

INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS

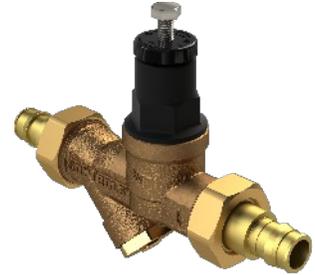
PRESSURE REDUCING VALVE w/ “Y” STRAINER - YRV03: 1/2” - 2”



Model: YRV03P0-1CC0



Model: YRV03B0-6AAG



Model: YRV03P0-2FF0

NOTES TO THE INSTALLER:

1. Please leave this documentation with the owner of the fixture when finished.
2. Please read this entire booklet before beginning the installation.
3. Check your installation for compliance with plumbing and other applicable codes.



WARNING:

You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

FAILURE TO READ AND FOLLOW PROPER INSTALLATION AND MAINTENANCE INSTRUCTIONS MAY RESULT IN PRODUCT FAILURE WHICH CAN CAUSE PROPERTY DAMAGE, PERSONAL INJURY AND/OR DEATH.

MGI CONTROLS® is not responsible for damages resulting from improper installation and/or maintenance. Installation of this valve shall be in accordance with *Uniform Plumbing Code*.

TO ENSURE ACCURATE AND RELIABLE OPERATION OF THIS PRODUCT, IT IS ESSENTIAL TO:

- Properly design the system to minimize pressure variations.
- Implement an annual maintenance program to ensure proper operation and pressure setting of valve(s).
- This valve is factory preset and may be adjusted. It is the responsibility of the installer and or facility maintenance personnel to make sure valve outlet pressure is properly set.
- Following YPRV installation and all adjustments thereafter, verify downstream water pressure to ensure YPRV is properly set and within applicable Code requirements.

SUPPLIES REQUIRED:

(Not provided by **MGI CONTROLS®**)

1. Teflon tape for sealing water connections.
2. Wrench.



IMPORTANT

- Flush supply lines of all foreign material such as pipe dope, chips or solder prior to connecting to valve.
- To ensure proper installation, review the Manual thoroughly to verify dimensional details before beginning any work.
- Installation and field adjustment are the responsibility of the installer.
- Maximum water pressure is 400 PSI (2758kPa). Maximum temperature rating is 180°F (82°C). The standard pressure adjustment range* is 10-75 PSI (69-517kPa), High Pressure adjustment range* is 30-120 PSI (207-827 kPa).
- YRV assembly must be completely drained prior to being subjected to freezing temperatures

