



Inspection Documents for Type 2.1 Coverage:

Python Chemical Injection Pumps

Date: September 8th, 2017

Size: 75 (3/4" Plunger)

Description: PCI-xxx-75x-xx-x

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Test Certification
Graco XRF Material Verification(s)

Graco Inc. certifies that the above product be manufactured by Graco Inc. and tested to meet all applicable Graco engineering/manufacturing/quality standards and specifications.

Graco manufacturing and product development facilities are certified to ISO 9001:2008.

A handwritten signature in black ink that reads 'Sarah J. Bergstrom'.

Sarah J. Bergstrom
Quality Engineer
Graco Inc.



Test Certificate

Product Family: Python Chemical Injection Pumps

Size: 75 (3/4" Plunger)

Description Reference: PCI-xxx-75x-xx-x

Manufacturing Test Frequency: 100%

Test results:

Low pressure startup check: Pass Fail

Stall pressure validation: Pass Fail

Pump operation at maximum pressure: Pass Fail

External fluid leak check: Pass Fail

Graco Inc. certifies that the above product be manufactured by Graco Inc. and tested to meet all applicable Graco engineering/manufacturing/quality standards and specifications. All information provided herein is intended for Graco use and not intended to be duplicated or replicated.

Graco manufacturing and product development facilities are certified to ISO 9001:2008.

A handwritten signature in black ink that reads 'Sarah J. Bergstrom'.

Sarah J. Bergstrom

Quality Engineer

Graco Inc.



Certificate of Material

Date: September 8, 2017

Product Family: Python Chemical Injection Pumps

Size: 75 (3/4" Plunger)

Description Reference: PCI-xxx-75x-xx-x

Part Number	Wetted Part Description	Material Description
17G514	Cylinder,Fluid,750	316 SST
17H604	Plunger,Fluid,Chromex,750	17-4 SST (Chromex Coated)
17K807	Plunger,Coated,Ceramic,75,Python	17-4 SST (Ceramic Coated)
17G113	Bearing,Plunger,Cip 75,Peek	Peek
17L139	Nut,Packing,Plunger,Large	316 SST
17F573	Housing,Needle,Bleed	316 SST
17F572	Needle,Bleed	316 SST
17G005	Housing,Check,Inlet,CI Pump	316 SST
17G006	Housing,Check,Outlet,CI Pump	316 SST
17G130	Piston,Check, CIP	316 SST
17G131	Retainer,Check	316 SST
17G132	Spring,Compression,CIP Outlet	302 SST

Graco Inc. certifies the above product was manufactured and tested to meet all applicable Graco Engineering/Manufacturing/Quality Standards and Specifications.

Graco manufacturing and product development facilities are certified to ISO 9001:2008.

A handwritten signature in black ink that reads 'Bradley A. Byron'.

Bradley A. Byron
Quality Manager
Graco Inc.

Graco Inc. 88-11th Avenue NE Minneapolis MN 55413
Telephone: 612.623.6000 Fax: 612.623.6273



Graco, Inc.
88 11th Avenue NE
Minneapolis, MN 55413 USA

Certificate of Verification

XL3-89733

Reading No 888
Mode General Metals
Time 2017-09-08 11:58
Duration 24.04
Units %
Sigma Value 2
Sequence Final
Alloy1 SS-316 : 0.00
Alloy2 No Match : *3.18
Flags
SAMPLE 17F573
HEAT
LOT
BATCH
MISC
NOTE



	%	±	Error
Sb	0	:	N/A
Sn	0.019	±	0.004
Cd	0	:	N/A
Pd	0	:	N/A
Ag	0	:	N/A
Ru	0	:	N/A
Mo	2.080	±	0.010
Nb	0.005	±	0.001
Zr	0	:	N/A
Bi	0	:	N/A
Pb	0	:	N/A
Se	0	:	N/A
Au	0	:	N/A
W	0.027	±	0.012
Zn	0	:	N/A
Cu	0.384	±	0.021
Ni	10.235	±	0.070
Co	0.200	±	0.052
Fe	68.040	±	0.095
Mn	1.788	±	0.044
Cr	17.117	±	0.052
V	0.069	±	0.014
Ti	0	:	N/A
Al	0	:	N/A

