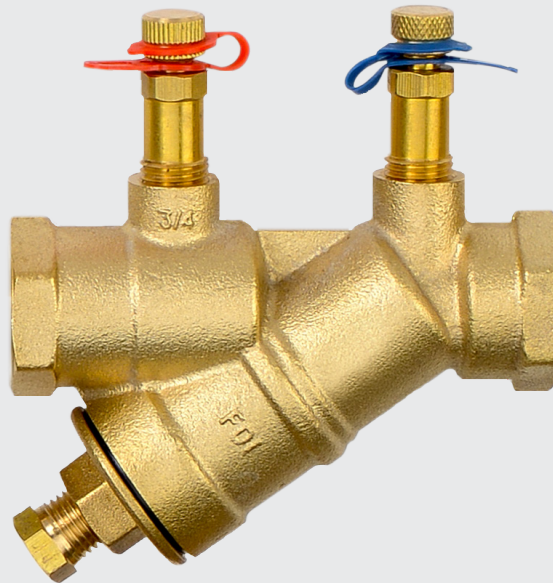



YR

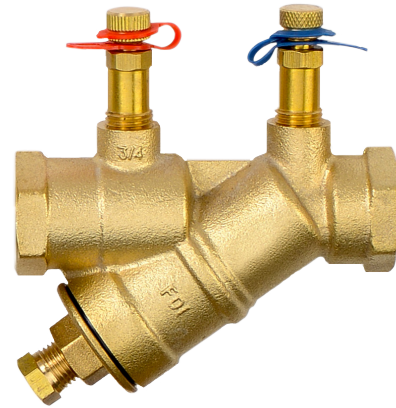


**Automatic Balancing Valves**  
Flow regulator & port section

  
*Engineering  
GREAT Solutions*

# YR

AutoFlow regulator, factory set to automatically limit the flow to within 5% of the specified amount over 95% of the control range. The flow cartridge is removable from the valve body to provide access for regulator changeout, inspection and cleaning without breaking the main piping. Internal wear surfaces of the valve cartridge are stainless steel. Pressure / Temperature ports are standard.



## Key features

- > **Flow Regulator**  
Less wasted pumping
- > **Tamper Resistant**
- > **Removable Flow Cartridge**

## Technical description

**Application:**  
Hydronic Balancing

**Functions:**  
Flow regulator

**Dimensions:**  
1/2" - 2 1/2"

**Pressure class:**  
400 psig at 250° F

**Accuracy:**  
± 5%

**Material:**  
Body: DZR Brass

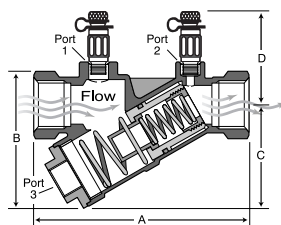
## Flow Rate

Size	psid Range	Flow Rate (gpm)
1/2" - 3/4"	2 - 32	0.33, 0.5, 0.67, 0.75, 0.88, 1.0, 1.1, 1.25, 1.5, 1.75, 2.0, 2.25, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 6.0, 7.0, 8.0
	5 - 60	1.0, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10, 11, 12
1" - 1 1/4"	2 - 32	0.5, 0.75, 1.0, 1.25, 1.5, 1.75, 2.0, 2.25, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 6.0, 7.0, 8.0, 9.0, 10, 11, 12, 13, 14, 15, 16, 17, 18
	5 - 60	1.0, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26
1 1/2" - 2"	2 - 32	5.0, 6.0, 7.0, 8.0, 9.0, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50
	5 - 60	8.0, 9.0, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70
2 1/2"	2 - 32	9.0, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 56, 60, 64, 68, 72, 76, 80
	5 - 60	13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 76, 80, 84, 88, 92, 96, 100, 104, 108, 112, 116, 120