**Under Normal Operating Conditions*

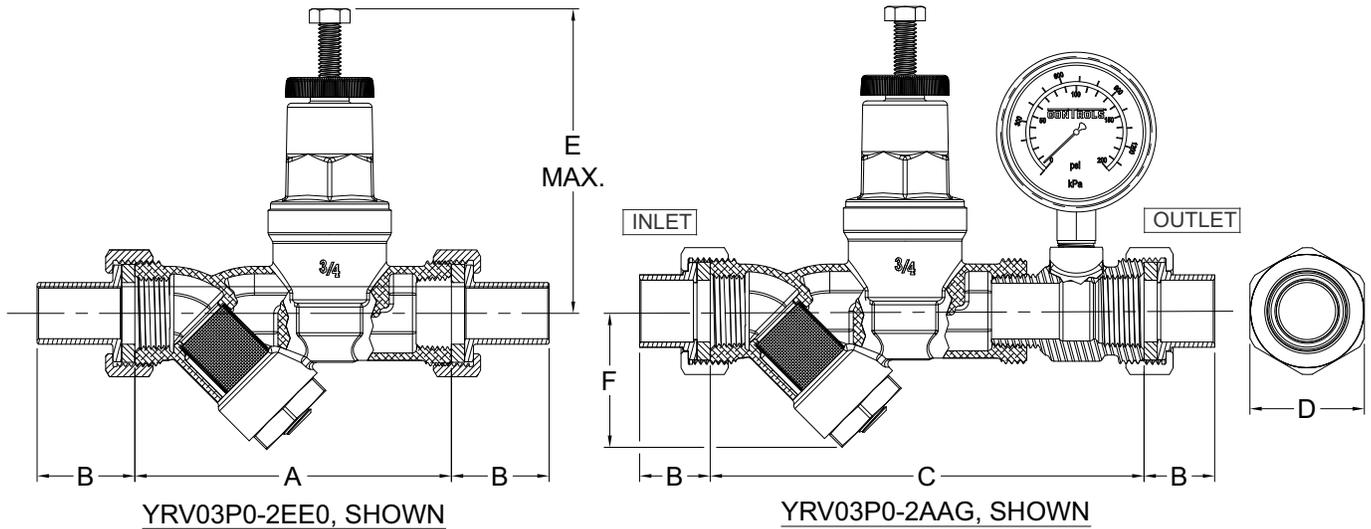
FOR TECHNICAL ASSISTANCE

1-(847)-604-4773



Federal
Public Law
111-380
(No Lead)

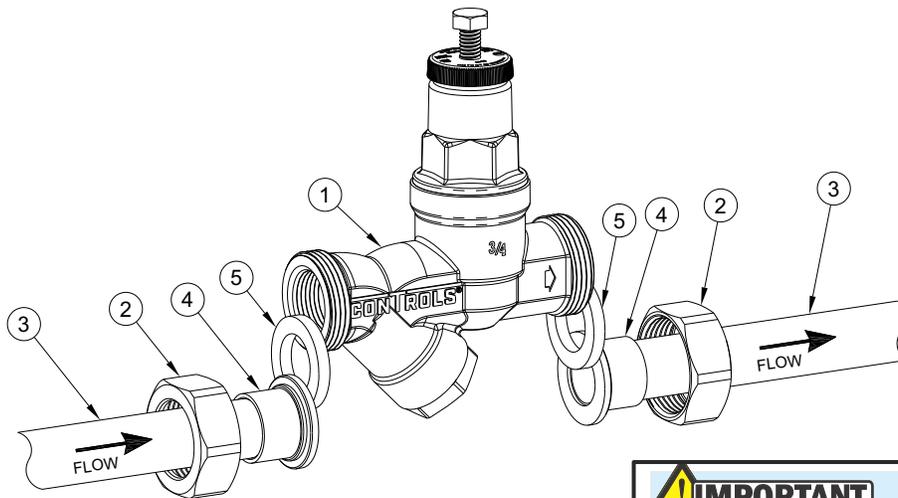
ROUGH-IN DIMENSIONS:



VALVE SIZE	ADAPTER	DIMENSION											
		A		B		C		D		E		F	
1/2"	Sweat	4-1/2"	114mm	1"	25mm	1-1/8"	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								

