

#### Actuator design data:

Valve stroke:	20	(mm)
Req. force open:	5	(kN)
Req. force close:	5	(kN)
Air supply min.:	4	(Bar)
Air supply max.:	9	(Bar)
Stroking time - modulating:	-	(Sec)
Stroking time - quick open:	<5	(Sec)
Stroking time - quick close:	<5	(Sec)

#### Solenoid valve functions

Action	S1	S2
Quick open	Valve opens	De-energized
Quick close	Valve closes	Energized
-	-	-

#### Signals / failure functions:

Input signal:	-
Valve closed at:	-
Output signal:	-
Air supply failure:	Valve opens
Input signal failure:	-
Electric failure (solenoid):	Valve opens

#### Accessories:

Accessories:	Notes:	Item no:	Qty
Cylinder	MSD II 400 DA with hand wheel	-	-
Positioner	P	-	-
Air lock valve	AL	-	-
Position transmitter	PT	-	-
Solenoid valve	S ASCO 8320 G	23	-
Solenoid valve supply voltage	110 VDC	23	-
Air bottle	AB	-	-
Limit switch open	LSO NAMCO EA 530	21	1
Limit switch close	LSC NAMCO EA 530	21	1
Air filter/Air filter regulator	F/AFR YT-200 series	20	-
Bypass valve	BP	-	-
Derivative relay	D	-	-
Pressure gauges	PG	-	-
Tubing mtrl.	SS steel	18	-
Fitting mtrl.	SS steel	19	-
Air supply conn.	3/8" NPTF	-	-
Yoke	CCI STD	-	-

Interconn. diagram No.

0

Actuator specification No.

A295154.30

Rev.

1

IND	ALTERATION	DATE	SIGN
C	Drawing translated to Bulgarian.	2007-04-16	NBL
D	Dimensions added. Actuator turned of 90 °. Top view added.	2007-05-08	NBL
E	Tag No. is corrected.	2007-07-23	NBL

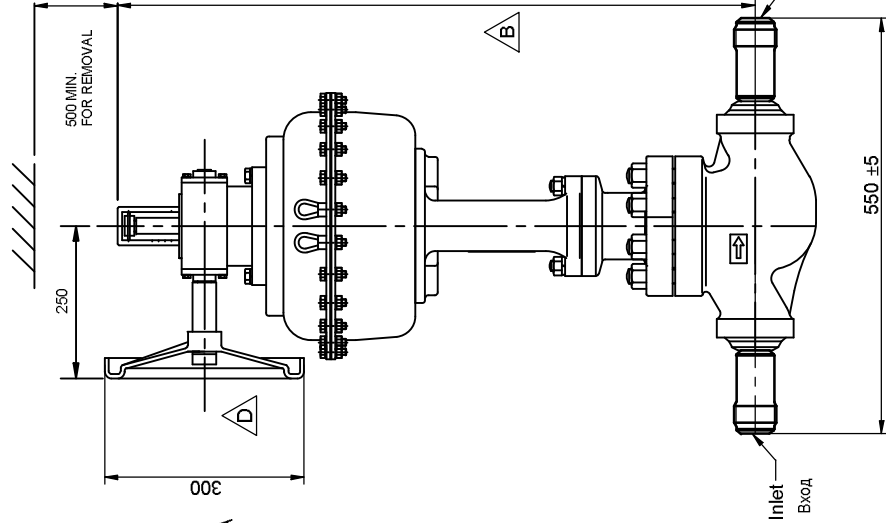
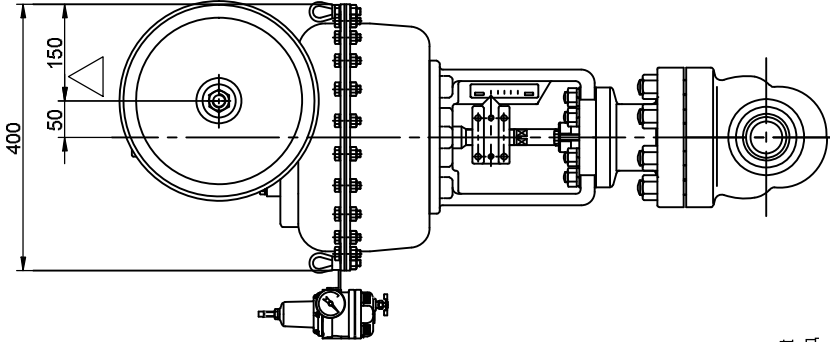
Клиент  
Проект  
Поръчка  
Означение №  
Заводски №  
Тегло

