

Model YRV03

Pressure Reducing Valves With Integral “Y” Strainer



PRESSURE REDUCING VALVES

APPLICATION:

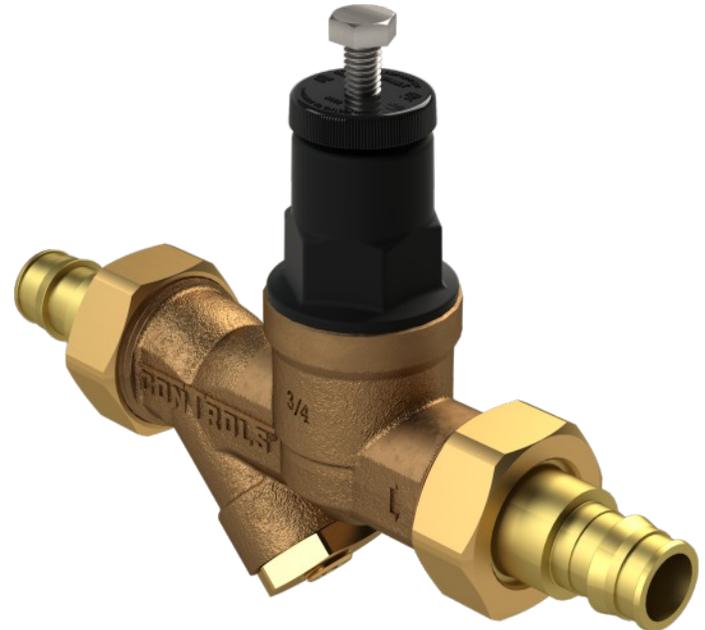
Series YRV03 Water Pressure Reducing Valves with integral “Y” Strainer are designed to regulate incoming potable water pressure to protect plumbing system components and reduce water consumption. The valve is suitable for supply pressures up to 400psi (27.6 bar), is factory set to 50psi and may be adjusted 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 YRV03 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”
- Two-Stage Strainer - Valve body includes an integral 20 x 20 Mesh Stainless Steel Y-Strainer and a secondary, fine mesh, stainless steel strainer integral with the pressure reducing cartridge
- **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
- 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®** YRV03 PRV Water Pressure Reducing Valve with integral “Y” Strainer, shall be installed, when supply pressures are inconsistent or they exceed desired levels. Shall include a two-stage strainer that includes both an integral 20 x 20 mesh Y-Strainer and a secondary fine mesh strainer. 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®** YRV03 Series.



RV03P0-2FF0



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

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Submission # **YRV03**
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Certifications and Compliances:



C ASSE 1003
CSA B356-10

NSF/ANSI 61



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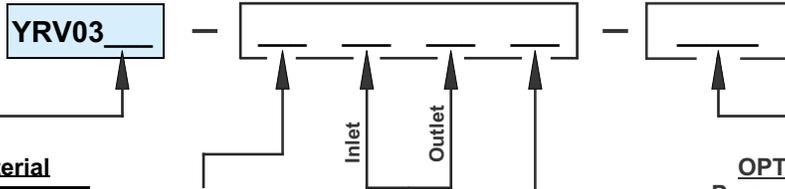
www.mgicontrols.com

PRV ORDER CUSTOMIZATION:



PRESSURE REDUCING VALVES

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



Bonnet Material

B0	Brass
P0	Plastic
S0	Steel
BH	Brass HP - High Pressure Spring
PH	Plastic HP - High Pressure Spring
SH	Steel HP - High Pressure Spring

Valve Size

1	1/2"
2	3/4"
3	1"
4	1-1/4"
5	1-1/2"
6	2"

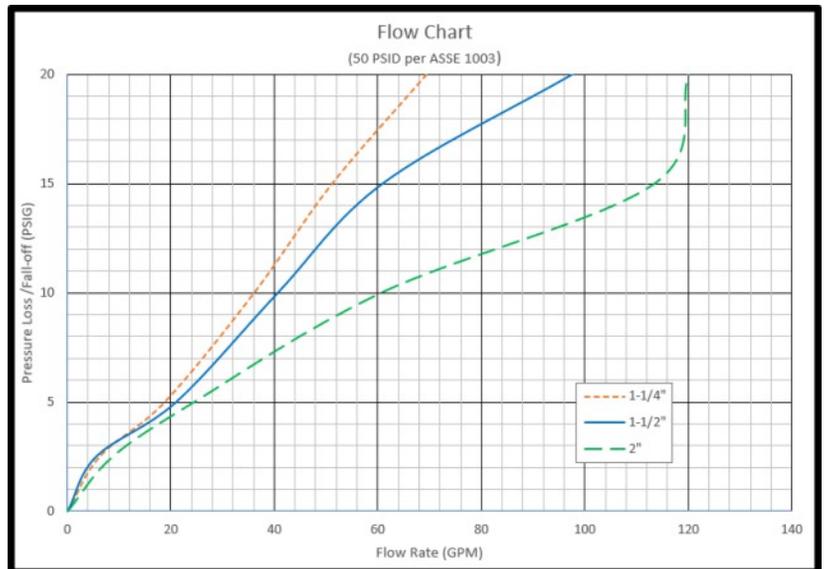
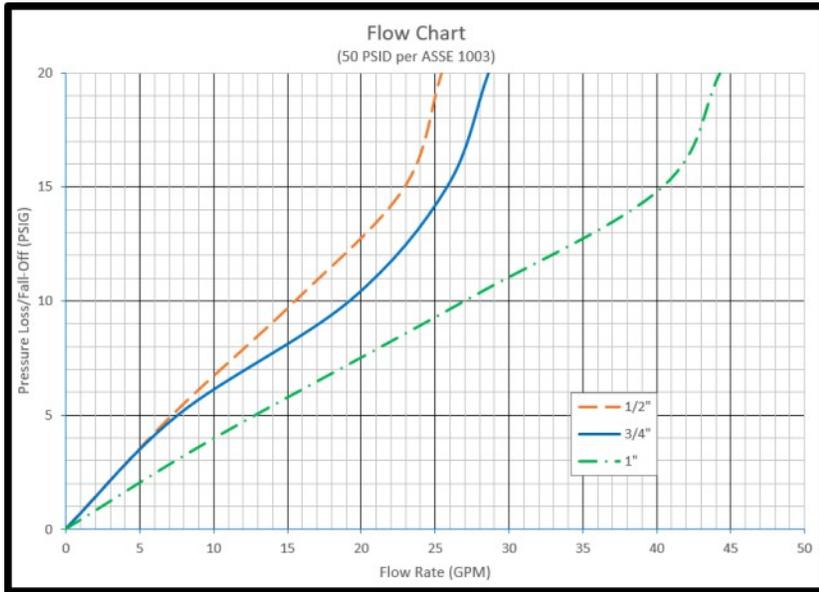
Adapter