INSTALLATION: -CU & -CPVC

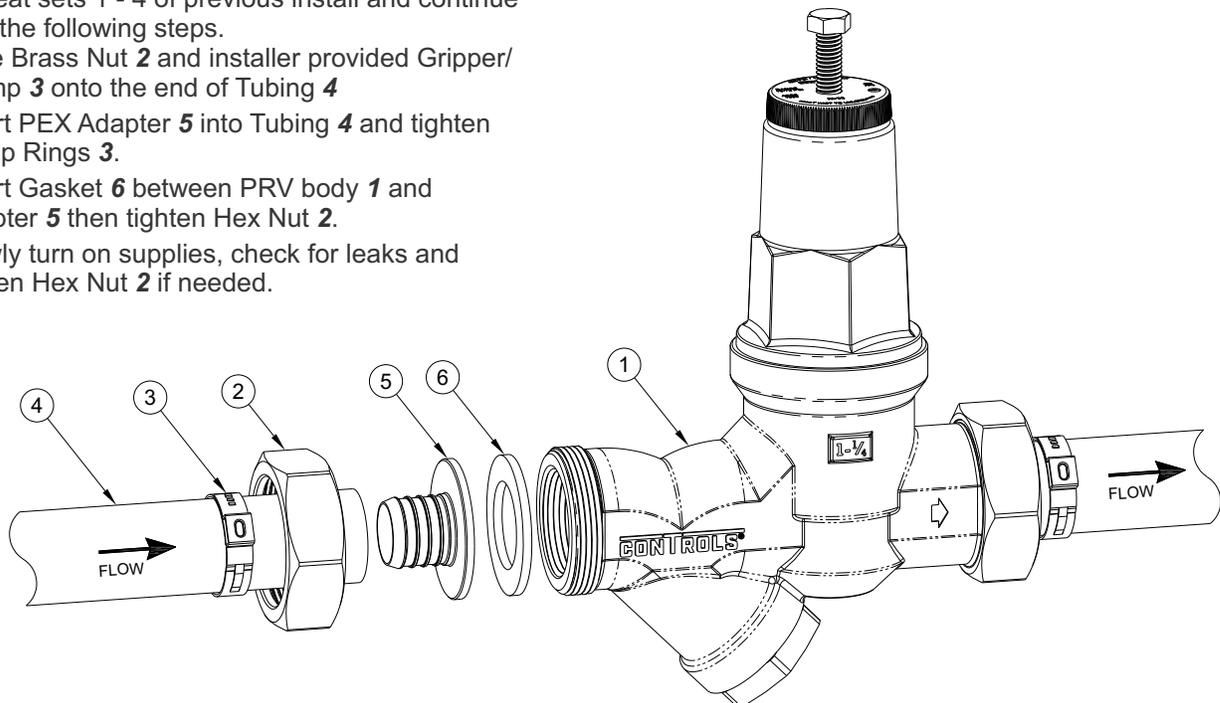
1. Locate PRV **1** in a suitable place accessible for servicing and adjusting.
2. Turn OFF water supply prior to installing YRV.
3. Drain water lines by opening lowest water faucet, then opening highest water faucet to alleviate possible vacuum.
4. Thoroughly flush supplies.
5. Slide Brass Nut **2**, onto supply and outlet Tubing **3**.
6. Insert Tubing Adapter **4** onto the end of the Tubing **3**,
 - a. For -CU sweat Adapter **4** to Tube **3**
 - b. For -CPVC Glue Adapter **4** to end of tubing **3** using appropriate PVC Pipe Cement.
7. Insert Gasket **5** and Gasket **6** between PRV body **1** and Adapter **4** then tighten Hex Nut **2**.
8. Slowly turn on supplies, check for leaks and tighten Hex Nut **2** if needed.



! IMPORTANT
Verify the Flow Direction Indicator Arrow with direction of water supply flow.

INSTALLATION: -PEX

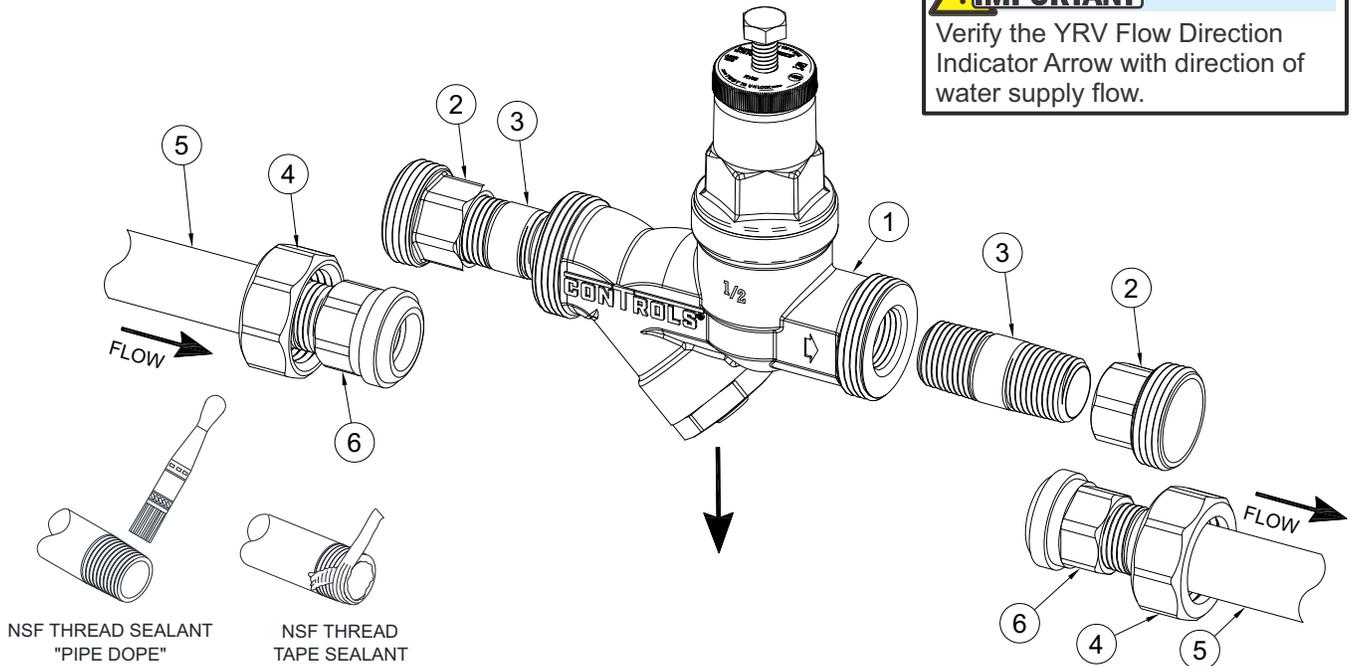
1. Repeat sets 1 - 4 of previous install and continue with the following steps.
5. Slide Brass Nut **2** and installer provided Gripper/ Clamp **3** onto the end of Tubing **4**
6. Insert PEX Adapter **5** into Tubing **4** and tighten Crimp Rings **3**.
7. Insert Gasket **6** between PRV body **1** and Adapter **5** then tighten Hex Nut **2**.
6. Slowly turn on supplies, check for leaks and tighten Hex Nut **2** if needed.