Customer  
Project  
Po. No.  
Tag No  
Vo No.  
Weight

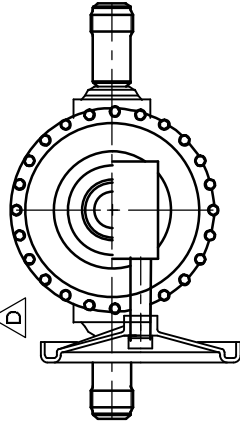
: Alstom Power  
: Maritza  
: 744297  
: 01/02LAB60AA022/E  
: 295154.30A/B  
: ~85 kg

Вход/

Inlet / Outlet



Top View Вид Сверху



Actuator:  
MSD II 400DA  
Работен орган

Rev.	Revision Date	Created by	Approved by	Description	Status
4	07-07-23	NBL	RdP	SgM	FUS
3	07-05-08	NBL	RdP	SgM	FUS
2	07-04-16	NEL	RdP	SgM	FUS
1	07-04-02	EnS	RdP	SgM	FUS
0	07-03-15	EnS	RdP	SgM	FUS

## Maritza East I Power Station



Space for stamp of Municipality of Salabovo Место за печат на Община Салабово	Space for further stamps Место за допълнителни печати
Area for stamp of EGE Control OOD (ICS) Место за печат във ВЕБ Контрол ООД (Играз-вадър)	Space for stamp of authorized Bulgarian Designer Место за печат на лицензиран български проектант
Main Contractor / Главен изпълнител <b>ALSTOM</b> Power Generation AG Power Boiler GmbH	Partner of Main Contractor / Партньор на главния изпълнител

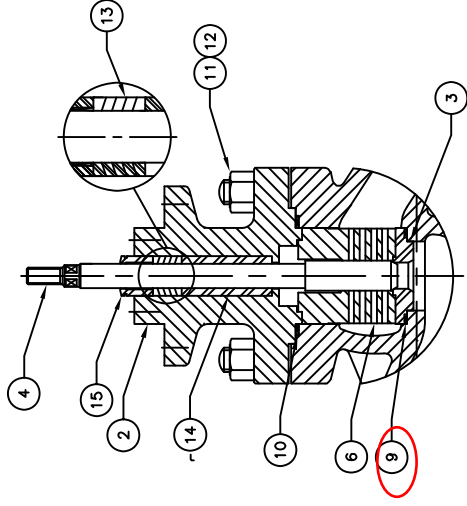
Responsible dept. CCI	Отговорен отдел	Created by NBL	Изготвил	Checked by JeC	Проверил	Approved by SgM	Одобрено	Format A2	Формат
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Logo of Legal Owner Официален собственик	Sub Contractors Doc Number S086033	Sub Contractors Doc Number S086033				Consortium Partner Document Code Код на партньор от консорциум	-		
<b>ALSTOM</b> Power Turbo Systems		Title, Subtitle 840H2-20 Dump Valve Certified drawing Tag No. 01/02LAB60AA022	Project Doc Number MTZ/12/M/-----M24EA/003		Rev. 4	Date 07-07-23	Lang E	Sheet 1/1	Number 1

Surface treatment Обработка на повърхност	Surface roughness acc. ISO 85572 Surface roughness unless after specified ✓	Surface roughness acc. ISO 85572 Surface roughness unless after specified Form and positional tolerance: ISO 2768-K
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DRAWN 2007-01-09	SIGN RdP	840H2-20 Dump valve Certified drawing
CHECKED 2007-07-23	SIGN NBL	Tag No. 01/02LAB60AA022
VO	DRAWING NO S086033	REV ITEMATERIAL
		ITEMNO S0860338
		REV A

