

CIRCLE SEAL CONTROLS, INC.
 A division of CIRCOR International, Inc.

MV92 Series 0 to 3,000 PSIG Micro-Metering Fingertip Valves

Features

- Precision tapered needle/.020 orifice provides ultimate in fine metering sensitivity
- Unique “spline” device prevents stem withdrawal from body until gland nut is loosened.
- Packing below threads prevents system contamination.
- Permanent lubrication assures trouble free operation.

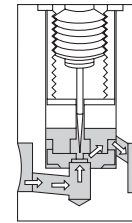
Technical Data

Body Construction Material:	• 316 Stainless Steel
Gland Nut Material:	• 316 Stainless Steel
Stem Seals Material:	• Teflon®
Operating Pressure:	• 0 to 3,000 PSIG (207 BAR)
Temperature Range:	• -20° F to +400° F (-29° C to +204° C)
Connection Sizes:	• 1/8 inch to 3/8 inch

NOTE: Proper filtration is recommended to prevent damage to sealing surfaces.

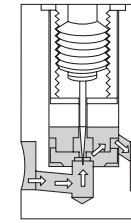
How It Works

FULL OPEN



At approximately 10 handle turns the valve is full open. As the needle is returned to the seat, the needle guide maintains pin-point concentricity of the needle with the seat to maintain absolute uniformity of flow control.

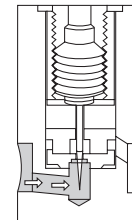
MICRO-METERING



The body is graduated in handle turns. The handle has 25 graduations per turn for precise, repeatable

flow calibration. The handle setscrew allows Zero Flow/ Shutoff Point to be reset in the field.

CLOSED



The Stainless Steel needle seals on the precision machined, Stainless Steel seat. The spring-loaded stem prevents damage to the needle by providing a full, ineffective handle turn before bottoming.

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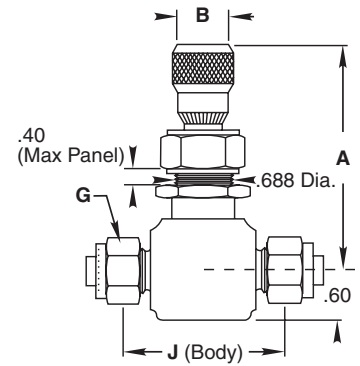
MV92 Series

0 to 3,000 PSIG

Dimensions (inches) & Specifications

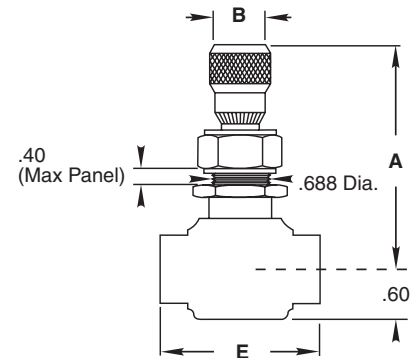
Tube Fittings

Dash No.	Size	Orifice Dia.	Cv*	A		B Dia	G Hex	J
				Open	Closed			
2CC	1/8"	.020	.0072	3.00	2.76	.75	.44	1.90
4CC	1/4"	.020	.0072	3.00	2.76	.75	.56	2.03
5CC	5/16"	.020	.0072	3.00	2.76	.75	.62	2.15
6CC	3/8"	.020	.0072	3.00	2.76	.75	.68	2.15