INSTALLATION: -NPT NO ADAPTERS

- Repeat sets 1 - 4 of previous install and continue with the following steps.
- Using NSF pipe tape or pipe dope assemble installer provided Male Half 2 and pipe nipple 3 to YRV 1.
- Slide Nut 4 over supply ends 5 and attach Female Half 6 to supply ends 5.
- Insert assembled YRV assembly 1 between Female halves 6 and tight Nuts 4.
- Slowly turn on supplies, check for leaks and tighten as needed.

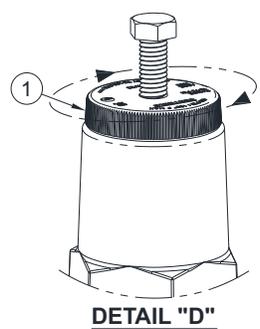
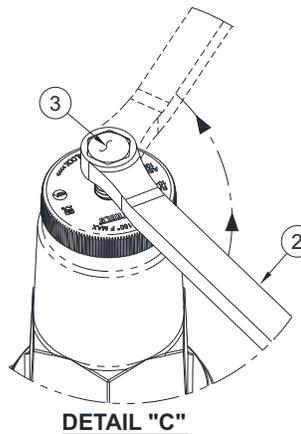
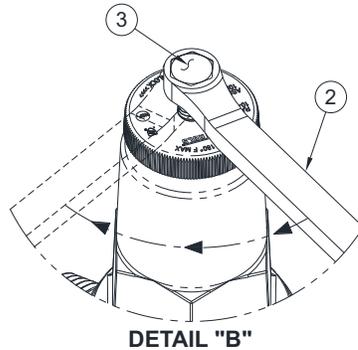
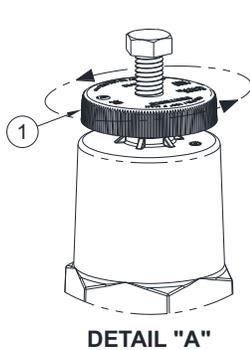
!IMPORTANT
Verify the YRV Flow Direction Indicator Arrow with direction of water supply flow.



