



PRESSURE REDUCING VALVES

Model RV03 Pressure Reducing Valves

APPLICATION:

Series RV03 Water Pressure Reducing Valves are designed to regulate incoming potable water pressure to protect plumbing system components and reduce water consumption. The valve is suitable for supply pressures up to 400psi (27.6 bar), is factory set to 50psi and may be adjusted from 10-75psi (69-517 kPa). Optionally available with factory preset pressure to suit customer requirements (must specify). All parts, including the strainer, are quickly and easily serviceable without removing the valve from the line. The Integral Bypass prevents excessive downstream pressure caused by thermal expansion. The RV03 is designed to provide longevity with smooth, quiet operation under a wide range of inlet pressure and flow variations.

FEATURES:

- All Stainless Steel Hardware eliminates need for "Sealed Cage"
- Integral 300 Series Stainless Steel Strainer
- Available Sizes 1/2" to 2" with Sweat,
- NPTF, PEX A & B, Press and CPVC Adapter Kits
- Brass Body and Internal Stem
- Lead Free* Construction to meet NSF-61 Requirements
- EPDM Seals and Reinforced Rolling Diaphragm
- Available with Engineered UV Resistant Thermoplastic, Brass or Steel Bonnet
- Temporary Spool Kit available; refer to **CONTROLS**® RVSK Spool Kit
- Optional Pressure Gauge Available
- Valve Bodies and Gauge Adapters have female NPT threads to allow for installation without optional adapter(s).
- 5:1 pressure reduction ratio*** reduces the need for series/step-down valve installations
- Hi/Lo performance*** reduces the need parallel valve installations

GUIDE SPECIFICATION:

The **MGI CONTROLS**® RV03 PRV Water Pressure Reducing Valve shall be installed, when supply pressures are inconsistent or they exceed desired levels. The water pressure regulating valve shall be constructed of Lead Free* materials and shall comply with the national lead-free law, ASSE 1003 & NSF-61. The main Body shall be constructed of lead-free brass while Bonnet is optionally available in UV Resistant Engineered Resin, E-Coated Steel or Brass. An internal bypass will permit the flow of water back through the Valve into the main when pressure increases due to thermal expansion occurring downstream from the valve. Stainless steel springs and adjusting bolts eliminate the need for a "sealed cage". The Pressure Reducing Valve shall be a **MGI CONTROLS**® RV03 Series.



RV03P-2CC0



SPECIFICATIONS:

- **Pressure Rating 400 PSI (2758 kPa)
- **Temperature Rating 180°F (82.2°C)
- Adjustable Range:
 - Standard 10-75 PSI (69-517 kPa)
 - High Pressure 30-120 PSI (207-827 kPa)
- Factory Preset 50±5 PSI (345kPa)

* The wetted surface of these valves contacted by consumable water contains less than 0.25% of lead by weight in conformance with national lead-free law.
 ** Temperature and Pressure may be limited to the pipe being used.
 *** When tested in accordance with ASSE 1003

MGI ConTrols® assumes no responsibility for use of void or superseded data. MGI ConTrols®, Lake Bluff, IL, a member of Morris Group International®. Please visit www.mgicontrols.com for most current specifications.

Submital # **RV03**
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Certifications and Compliances:

NSF/ANSI 61



ASSE 1003
CSA B356-10



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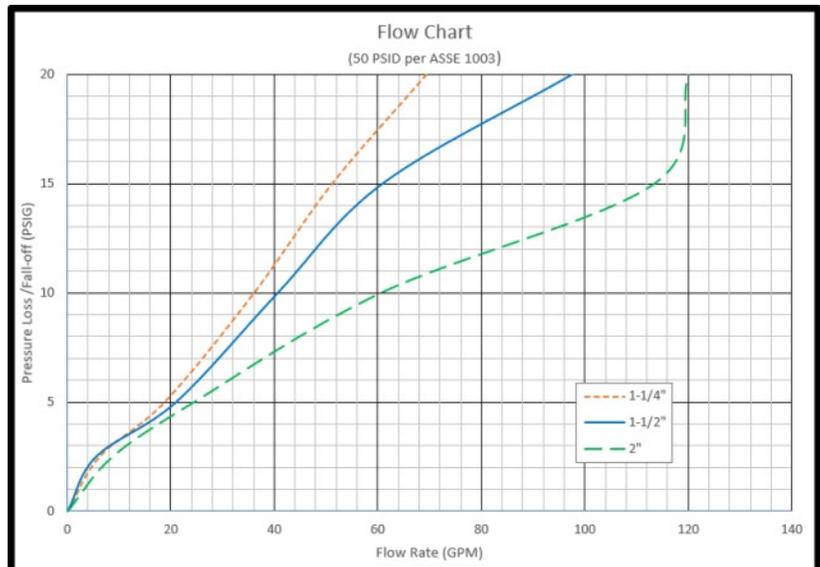
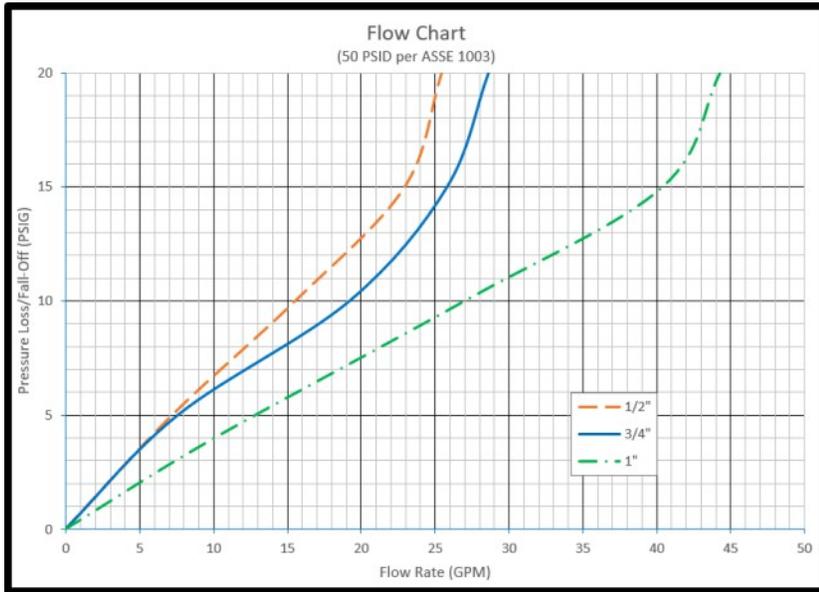
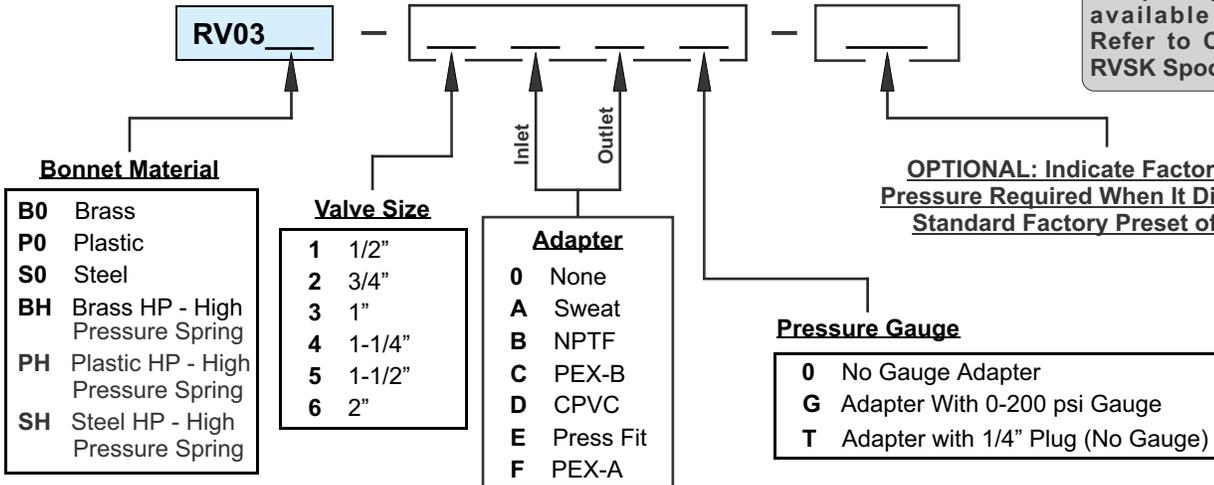
www.mgicontrols.com

PRV ORDER CUSTOMIZATION:



