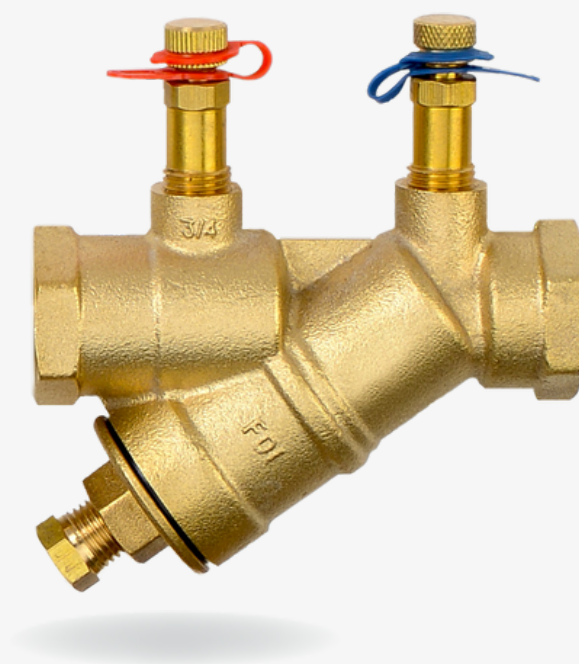


YR



Automatic Balancing Valves
Flow regulator & port section

IMI Flow Design

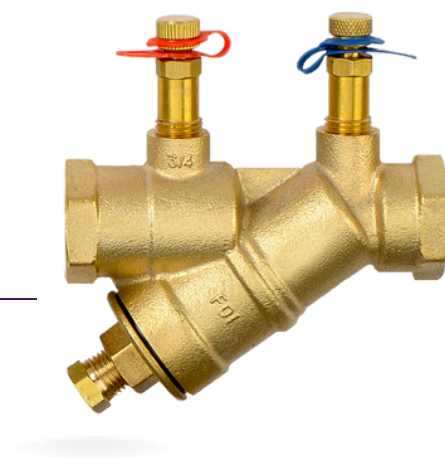
Breakthrough
engineering for
a better world

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, in spection 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

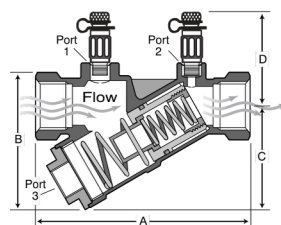
Accuracy:
± 5%

Material:
Body: CRZ 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, 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
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, 3.41, 3.53, 3.66, 3.79, 3.91, 4.04, 4.16, 4.29, 4.42, 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
YR050S	1/2 (15)	3.7 (93)	2.3 (59)	1.9 (49)	2.2 (55)	0.9 (.41)	7.6 (7.6)	8 (.5)	12 (.8)
YR050F	1/2 (15)	4.0 (101)	2.5 (64)	1.9 (49)	2.2 (55)	0.9 (.41)	8.7 (8.7)	8 (.5)	12 (.8)
YR075S	3/4 (20)	4.1 (103)	2.5 (63)	1.9 (49)	2.2 (55)	1.1 (.45)	15.3 (58)	8 (.5)	12 (.8)
YR075F	3/4 (20)	4.2 (106)	2.6 (67)	1.9 (49)	2.2 (55)	1.1 (.45)	15.3 (58)	8 (.5)	12 (.8)
YR100S	1 (25)	5.3 (136)	3.2 (80)	2.5 (64)	2.3 (58)	1.9 (.86)	15.2 (80)	18 (1.1)	26 (1.6)
YR100F	1 (25)	5.5 (140)	3.4 (86)	2.5 (64)	2.3 (58)	1.9 (.86)	38.7 (64)	18 (1.1)	26 (1.6)
YR125F	1 1/4 (32)	5.8 (148)	3.6 (90)	2.5 (64)	3.1 (80)	2.1 (.95)	42.1 (70)	18 (1.1)	26 (1.6)
YR150F	1 1/2 (40)	7.0 (177)	5.3 (134)	4.1 (104)	2.5 (64)	4.0 (1.81)	87.2 (73)	50 (3.2)	70 (4.4)
YR200F	2 (50)	7.1 (179)	5.5 (140)	4.1 (104)	2.8 (70)	6.0 (2.04)		50 (3.2)	70 (4.4)
YR250F	2 1/2 (65)	9.0 (230)	7.0 (177)	5.2 (132)	2.9 (73)	9.0 (3.63)		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.

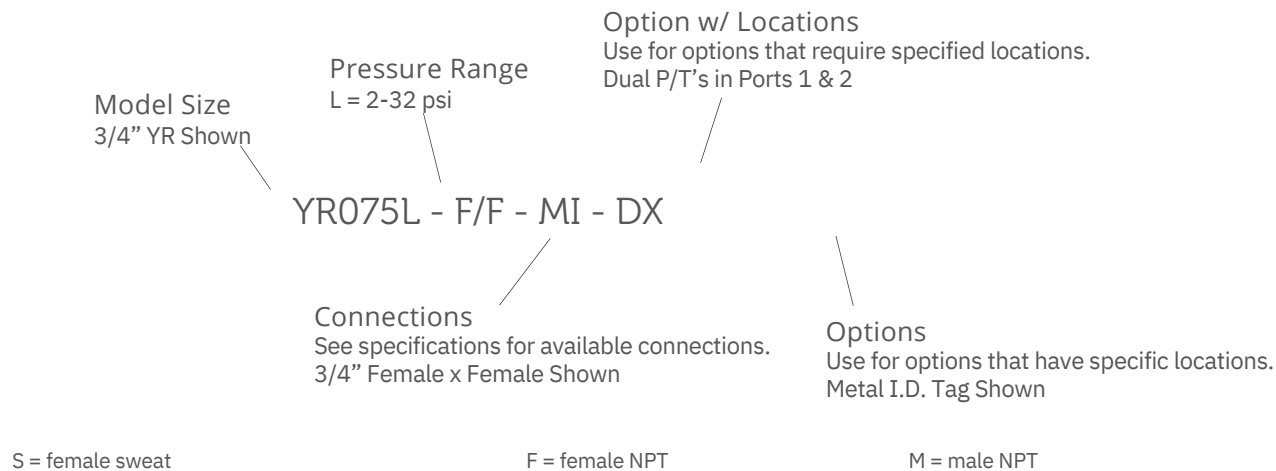
1 1/4" - 2 1/2" available with sweat adapter

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 Hose | PP ProPress Fitting |
| HN End Drain Valve | PI Plastic Tag |
| MI Metal Tag | SE Steam Extender |
| PI Plastic Tag | T2 1/2" FPT Tap - For YW Port 1 |



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