

Metering Valve

max. pressure 690 bar
low flow/precise control/wide pressure range

CC Series

Specifications

❑ Operating Parameters

Max. pressure:..... 690 bar (10,000 PSIG)
Design proof pressure:..... 150 % of max.
rated pressure
Leakage: $<4 \times 10^{-8}$ Torr liter sec⁻¹
at 3.5 bar (50 PSID) Helium
Operating temperature: -40 °C to +150 °C
Flow capacity (max.): Cv = 0.00125
Max. operating torque:..... 1.1 Nm

❑ Media Contact Materials

Body:.....316 Stainless Steel
Seat:..... PEEK
O-ring:..... Ethylene Propylene, Viton®,
90 Durameter Buna, Kalrez®
Back-up ring: Teflon®
Remaining parts:300 Series Stainless Steel

For other materials and modifications, please consult factory.

❑ Connections:..... NPT, SAE (1/8" only)

❑ Weight (approximate):.....0.4 kg



Advantages

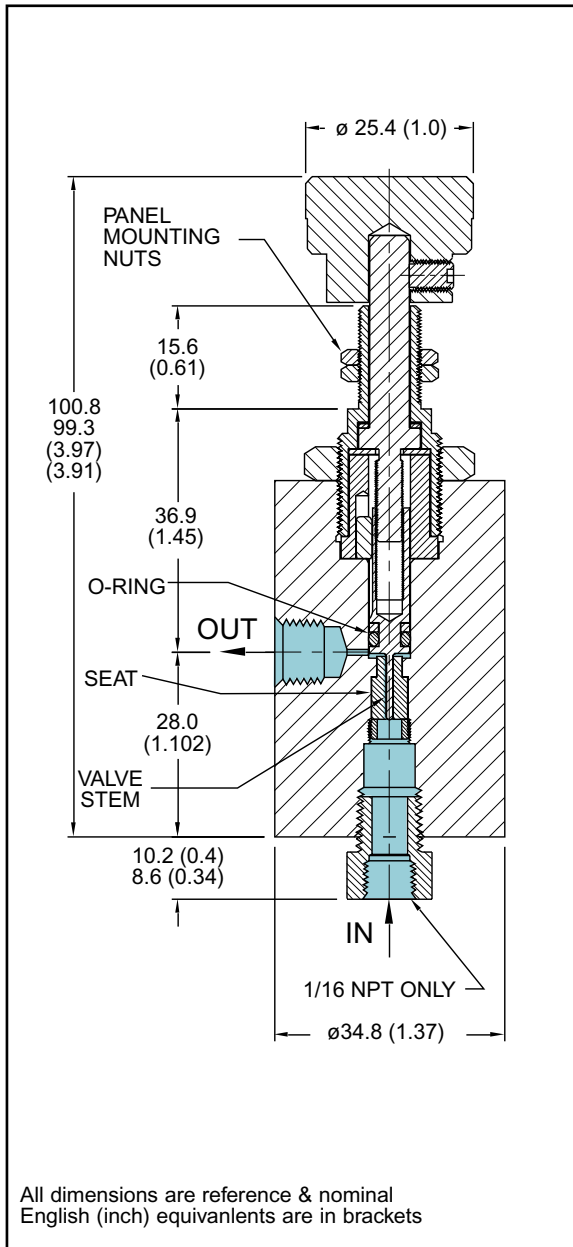
- Designed for both liquid and gas
- Can be used at high and low pressures
- Controls flow of media with extreme accuracy
- Standard flow capacity (maximum)
Cv = 0.00005 and Cv = 0.00125
- 20+ turns from shut-off to full open
- Accurate flow control into both vacuum and/or positive pressure applications
- Non-rotating stem assists in reducing seat wear
- Compact design

Viton®, Kalrez® and Teflon® are registered trademarks of DuPont.
VCR® is a registered trademark of Cajon Co.



