

FLOWLINX® FILLING NEEDLES: PRECISION IN LIQUID DISPENSING

FLOWLINX® FILLING NEEDLES

When a single drop of fluid can make the difference in someone's health, you need smart fluid handling solutions that get the job done safely. Manufacturers worldwide rely on connector products that improve yield, cut costs and reduce time to market.

FlowLinX® filling needles are engineered with precision and purity ensuring operational safety and accurate dosing. Compatible with different brand filling machines, FlowLinX® filling needles are made from high grade materials and are validated to meet stringent regulatory requirements. Choose from standard designs or customize to your dosing equipment. Implement confidently and boost productivity without compromising on quality.

NEEDLE BRANDS:

- Bosch
 - Groninger
 - IMA
 - OPTIMA Inova
 - Cytiva
-



FLOWLINX

FILLING NEEDLES

Ensuring packaging integrity is crucial when it comes to filling needles, as it directly impacts product safety and quality. The standard FlowLinX® filling needles come with a durable High-Density Polyethylene (HDPE) sleeve, providing robust protection during handling and transit.

As an alternative packaging solution, FlowLinX® offers filling needles with a Thermoplastic Polyurethane (TPU) needle tip protector and a TPU pouch. This secondary option provides comprehensive needle coverage, adding an extra layer of security against potential damage and contamination. Both packaging configurations are designed to maintain the integrity of the filling needles throughout the supply chain, ensuring they reach the end-user in optimal condition. TPU needle tip protector and pouch are available upon request.



REGULATORY OVERVIEW:

Material of Construction

316L Stainless Steel and Polycarbonate

Biocompatibility

USP <85>, Bacterial Endotoxin

USP <88>, Biological Reactivity Tests, Class VI, In Vivo

USP <87>, Biological Reactivity Tests, Class VI, In Vitro

Physiochemical

USP <661>, Plastic Packaging Systems

Particulate

USP <788>, Particulate Matter in Injections

Legislation

REACH

RoHS

Conflict Mineral

Shelf Life

5 Years, Non-Sterile/Non-Irradiated

Other

Animal Product Free

Nitrosamine Free

Latex Free

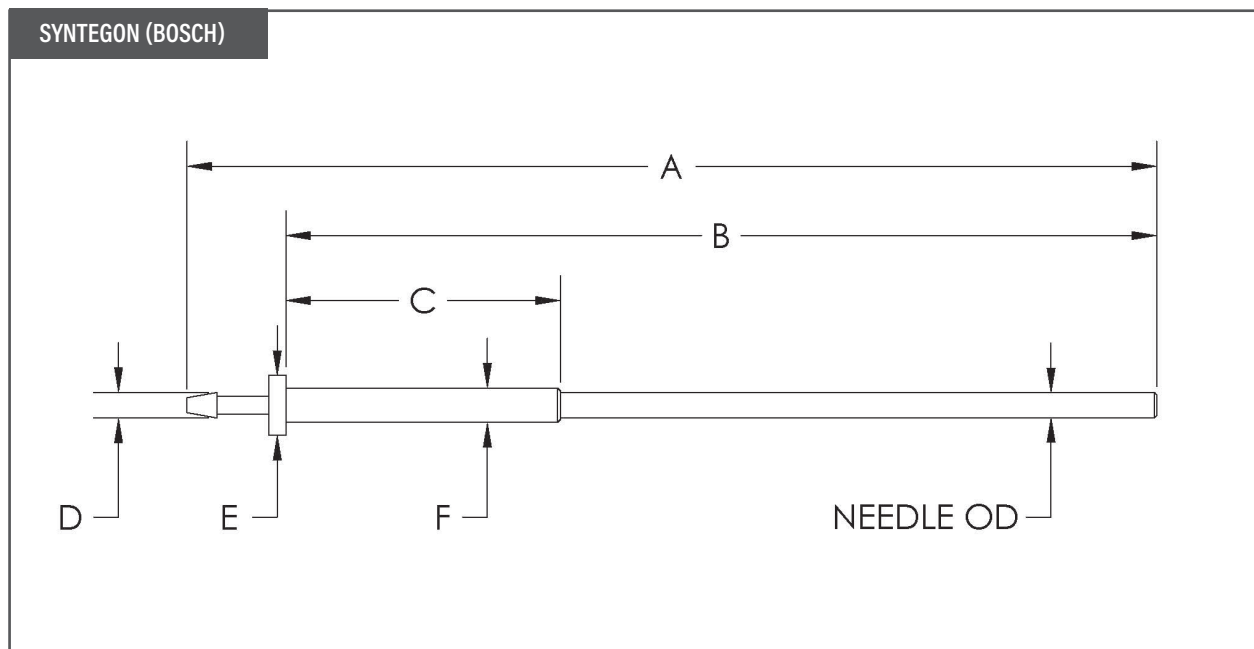
Phthalate Free

BPA and Melamine Free

SPECIFICATIONS:

