

NEW FROM FASTEST

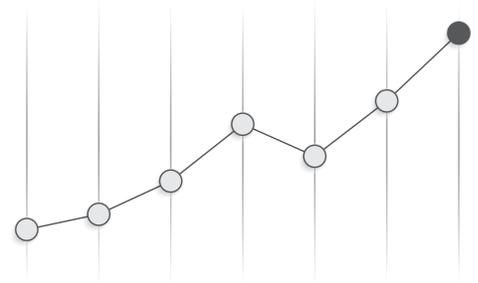
# High Purity G-Series

HPG580 | CGA Quick Connection Tools

**Fastest**<sup>®</sup>  
Your Productivity Connection

## Increase Specialty Gas Revenue

Many compressed gas facilities have a difficult time keeping up with specialty gas demand due to leaky and slow twist-on fittings. Previously, quick connectors would not hold a leak-tight seal under extreme vacuum levels used during the high purity filling process - preventing plants from maximizing specialty gas revenue.



## HPG580



The new HPG580 quick connection tool is the ideal choice for specialty gas cylinder filling.

- Re-designed internal geometry improves vacuum rating to reliably fill high purity gas cylinders
- Change out cylinders 90% faster than twist-on fittings
- Increase output of high purity cylinders at 99.9999% purity, six 9's
- $1 \times 10^{-9}$  sccm helium leak rate maintains seal under vacuum down to 30 micron

## Deliver an Extra Specialty Gas Batch Per Day

High Purity G-Series connection tools dramatically increase revenue generating capabilities at compressed gas facilities. Easily meet growing regional demand from health care, electronics, and laboratory specialty gas consumers to generate up to \$1 million per year in extra revenue.

# of cylinders in a batch per day	Specialty gas cylinder price	Days per week	Weeks per year	Extra revenue
16	x \$245*	x 5	x 52	= \$1,019,200

\*Estimated market price

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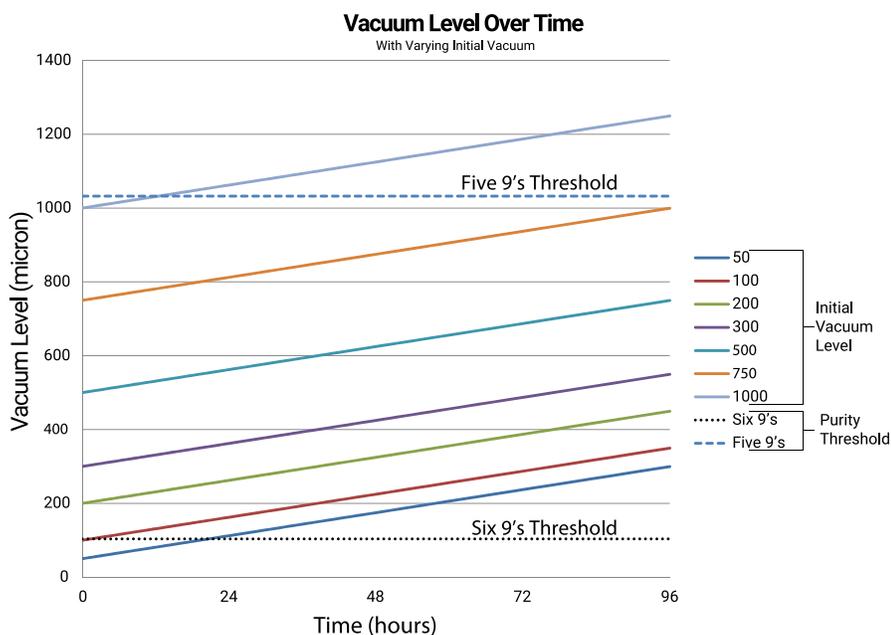


## Specialty Gas Filling Process

Producing UHP cylinders takes a high level of attention to detail. A common Specialty Gas filling process starts by venting the cylinder, then pulling down a deep vacuum, and either purging or filling the cylinder.

Filling systems have many locations where potential leaks can cause contamination. Valve heads, swivels, pigtails, regulators and all piping joints need to hold a  $1 \times 10^{-9}$  sccm vacuum leak rate to maintain 99.9999% purity!

The HPG580 facilitates a 30 micron vacuum level with only a 2-3 micron/hr loss. That leak rate has held up for 30,000 cycles in lab testing.\*



Graph 1. Vacuum level over time with varying starting vacuum levels

## Technical Specifications

Product Family	Connection Type	Connection Method	Application	Leak Rate*
HPG-Series	Internal Threads	Bail Handle	Inert Gas**	$1 \times 10^{-9}$ He sccm
Connects To	Pressure Rating (psi)	Termination	Weight	Vacuum Rating*
CGA 580	3600	1/4" NPT (Male)	46 ounces	30 micron

\*\*Argon, Nitrogen, Helium or mixed gases.

Part Number	Handle	Housing	Seals	Replacement Seals
HPG580-0411-BH	1	Stainless Steel/ Brass	Viton	SG580
HPG580-0412-CH	2			
HPG580-0412-BRP	2			
HPG580-0414-CH	4			

\*The HPG580 leak rate, cycle testing and vacuum rating were tested in lab conditions. FasTest recommends replacing the nose seal every month on HPG tools. FasTest cannot guarantee the customers' filling system will maintain stated leak rate.

Only FasTest Genuine Parts should be used to maintain your FasTest quick connection tool. For replacement parts and seal kits, please visit [fastestinc.com](http://fastestinc.com) or contact your local FasTest Distributor.