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Seiko Seiki STP-A2203

Technical Specifications

Pump Type			STP-A2203C	STP-A2203CV
TMS unit			Without TMS	With TMS
Inlet port flange		ge	VG250/ISO250F	
Flange size	Outlet port flange		KF40	
	Purge Port flange		KF10	
Pumping Speed ^{*1} (L/s) N ₂		N ₂	2200	
(See chapter 7.1) H ₂		H ₂	1700	
Compression ratio ^{*1} $\frac{N_2}{H_2}$		N_2	> 10 ⁸	
		H ₂	2.5×10 ⁴	
Allowable Maximum continuous flow rate *1,*2 (sccm)		N ₂	1500	1200
Ultimate Pressure*1,*3			10 ⁻⁶ Pa (10 ⁻⁸ Torr) order <after baking=""></after>	
Allowable maximum backing pressure *1			400 Pa (3 Torr)	
Enable exhaust gas			Chlorine and Fluorine gas can be used. When you want to use the following gas, pleae contact Edwards. The gas including alkali metal, but except "Li". The gas including "Ga", "Hg", "In" and "Sn". HBr	
Purge gas flow rate sccm		sccm		
		L/min		
Rated Speed rpm		rpm	27000 (Allowable speed range: between 13500 and 27000)	
Starting time min		min	7	
Stopping time min		min	8	
Baking temperature °C		°C	< 120	No baking possible with TMS
Lubricating oil			Not Necessary	
Installation position			Free	
Cooling method			Water cooling	Water cooling controlled by TMS
TMS tem	perature settir	ng °C	N/A	60
Water	Flow rate	L/min	2	
Cooling	Temperature °C		0.10.20	
	Pressure	MPa	< 0.3	
Water cooling fitting Size Material		Size	Rc 1/4 (ISO standard)	
		l	Stainless Steel	
		kg	61	
		mm	See chapter 7.3 Pump Overview Chart	
1 0			0 to 40	
		°C	-25 to 55	
Connection cable length m			30 (maximum)	

The data inside above table are the typical measured value. It's not guaranteed performance.

^{*1 :} Pumping speed, compression ratio, Allowable Maximum continuous flow rate, ultimate pressure and allowable backing pressure are measured by Edwards method.

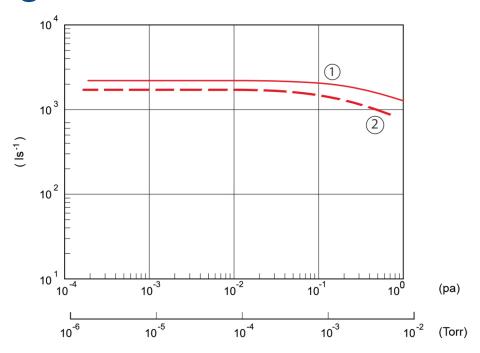
^{*2 :} Allowable maximum continuous flow rate varies depend on the cooling methods. The pumping speed of 1300 (L/min) dry pump was used for the measurements.

^{*3 :} Ultimate pressure is a value after baking.

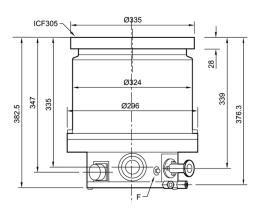
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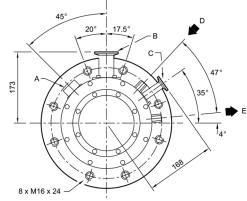
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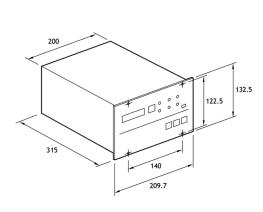
Pumping Curves



Dimensions







- A Electrical Connector
- **B** Output Port
- C Purge Port
- D Cooling water out
- E Cooling water in
- F Temp sensor connnector

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Features & Benefits

- higher gas throughput
- · 5 axis magnetic suspension
- zero contamination
- low maintenance
- harsh process compatible
- increased life

- advanced controller design
- compact design
- small footprint
- advanced rotor technology
- maximised process flexibility

Applications

- semiconductor · coating · scientific research & development · LED
- · metallurgy · solar · flat panel display · plasma etch for metal · ion implantation source • film deposition • diffusion • load lock chambers
- surface analysis mass spectrometry high energy physics

Recommended controller

controller: SCU-1400 • SCU-1500 • SCU-1600