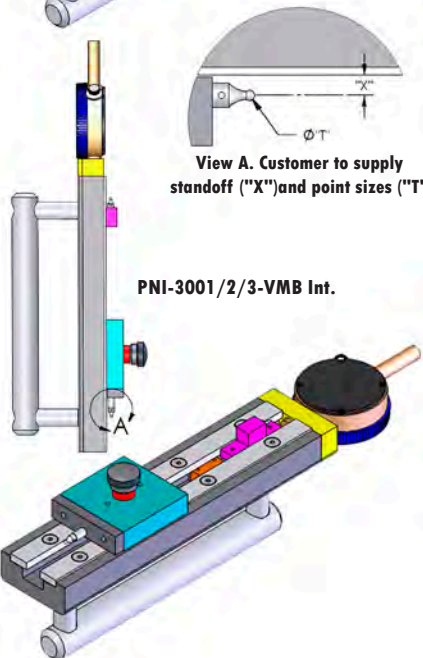
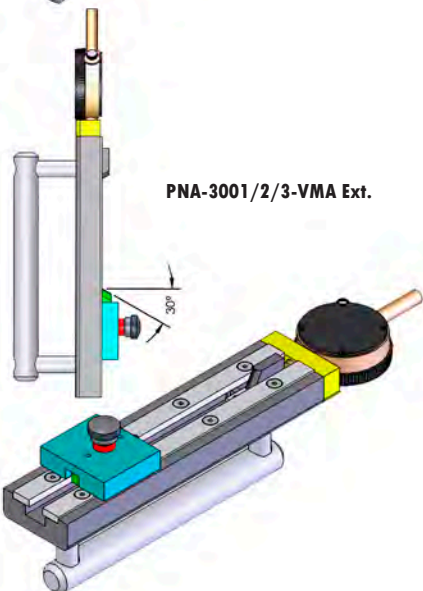


PN-3001/2/3 Ext.



View A. Customer to supply standoff ("X") and point sizes ("T")

PNI-3001/2/3-VMB Int.



PNA-3001/2/3-VMA Ext.

### PN-3000 SERIES PIN SEAL DIAMETERS GAGES



The PN-3000 Series of gages inspect critical pin seal diameters on premium connectors ranging from 2<sup>3</sup>/<sub>8</sub>" - 13<sup>3</sup>/<sub>8</sub>". The gage also inspects seal tapers with the addition of stand-off plates. Each model covers a specific range of connection sizes, making the PN-3000 gages exceedingly versatile and economical.

The PN-3000 gages use precision contact points that position on the seal at a fixed distance from the connector face during inspection. Contact point diameters are manufactured to tolerances of ±.0002". Each set of contact points is interchangeable to allow measuring different thread forms. The type of connector and distance from the face of the connector to the measuring plane, determine the diameter of the contact points required.

Before inspecting parts, these gages must be preset to a nominal predetermined dimension using gage blocks, Gagemaker's Pin Seal Diameter Gage Setting Master, or Frame Standards. Once the gage is preset, it is properly positioned on the part by sweeping to obtain the largest indicator reading. The gage's indicator reports actual measurement readings. The PN-3000 gage is supplied with a .0005" resolution indicator.

#### Features

- Inspects pin seal diameters on premium connectors ranging from 2<sup>3</sup>/<sub>8</sub>" - 13<sup>3</sup>/<sub>8</sub>".
- Inspects seal tapers on premium connectors ranging from 2<sup>3</sup>/<sub>8</sub>" - 13<sup>3</sup>/<sub>8</sub>".
- Provides accurate measurements on the gage's indicator at the critical sealing point of the pin.
- Uses interchangeable contact points to allow inspection on a variety of thread forms.
- Supplied with a .0005" resolution indicator.
- Requires presetting using gage blocks, Gagemaker's Pin Seal Diameter Gage Setting Master, or Frame Standards.
- Allows use in a manufacturing or field environment due to durable construction.

### PN-3000 SERIES PIN NOSE DIAMETER GAGES\*

The PN series measure pin nose diameter using contact points. Specify the distance from the face of the connector to the measuring plane and desired contact point diameter when ordering.

