

MVR40 Multistage Control Valve



FEATURES

- ▶ Multi-path and Multistage Control Valve
- ▶ For control of Cavitation, Erosion, Vibration, and High Noise
- ▶ Designed for tackling high pressure drop in clean liquids, gases, or steam
- ▶ Special designs for dirty service with liquids containing solids
- ▶ Custom solutions for challenging applications
- ▶ Labyrinth Disk Stack with multiple stages of pressure reduction
- ▶ Linear, Equal Percentage, or Custom Characteristics
- ▶ Variety of Angle or Globe style body configurations
- ▶ Tight shutoff to MSS-SP-61, ANSI/FCI 70.2 Class IV or V
- ▶ Certification to NACE MR0103 or MR0175 is available

*Equipment should be installed, operated, serviced, and maintained only by qualified personnel.
No responsibility is assumed by Schneider Electric for any consequences arising from the use of this material.*

PRODUCT RANGE FOR MVR40 MULTISTAGE CONTROL VALVE

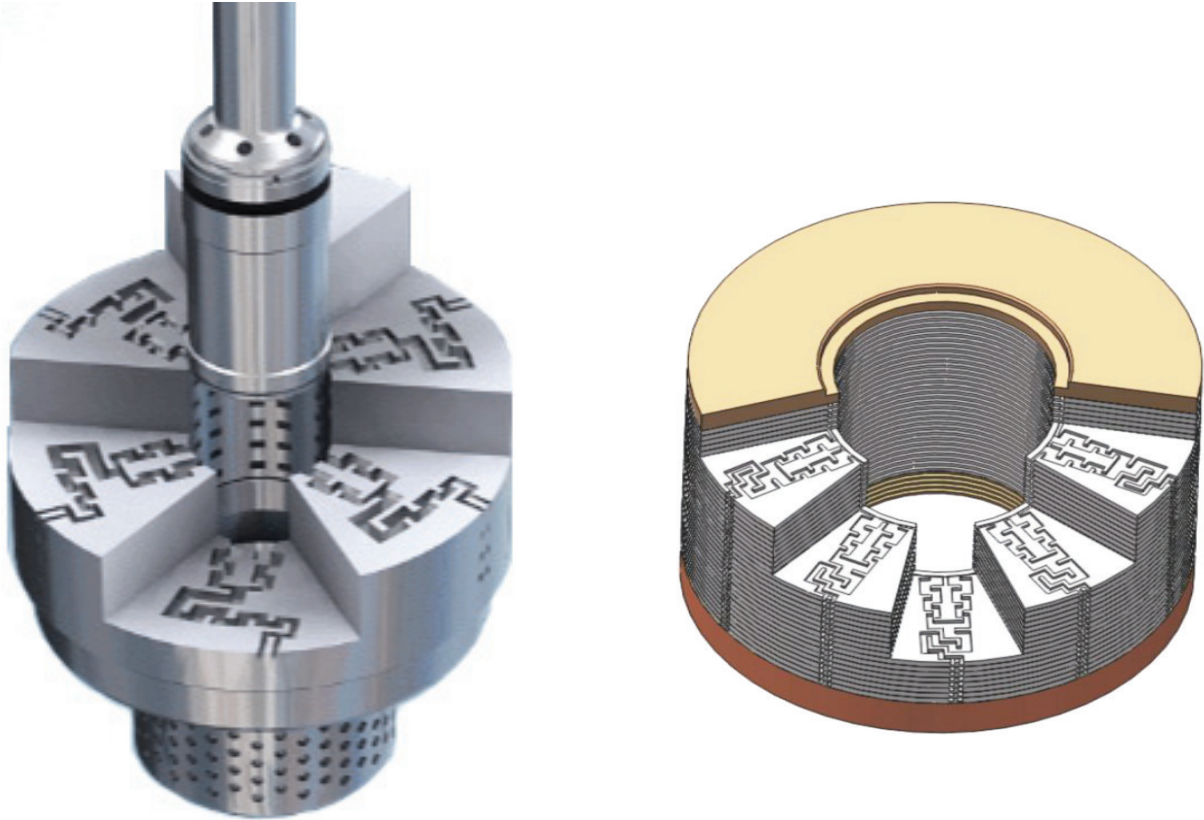
Table 1. MVR40 Product Range

Model	MVR40
Description	Multipath and Multistage Control Valve
Trim	400 Series SS/Heat Treated; 316/316 HF, Chrome-Moly HF Hardfaced; INCONEL 718
Size Range	1" (DN25) - 24" (DN600)
Body Ratings	Class 150-2500
Cv Valve	Design Per Specification
Temperature Range	-50°F - 1050°F (-46°C - 566°C)
Flow Characteristics	To Suit Application
Shutoff Class	MS-SP-61, ANSI/FCI 70.2 Class IV or V
Body/Bonnet Materials	WCB, WC6, A105, F11, WC9, F22, P91 F304/F316/CF8/CF8M
Packing	PTFE V-Ring, PTFE V-Ring Double, PTFE Filled, Grafoil®/Graphite
End Connections (a)	RF, RTJ, BW, SW
Actuator	Spring Diaphragm, Linear Piston, Electric

