8586 (lbs)**
Max. Stem Thrust Required to Open: **3050 (lbs)**
Spring Precompression (Diaphragm Air Pressure): **N/A**
Pressure @ Full Valve Travel (With No Internal Valve Pres.): **N/A**

ACCESSORIES

Positioner: **None**
Positioner Action: **---**
Positioner Bypass: **---**
Positioner Gauges: **---**
Positioner Input Range: **---**
Positioner Cam: **---**
Piping: **None**
Limit Switches: **None**

Airlock: **None**
Filter/Regulator: **None**
Solenoid Valve: **None**
Booster Relay: **None**
Additional Acc'y:

Info: 14.

COMMENTS

BSTO TO SUPPLY AND FIT AUMA ACTUATOR

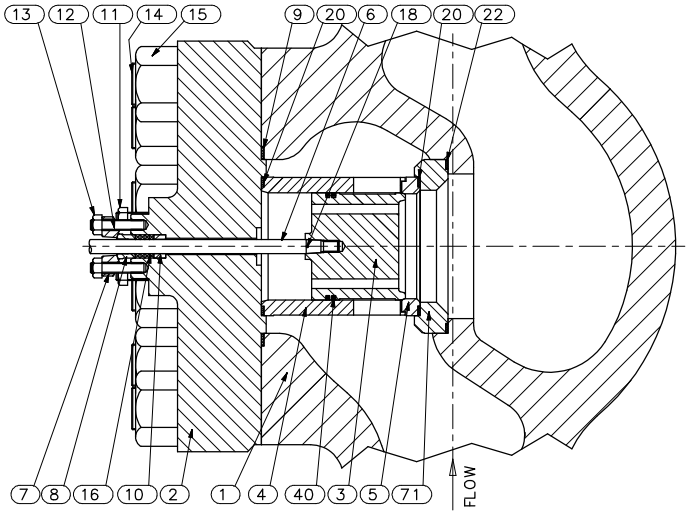
Model = **SD8**
Body Option: **BDY508150901**
Bonnet Option: **BNT5081*0901**
Trim Option: **TRM508330110403**
Hardware Pack Option: **HDP511*111**
Actuator Option: **ACT5********
Stem Option: **STM5**08022012**
Gasket Option: **GSK5080601091**
Accessory Kit Option:
I.D. Plate: **UNKNOWN**
Limit Switch Option: *****

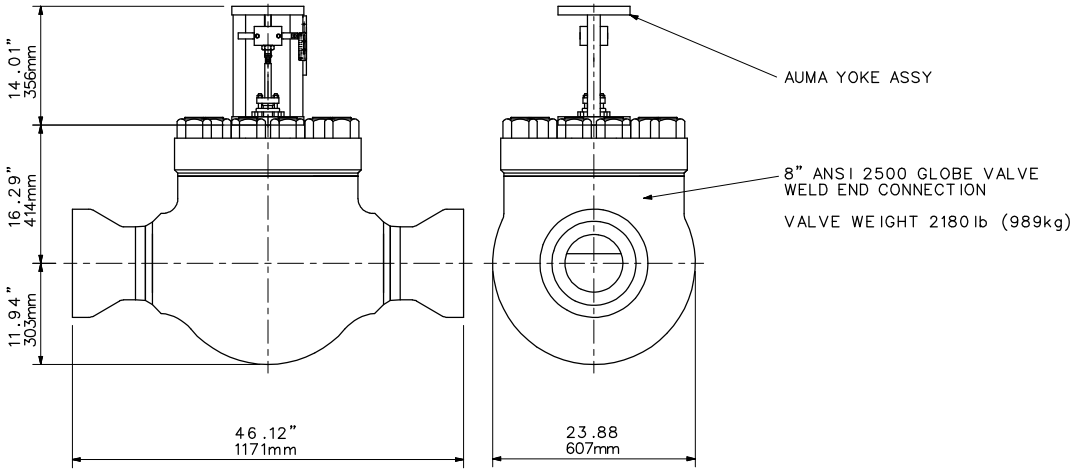
Rev	Initials	Description	Date
02	SKH	Per Customer Comments	Mar-12-2008
1	DMC	ISSUED FOR CONTRACT USE	Aug-16-2007
0	0	Rev.0	Mar-30-2007

ITEM	DESCRIPTION
1	BODY
2	BONNET
3+	PLUG
4+	CAGE
5+	SEAT
6+	STEM
7	GLAND BRIDGE
8	GLAND FOLLOWER
9++	BONNET GASKET
10	GLAND WASHER
11	ACTUATOR BOLTING
12	GLAND STUD
13	GLAND NUT
14	BONNET STUD
15	BONNET NUT
16++	GLAND PACKING
18+	SPIROL PIN
20++	TRIM GASKET
22++	TRIM GASKET
40+	PISTON RING
71+	SEAT ADAPTOR RING

RECOMMENDED SPARES

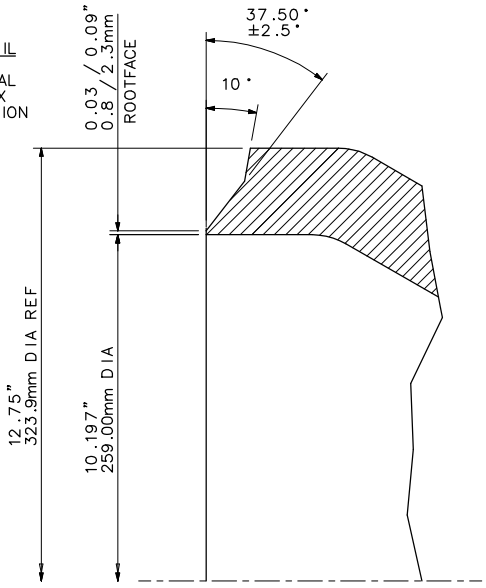
\+ OPERATIONAL SPARES
++ COMMISSIONING SPARES





BUTTWELD END DETAIL

BOTH ENDS IDENTICAL
TO SUIT 323.9mm X
32.45mm WT CONNECTION



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DO NOT SCALE
IF IN DOUBT – ASK!

GENERAL ARRANGEMENT DRAWING OF 8" ANSI 2500 GLBOE VALVE
WITH PORT THROTTLE TRIM

CUSTOMER NAME	BSTO DEVELOPMENT
PROJECT NAME	ZONGULDAK TPP, TURKEY
CUSTOMER PO No	BSTO-0-038-2007
CUSTOMER TAG No	LAB51AA001
VENDOR NAME	COPES-VULCAN, WINSFORD ENGLAND
VENDOR CONTRACT No	WH/00549
VENDOR JOB No	CW33160
ITEM DESCRIPTION	FEEDING 100%

ISS	MODIFICATION	DATE	BY
01	Per Customer Comments	12-03-08	SJH

SCALE	——	DRAWN	JRL
MATL	——	CHECKED	JRL
USED ON	CW33160	APPROVED	
DATE	23-10-07	TRACED	

COPES-VULCAN

SPX Process Equipment

DRAWING NO CD33160

ISSUE 01