



Customer Document title:

2.2 Material Certificate of Compliance

Flowserve Document title: **2.2 Material Certificate of Compliance**

Flowserve Document No.: **1400944-012-1002-01**

Document Revision No.: **0**

Flowserve Order No.: **1400944**

Flowserve Serial No.: **1400944CHP012A/D**

Pump Type/Size: **MARK 3 STANDARD / 2K4X3-10RV**

Quantity: **4**

Customer Name: **DESMET BALLESTRA NORTH AMERICA**

Customer Tag No: **DESMET TAG#: P682B.1/1, World Energy TAG#: 19-P-765A, DESMET TAG#: P682B.1/2, World Energy TAG#: 19-P-765B, DESMET TAG#: P682B.2/1, World Energy TAG#: 19-P-865A, DESMET TAG#: P682B.2/2, World Energy TAG#: 19-P-865B**

Customer PO No.: **28493**

End User: **DESMET BALLESTRA NORTH AMERICA**

Please complete and return:

Document Reviewed by:

Document Reviewed date:

- ☐ **APPROVED. NO ACTION REQUIRED**
- ☐ **APPROVED. RE-SUBMIT AS FINAL**
- ☐ **APPROVED WITH COMMENTS.** DOCUMENT WILL BE MODIFIED AND RESUBMITTED AS FINAL.
- ☐ **REJECTED.** CORRECT AND RE-SUBMIT FOR APPROVAL.
- ☐ **FOR INFORMATION.** REVIEW NOT REQUIRED
- ☐ **AS-BUILT**

- Return any documents sent for review with your comments by the stated return date. All documents not returned two weeks after requested Return date will be considered Approved, no action.
- Purchaser's comments and/or corrections within the scope of contract will be made on the first completed document submitted by Flowserve Corp. and returned.
- Corrections, alterations, additions and/or modifications outside scope of contract or made after first submittal may require an additional engineering service charge.
- Items conditionally approved or with deferred approval by purchaser must be specifically stated otherwise delivery may be affected.

Rev	Revision Description	Released	Release Date
	Final		31-May-22



Pump Division
Chesapeake Virginia

Quality Assurance Department

Internet: TMomtsios@flowserve.com phone: 757-485-8052 fax: 757-485-8191

COMPONENT: SHAFT

2.2 Certificate of Compliance European Standard EN 10204

Material: ASTM A276 Type 316/316L Stainless Steel

Flowserve certifies that the 316/316L SS parts supplied meet the requirements of ASTM A276.
Below are typical properties based on historical test data for the material:

Composition in Wt %

Cr	16.13
Ni	10.13
Mo	2.022
Si	.564
Cu	.310
Mn	.1660
S	.024
Co	.092
P	.028
N	.065
C	.015
Fe	bal

Yield strength	42,700 psi
Tensile strength	91,300 psi
Elongation	52.4 %
RA	75.5%

A handwritten signature in black ink, appearing to read "Tom Momtsios", is written over a horizontal line.

Tom Momtsios
Quality Assurance, Chesapeake Operations



Pump Division
Chesapeake Virginia
Quality Assurance Department

Internet: TMomtsios@flowserve.com phone: 757-485-8052 fax: 757-485-8191

COMPONENT: IMPELLER,CASING, COVER

2.2 Certificate of Compliance European Standard EN 10204

Material: ASTM A744 CF-8M Stainless Steel

Flowserve certifies that the cast steel parts supplied meet the requirements of ASTM A744.
Below are typical properties based on historical test data for the material:

Composition in Wt %

Cr	18.74
Ni	9.18
Mo	2.12
Si	1.37
Cu	.30
Mn	.79
S	.002
P	.024
C	.044
Fe	Bal

Yield strength	43,200 psi
Tensile strength	90,900 psi
Elongation	46 %

A handwritten signature in black ink, appearing to read "Tom Momtsios", is written over a horizontal line.

Tom Momtsios
Quality Assurance, Chesapeake Operations