



# High Purity G-Series

Increase Spec Gas Revenue w/  
HPG 580 CGA Quick Connection Tools



Many compressed gas facilities have a difficult time keeping up w/ demand due to slow, leaky 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 spec gas revenue.

## 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**

Color coded for easy identification

New internal geometry improves vacuum rating

Multiple handle options available



Noise dampening handle sleeve

# of cylinders per daily batch

specialty gas cylinder price

days per week

weeks per year

extra revenue

$$16 \times \$245^* \times 5 \times 52 = \$1,019,200$$

\*estimated market price

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.

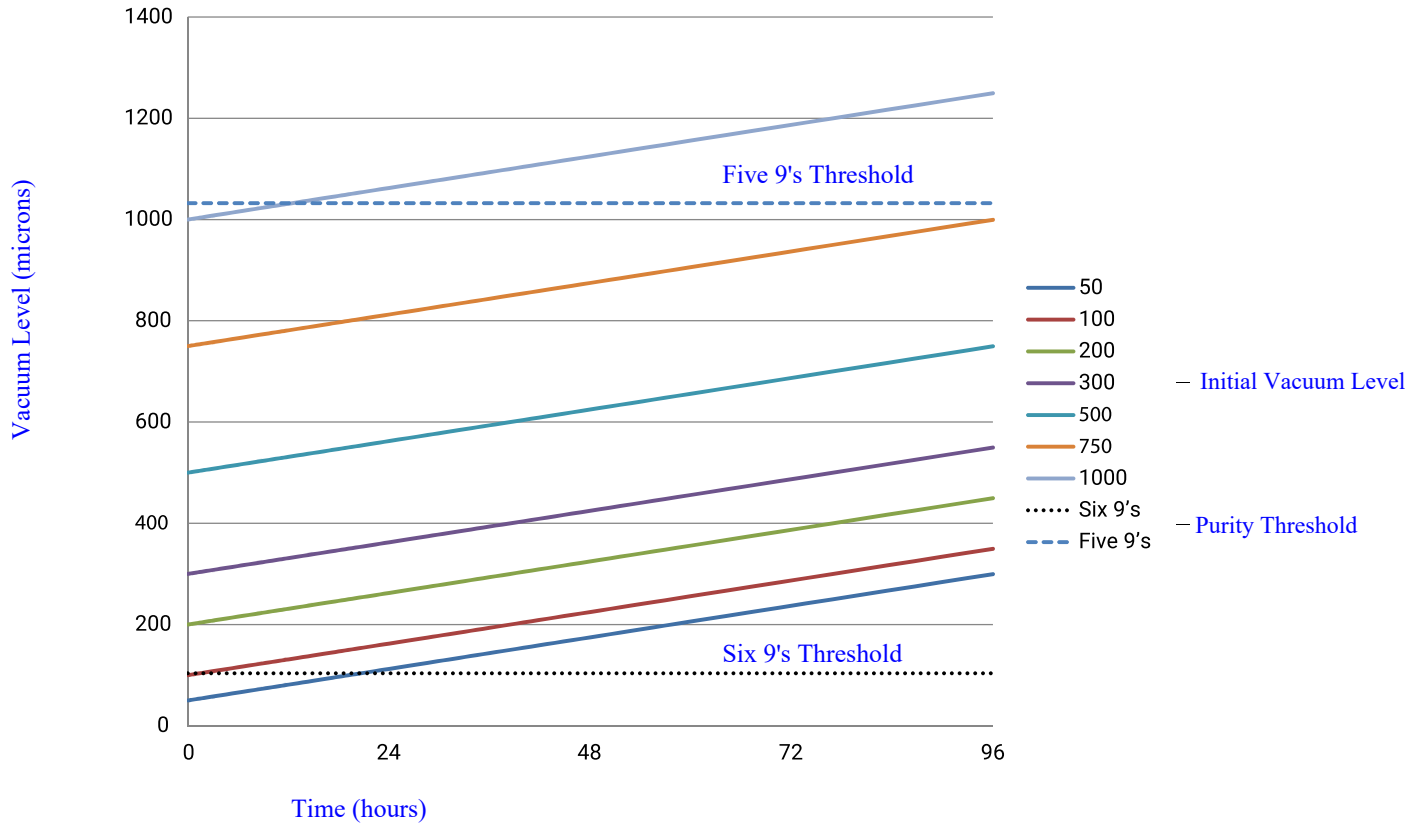
### Specialty Gas Filling Process

Producing UHP cylinders takes a high level of attention to detail. A common spec 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.\*

Vacuum Level Over Time  
w/ Varying Initial Vacuum



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 parts should be used to maintain your FasTest quick connection tool.