Supervised By: _____

Sarah Bugstrom



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Certificate of Verification

XL3-89733

Reading No 891
 Mode General Metals
 Time 2017-09-08 12:03
 Duration 24.26
 Units %
 Sigma Value 2
 Sequence Final
 Alloy1 SS-316 : 0.00
 Alloy2 No Match : *5.27
 Flags
 SAMPLE 17G005
 HEAT
 LOT
 BATCH
 MISC
 NOTE



	%	±	Error
Sb	0	:	N/A
Sn	0	:	N/A
Cd	0	:	N/A
Pd	0	:	N/A
Ag	0	:	N/A
Ru	0	:	N/A
Mo	2.091	±	0.010
Nb	0.025	±	0.001
Zr	0	:	N/A
Bi	0	:	N/A
Pb	0	:	N/A
Se	0	:	N/A
Au	0	:	N/A
W	0	:	N/A
Zn	0	:	N/A
Cu	0.857	±	0.027
Ni	11.192	±	0.076
Co	0.291	±	0.054
Fe	66.584	±	0.100
Mn	1.760	±	0.046
Cr	16.961	±	0.055
V	0.151	±	0.017
Ti	0.043	±	0.019
Al	0	:	N/A

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Reading No 893
 Mode General Metals
 Time 2017-09-08 12:05
 Duration 24.24
 Units %
 Sigma Value 2
 Sequence Final
 Alloy1 SS-316 : 0.00
 Alloy2 No Match : *5.29
 Flags
 SAMPLE 17G006
 HEAT
 LOT
 BATCH
 MISC
 NOTE



	%	±	Error
Sb	0	:	N/A
Sn	0.011	±	0.004
Cd	0	:	N/A
Pd	0	:	N/A
Ag	0	:	N/A
Ru	0	:	N/A
Mo	2.085	±	0.010
Nb	0.026	±	0.001
Zr	0	:	N/A
Bi	0	:	N/A
Pb	0	:	N/A
Se	0	:	N/A
Au	0	:	N/A
W	0.033	±	0.013
Zn	0	:	N/A
Cu	0.856	±	0.026
Ni	11.199	±	0.074
Co	0.267	±	0.053
Fe	66.607	±	0.097
Mn	1.751	±	0.044
Cr	16.956	±	0.053
V	0.175	±	0.017
Ti	0	:	N/A
Al	0	:	N/A

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Certificate of Verification

XL3-89733

Reading No 896
Mode General Metals
Time 2017-09-08 12:09
Duration 30.71
Units %
Sigma Value 2
Sequence Final
Alloy1 SS-316 : 0.00
Alloy2 No Match : *5.18
Flags
SAMPLE 17G130
HEAT
LOT
BATCH
MISC
NOTE



	%	±	Error
Sb	0	:	N/A
Sn	0.010	±	0.003
Cd	0	:	N/A
Pd	0	:	N/A
Ag	0	:	N/A
Ru	0	:	N/A
Mo	2.024	±	0.009
Nb	0.058	±	0.002
Zr	0	:	N/A
Bi	0	:	N/A
Pb	0	:	N/A
Se	0	:	N/A
Au	0	:	N/A
W	0.065	±	0.012
Zn	0	:	N/A
Cu	0.288	±	0.019
Ni	10.746	±	0.066
Co	0.262	±	0.048
Fe	68.490	±	0.088
Mn	1.333	±	0.039
Cr	16.556	±	0.048
V	0.119	±	0.014
Ti	0.033	±	0.016
Al	0	:	N/A

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Reading No 900
Mode General Metals
Time 2017-09-08 12:13
Duration 25.84
Units %
Sigma Value 2
Sequence Final
Alloy1 SS-316 : 0.00
Alloy2 No Match : *4.96
Flags
SAMPLE 17G131
HEAT
LOT
BATCH
MISC
NOTE