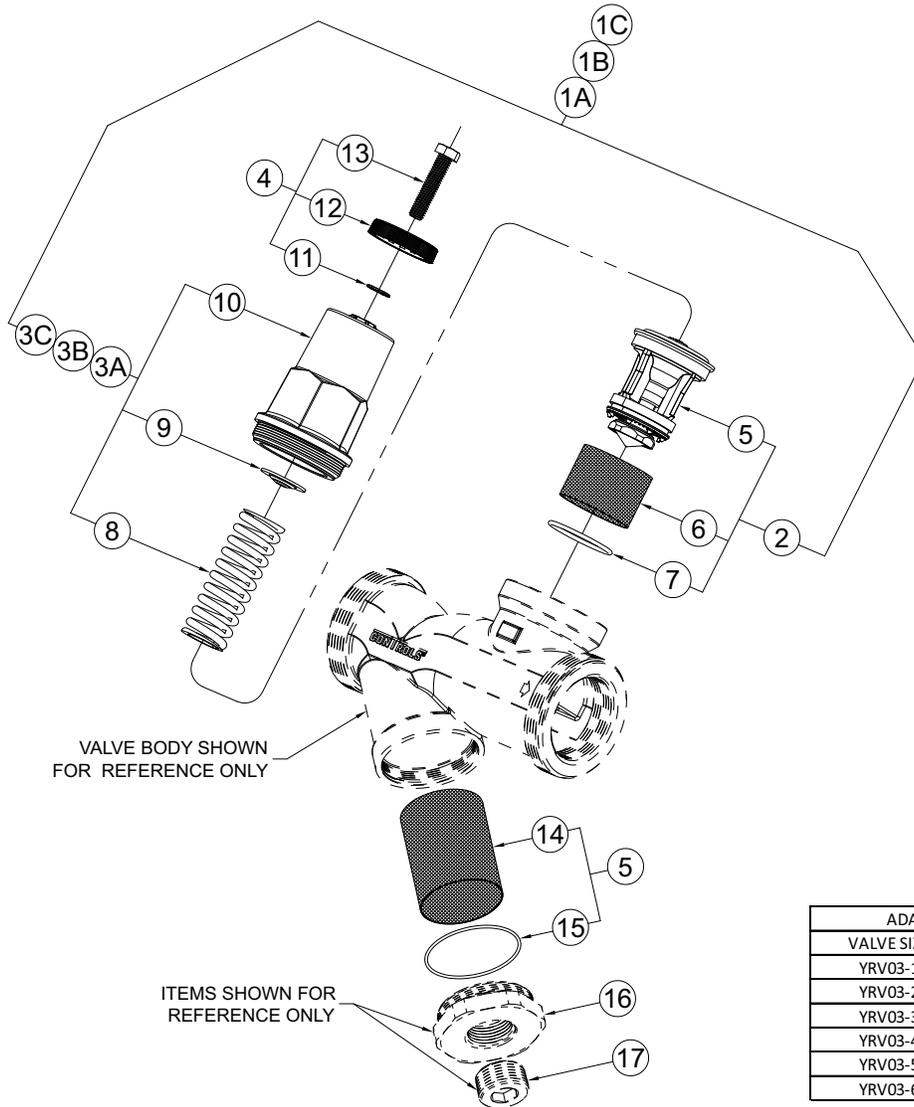
PRESSURE ADJUSTMENT:

- In order for most accurate water pressure adjustment, it is recommended to use a Pressure Gauge downstream from PRV.
- Twist Locking Cap 1 counter-clock-wise to loosen. (DETAIL A)
- To increase downstream water pressure, using a wrench 2 turn Adjusting Bolt 3 clockwise until desired pressure is reached (DETAIL B). Do not bottom out adjustment bolt on housing.
- To decrease downstream water pressure, using a wrench 2 turn Adjusting Bolt 3 counter-clockwise until desired pressure is reached (DETAIL C).
- Once desired pressure is reached twist Locking Cap 1 clockwise until tight. (DETAIL D)

!IMPORTANT Following adjustments:
Verify downstream water pressure to ensure is properly set and within applicable Code requirements.



REPAIR PARTS: YRV03-1 THROUGH 6 (STANDARD SPRING)



ADAPTER GASKET KITS	
VALVE SIZE	KIT NUMBER (10 PK)
YRV03-1	7816-128-001
YRV03-2	7816-128-001
YRV03-3	7852-205-001
YRV03-4	7853-205-001
YRV03-5	7854-204-001
YRV03-6	7855-209-001

