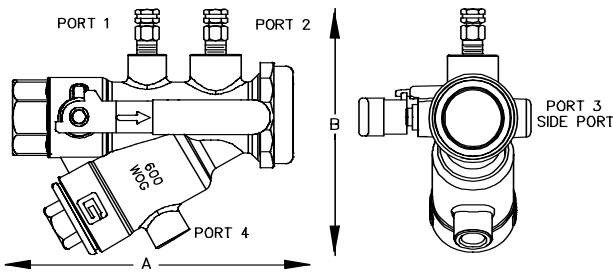
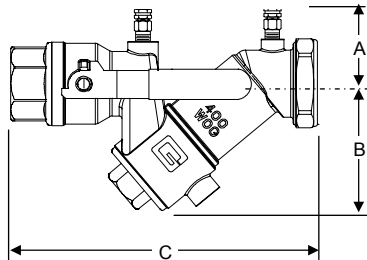


**1/2"-1-1/2" Housing**



**1-1/2"L-2" Housing**



**ACCESSIBLE CARTRIDGE**

**SPECIFICATIONS:**

- PSI/Temperature Rating:** 1/2"-1-1/2": 400 PSI / 250° F  
 1-1/2"L-2": 275 PSI / 250° F
- Cartridge:** AISI Type 304 stainless steel  
 AISI Type 17-7 PH stainless steel spring
- Strainer:** 20 mesh stainless steel
- Body Material:** 1/2"-1-1/2": Forged brass  
 1-1/2"L-2": Cast brass
- End Connections:** Brass
- Seals:** EPDM O-Rings
- Body Tappings:** Port 1 and 2: 1/4" NPT with P/T test valves, Port 4, Drain: 1/4" NPT in IY1, 1/2" NPT in IY2 and IY3
- Ball Valve:** Nickel-plated brass ball
- Assembly:** Valve comes fully assembled
- ACCESSORY OPTIONS:**
- Body Tappings:** Port 2: 1/2" NPT (Optional on IY1, IY2)  
 Port 3: 1/4" NPT (Optional)

**DIMENSIONS & WEIGHTS (NOMINAL)**

**1/2" - 1-1/2"**

SIZE	MODEL NO.	A LENGTH	B HEIGHT	END CONNECTIONS (INCHES) <sup>1</sup>			Cv <sup>2</sup>	WEIGHT (LBS.)
				FNPT	MNPT	FEMALE SWT		
1/2"	IY1_	5.50	4.88	.88	1.00	.88	8.4	2.6
3/4"	IY1_			.88	1.00	1.13		
1"	IY1_			N/A	1.32	1.25		
1 1/2"	IY2_	7.50	6.10	1.38	1.58	1.38	19.1	5.2
1-1/4"	IY2_			1.38	1.58	1.44		
1-1/2"	IY2_			1.38	1.62	1.37		

**1-1/2"L - 2"**

SIZE	MODEL NO.	A HEIGHT	B HEIGHT	C LENGTH <sup>3</sup>	UNION END CONNECTIONS (INCHES)			Cv <sup>4</sup>	WEIGHT (LBS.)
					FNPT	MNPT	FEMALE SWT		
1-1/2"	IY3_	2.58	3.94	9.50	1.57	1.58	1.64	37.00	7.00
2"		2.58	3.94	9.50	N/A	1.59	1.54	40.12	9.00

**NOTES**

- 1 Add end connection length to body length.
- 2 Cv's are based on housing with a clean 20 mesh strainer but without the cartridge.
- 3 Add union end connection length to body length.
- 4 Cv's are based on housing without cartridge.

Replaces form F-4093A and F-4203F

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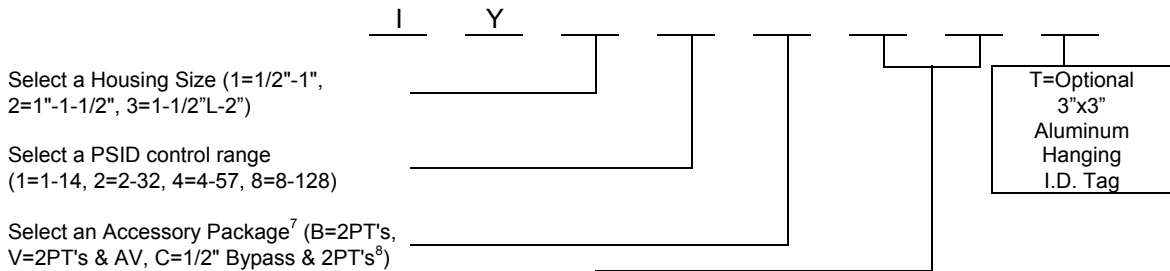
12/05  
 F-4093B