PRESSURE REDUCING VALVES

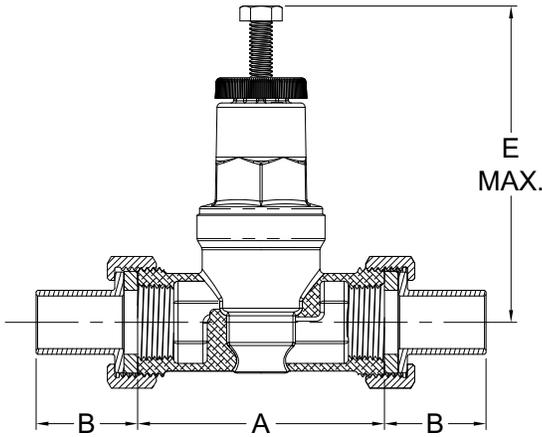
Temporary Spool kit available for order; Refer to CONTROLS® RVSK Spool Kit



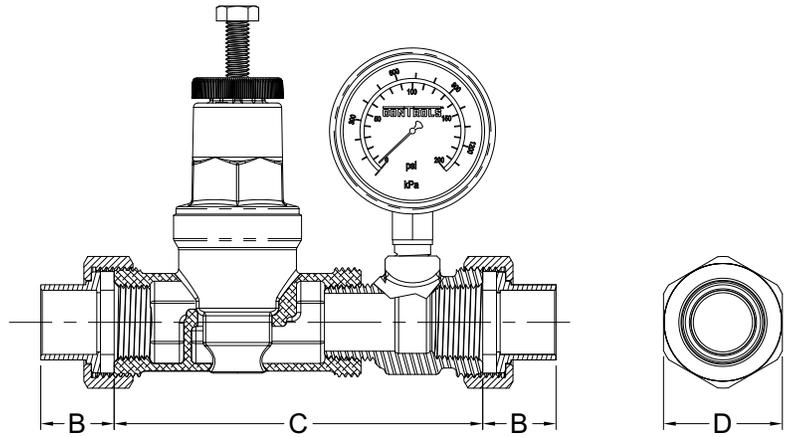
PRV DIMENSIONS:



PRESSURE REDUCING VALVES



RV03P0-2EE0, SHOWN



RV03P0-2AAG, SHOWN

VALVE SIZE	ADAPTER	DIMENSION									
		A		B		C		D		E	
1/2"	Sweat	3-3/8"	86mm	1"	25mm	5"	127mm	1-5/8"	41mm	4-3/4"	121mm
	NPTF			7/8"	22mm						
	PEX-B			1"	25mm						
	CPVC			7/8"	22mm						
	Press Fit			1-1/4"	32mm						
	PEX-A			1-5/8"	41mm						
3/4"	Sweat	3-3/8"	86mm	1"	25mm	5"	127mm	1-5/8"	41mm	4-3/4"	121mm
	NPTF			7/8"	22mm						
	PEX-B			1"	25mm						
	CPVC			1-1/8"	29mm						
	Press Fit			1-3/8"	35mm						
	PEX-A			1-7/8"	48mm						
1"	Sweat	3-7/8"	98mm	1-1/8"	29mm	5-3/4"	146mm	1-7/8"	48mm	5-1/2"	140mm
	NPTF			1"	25mm						
	PEX-B			1-1/8"	29mm						
	CPVC			1-1/8"	29mm						
	Press Fit			1-3/8"	35mm						
	PEX-A			2"	51mm						
1-1/4"	Sweat	5"	127mm	1-1/4"	32mm	6-7/8"	175mm	2-3/8"	60mm	8-1/8"	206mm
	NPTF			1-1/8"	29mm						
	PEX-B			1-1/4"	32mm						
	CPVC			1-1/4"	32mm						
	Press Fit			1-5/8"	41mm						
	PEX-A			2-3/8"	60mm						
1-1/2"	Sweat	5"	127mm	1-1/4"	32mm	6-7/8"	175mm	2-7/8"	73mm	8-1/8"	206mm
	NPTF			1-1/8"	29mm						
	PEX-B			1-3/8"	35mm						
	CPVC			1-5/8"	41mm						
	Press Fit			2"	51mm						
	PEX-A			2-3/4"	70mm						
2"	Sweat	5"	127mm	1-1/4"	32mm	7"	178mm	3-1/2"	89mm	8-1/8"	206mm
	NPTF			1-1/8"	29mm						
	PEX-B			1-3/4"	44mm						
	CPVC			2"	51mm						
	Press Fit			2-1/4"	57mm						
	PEX-A			3-1/4"	83mm						