- Manufactured in an ISO 8 Cleanroom
- ISO 9001:2015 Certified Facility
- Available Non-sterile or Sterile
- Packaged 10 per Box
- Sterilizable by Gamma Irradiation and Autoclave

FILLING NEEDLES



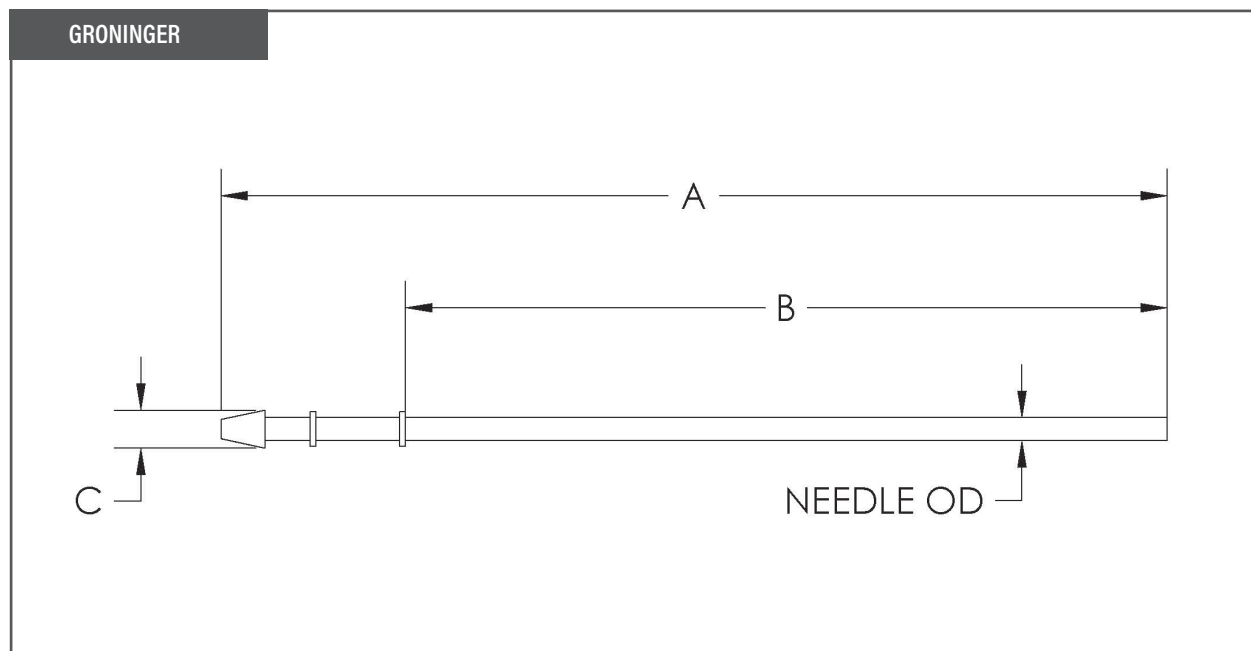
SYNTEGON (BOSCH) NEEDLE DIMENSIONS

PART NUMBER	NEEDLE ID MM [IN.]	NEEDLE OD MM [IN.]	A	B	C	D		E	F
						MM [IN.]			
F-FN-BSM-1.6-094	1.6 [0.063 ± 0.002]"	2.1 [0.083 ± 0.001]"	181.6 [7.150]"	161.3 [6.34]"	50.8 [2.00]"	H.B. FOR 3/32 I.D.	9.52 [0.3750]"	6.35 [0.25]"	
F-FN-BSM-2.1-125	2.1 [0.085 ± 0.002]"	2.8 [0.109 ± 0.001]"				H.B. FOR 1/8 I.D.	9.52 [0.3750]"		
F-FN-BSM-3.0-125	3.0 [0.118 ± 0.003]"	3.8 [0.148 ± 0.001]"				H.B. FOR 1/8 I.D.	9.52 [0.3750]"		
F-FN-BSM-3.2-188	3.2 [0.128 ± 0.002]"	3.8 [0.148 ± 0.001]"				H.B. FOR 3/16 I.D.	9.52 [0.3750]"		
F-FN-BSM-4.0-188	4.0 [0.160 ± 0.002]"	4.6 [0.180 ± 0.001]"				H.B. FOR 3/16 I.D.	11.00 [0.4370]"		