Model	Description	Range
PN-3001	Pin Nose Diameter Gage	0" - 5 <sup>1</sup> / <sub>2</sub> "
PN-3002	Pin Nose Diameter Gage	0" - 9 <sup>1</sup> / <sub>2</sub> "
PN-3003	Pin Nose Diameter Gage	0" - 13 <sup>1</sup> / <sub>2</sub> "
PN-3004	Pin Nose Diameter Gage	0" - 19 <sup>1</sup> / <sub>2</sub> "
PN-3005	Pin Nose Diameter Gage	0" - 25 <sup>1</sup> / <sub>2</sub> "

\*There is a separate cost to reposition the point standoff of PN-3000 Gages. Quotation available upon request.

### PN-3000 SERIES INTERNAL "BALL CONTACT" SEAL DIAMETER GAGES

The PNI series measure the internal ball contact seal diameter using contact points. Specify the distance from the face of the connector to the measuring plane and desired contact point diameter when ordering.

Model	Description	Range
PNI-3001-VMB	Internal "Ball Contact" Seal Diameter Gage	2" - 5 <sup>1</sup> / <sub>2</sub> "
PNI-3002-VMB	Internal "Ball Contact" Seal Diameter Gage	2" - 9 <sup>5</sup> / <sub>8</sub> "
PNI-3003-VMB	Internal "Ball Contact" Seal Diameter Gage	2" - 13 <sup>3</sup> / <sub>8</sub> "

### PN-3000 SERIES 30° EXTERNAL APEX DIAMETER GAGES

The PNA model gages measure only the external apex diameter of the connector.

Model	Description	Range
PNA-3001-VMA	30° External Apex Diameter Gage, Anvils	2" - 4 <sup>1</sup> / <sub>4</sub> "
PNA-3002-VMA	30° External Apex Diameter Gage, Anvils	2" - 9 <sup>5</sup> / <sub>8</sub> "
PNA-3003-VMA	30° External Apex Diameter Gage, Anvils	2" - 13 <sup>3</sup> / <sub>8</sub> "

## PN-3000 SERIES 30° INTERNAL/EXTERNAL APEX SEAL DIAMETER GAGES

The PN-3000 Series 30° Internal/External Apex Seal Diameter gages measure both the internal and external diameters of the apex seal for the connector.

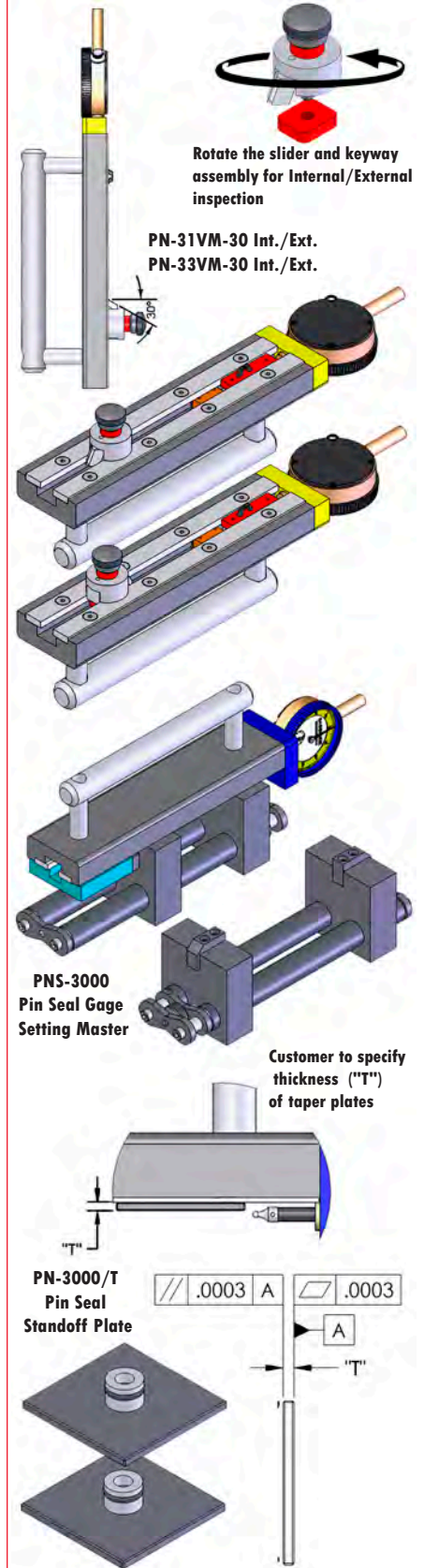
Model	Description	Range
PN-31VM-30	30° Internal/External Apex Seal Diameter "V"	Internal 2 <sup>3</sup> / <sub>8</sub> " - 6 <sup>5</sup> / <sub>8</sub> " External 4"-6 <sup>5</sup> / <sub>8</sub> "
PN-33VM-30	30° Internal/External Apex Seal Diameter "V"	Internal 2 <sup>3</sup> / <sub>8</sub> " - 14" External 4" - 14"

