

250 FR - secondary pumps

PUMP COMMISSIONING REPORT

Date: 03/12/2011

Customer name & address: <i>Indian Immunologicals Ltd, Guchi-bowali</i>	Customer purchase order number:
	Our invoice number:

Name plate data	Pump 1	Pump 2	Pump 3	Pump 4	Pump 5	Pump 6
Type of pump	HEP	HEP				
Pump model	4030-100-200	4030-100-200				
Pump serial number	8221127016	8221127015				
Flow <i>m³/h</i>	150	150				
Head <i>m</i>	40	40				
Motor model	—	—				
Motor serial	—	—				
Motor hp/kW	40/30	40/30				
Motor RPM	2935	2935				
Motor FLA	51.5	51.5				
Volt/ph/Hz	415/3/50	415/3/50				
Seal type	—	—				

Actual Readings	Pump 1	Pump 2	Pump 3	Pump 4	Pump 5	Pump 6
Parameters						
Voltage	414	414				
Motor current	23.51	24.1				
Motor kW	17.22	17.7				
Suction pressure	0 kg/cm ²	0 kg/cm ²				
Discharge pressure	2.2 kg/cm ²	2.4 kg/cm ²				
Sight glass level	—	—				
Pump RPM	2611	2672				
Pump construction	BF-STD	BF-STD				
Head	22 m	24 m				
Flow in USgpm or ltrs/min						
Shut off head	—	—				
Ambient temperature						

Whether the installation has been done as per installation & operation manual no.

Comments by Armstrong / Armstrong representative
 → Rubber bellows must be installed at suction and discharge sides of pipeline, otherwise warranty will not be applicable.
 → Once pre-checking the tightening the base frame bolts.

Comments by customer/contractor/consultant
 We will arrange as per your suggestions.

Signature of Armstrong engineer/representative <i>(Signature) 03/12/2011</i>	Signature of customer or contractor with seal <i>(Signature) 03.12.11</i>	Third party signature	Consultant signature
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 DATE: June 30, 2010
 SUPERSEDES: 9.223IN
 DATE: April 10, 2010

200TR - Primary pumps

PUMP COMMISSIONING REPORT

Date: 3/12/2021

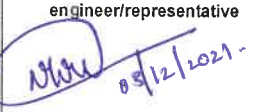

Customer name & address: Indian Immunologicals Pvt Ltd, Guchibowli	Customer purchase order number:
	Our invoice number:

Name plate data	Pump 1	Pump 2	Pump 3	Pump 4	Pump 5	Pump 6
Type of pump	HEP	HEP				
Pump model	4030-65-200	4030-65-200				
Pump serial number	8221127017	8221127018				
Flow m ³ /h	76	76				
Head m	36	36				
Motor model	-	-				
Motor serial	-	-				
Motor hp/kW	20/15	20/15				
Motor RPM	2928	2928				
Motor FLA	26.5	26.5				
Volt/ph/Hz	415/3/50	415/3/50				
Seal type	-	-				

Actual Readings	Pump 1	Pump 2	Pump 3	Pump 4	Pump 5	Pump 6
Parameters						
Voltage	414	414				
Motor current	18.52	18.83				
Motor kW	6.38	6.59				
Suction pressure	0 kg/cm ²	0 kg/cm ²				
Discharge pressure	2 kg/cm ²	2.1 kg/cm ²				
Sight glass level						
Pump RPM	1980	1992				
Pump construction	BF-STD	BF-STD				
Head	20m	21m				
Flow in USgpm or ltrs/min						
Shut off head	=	=				
Ambient temperature						

Whether the installation has been done as per installation & operation manual NO

Comments by Armstrong / Armstrong representative *Rubber bellows must be installed at suction and discharge sides of pipeline, otherwise warranty will not be applicable. → Once pre-check the tightening of base frame bolts.	Comments by customer/contractor/consultant
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Signature of Armstrong engineer/representative  03/12/2021	Signature of customer or contractor with seal  03.12.21	Third party signature	Consultant signature
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