TOLERANCES UNLESS OTHERWISE STATED:

- X.X ± 0.020"
- X.XX ± 0.010"
- X.XXX ± 0.005"

FILLING NEEDLES



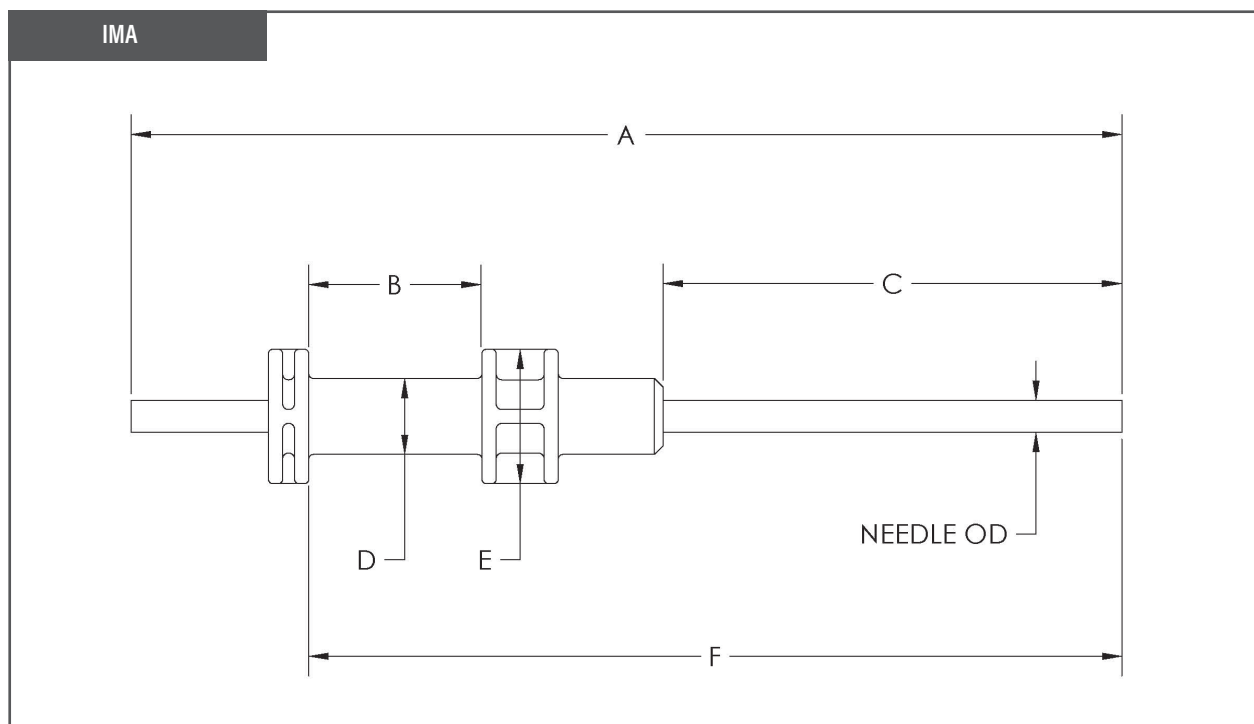
GRONINGER NEEDLE DIMENSIONS

PART NUMBER	NEEDLE ID MM [IN.]	NEEDLE OD MM [IN.]	A	B MM [IN.]	C
F-FN-GRO-1.6-063	1.6 [0.063 ± 0.002]	2.1 [0.083 ± 0.001]	165.0 [6.496]	133.0 [5.230]	H.B. FOR 3/32 I.D.
F-FN-GRO-2.1-125	2.1 [0.085 ± 0.002]	2.8 [0.109 ± 0.001]			H.B. FOR 1/8 I.D.
F-FN-GRO-3.0-156	3.0 [0.118 ± 0.003]	3.7 [0.148 ± 0.001]			H.B. FOR 5/32 I.D.
F-FN-GRO-3.2-156	3.2 [0.128 ± 0.002]	3.8 [0.148 ± 0.001]			H.B. FOR 5/32 I.D.
F-FN-GRO-4.0-250	4.0 [0.160 ± 0.002]	4.6 [0.180 ± 0.001]			H.B. FOR 1/4 I.D.