## PN-3000 PIN SEAL DIAMETER GAGE OPTIONAL EQUIPMENT

The PNS-3000 pin seal diameter gage setting standard is an adjustable standard used to preset the PN-3000 series pin seal gages. The PN-3000 gages use a dial indicator to compare a known diameter to the diameter of the machined piece. The pin seal standoff plates are available in various sizes. Additional custom sizes are available upon request. Pin seal standoff plates are sold as a set of two.

Model	Description	Range
PNS-3000	Pin Seal Gage Setting Master	2 <sup>3</sup> / <sub>8</sub> " - 13 <sup>3</sup> / <sub>8</sub> "
PN-3000/T.04087	Pin Seal Standoff Plate*	0.04087" (1.038 mm) thick
PN-3000/T.044	Pin Seal Standoff Plate*	0.0440" (1.12 mm) thick
PN-3000/T.0472	Pin Seal Standoff Plate*	0.0472" (1.20 mm) thick
PN-3000/T.0591	Pin Seal Standoff Plate*	0.0591" (1.50 mm) thick
PN-3000/T.064	Pin Seal Standoff Plate*	0.0640" (1.62 mm) thick
PN-3000/T.072	Pin Seal Standoff Plate*	0.0720" (1.83 mm) thick
PN-3000/T.0748	Pin Seal Standoff Plate*	0.0748" (1.90 mm) thick
PN-3000/T.078	Pin Seal Standoff Plate*	0.0780" (1.9812 mm) thick
PN-3000/T.0787	Pin Seal Standoff Plate*	0.0787" (2.00 mm) thick
PN-3000/T.0811	Pin Seal Standoff Plate*	0.0811" (2.06 mm) thick
PN-3000/T.0815	Pin Seal Standoff Plate*	0.0815" (2.07 mm) thick
PN-3000/T.094	Pin Seal Standoff Plate*	0.0940" (2.39 mm) thick
PN-3000/T.100	Pin Seal Standoff Plate*	0.1000" (2.54 mm) thick
PN-3000/T.114	Pin Seal Standoff Plate*	0.1140" (2.90 mm) thick
PN-3000/T.1181	Pin Seal Standoff Plate*	0.1181" (3.00 mm) thick
PN-3000/T.121	Pin Seal Standoff Plate*	0.1210" (3.07 mm) thick
PN-3000/T.122	Pin Seal Standoff Plate*	0.1220" (3.10 mm) thick
PN-3000/T.1221	Pin Seal Standoff Plate*	0.1221" (3.10 mm) thick
PN-3000/T.1378	Pin Seal Standoff Plate*	0.1378" (3.50 mm) thick
PN-3000/T.171	Pin Seal Standoff Plate*	0.1710" (4.34 mm) thick
PN-3000/T.1969	Pin Seal Standoff Plate*	0.1969" (5.00 mm) thick
PN-3000/T.200	Pin Seal Standoff Plate*	0.2000" (5.08 mm) thick
PN-3000/T.3149	Pin Seal Standoff Plate*	0.3149" (8.00 mm) thick
PN-3000/T.350	Pin Seal Standoff Plate*	0.3500" (8.89 mm) thick

\*Additional plate thickness sizes are available. All plates are 2 per set.



Rotate the slider and keyway assembly for Internal/External inspection

PN-31VM-30 Int./Ext.  
PN-33VM-30 Int./Ext.

PNS-3000  
Pin Seal Gage  
Setting Master

Customer to specify  
thickness ("T")  
of taper plates

PN-3000/T  
Pin Seal  
Standoff Plate

The round and frame style standards are designed to preset all models of the PN-3000 series gages for accurate inspection of API pin end seal taper diameters of premium connectors. These standards consist of a rigid, non-adjustable steel block machined to precise, proper size tolerances.