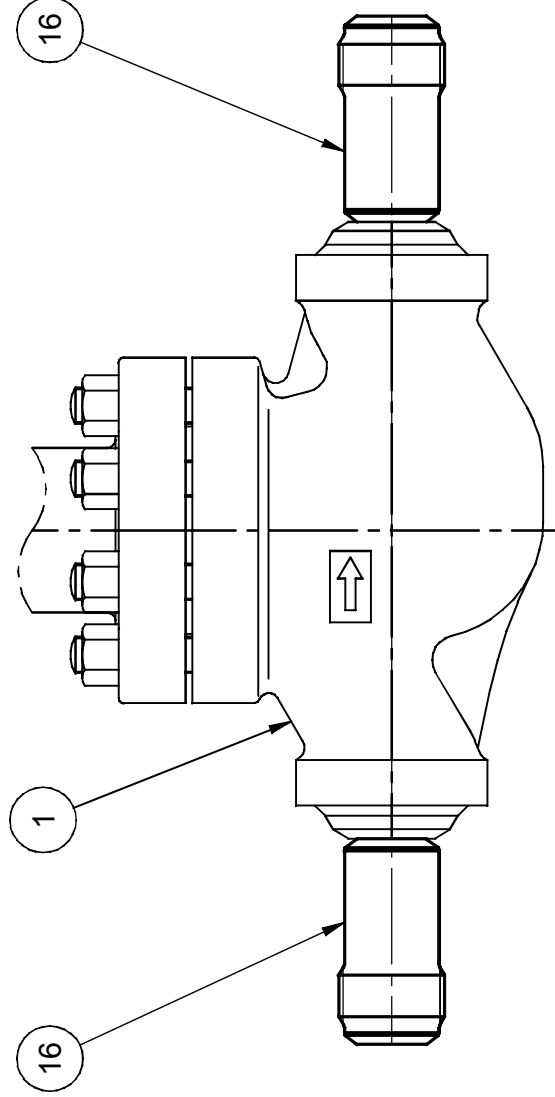
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## PARTS LIST

NO	NAME	MATERIAL	QTY	REMARKS
1	BODY	A217 WC6	1	
2	BONNET	A217 WC6	1	
3	SEAT	410 SS	1	
4	SPINDLE	410 SS	1	
5	N/R			
6	CAGE	410 SS	1	
7	N/R			
8	N/R			
9	GASKET	304+GRAPHITE	1	
10	GASKET	304+GRAPHITE	1	
11	BONNET STUD	A193-B16	8	
12	HEX. NUT	A194-7	8	
13	PACKING SET	GRAPHITE	1 SET	
14	PACKING SPACER	300 SERIES SS	1	
15	PACKING GLAND	300 SERIES SS	1	
16	CONE 1 1/2"	15NICUMON5	2	



BODY SECTIONAL VIEW



REVISIONS			
LTR	DESCRIPTIONS	DATE	APPROVED
2	Revision No, Updated	07-12-12	SgM
1	Changed Tag No.	07-12-12	SgM
0	First Issue	07-04-16	SgM

[illegible]

Maritza East | Power Station




Space for stamp of Municipality of Galatovo

Space for further stamps

Area for stamp of EOE Control (ODJCS)	Space for stamp of authorized Bulgarian Designer
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ALSTOM

<b>ALSTOM</b>   Power Turbo Systems	840142-20 Dump Valve Tag No: 0120AL6A022	S1012327 Sub Contractions Doc Number	Wk. 50416 No. 10	Project Doc Number M171212M-----M24/DO03	Revised Doc Number M171212M-----M24/DO03	Formed A2	For Company Review & Approval: Yes / No	Approved by SGM	Checked by SGM	O/C		Checked by SGM	Drawing No. (Auto. KCS)	Document Released	Subs. No.	Logos of Legal Owner	Deleted from Releases	Scale 1:1	Revisions 1. 01/04/2014 2. 01/04/2014 3. 01/04/2014	Revised 2	Date 07-04-16	Lang. Sheet E / 1