F-FN-GRO-5.0-250	5.0 [0.197 +0.004, -0.002]	6.0 [0.237 +0.003, -0.001]			H.B. FOR 1/4 I.D.

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- X.XX ± 0.010"
- X.XXX ± 0.005"

FILLING NEEDLES



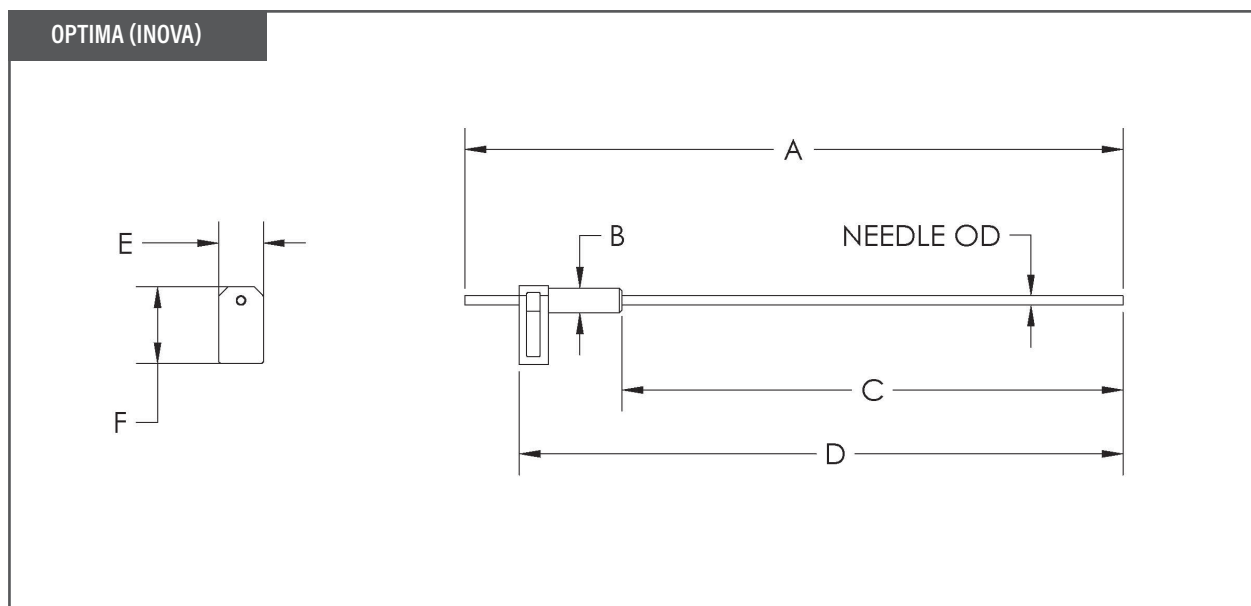
IMA NEEDLE DIMENSIONS

PART NUMBER	NEEDLE ID MM [IN.]	NEEDLE OD MM [IN.]	A	B	C	D	E	F
			MM [IN.]					
F-FN-IMA-0.8-1.1	0.8 [0.032 +0.0015, -0.005]	1.1 [0.042 ± 0.0005]	115.8 [4.56]	20.3 [0.800]	53.6 [2.11]	8.9 [0.351]	15.7 [0.62]	95.0 [3.74]
F-FN-IMA-1.6-2.1	1.6 [0.063 ± 0.002]	2.1 [0.083 ± 0.001]						
F-FN-IMA-2.1-2.8	2.1 [0.085 ± 0.002]	2.8 [0.109 ± 0.001]						
F-FN-IMA-3.2-3.8	3.2 [0.128 ± 0.002]	3.8 [0.148 ± 0.001]						

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- X.XXX ± 0.005"

