

Pressure regulator E51V-VCR

spectron **pur**



E51V-2-VCR



E51V-3-VCR

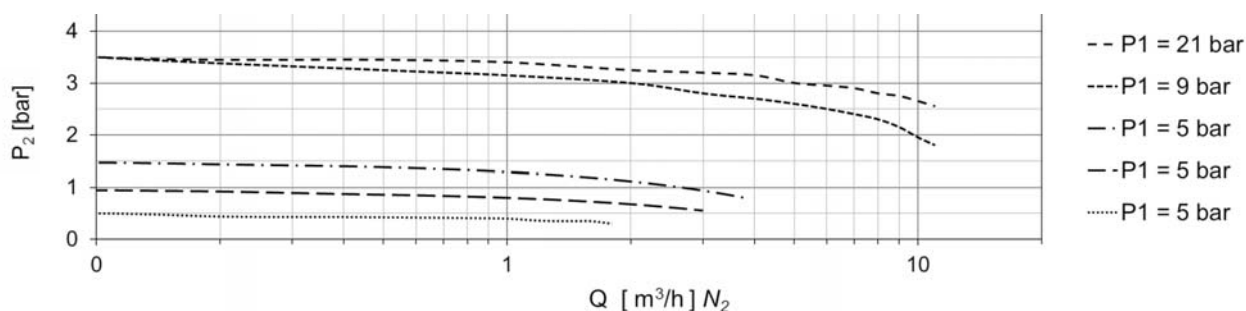
Product features

- Pressure regulator for hazardous gases and ultra high purity gases from grade 6.0
- Vacuum pressure control
- High control accuracy
- Metal-to-metal seal to atmosphere
- High surface quality
- Tied diaphragm
- Minimized internal volume for short purge times
- Electro-polished surfaces (gas wetted)
- Simple outlet pressure limitation by handwheel
- 100 % Helium leak tested
- Assembly in clean room class ISO 5.0

Technical data

Operating pressure	max. 50 bar
Control pressure	-0,8 ... 4 bar
Materials	
Body:	Stainless steel 1.4404
Diaphragms:	Hastelloy C276
Other gas wetted parts:	Stainless steel 1.4404
Sealings	PTFE / PCTFE
Surface roughness (gas wetted areas)	
	$R_{a,max} \leq 0,25 \mu m$ $R_{a,Avg} \leq 0,18 \mu m$
Temperature range	-20°C to +60°C
Leak rates	
to atmosphere:	$\leq 10^{-9}$ mbar l/s He
via valve seat:	$\leq 10^{-6}$ mbar l/s He
c_v-value	$c_v = 0,24$ ($k_v = 0,2$)
Weight	1.5 kg
In- / outlet connectors	1/4"-VCR male or 1/4"-VCR female

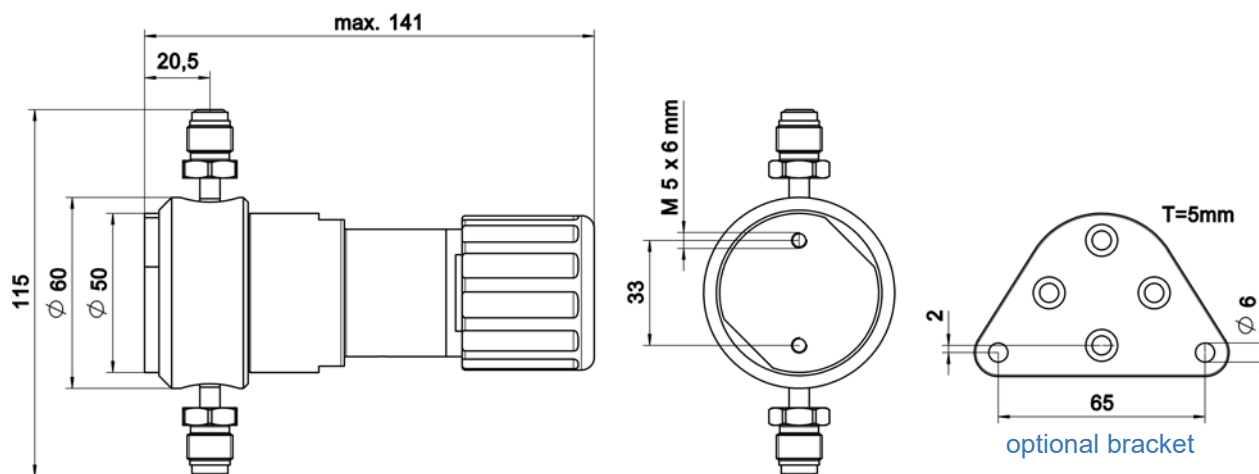
Flow curves E51V-VCR



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Dimensions



Ordering information: Pressure regulator E51V-VCR

E51V - 3 - 50 - 4 - VCRm - VCRm - M - Gas

In-/Outlets

2 2 ports
3 3 ports

Inlet pressure P_1

50 max. 50 bar

Outlet pressure P_2

4 max. 4 bar

Outlet pressure indication

M pressure gauge
K contact pressure gauge
PT pressure transmitter

Outlet

VCRm 1/4"-VCR male
VCRf 1/4"-VCR female

Inlet

VCRm 1/4"-VCR male
VCRf 1/4"-VCR female