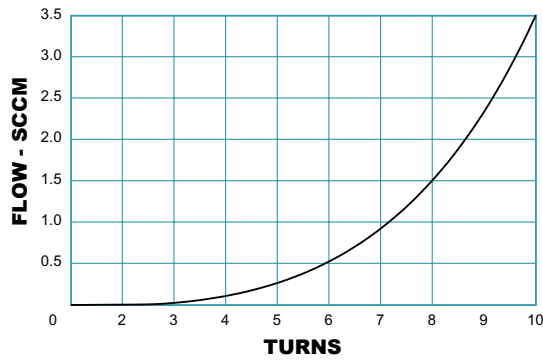
Global technical support & distribution • Design & manufacturing facilities in the U.S.A. & Germany

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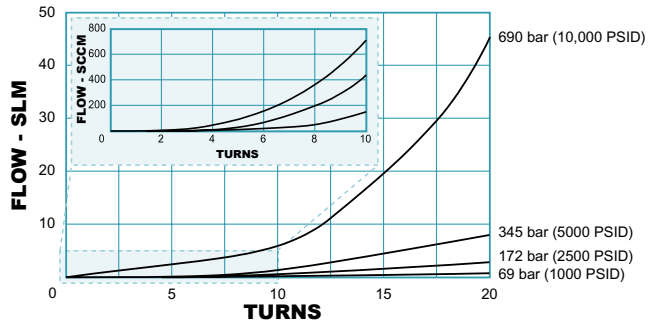


Flow Charts

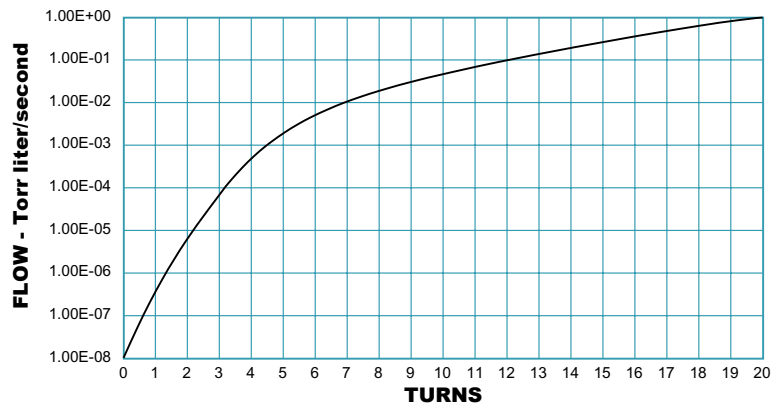
Flow vs. Turns - tested at 3.5 bar (50 PSID) with Helium



Flow vs. Turns - tested with Nitrogen



Flow vs. Turns - tested at 3.5 bar (50 PSID) with Helium



Part Number Selector

Example Part Number:

CC	A	1	6	A	2	1	A	P	V
BASIC SERIES	FLOW CAPACITY	MAXIMUM PRESSURE	BODY MATERIAL	PORTING TYPE	PORTING SIZE	BODY TYPE	ADJUSTMENT	SEAT MATERIAL	O-RING SEAL TYPE
CC	A - Cv = 0.00005 (maximum) B - Cv = 0.00125 (maximum)	1 - 28" Hg Vac.- 690 bar (10000 PSIG)	6 - 316 SST	A - NPT C - SAE (1/8" only) D - H.I.P.C.*	1 - 1/16" 2 - 1/8" 4 - 1/4"	1 - Body Diameter 34.8 mm (1.37")	A - Standard D - Allen Wrench	P - PEEK	E - Ethylene Propylene V - Viton® B - 90 Duro Buna K - Kalrez®
*Operating Pressure is 241 bar (3500 PSIG) for H.P.I.C. ports									

For more information to **Repair Kits, Accessories & Modifications** please contact factory.

High Purity Internal Connections (H.I.P.C.): Tescom Europe High Purity Internal Connections are machined inside the regulator body and are designed to be compatible with VCR® (or equivalent) male fittings - swivel only.



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