**FLOW RATES (+/-5%)**

SIZE	MODEL NO.	HEAD LOSS IN FEET <sup>5</sup>	PSID RANGE	GPM
1/2", 3/4", 1"	IY11	3.5	1-14	.33, .50, .67, 1.00, 1.33, 1.67, 2.00, 2.33, 2.67, 3.33, 4.00, 4.67, 5.00
	IY12	7.4	2-32	.55, .75, 1.00, 1.50, 2.00, 2.50, 3.00, 3.50, 4.00, 5.00, 6.00, 7.00, 8.00
	IY14	13.4	4-57	.75, 1.00, 1.33, 2.00, 2.67, 3.33, 4.00, 4.67, 5.33, 6.67, 8.00, 9.33, 10.00
	IY18	30.0	8-128	1.10, 1.50, 2.00, 3.00, 4.00, 5.00, 6.00, 7.00, 8.00, 10.0, 12.0, 14.0, 16.0
1", 1-1/4", 1-1/2"	IY21	3.5	1-14	3.0, 3.33, 4.00, 4.67, 5.33, 6.00, 6.67, 7.33, 8.00, 8.67, 9.33, 10.00, 10.67, 11.33, 12.00, 12.67, 13.33, 14.00, 14.67
	IY22	7.4	2-32	4.5, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0, 13.0, 14.0, 15.0, 16.0, 17.0, 18.0, 19.0, 20.0, 21.0, 22.0
	IY24	13.4	4-57	6.00, 6.67, 8.0, 9.33, 10.67, 12.0, 13.33, 14.67, 16.0, 17.33, 18.67, 20.00, 21.33, 22.67, 24.0, 25.33, 26.67, 28.0, 29.33
	IY28	30.0	8-128	9.0, 10.0, 12.0, 14.0, 16.0, 18.0, 20.0, 22.0, 24.0, 26.0, 28.0, 30.0, 32.0, 34.0, 36.0, 38.0, 40.0, 42.0, 44.0
1-1/2"L, 2"	IY31	3.5	1-14	12.0, 14.0, 16.0, 18.0, 20.0, 22.0, 24.0, 26.0, 28.0, 30.0, 32.0, 34.0, 36.0, 38.0
	IY32	7.4	2-32	18.0, 21.0, 24.0, 27.0, 30.0, 33.0, 36.0, 39.0, 42.0, 45.0, 48.0, 51.0, 54.0, 57.0
	IY34	13.4	4-57	24.0, 28.0, 32.0, 36.0, 40.0, 44.0, 48.0, 52.0, 56.0, 60.0, 64.0, 68.0, 72.0, 76.0
	IY38	30.0	8-128	36.0, 42.0, 48.0, 54.0, 60.0, 66.0, 72.0, 78.0, 84.0, 90.0, 96.0, 102, 108, 114

**MODEL NUMBER SELECTION<sup>6</sup>**



Valve	FIXED END OR UNION END <sup>9</sup>		UNION END ONLY <sup>9</sup>
	Female Threaded	Female Sweat	Male Threaded
IY1	1/2"=E, 3/4"=F, 1"=G <sup>10</sup>	3/8"=K, 1/2"=L, 3/4"=M, 1"=N	1/2"=H, 3/4"=I, 1"=J
IY2	1"=G, 1-1/4"=P, 1-1/2"=Q	1"=N, 1-1/4"=K, 1-1/2"=W	1/2"=H, 3/4"=I, 1"=J, 1-1/4"=S, 1-1/2"=T
IY3	1-1/4"=P, 1-1/2"=Q, 2"=R <sup>10</sup>	1-1/4"=K, 1-1/2"=W, 2"=Y	1-1/4"=S, 1-1/2"=T, 2"=U

**OPTIONS (ORDER AS SEPARATE LINE ITEMS)**

- IY1: 1-1/4" Handle Extension and two 1/4" by 1-1/4" extensions (Part Number 9666-60)
- IY1: 1-1/4" Handle Extension and three 1/4" by 1-1/4" extensions (Part Number 9666-61)
- IY1: 1/4" Drain Valve with hose bib adapter and cap (Part Number 9133-02)
- IY2: 1-1/4" Handle Extension and two 1/4" by 1-1/4" extensions (Part Number 9666-62)
- IY2: 1-1/4" Handle Extension and three 1/4" by 1-1/4" extensions (Part Number 9666-63)
- IY2: 1/2" Drain Valve with hose bib adapter and cap (Part Number 7342-24)
- IY3: 1-1/4" Handle Extension and two 1/4" by 1-1/4" extensions (Part Number 9666-64)

**NOTES**

<sup>5</sup> Head Loss in Feet is provided for pump head calculations. (1 PSI = 2.307 Feet of Water)

<sup>6</sup> Model no. and flow rate are indicated on label affixed to body.

<sup>7</sup> PT=Pressure Temperature Test Valve, AV=Manual Air Vent

<sup>8</sup> C=1/2" Bypass is only available on IY1 and IY2.

<sup>9</sup> Select the Fixed End First and the Union End Second.

<sup>10</sup> Tailpiece not available, threaded tailpiece used with an adapter.

Replaces form F-4093A and F-4203F

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- IY3: 1/2" Drain Valve with hose bib adapter and cap (Part Number 7342-24)