Size	kPa Range	Flow Rate (lps)
15 - 20 mm	14 - 220	0.02, 0.03, 0.04, 0.05, 0.06, 0.06, 0.07, 0.08, 0.09, 0.11, 0.13, 0.14, 0.16, 0.19, 0.22, 0.25, 0.28, 0.32, 0.38, 0.44, 0.50
	35 - 414	0.06, 0.09, 0.13, 0.16, 0.19, 0.25, 0.32, 0.38, 0.44, 0.50, 0.57, 0.63, 0.69, 0.76
25 - 32 mm	14 - 220	0.03, 0.05, 0.06, 0.08, 0.09, 0.11, 0.13, 0.14, 0.16, 0.19, 0.22, 0.25, 0.28, 0.32, 0.38, 0.44, 0.57, 0.63, 0.69, 0.76, 0.82, 0.88, 0.95, 1.01, 1.07, 1.14
	35 - 414	0.06, 0.09, 0.13, 0.16, 0.19, 0.25, 0.32, 0.38, 0.44, 0.50, 0.57, 0.63, 0.69, 0.76, 0.82, 0.88, 0.95, 1.01, 1.07, 1.14, 1.20, 1.26, 1.32, 1.39, 1.45, 1.51, 1.58, 1.64, 1.70
40 - 50 mm	14 - 220	0.32, 0.38, 0.44, 0.50, 0.57, 0.63, 0.69, 0.76, 0.82, 0.88, 0.95, 1.01, 1.14, 1.26, 1.39, 1.51, 1.64, 1.77, 1.89, 2.02, 2.15, 2.27, 2.40, 2.52, 2.65, 2.78, 2.90, 3.03, 3.15
	35 - 414	0.50, 0.57, 0.63, 0.69, 0.76, 0.82, 0.88, 0.95, 1.01, 10.7, 1.14, 1.20, 1.26, 1.32, 1.39, 1.45, 1.51, 1.58, 1.64, 1.77, 1.89, 2.02, 2.15, 2.27, 2.40, 2.52, 2.65, 2.78, 2.90, 3.03, 3.15, 3.28, 3.41, 3.53, 3.66, 3.79, 3.91, 4.04, 4.16, 4.29, 4.42
65 mm	14 - 220	0.57, 0.63, 0.69, 0.76, 0.82, 0.88, 0.95, 1.01, 1.07, 1.14, 1.26, 1.39, 1.51, 1.64, 1.77, 1.89, 2.02, 2.15, 2.27, 2.40, 2.52, 2.65, 2.78, 2.90, 3.03, 3.15, 3.28, 3.53, 3.79, 4.04, 4.29, 4.54, 4.79, 5.05
	35 - 414	0.82, 0.88, 0.95, 1.01, 1.07, 1.14, 1.20, 1.26, 1.32, 1.39, 1.45, 1.51, 1.58, 1.64, 1.77, 1.89, 2.02, 2.15, 2.27, 2.40, 2.52, 2.65, 2.78, 2.90, 3.03, 3.15, 3.28, 3.41, 3.53, 3.66, 3.79, 3.91, 4.04, 4.16, 4.29, 4.42, 4.54, 4.79, 5.05, 5.30, 5.55, 5.80, 6.06, 6.31, 6.56, 6.81, 7.07, 7.32, 7.57