- a. DIN and PN flanges are also available. Contact Global Customer Support for more information.

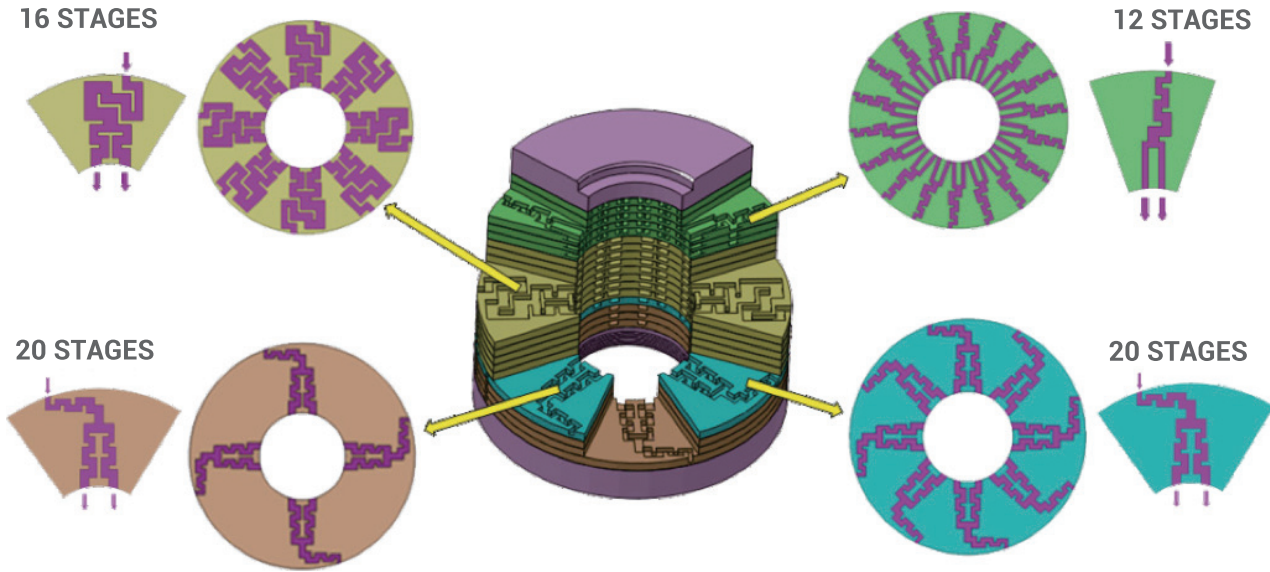
MVR40 TRIM DESCRIPTION

Figure 1. MVR40 Trim

**Trim Description and Design Options**

- ▶ Up to 24 pressure reduction stages designed for each specific application and operating condition.
- ▶ With variable number of stages, including combined with integrated ported cage for high Cv rangeability for replacing two valves with a single valve.
- ▶ Trims can be designed with more than one number of stages to account for reduced pressure drops at higher flow that often occurs.
- ▶ Controlled energy reduction through the application of multiple stages.
- ▶ Engineered zigzag path, originally conceived as multiple piping elbows in a small space, creates frictional flow losses resulting in reduced trim outlet discharge energy and wear, noise, and vibration.
- ▶ The multistage anti-cavitation design mitigates the impact on the valve due to flashing service.
- ▶ The trim can be designed with large flow passages for dirty services, such as crude oil or refinery applications.
- ▶ Trims offered as pressure balanced, unbalanced, and pressurized seat designs.

Figure 2. Pressure Reduction Stages



ADDITIONAL PRODUCTS

These product lines offer a broad range of measurement and instrument products, including solutions for pressure, flow, analytical, temperature, positioning, and controlling. For a list of these offerings, visit our web site at:

www.se.com

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