	%	±	Error
Sb	0	:	N/A
Sn	0.014	±	0.004
Cd	0	:	N/A
Pd	0	:	N/A
Ag	0	:	N/A
Ru	0	:	N/A
Mo	1.983	±	0.010
Nb	0.058	±	0.002
Zr	0	:	N/A
Bi	0	:	N/A
Pb	0	:	N/A
Se	0	:	N/A
Au	0	:	N/A
W	0.065	±	0.014
Zn	0.011	±	0.005
Cu	0.295	±	0.021
Ni	10.788	±	0.074
Co	0.305	±	0.054
Fe	68.454	±	0.098
Mn	1.302	±	0.043
Cr	16.546	±	0.053
V	0.132	±	0.016
Ti	0	:	N/A
Al	0	:	N/A

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XL3-89733

Reading No 910
 Mode General Metals
 Time 2017-09-08 12:31
 Duration 22.05
 Units %
 Sigma Value 2
 Sequence Final
 Alloy1 SS-316 : 0.00
 Alloy2 No Match : *3.25
 Flags
 SAMPLE 17G514
 HEAT
 LOT
 BATCH
 MISC
 NOTE



	%	±	Error
Sb	0	:	N/A
Sn	0.015	±	0.004
Cd	0	:	N/A
Pd	0	:	N/A
Ag	0	:	N/A
Ru	0	:	N/A
Mo	2.022	±	0.010
Nb	0.010	±	0.001
Zr	0	:	N/A
Bi	0	:	N/A
Pb	0	:	N/A
Se	0	:	N/A
Au	0	:	N/A
W	0.064	±	0.014
Zn	0	:	N/A
Cu	0.446	±	0.024
Ni	10.540	±	0.077
Co	0.210	±	0.056
Fe	68.139	±	0.104
Mn	1.285	±	0.045
Cr	17.128	±	0.057
V	0.097	±	0.016
Ti	0.041	±	0.019
Al	0	:	N/A

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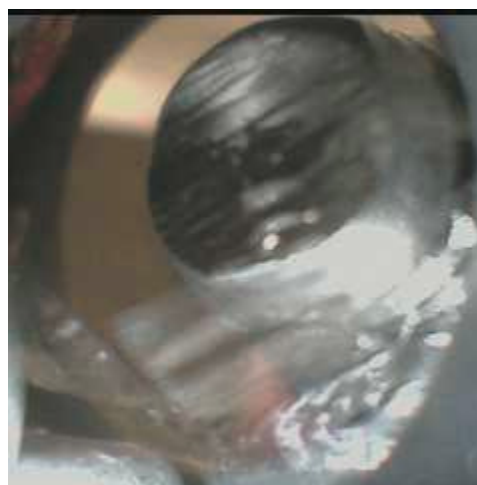


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Certificate of Verification

XL3-89733

Reading No 882
Mode General Metals
Time 2017-09-08 11:49
Duration 7.87
Units %
Sigma Value 2
Sequence Final
Alloy1 17-4 PH : *2.57
Alloy2
Flags
SAMPLE 17K807
HEAT
LOT
BATCH
MISC
NOTE



	%	±	Error
Sb	0	:	N/A
Sn	0	:	N/A
Cd	0	:	N/A
Pd	0	:	N/A
Ag	0	:	N/A
Ru	0	:	N/A
Mo	0.092	±	0.004
Nb	0.244	±	0.007
Zr	0	:	N/A
Bi	0	:	N/A
Pb	0	:	N/A
Se	0	:	N/A
Au	0	:	N/A
W	0	:	N/A
Zn	0	:	N/A
Cu	3.254	±	0.083
Ni	4.600	±	0.114
Co	0	:	N/A
Fe	75.619	±	0.223
Mn	0.820	±	0.084
Cr	*15.133	±	0.107
V	0.111	±	0.030
Ti	0.075	±	0.036
Al	0	:	N/A

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