FILLING NEEDLES



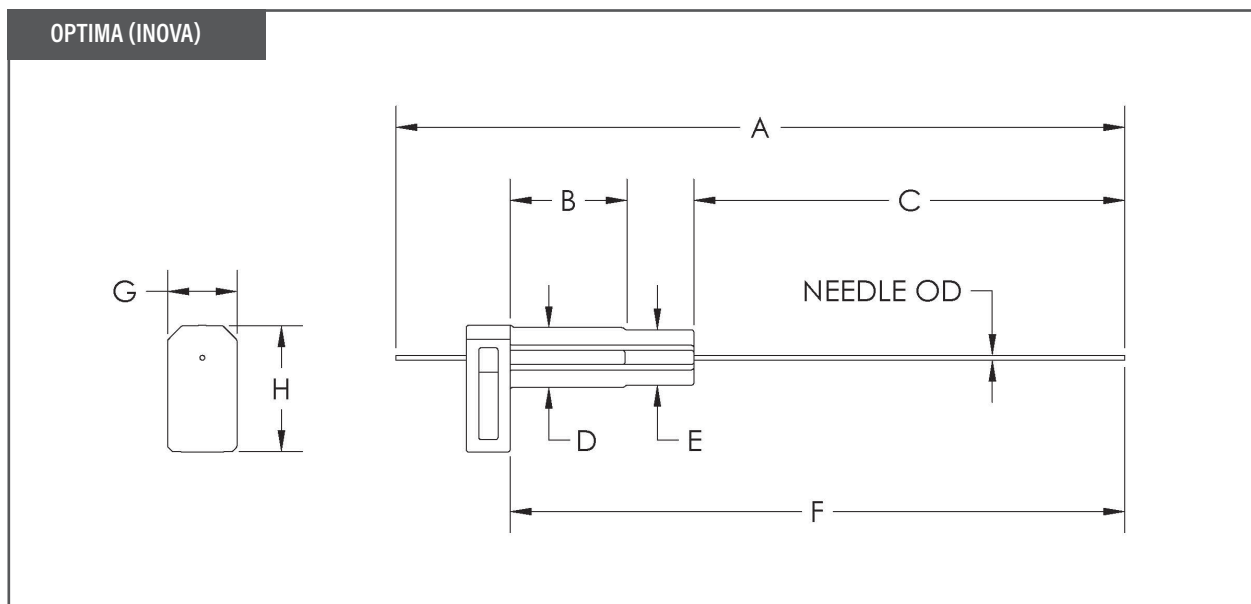
OPTIMA (INOVA) NEEDLE (SMALL HUB) DIMENSIONS

PART NUMBER	NEEDLE ID MM [IN.]	NEEDLE OD MM [IN.]	A	B	C	D	E	F
F-FN-OPS-0.8-1.1	0.8 [0.032 +0.0015, -0.005]	1.1 [0.042 ± 0.0005]						
F-FN-OPS-1.6-2.1	1.6 [0.063 ± 0.002]	2.1 [0.083 ± 0.001]	139.2 [5.480]	8.0 [0.314]	879 [3.460]	121.4 [4.780]	15.1 [0.595]	20.1 [0.793]
F-FN-OPS-2.1-2.8	2.1 [0.085 ± 0.002]	2.8 [0.109 ± 0.001]						

TOLERANCES UNLESS OTHERWISE STATED:

- X.X ± 0.020"
- X.XX ± 0.010"
- X.XXX ± 0.005"

