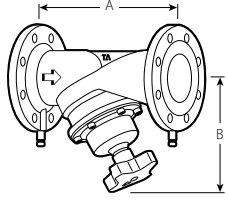


# Hydronic Balancing Products

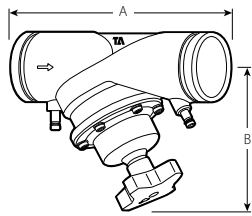
## Balancing Valve

**TA SERIES 788** Flanged End  
**TA SERIES 789** Grooved End

For Complete Information  
 Request Publication **08.16**



**TA SERIES 788**  
 TYPICAL 2½–16”/65–400mm SIZES



**TA SERIES 789**  
 TYPICAL 2½–12”/65–300mm SIZES

Size		TA Series 788 Flange End (250 psi/1720 kPa) Balancing Valve			TA Series 789 Groove End (350 psi/2400 kPa) Balancing Valve		
Nominal Size Inches mm	Actual Outside Diameter Inches mm	A End to End Inches mm	B Height Inches mm	Approx. Weight Each Lbs. kg	A End to End Inches mm	B Height Inches mm	Approx. Weight Each Lbs. kg
2½ 65	2.875 73.0	11.38 289	8.00 203	24.0 10.9	11.38 289	8.00 203	14.0 6.4
3 80	3.500 88.9	12.25 311	8.63 219	31.0 14.1	12.25 311	8.63 219	20.0 9.1
4 100	4.500 114.3	13.75 350	9.44 240	43.0 19.6	13.75 350	9.44 240	31.0 14.1
5 125	5.563 141.3	15.75 400	10.88 276	62.0 28.5	15.75 400	10.88 276	50.0 22.7
6 150	6.625 168.3	18.88 480	11.25 286	82.0 37.5	18.88 480	11.25 286	69.0 31.3
8 200	8.625 219.1	23.63 600	17.00 432	168.0 76.5	23.63 600	17.00 432	140.0 63.7
10 250	10.750 273.0	28.75 730	17.75 451	270.0 122.9	28.75 730	17.75 451	202.0 91.9
12 300	12.750 323.9	33.50 851	19.00 483	360.0 163.9	33.50 851	19.00 483	280.0 127.4

### VALVE SELECTION GUIDE

Size		TA Series 788 Flange End (250 psi/1720 kPa) Balancing Valve			TA Series 789 Groove End (350 psi/2400 kPa) Balancing Valve		
Nominal Size Inches mm	Actual Outside Diameter Inches mm	Minimum Flow GPM LPM	Nominal Flow GPM LPM	Maximum Flow GPM LPM	Minimum Flow GPM LPM	Nominal Flow GPM LPM	Maximum Flow GPM LPM
2½ 65	2.875 73.0	1.40 5.30	92.0 348.2	290.0 1097.7	1.40 5.30	92.0 348.2	290.0 1097.7
3 80	3.500 88.9	1.50 5.68	130.0 492.1	410.0 1551.9	1.50 5.68	130.0 492.1	410.0 1551.9
4 100	4.500 114.3	1.90 7.19	200.0 757.0	650.0 2460.3	1.90 7.19	200.0 757.0	650.0 2460.3
5 125	5.563 141.3	4.20 15.90	320.0 1211.2	1020.0 3860.7	4.20 15.90	320.0 1211.2	1020.0 3860.7
6 150	6.625 168.3	5.00 18.93	450.0 1703.3	1430.0 5412.6	5.00 18.93	450.0 1703.3	1430.0 5412.6
8 200	8.625 219.1	30.00 113.55	820.0 3103.7	2600.0 9841.0	30.00 113.55	820.0 3103.7	2600.0 9841.0
10 250	10.750 273.0	70.00 264.95	1280.0 4844.4	4040.0 15291.4	70.00 264.95	1280.0 4844.4	4040.0 15291.4
12 300	12.750 323.9	115.00 435.28	1550.0 5866.8	4950.0 18735.8	115.00 435.28	1550.0 5866.8	4950.0 18735.8

### IMPORTANT NOTES:

Balancing valves should be sized in relation to the GPM flows (and not in relation to pipeline size). The Minimum Flow is calculated from the minimum open setting of the valve and a minimum pressure drop 1 Ft. WG (= 3 kPa). The Nominal Flow is calculated from the maximum open setting of the valve and the minimum recommended pressure drop, 2 Ft. WG (= 6 kPa). The Maximum Flow is calculated from the maximum open setting of the valve and the maximum pressure drop, 20 Ft. WG (= 60 kPa). A computer program, TA-Select, is available from Tour & Andersson for calculation of pre-setting values and other applications.