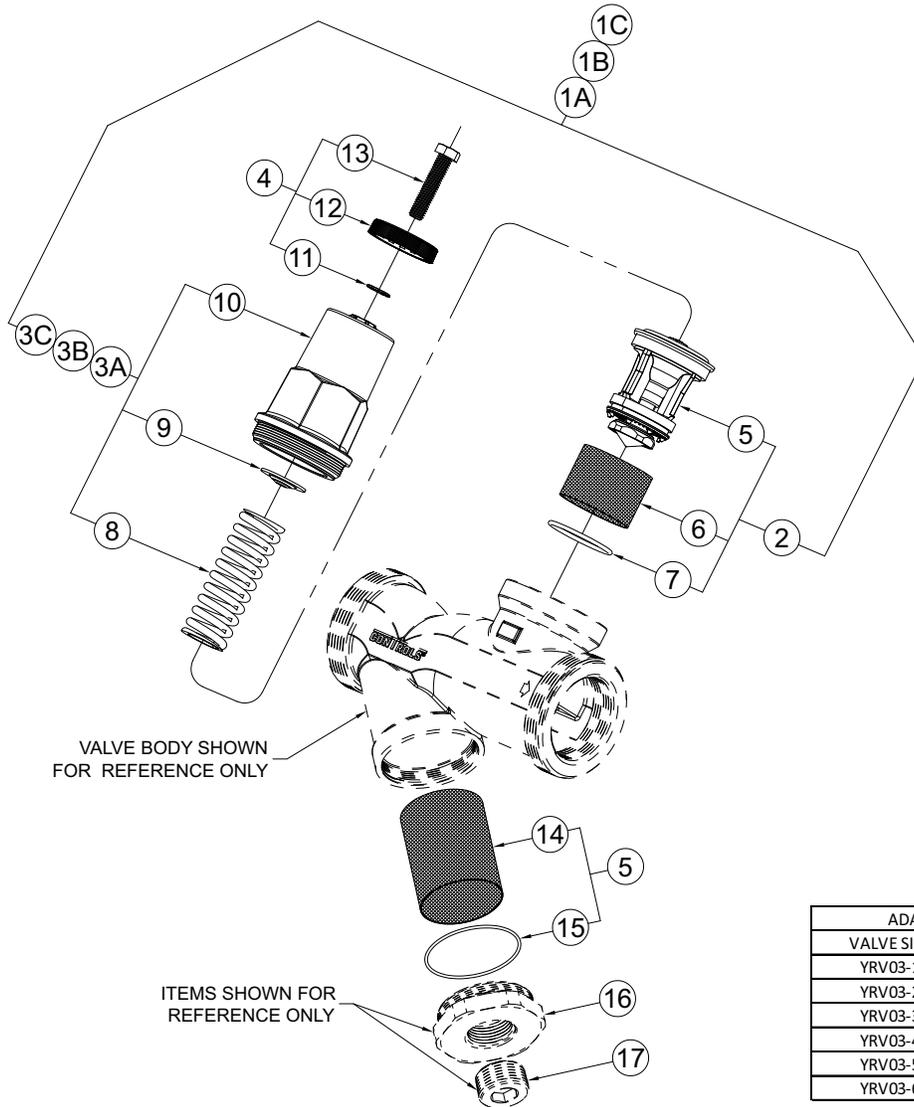
ITEM	DESCRIPTION	YRV03PO-1 KIT NUMBER	YRV03PO-2 KIT NUMBER	YRV03PO-3 KIT NUMBER	YRV03PO-4 KIT NUMBER	YRV03PO-5 KIT NUMBER	YRV03PO-6 KIT NUMBER
1A	COMPLETE REBUILD KIT (PLASTIC)	7851-500-001	7851-500-001	7852-500-001	7855-500-001	7855-500-001	7855-500-001
2	INTERNAL REBUILD KIT	7850-501-001	7850-501-001	7852-501-001	7855-501-001	7855-501-001	7855-501-001
3A	BONNET REBUILD KIT (PLASTIC)	7851-502-002	7851-502-002	7852-502-002	7855-502-002	7855-502-002	7855-502-002
4	ADJUSTMENT/LOCKING KIT	7851-503-001	7851-503-001	7855-503-001	7855-503-001	7855-503-001	7855-503-001
5	Y-STRAINER KIT	7851-506-001	7851-506-001	7855-506-001	7855-506-001	7855-506-001	7855-506-001

ITEM	DESCRIPTION	YRV03SO-1 KIT NUMBER	YRV03SO-2 KIT NUMBER	YRV03SO-3 KIT NUMBER	YRV03SO-4 KIT NUMBER	YRV03SO-5 KIT NUMBER	YRV03SO-6 KIT NUMBER
1B	COMPLETE REBUILD KIT (STEEL)	7851-500-003	7851-500-003	7852-500-003	7855-500-003	7855-500-003	7855-500-003
3B	BONNET REBUILD KIT (STEEL)	7851-502-003	7851-502-003	7852-502-003	7855-502-003	7855-502-003	7855-502-003