FILLING NEEDLES



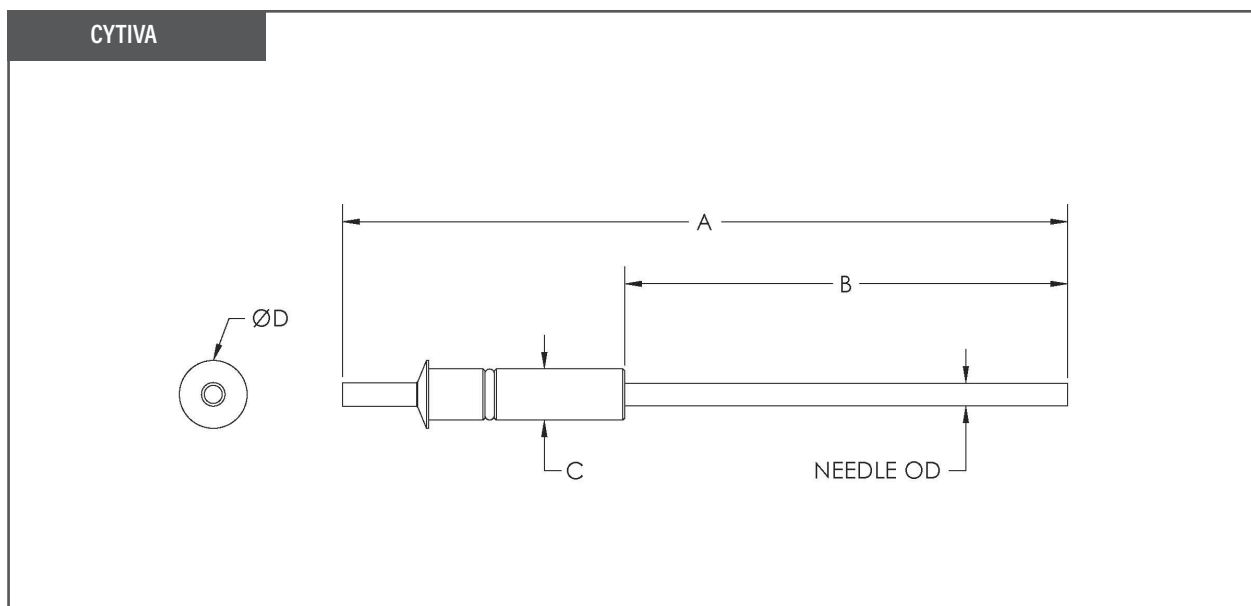
OPTIMA (INOVA) NEEDLE (LARGE HUB) DIMENSIONS

PART NUMBER	NEEDLE ID	NEEDLE OD	A	B	C	D	E	F	G	H
	MM [IN.]	MM [IN.]								
F-FN-OPL-0.8-1.1	0.8 [0.032 +0.0015, -0.005]	1.1 [0.042 ± 0.0005]	154.7 [6.089]"	25.0 [0.984]"	90.2 [3.551]"	13.0 [0.511]	12.0 [0.472]	130.0 [5.118]	15.0 [0.590]	27.5 [1.082]
F-FN-OPL-1.6-2.1	1.6 [0.063 ± 0.002]	2.1 [0.083 ± 0.001]								
F-FN-OPL-3.2-3.8	3.2 [0.128 ± 0.002]	3.8 [0.148 ± 0.001]								
F-FN-OPL-4.0-4.6	4.0 [0.160 ± 0.002]	4.6 [0.180 ± 0.001]								
F-FN-OPL-5.0-6.0	5.0 [0.197 +0.004, -0.002]	6.0 [0.237 +0.003, -0.001]								

TOLERANCES UNLESS OTHERWISE STATED:

- X.X ± 0.020"
- X.XX ± 0.010"
- X.XXX ± 0.005"

FILLING NEEDLES



CYTIVA NEEDLE DIMENSIONS

PART NUMBER	NEEDLE ID MM [IN.]	NEEDLE OD MM [IN.]	A	B		C	D	
				MM [IN.]				
F-FN-PAL-0.8-1.1	0.8 [0.032 +0.0015, -0.005]	1.1 [0.042 ± 0.0005]	120.0 [4.720]	75 [2.952]		8.6 [0.340]	12 [0.472]	
F-FN-PAL-1.2-1.5	1.2 [0.047 ± 0.001]	1.5 [0.058 ± 0.0005]						
F-FN-PAL-1.6-2.1	1.6 [0.063 ± 0.002]	2.1 [0.083 ± 0.001]						
F-FN-PAL-2.4-3.1	2.4 [0.094 ± 0.002]	3.1 [0.120 ± 0.001]					10.9 [0.430]	14 [0.55]
F-FN-PAL-3.2-3.8	3.2 [0.128 ± 0.002]	3.8 [0.148 ± 0.001]						
F-FN-PAL-4.0-4.6	4.0 [0.160 ± 0.002]	4.6 [0.180 ± 0.001]						
F-FN-PAL-5.0-6.0	5.0 [0.197 +0.004, -0.002]	6.0 [0.237 +0.003, -0.001]						

TOLERANCES UNLESS OTHERWISE STATED:

- X.X ± 0.020"
- X.XX ± 0.010"
- X.XXX ± 0.005"