



Plant Location: 982 Griffin Pond Road, Clarks Summit, PA 18411  
 Sold To: 8442 Ship To:  
 SWAGELOK MANUFACTURING COMPANY GRANDE PRAIRIE VALVE & FITTING  
 INDEPENDENCE OH GRAND PRAIRIE AB  
 Customer Order No: Y51660 Certification Date: 20170616  
 Sandvik Order No: 329372/1

Work Order/Lot: 0002000487

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SWAGELOK SMS-00333 Rev. D, ASTM A632-04

Cold Finished BRIGHT ANNEALED Seamless Tube  
Type TP316/TP316L (UNS S31600/S31603)

SS-T2-S-028

Size: .125" X .028"

Heat: 546927

ANALYSIS %

	C	Si	Mn	P	S	Cr	Ni
Heat	.018	.37	1.60	.031	.009	17.27	13.03
Prod	.017	.38	1.59	.032	.008	17.32	13.06
	Fe	Mo	Cu	Al	Pb		
Heat	2.64	.30					
Prod	2.65	.29					

Mechanical Tests:

Yield Strength				Tensile		Elongation				Reduction
0.2%		1.0%		Strength		in %				Of Area
psi	MPa	psi	MPa	psi	MPa	E2"	E10"	E4d	E5d	%
55240	381.0	N/A		82790	571.0	42	N/A	N/A	N/A	N/A
56980	393.0			82940	572.0	43				
54080	373.0			81920	565.0	45				

Hardness Test Results: 80HRBW, 79HRBW, 81HRBW, 81HRBW, 81HRBW, 81HRBW

Flare Test per ASTM A450/A1016 and ASME SA450/SA1016,  
 No. samples: 6 Result: Acceptable  
 Flattening Test per ASTM A450/A1016 and ASME SA450/SA1016:  
 0

Tensile Test sample width (1=Full-Size 2=1/2" Strip): 1  
Country Of Origin: Germany

100% Positive Material Identification performed  
All material subjected to a final solution annealing heat treatment with material at a temperature of 1900 deg. F minimum followed by rapid quenching to below 800 deg. F in less than three (3) minutes.

The material has not come in contact with Mercury or Mercury containing compounds.

No welding has been performed on this material.  
Material has been eddy current tested in accordance with ASTM A450, ASTM A1016 and is acceptable.

Material is capable of passing the ASTM A262 Practice "E".  
Inspection certificate produced in accordance with EN 10204 3.1 (formerly EN 10204 3.1.B).

No unauthorized alterations. The contents of this Inspection Certificate may not be modified or revised in any way without the prior written approval of Sandvik Materials Technology. Unauthorized alterations to the Inspection Certificate, including introduction of false, fictitious or

# MATERIAL CERTIFICATE

Cert#: 170017124

Page 2

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fraudulent statements or entries, may be punishable by fines, imprisonment, or both. This Inspection Certificate may be copied only in the manner and for the purposes specified in EN 10204:2004, Section 6. Contravention of this notice will be prosecuted to the fullest extent of the applicable law(s).

Material has been manufactured/supplied in accordance with Sandvik Materials Technology Quality Manual-Standard Products Revision 17 dated Jul. 8, 2016. Quality system has been approved to ISO 9001:2008 (Cert# 10004407, 14SEP18) No unauthorized alterations. The content of this inspection certificate may not be modified or revised in any way without the prior written approval of Sandvik Materials Technology. Unauthorized alterations to the inspection certificate, including introduction of false, fictitious or fraudulent statements or entries, may be punishable by fines, imprisonment, or both.

Contravention of this notice will be prosecuted to the fullest extent of the applicable laws/

This is to certify that the contents of this certificate are correct and accurate as contained in Sandvik's records, and that all above test results and operations performed are in compliance with the requirements of the purchase order and the specification(s) listed above.

Electronically Generated Certificate-Valid without signature  
John Scherer, Quality Mgr-Tube  
10 (SWINST=1/8-316 R2) (10) CF (HX6264)



Packing Note

No: 128474

Page: 1(2)
Date of packnote: 2017-06-16

Your reference no: Y51660
Our reference no: 329372

Issuer: 8P

Consignee address
GRANDE PRAIRIE VALVE & FITTING
#100, 11025 89 AVENUE
GRAND PRAIRIE, AB, T8V 5B9
GRAND PRAIRIE
Canada

Cust No (Consignee): 8442

Ordering customer
SWAGelok MANUFACTURING COMPANY
ACCOUNTS PAYABLE
PO BOX 31300
INDEPENDENCE, OH, 44131
United States
INDEPENDENCE

Cust No (Buyer): 8442

Mode of transport
ROAD

Terms of delivery
TPB GRAND PRAIRIE
Required date
2017-07-21

Table with 5 columns: Line, Product & description, Ordered qty & unit, Delivered qty & unit, P/C

Distributor Assigned Order Number 408347
Order Number VX0419
20 FT Lengths
SPEC-00022 (MS-T-0003)
Carrier Info: Best Way (Shippers Option)
ALL WOOD BOX SHIPMENTS MUST MEET STANDARDS
ACCORDING TO ISPM 15 (REFERENCE 1.B.10)
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Swagelok orders can ship up to 40 days early
ATTN TRAFFIC:
Any early shipments may onl

CF SMLSS STNLESS TUBE/PIPE

Table row for line 1: D316/0125028SW, TP316 .125 x .028 AW, SS-T2-S-028-20-S, 5000.000 ft, 4820.000 ft, P

Table row for details: Heat 546927, Lot 0002000487/342, Quantity 4820.000 ft, Net weight 139.78 lb, Package no 1056022, #Pcs 241

1/8"X.028 SS TUBING
PRODUCT ID : D2RAY0053
/ SMS-00333 SPEC D Tubing, Seamless, Annealed, S
/ SQS-00012 SPEC Y GENERAL REQ.FOR MFG PRODUCTS
/ SQS-00020 SPEC K SUPPLIER QS REQUIREMENTS
Regret/ SQS-00171 SPEC D Standard PO
Terms and Conditions
/ 10-018-1;8635 INSP..SHIP TO STOCK APPROVED
/ SQC-02642 SPEC C Seamless Tubing (All Material)
/ TRACE LEVEL 2 TRC..PER SQ S-00012
Location Number D2RAY0053



**Packing Note**

**No: 128474**

Page: 2(2)  
Date of packnote: 2017-06-16

Your reference no: Y51660

Issuer: 8P

Line	Product & description	Ordered qty & unit	Delivered qty & unit	P/C
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Order Number VX0419

Package no	Dimensions (LxWxH)	Gross weight	Package type
1056022	21x1x1 ft	178.000 lb	Box
<b>Total:</b>	<b>1</b>	<b>178.000 lb</b>	

**Total gross weight: 178.000 lb**

NOTE: Any item, proved to be defective, may be returned, upon proper authorization, and shall be replaced, if required, but Sandvik, Inc., shall not be liable for labor, or other expenditures on items supplied. We hereby certify that in respect to all labor performed in the United States in the production of these goods, there was full compliance with all applicable requirements of Section 6, 7 and 12 of the Fair Labor Standards Act, as amended, and of regulations and orders of the United States Department of Labor under Section 14 thereof.