



أدنوك
ADNOC



P.O No. 17137D-IN-PO-NB610-01

Contractor Project No. 17127D

**EPC FOR M PROJECT
Custody Metering System
Plug Valve GA Drawing**

☐

1 REJECTED

Revise and resubmit.

☐

2 COMMENTS AS NOTED

Work may proceed subject to compliance with and incorporation of comment.

☒

3 NO COMMENTS

Work may proceed.

☐

4 INFORMATION ONLY

Accepted for information only.

This approval does not relieve the vendor of his responsibility to meet purchase order conditions relating to duty, specifications, materials, design, construction and delivery requirements.

APPR'D

Caley Han

DATE

06.Nov.2019

1	4/11/2019	LK	LK	SR	ISSUED FOR FINAL
D	15/08/2019	LK	LK	SR	RE-ISSUED FOR REVIEW
C	30/06/2019	LK	LK	SR	RE-ISSUED FOR REVIEW
B	28/04/2019	LK	LK	SR	RE-ISSUED FOR REVIEW
A	24/03/2019	LK	LK	SR	ISSUED FOR REVIEW
REV.	DATE	ORIGINATOR	REVIEWED	APPROVED	DESCRIPTION

THIS DOCUMENT IS INTENDED FOR USE BY ADNOC AND ITS NOMINATED CONSULTANTS, CONTRACTORS, MANUFACTURERS AND SUPPLIERS.

VENDOR



ADNOC Doc. No.: 24-84-50-8643

Project No. 1275078

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CERTIFIED DRAWING

CUSTOMER: ALDERLEY FZE

ENQUIRY N°: 012483-27136MJA

PROJECT : ADNOC – M-Project, UAE

G&C ORDER : 23341

B

C

D

E

F

Valve Tags and Orientations	
MURBAN SKID (24-84-U-1621)	
tag	orient.
24-84-MOV-1621-52	1
24-84-MOV-1621-55	2
24-84-MOV-1621-58	1
24-84-MOV-1621-61	2
24-84-MOV-1621-64	1
24-84-MOV-1621-67	2
24-84-MOV-1621-70	1
24-84-MOV-1621-73	2
24-84-MOV-1621-76	1



Orientation 1

inlet from the right (display opposite)

handwheel to the bottom

Orientation 2

inlet from the left (display same side)

handwheel to the bottom

Orientation 3

inlet from the right (display in front)

handwheel to the bottom

Orientation 4

inlet from the left (display in front)

handwheel to the top

Note: the inlet direction is defined by the position of the worker looking at the valve

F.R.	20/08/19	V.V.	20/08/19	D.P.	20/08/19	06	Updated according to Customer comments	6		
F.R.	31/07/19	A.G.	31/07/19	D.P.	31/07/19	05	Updated according to Customer comments	5		
F.R.	24/06/19	A.G.	24/06/19	D.P.	24/06/19	04	Updated according to Customer comments	4		
DIS/DRAFT	DATA/DATE	CONTR./CHK.	DATA/DATE	APPR./APPR.	DATA/DATE	REV.	DESCRIZIONE/DESCRIPTION			
 GALLI & CASSINA S.p.A. SOLARO (MI)			C A D D R A W I N G							
			DENOMINAZIONE/DENOMINATION							
			EXPANDING PLUG VALVES (non-lubricated)							
			OVERALL DIMENSIONS - BILL OF MATERIALS							
			COMPONENTE/COMPONENT							
			NPS 16" CLASS 300 RFxRF							
			N° DISEGNO/N° DRAWING							
			400EPCE03R0115K-23341 Sheet 3 of 3							
La Galli & Cassina S.p.A. si riserva a termini di legge la proprietà del presente disegno con divieto di riprodurlo o comunicarlo a terzi senza sua autorizzazione This drawing is property of GALLI & CASSINA S.p.A..Every kind of reproduction without authorization is not permitted										

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Solaro, 19th of April, 2019

Alderley FZE

PO Box 17015, Jebel Ali
Dubai UAE

TO WHOM IT MAY CONCERN

Subject: TECHNICAL CLARIFICATION – Cr PLATING

References:

Alderley PO # PO-012483 27136MJAValves
GC Job # 023341

16" 300 Non lubricated plug valves - MOV

Dear Gentlemen,

With reference to the request of Chromium plating all over the flow passage in addition to the seat area, we would like to kindly emphasize that Cr plating is normally included in the hardfacing coatings which are specified in valve design in order to prevent galling, to increase wear resistance and corrosion protection of seating area.

Valve tightening is in fact ensured by slip seals pushed against the seat by the tapered plug. For the aforesaid reason the seat is the only critical area which may affect the valves sealing so it is the one to be protected by Cr plating only.

We draw your attention to the fact the flow passage cannot be machined due to the valve shape so any further Cr plating over that area shall be carried out on as cast surface.

In view of the above further Cr plating on the flow passage won't be uniform first and the granted thickness won't be thicker than 20-30 µm against the required 75 µm.

We also draw your attention to the pipeline material which is carbon steel with no corrosion protection (i.e piping class 031440-X) same as valves flow passage.

We trust in your concurrence in confirming the acceptance of the Cr plating on the seat area only.

Best regards


Daniele PAGANI
(Technical Dept.)

Attachments: //



Solaro, May, 6th 2019

Alderley FZE
PO Box 17015, Jebel Ali
Dubai UAE

TO WHOM IT MAY CONCERN

Subject: TECHNICAL CLARIFICATION – CAST IRON GRADE

References:

Alderley PO # PO-012483 27136MJAValves
GC Job # 023341

16" 300 Non lubricated plug valves - MOV

Dear Gentlemen,

With reference to the request of approval of slips made of cast iron grade ASTM A536 60-40-18 instead of ASTM A395 60-40-18, please consider the following technical explanation.

The ASTM A395 60-40-18 is a specific grade of Ductile Iron used for Pressure-Retaining Components for Use at High Temperatures.

The proposed ASTM A536 60-40-18 is the equivalent grade of ASTM A395 60-40-18. This means that the two materials have:

- the same chemical composition;
- the same mechanical properties.

This material is proposed by G&C for the components called "slips" only.

Cast iron guarantees low friction and wearing and it is fully suitable for the project required temperatures, from 0° to 85 °C.

The proposed material is also required by some of the worldwide major oil and gas companies (e.g.: Saudi Aramco and Petrobras).

G&C confirm that the proposed material satisfies the project requirements.

We trust in your concurrence in confirming the acceptance of cast iron grade ASTM A536 60-40-18.

Best regards


Daniele PAGANI
(Technical Dept.)

Attachments: //