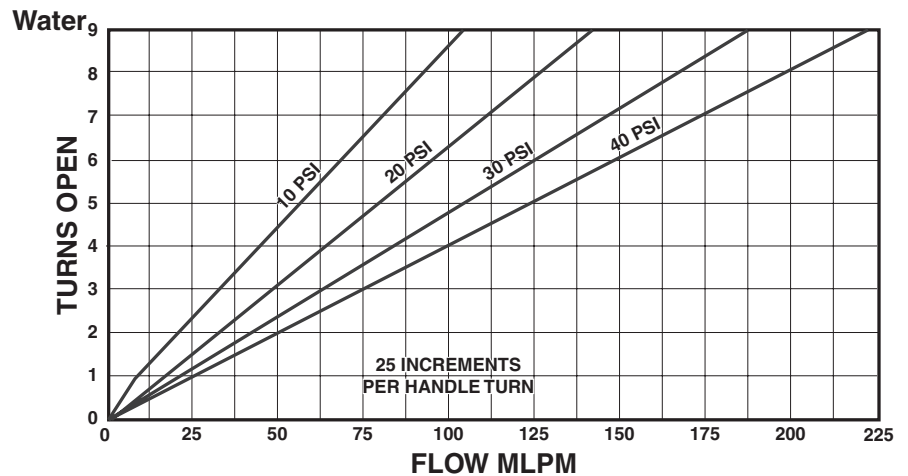
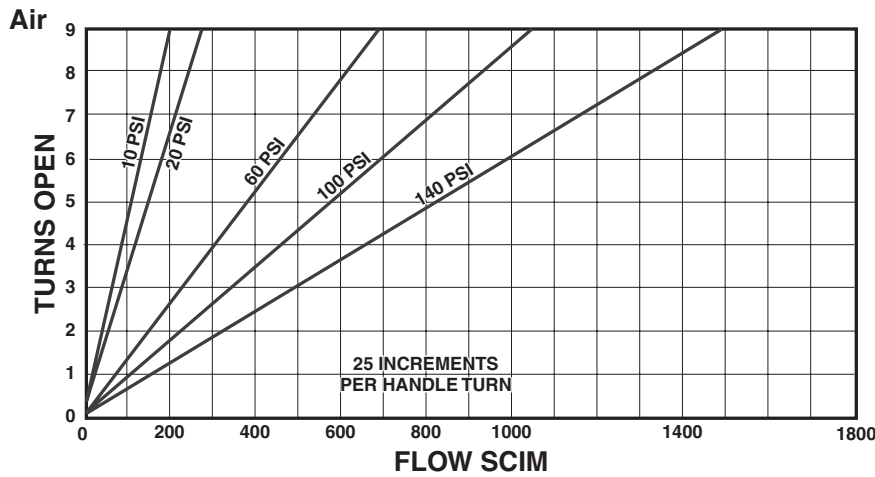


Female Pipe

Dash No.	Size	Orifice Dia.	Cv*	A		B Dia	E
				Open	Closed		
1PP	1/8"	.020	.0072	3.00	2.76	.75	2.00
2PP	1/4"	.020	.0072	3.00	2.76	.75	2.14



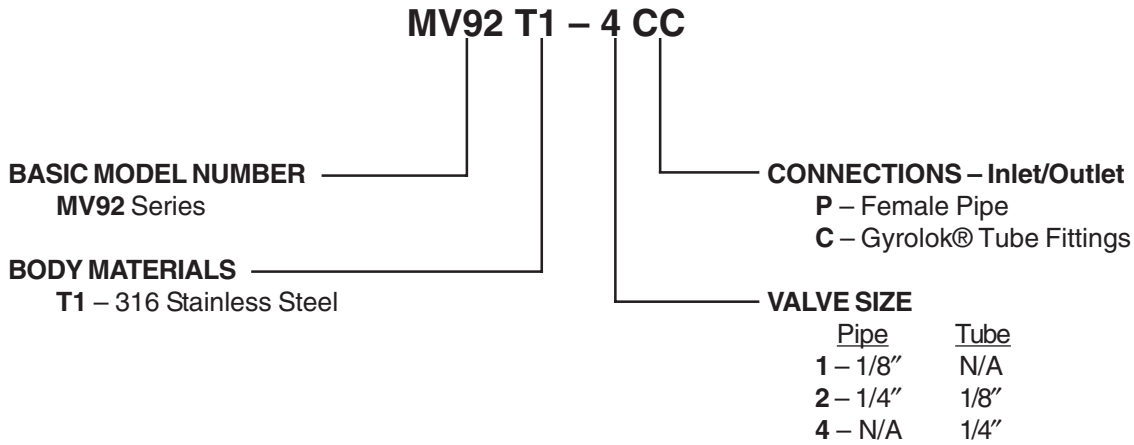
Flow Curves



MV92 Series

0 to 3,000 PSIG

How to Order



Notes:

Please consult your Circle Seal Controls Distributor or our factory for information on special connections, materials, larger sizes, o-rings, operating pressures and temperature ranges.

Teflon® is a registered trademark of DuPont. Gyrolok® is a registered trademark of Hoke, Inc.

Repair Kits

In normal service the only part(s) which may require replacement is(are) the seal(s). A repair kit may be ordered by placing a K/ in front of the complete part number, i.e. K/MV92T1 – 4CC.

For Your Safety

It is the sole responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation and maintenance of these products. Material compatibility product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or property damage.