



Customer Document title:

Performance Test Report

Flowserve Document title: **Performance Test Report**
Flowserve Document No.: **1400944-017-4006-01**
Document Revision No.: **0**
Flowserve Order No.: **1400944**
Flowserve Serial No.: **1400944CHP017A/B**
Pump Type/Size: **MARK 3 STANDARD /**
Quantity: **2**
Customer Name: **DESMET BALLESTRA NORTH AMERICA**

Customer Tag No: **DESMET TAG#:PW503E.2/1,World Energy TAG#:19-P-875A, DESMET TAG#:PW503E.2/2, World Energy TAG#: 19-P-875B**

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	Morris, Tamika	31-May-22



Performance Report

Curve No.

00036345

3900 Cook Boulevard, Chesapeake, VA 23323

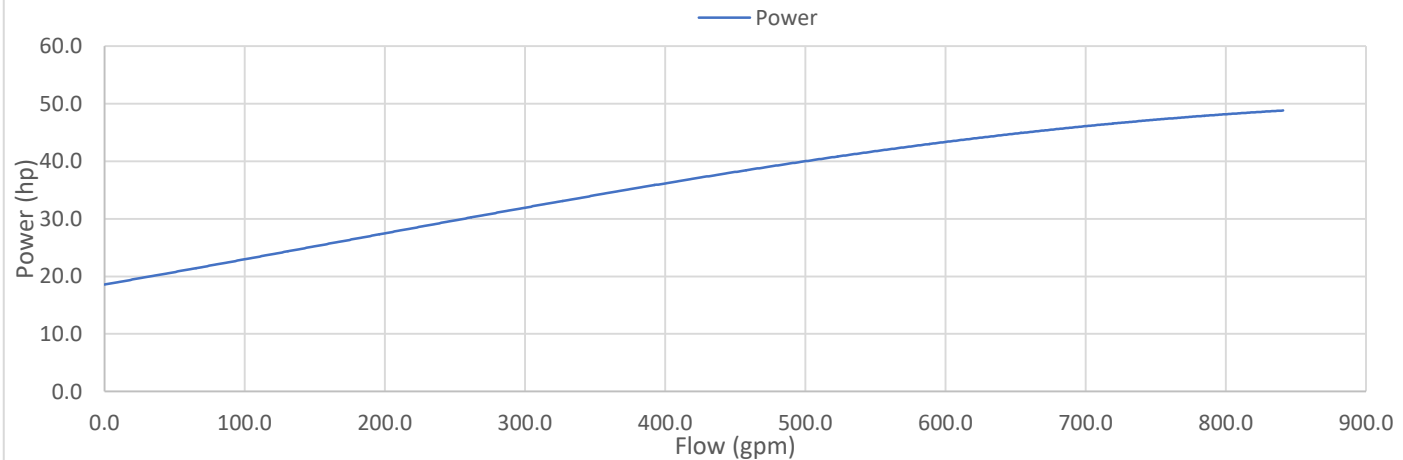
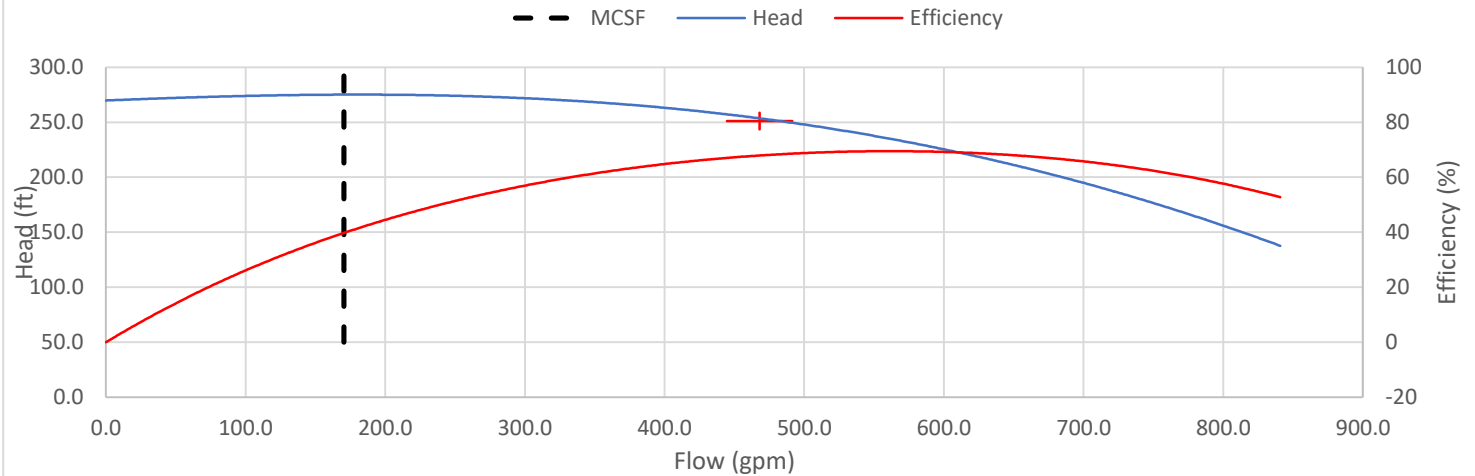
Test Date	Tested By	Certified
5/24/2022	SWEBSTER	

