

# Akshay 30 july data sheet

*TEST A premium PFA fitting for high-purity and corrosive chemical application .*

Entegris has supplied innovative connection technology into the high-purity chemical handling markets for over 30 years. Our PrimeLock® fittings (available in sizes from 1/4" to 1½" and 40 mm) are clean, robust, and very easy to assemble. With audible and visual indicators, users can quickly verify the proper makeup of the connection. Heat is not required to assemble this fitting, saving time and money.

PrimeLock fittings perform effectively in the most demanding chemical applications at both ambient and elevated temperatures. The ultraclean design provides enhanced reliability within your system, with an all-PFA wetted construction. PrimeLock fittings are fully tested using our stringent testing and qualification methodology. This extremely robust, clean fitting is the most reliable connection technology on the market.

## APPLICATIONS

- High-purity, corrosive chemical handling
- Semiconductor applications
  - Photolithography
  - Bulk chemical delivery
  - CMP
  - Wet etch and clean
  - High-temperature cleaning processes
- Solar, LED, flat panel display
- Excellent performance with low surface tension chemistries



*TEST PrimeLock tee union, available in sizes up to 40 mm*

## FEATURES & BENEFITS

Akshay	Provides consistent and repeatable fitting makeup
<b>All wetted PFA components</b>	Offers broad chemical compatibility
<b>Robust thread design</b>	No cross-threading, quick makeup, increased sealing force
<b>Unique seal design</b>	Nonwetted insert reduces entrapment, leak points, and flow interruptions
<b>No heat required to flare tubing</b>	Saves time and money; reduces operator variability
<b>Connection verification ring</b>	Audible and visual indication of proper fitting makeup
<b>Capable of elevated temperature ratings, all sizes</b>	Simplifies product selection and is compatible with high-temperature chemical processes
<b>Innovative dual-wrench design for 1½" or 40 mm nuts</b>	Make it easier to assemble fittings, saving time and money

## SPECIFICATIONS

		1/4" - 1 1/4" Sizes	1 1/2" and 40 mm Sizes
Materials:	Body, insert, nut	PFA	PFA
	Connection verification ring	ETFE	ETFE
Operating conditions*:	Media pressure	827 kPa (120 psig) @ 21°C (70°F)	689 kPa (100 psig) @ 21°C (70°F)
		276 kPa (40 psig) @ 200°C (392°F)	276 kPa (40 psig) @ 150°C (302°F)
	Temperature range (fluid)	-18° to 200°C (0° - 392°F)	-18° to 150°C (0° - 302°F)
Compliant:		RoHS	RoHS

\*1 1/4" PrimeLock "SpaceSaver" connections are rated to 586 kPa (85 psig) @ 100°C (212°F).

### Applicable PFA Tube Dimensions

OD	OD Tolerance	Wall Thickness	Wall Thickness Tolerance
1/4" (6.35 mm)	±0.004" (±0.10 mm)	0.047" (±1.19 mm)	±0.004" (±0.10 mm)
3/8" (9.52 mm)	±0.004" (±0.10 mm)	0.062" (±1.57 mm)	±0.005" (±0.13 mm)
1/2" (12.70 mm)	±0.005" (±0.13 mm)	0.062" (±1.57 mm)	±0.005" (±0.13 mm)
3/4" (19.05 mm)	±0.005" (±0.13 mm)	0.062" (±1.57 mm)	±0.005" (±0.13 mm)
1" (25.40 mm)	±0.005" (±0.13 mm)	0.062" (±1.57 mm)	±0.005" (±0.13 mm)
1 1/4" (31.75 mm)	±0.007" (±0.18 mm)	0.075" (±1.90 mm)	±0.007" (±0.18 mm)
1 1/2" (38.10 mm) and 40 mm	±0.007" (±0.18 mm)	0.086" (±2.18 mm)	±0.007" (±0.18 mm)

### FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit [entegris.com](http://entegris.com) and select the [Contact Us](#) link to find the customer service center nearest you.

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