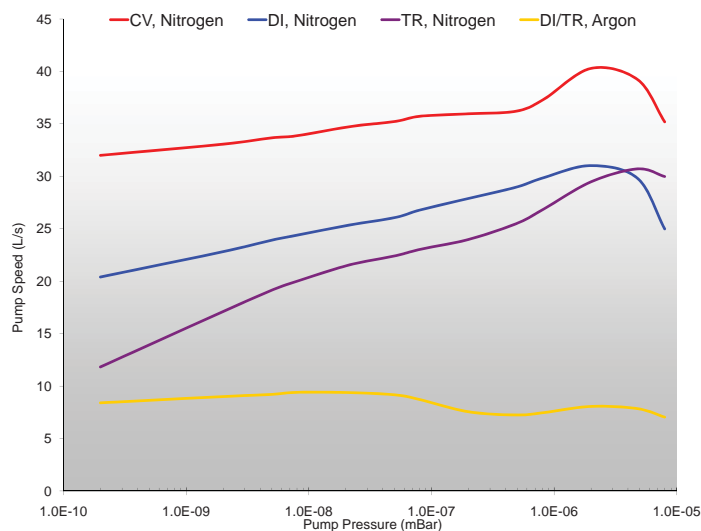


TiTan™ 45S Ion Pump

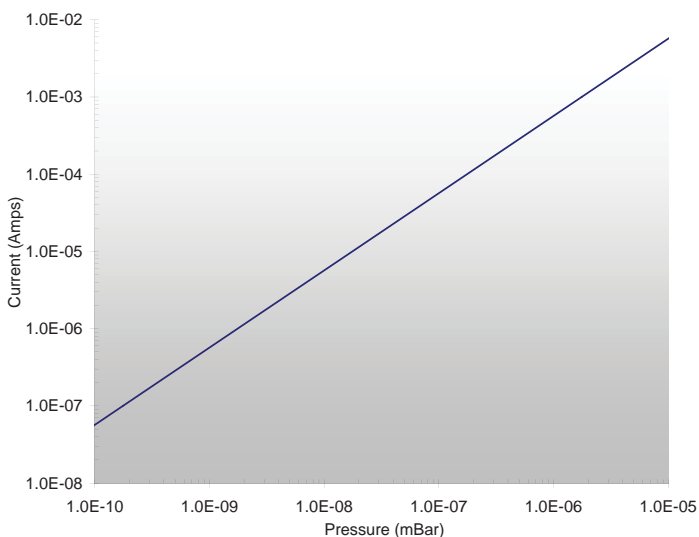


		Pumping Element		
		CV (Conventional)	DI (Differential)	TR (Triode)
Specifications	Pumping Speed, (l/s, Nitrogen)	40	35	35
	Starting Pressure, (mbar)	< 10 ⁻⁴		
	Ultimate Pressure, (mbar)	< 10 ⁻²		
	Lifetime, average hours @ 10 ⁻⁶ mbar	Less than 10 ⁻¹¹		
	Temperature, max °C (with/without magnets)	50,000		
	Inlet Flange	250 / 450		
	Weight, kg (lbs)	DN 63 (4.75" CFF)		
		16 (34)		

Pumping Speed vs. Pressure
measured in accordance with ISO/DIS 3556-1.2-1992

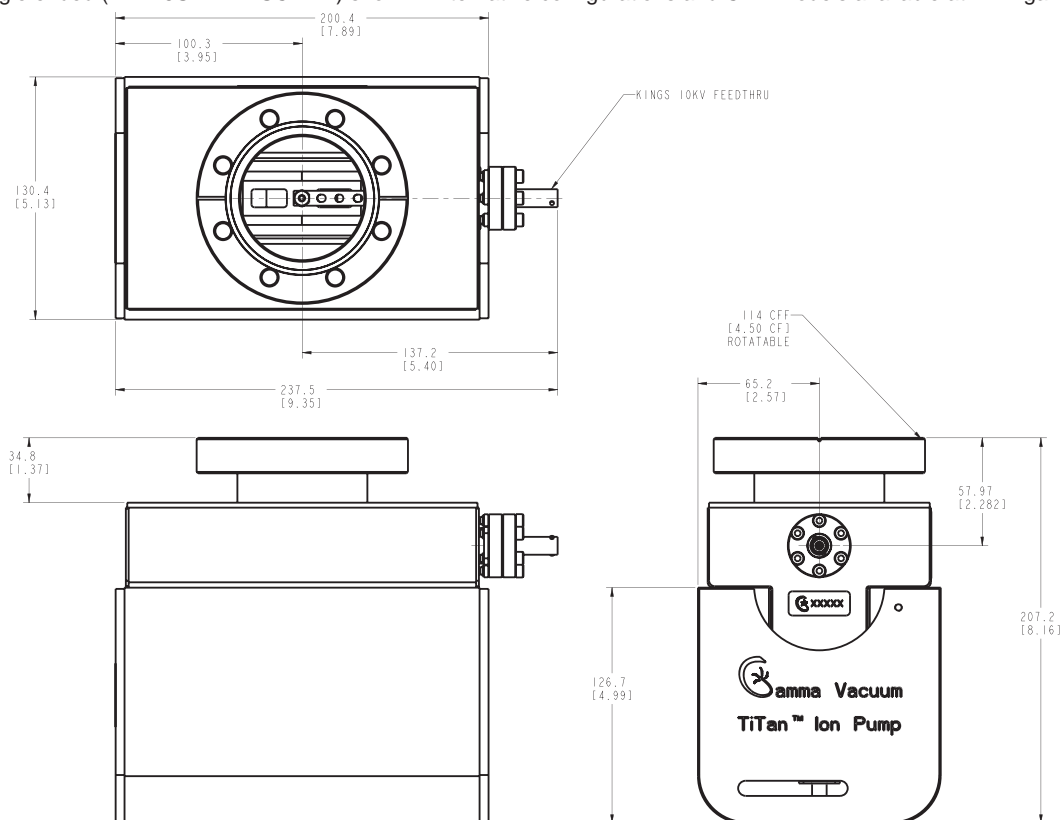


Current vs. Pressure



Line Drawing

Single ended (PN: 45S-DI-4V-SC-N-N) shown. Alternative configurations and CAD models available at www.gammavacuum.com.



Standard Options*

Standard Options*									
Element Styles		Ports		Feedthroughs		Heaters		TSP/NEG	
Options	CV Conventional 100% Titanium	4V	Single DN 63 (4.5" CFR)	SC	SAFECONN™ 10kV SHV	N	No Heaters	N	Not Available
	DI Differential 50% Titanium 50% Tantalum	4D	Double DN 43 (4.5" CFR) DN 35 (2.75" CFR)	OP	Perkin Elmer	110	110-volt 90-130 nominal		
	TR Triode Slotted Titanium	2V	Single Vertical DN 35 (2.75" CFR)	OV	Old Varian	220	220-volt 200-240 nominal		
	CVX Conventional SEM Shielding	2H	Single Horizontal DN 35 (2.75" CFR)	VR	Starcell®				
	DIX Differential SEM Shielding			FI	Fischer				

* Configured part numbers and pricing are available at www.gammavacuum.com. Contact us directly for custom engineered options.



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Gamma Vacuum designs, manufactures, and services ion pumps, titanium sublimation pumps, and their controls.

We have grown to be the industry leading supplier through superior quality, delivery, service and innovation.

**Our staff and facility are dedicated to one thing;
creating the purest vacuum environments on earth.**