Customer: DESMET BALLESTRA NORTH AMERICA
 PO #: 28493
 Customer Tag: SEE NOTES BELOW
 Order #: 1400944
 Line Item #: 17
 Job #: 3135912
 Serial #: 1400944CHP017A
 Pump Line: MK3
 Pump Size: 2K4X3-10RV

Speed Ratio:
 Impeller Type: RV
 Imp. Dia. (in): 8.25
 Impeller Mat.: D4
 Casing Mat.: D4
 Test Media: Water
 Test Driver #: M173
 Test Driver (hp): 75
 Test Driver Speed (RPM): 3570
 Vibration: Unfiltered RMS

Rated Values
 Flow (gpm): 468.1
 Head (ft): 251
 Eff. (%): 67.7
 Power (hp): 38.9
 RPM: 3550
 NPSHR (ft): 11
 Specific Gravity: 0.888
 Viscosity: 13.350
 Customer Driver: 60 HP
 Criteria: 1B

	Flow (gpm)	Head (ft)	Power (hp)	Eff. (%)	IN Horiz.	IN Vert.	IN Axial	OUT Horiz.	OUT Vert.	OUT Axial
Point 1	0.0	269.6	18.5	0.0						
Point 2	170.3	276.1	26.6	39.3	0.04	0.06	0.06	0.05	0.06	
Point 3	271.3	272.5	30.1	54.6	0.04	0.06	0.07	0.05	0.06	
Point 4	369.8	265.0	34.8	62.5	0.04	0.06	0.06	0.05	0.08	
Point 5	470.3	254.9	39.2	68.0	0.04	0.06	0.07	0.06	0.08	
Point 6	592.7	227.3	43.3	69.2	0.07	0.06	0.08	0.08	0.08	
Point 7	717.0	188.3	46.2	64.9	0.08	0.07	0.08	0.08	0.08	
Point 8	840.9	137.8	48.9	52.7	0.08	0.08	0.09	0.08	0.08	



Notes:	DESMET TAG#: PW503E.2/1, CUSTOMER TAG#: 19-P-875A
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Performance Report

Curve No.