ITEM	DESCRIPTION	YRV03BO-1 KIT NUMBER	YRV03BO-2 KIT NUMBER	YRV03BO-3 KIT NUMBER	YRV03BO-4 KIT NUMBER	YRV03BO-5 KIT NUMBER	YRV03BO-6 KIT NUMBER
1C	COMPLETE REBUILD KIT (BRASS)	7851-500-005	7851-500-005	7852-500-005	7855-500-005	7855-500-005	7855-500-005
3C	BONNET REBUILD KIT (BRASS)	7851-500-005	7851-500-005	7852-500-005	7855-500-005	7855-500-005	7855-500-005

ITEM	DESCRIPTION	ITEM	DESCRIPTION	ITEM	DESCRIPTION
5	CARTRIDGE ASSEMBLY	10	BONNET	15	STRAINER BONNET O-RING
6	28x28 STAINLESS STEEL MESH	11	WEDGE LOCK WASHER	16	STRAINER BONNET
7	CARTRIDGE O-RING	12	LOCKING CAP	17	STRAINER BONNET PLUG
8	SPRING	13	ADJUSTING BOLT		
9	SPRING RETAINER	14	Y-MESH STRAINER 20x20		

REPAIR PARTS: YRV03-1 THROUGH 6 (MODELS w/ HIGH PRESSURE SPRING)



ADAPTER GASKET KITS	
VALVE SIZE	KIT NUMBER (10 PK)
YRV03-1	7816-128-001
YRV03-2	7816-128-001
YRV03-3	7852-205-001
YRV03-4	7853-205-001
YRV03-5	7854-204-001
YRV03-6	7855-209-001

ITEM	DESCRIPTION	YRV03PH-1 KIT NUMBER	YRV03PH-2 KIT NUMBER	YRV03PH-3 KIT NUMBER	YRV03PH-4 KIT NUMBER	YRV03PH-5 KIT NUMBER	YRV03PH-6 KIT NUMBER
1A	COMPLETE REBUILD KIT (PLASTIC)	7851-500-002	7851-500-002	7852-500-002	7855-500-002	7855-500-002	7855-500-002
2	INTERNAL REBUILD KIT	7850-501-001	7850-501-001	7852-501-001	7855-501-001	7855-501-001	7855-501-001
3A	BONNET REBULD KIT (PLASTIC)	7851-502-002	7851-502-002	7852-502-002	7855-502-002	7855-502-002	7855-502-002
4	ADJUSTMENT/LOCKING KIT	7851-505-001	7851-505-001	7855-505-001	7855-505-001	7855-505-001	7855-505-001
5	STRAINER & O-RING	7851-506-001	7851-506-001	7855-506-001	7855-506-001	7855-506-001	7855-506-001

ITEM	DESCRIPTION	YRV03SH-1 KIT NUMBER	YRV03SH-2 KIT NUMBER	YRV03SH-3 KIT NUMBER	YRV03SH-4 KIT NUMBER	YRV03SH-5 KIT NUMBER	YRV03SH-6 KIT NUMBER
1B	COMPLETE REBUILD KIT (STEEL)	7851-500-004	7851-500-004	7852-500-004	7855-500-004	7855-500-004	7855-500-004
3B	BONNET REBULD KIT (STEEL)	7851-502-004	7851-502-004	7852-502-004	7855-502-004	7855-502-004	7855-502-004

ITEM	DESCRIPTION	YRV03BH-1 KIT NUMBER	YRV03BH-2 KIT NUMBER	YRV03BH-3 KIT NUMBER	YRV03BH-4 KIT NUMBER	YRV03BH-5 KIT NUMBER	YRV03BH-6 KIT NUMBER
1C	COMPLETE REBUILD KIT (BRASS)	7851-500-006	7851-500-006	7852-500-006	7855-500-006	7855-500-006	7855-500-006
3C	BONNET REBULD KIT (BRASS)	7851-502-006	7851-502-006	7852-502-006	7855-502-006	7855-502-006	7855-502-006

ITEM	DESCRIPTION	ITEM	DESCRIPTION	ITEM	DESCRIPTION
5	CARTRIDGE ASSEMBLY	10	BONNET	15	STRAINER BONNET O-RING
6	28x28 STAINLESS STEEL MESH	11	WEDGE LOCK WASHER	16	STRAINER BONNET
7	CARTRIDGE O-RING	12	LOCKING CAP	17	STRAINER BONNET PLUG
8	SPRING	13	ADJUSTING BOLT		
9	SPRING RETAINER	14	Y-STRAINER MESH 20x20		