## Articles



### Nominal Dimensions & Weights / Cv Rates

Model	Size in. / (mm)	A	B	C	D	Weight	Cv (Kv)	Maximum gpm (lps*) Control Range psid (kPa)	
								2-32	5.60
YR0050S	1/2 (15)	3.7 (93)	2.3 (59)	1.9 (49)	2.2 (55)	0.9 (.41)	7.6 (55)	8 (.5)	12 (.8)
YR0050F	1/2 (15)	4.0 (101)	2.5 (64)	1.9 (49)	2.2 (55)	0.9 (.41)	7.6 (55)	8 (.5)	12 (.8)
YR0075S	3/4 (20)	4.1 (103)	2.5 (63)	1.9 (49)	2.2 (55)	1.1 (.45)	8.7 (55)	8 (.5)	12 (.8)
YR0075F	3/4 (20)	4.2 (106)	2.6 (67)	1.9 (49)	2.2 (55)	1.1 (.45)	8.7 (55)	8 (.5)	12 (.8)
YR0100S	1 (25)	5.3 (136)	3.2 (80)	2.5 (64)	2.3 (58)	1.9 (.86)	15.3 (58)	18 (1.1)	26 (1.6)
YR0100F	1 (25)	5.5 (140)	3.4 (86)	2.5 (64)	2.3 (58)	1.9 (.86)	15.3 (58)	18 (1.1)	26 (1.6)
YR0125F	1 1/4 (32)	5.8 (148)	3.6 (90)	2.5 (64)	3.1 (80)	2.1 (.95)	15.2 (80)	18 (1.1)	26 (1.6)
YR0150F	1 1/2 (40)	7.0 (177)	5.3 (134)	4.1 (104)	2.5 (64)	4.0 (1.81)	38.7 (64)	50 (3.2)	70 (4.4)
YR0200F	2 (50)	7.1 (179)	5.5 (140)	4.1 (104)	2.8 (70)	6.0 (2.04)	42.1 (70)	50 (3.2)	70 (4.4)
YR0250F	2 1/2 (65)	9.0 (230)	7.0 (177)	5.2 (132)	2.9 (73)	9.0 (3.63)	87.2 (73)	50 (5.0)	120 (7.6)

### Notes

Weights based on F X F connections and will vary with mixed options/connections.

All weights and dimensions are subject to minor changes.

Cv's based on component body without flow regulator.

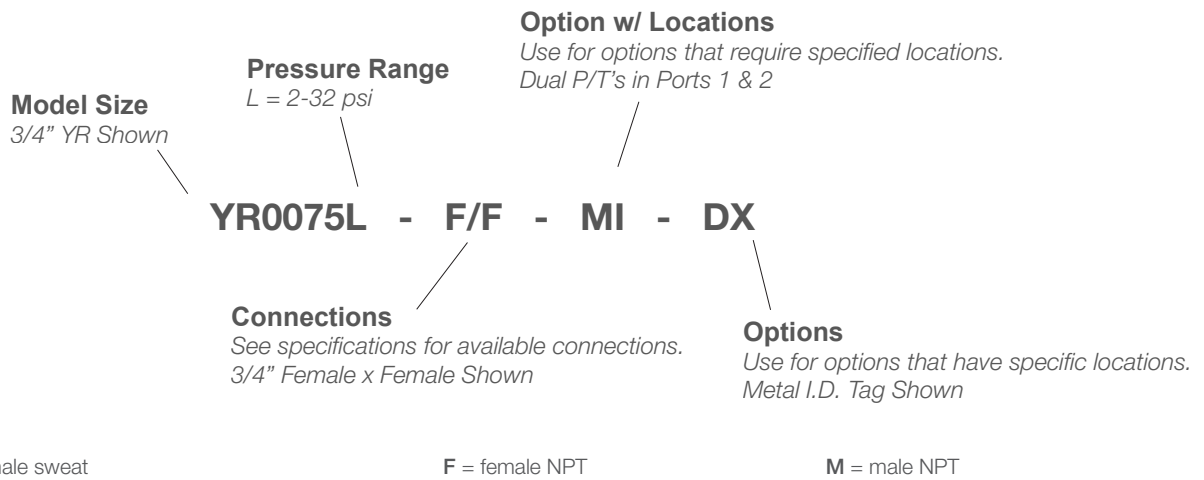
1 1/4" - 2 1/2" available with sweat adapter

Available ISO7

3 ports only available

†For pump head calculations, add the indicated pressure drop of 4.6 ft (14 kPa) for 2-32 (14-220) or 11.6 ft (35 kPa) for 5-60 (35-414) to calculated drops for other components

## Model Order Designation



## Options Available

- DX** Dual Extended P/T Port
- HN** Hose End Drain Valve
- MI** Metal Tag
- PI** Plastic Tag

- PP** ProPress Fitting
- PI** Plastic Tag
- SE** Stem Extender
- T2** 1/2" FPT Tap - For YW Port 1