00036352

3900 Cook Boulevard, Chesapeake, VA 23323

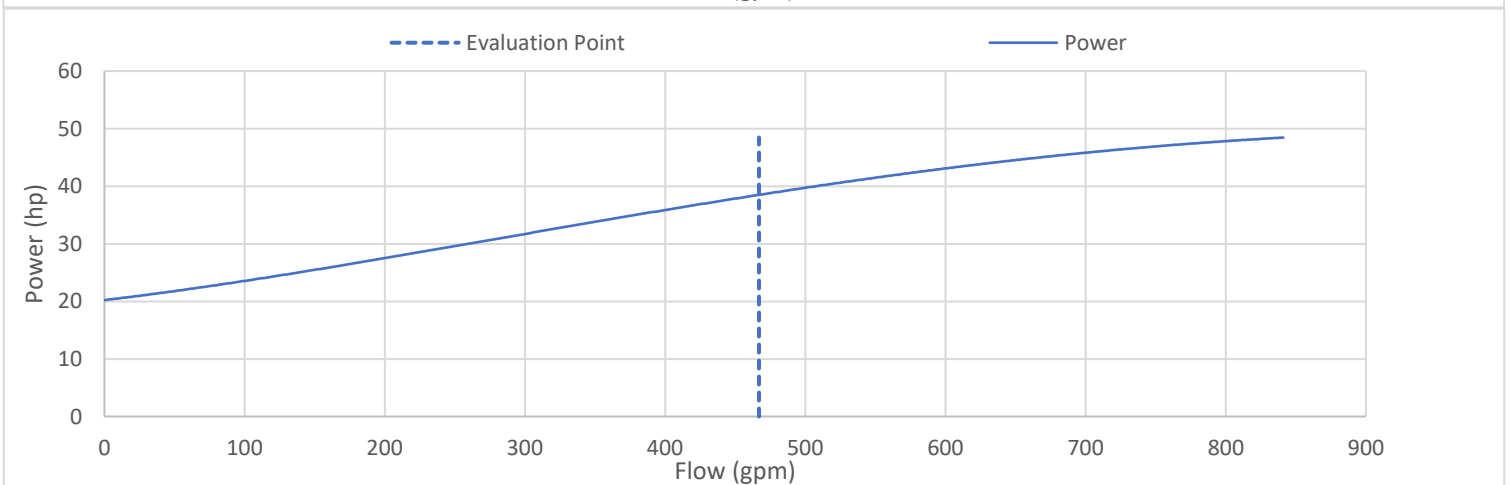
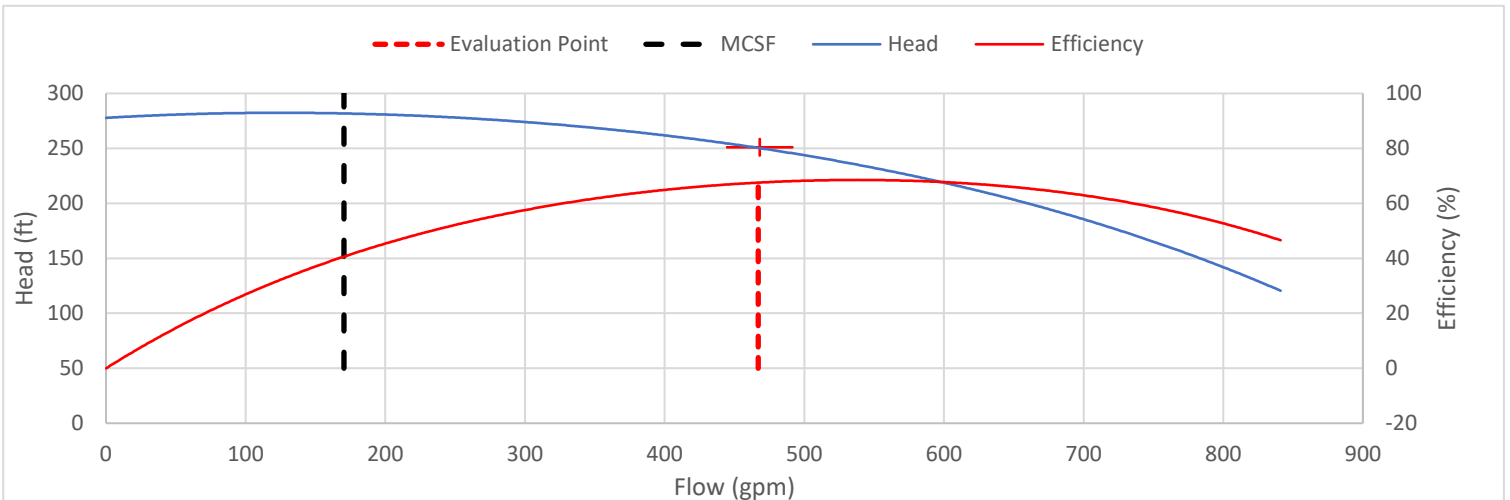
Test Date	Tested By	Certified
5/24/2022	GBAILEY	

Customer: DESMET BALLESTRA NORTH AMERICA
 PO #: 28493
 Customer Tag: SEE NOTES BELOW
 Order #: 1400944
 Line Item #: 17
 Job #: 3135912
 Serial #: 1400944CHP017B
 Pump Line: MK3
 Pump Size: 2K4X3-10RV

Speed Ratio:
 Impeller Type: RV
 Imp. Dia. (in): 8.25
 Impeller Mat.: D4
 Casing Mat.: D4
 Test Media: Water
 Test Driver #: M173
 Test Driver (hp): 75
 Test Driver Speed (RPM): 3570
 Vibration: Unfiltered RMS

Rated Values
 Flow (gpm): 468.1
 Head (ft): 251
 Eff. (%): 67.7
 Power (hp): 38.9
 RPM: 3550
 NPSHR (ft): 11
 Specific Gravity: 0.888
 Viscosity: 13.350
 Customer Driver: 60 HP
 Criteria: 1B

	Flow (gpm)	Head (ft)	Power (hp)	Eff. (%)	IN Horiz.	IN Vert.	IN Axial	OUT Horiz.	OUT Vert.	OUT Axial
Point 1	0.0	277.7	20.2	0.0						
Point 2	170.4	282.1	26.4	40.5	0.05	0.06	0.06	0.05	0.05	
Point 3	271.7	275.7	30.5	54.6	0.04	0.06	0.06	0.05	0.06	
Point 4	369.4	266.2	34.5	63.3	0.05	0.05	0.06	0.06	0.07	
Point 5	469.0	251.2	38.6	67.9	0.04	0.06	0.07	0.06	0.07	
Point 6	594.4	218.9	43.1	67.1	0.08	0.07	0.08	0.08	0.08	
Point 7	717.5	179.5	46.1	62.1	0.08	0.07	0.08	0.08	0.07	
Point 8	841.1	120.4	48.5	46.4	0.09	0.08	0.08	0.08	0.08	



Notes:	DESMET TAG#: PW503E.2/2, CUSTOMER TAG#: 19-P-875B
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