0	None
A	Sweat
B	NPTF
C	PEX-B
D	CPVC
E	Press Fit
F	PEX-A

OPTIONAL: Indicate Factory Preset Pressure Required When It Differs From Standard Factory Preset of 50 PSI.

Pressure Gauge

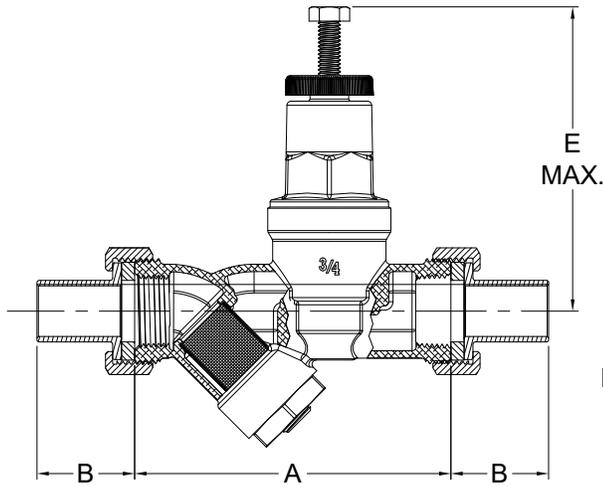
0	No Gauge Adapter
G	Adapter With 0-200 psi Gauge
T	Adapter with 1/4" Plug (No Gauge)



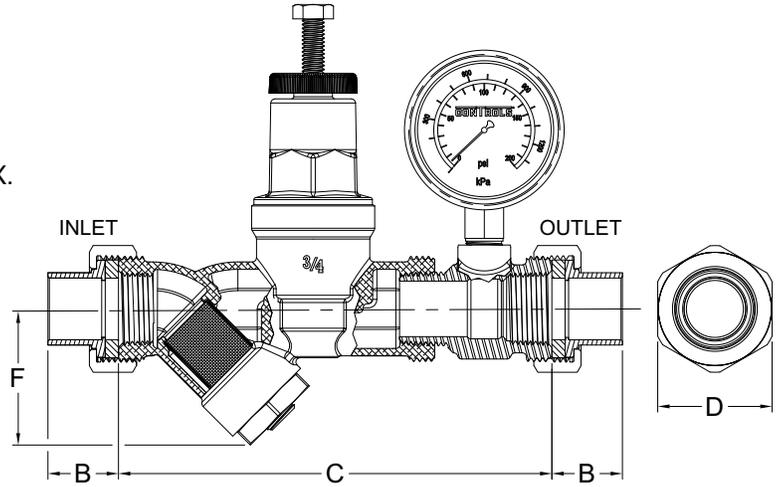
PRV DIMENSIONS:



PRESSURE REDUCING VALVES



YRV03P0-2EE0, SHOWN



RV03P0-2AAG, SHOWN

VALVE SIZE	ADAPTER	DIMENSION											
		A		B		C		D		E		F	
1/2"	Sweat	4-1/2"	114mm	1"	25mm	6-1/8"	156mm	1-5/8"	41mm	4-3/4"	121mm	1-7/8"	48mm
	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	4-1/2"	114mm	1"	25mm	6-1/8"	156mm	1-5/8"	41mm	4-3/4"	121mm	1-7/8"	48mm
	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	5-1/4"	133mm	1-1/8"	29mm	7-1/8"	181mm	1-7/8"	48mm	5-1/2"	140mm	2-3/8"	60mm
	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	6-5/8"	168mm	1-1/4"	32mm	8-1/2"	216mm	2-3/8"	60mm	8-1/8"	206mm	2-7/8"	73mm
	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	6-7/8"	175mm	1-1/4"	32mm	8-3/4"	222mm	2-7/8"	73mm	8-1/8"	206mm	3-1/4"	83mm
	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	7-3/4"	197mm	1-1/4"	32mm	9-3/4"	248mm	3-1/2"	89mm	8-1/8"	206mm	3-3/4"	95mm
	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											