

Description

From the Birflo range of flow control equipment. The Birflo range of products are designed and manufactured to the highest specification using top quality materials. The CONSTAFLO is a simple water flow controller using a patented device that ensures the maintenance of flow rates within $\pm 10\%$ of its rated capacity when operating within the limits of temperature and pressure specified below.

Operating Principle

A EP6523 diaphragm - working in conjunction with a profiled orifice - when subjected to pressure differences between 30 and 200 psi (2.12 and 14 kg/cm²) flexes on to the orifice to vary the orifice area, so maintaining a rate of flow irrespective of varying upstream or downstream pressures, within the operating range of the unit. An initial pressure drop of 30 psi (2.12 kg/cm²) is necessary before the unit reaches control point.

Operating Characteristics

| | |
|-----------------------------|-----------------------------------|
| Maximum Working Pressure | 200 psi (14kg/cm ²) |
| Maximum Working Temperature | 65°C |
| Minimum Working Temperature | 1°C |
| Maximum Pressure Difference | 200 psi (14kg/cm ²) |
| Minimum Pressure Difference | 15 psi (1.06 kg/cm ²) |

Accuracy $\pm 10\%$ when operating in the range 30 to 200 psi (2.12 to 14kg/cm²) pressure difference.
Lower pressure from 20 to 30 psi available upon request.

Materials

| | |
|------------|---|
| Marine | Controller Body and Orifice Plate Gunmetal BS 1400/LG2 - Kemetal |
| Commercial | Controller Body and Orifice Plate Gunmetal BS1400/LG2 Brass BS2874 CZ 1.4 - Kemetal |
| Diaphragm | EP6523 or Silicon (please specify) |
| Commercial | Version BSPT |
| Marine | Version BSPP |

Dimensions

| Commercial B.S.P.T. | Marine B.S.P.P.L. | Size A B.S.P.T. & B.S.P.P.L. | B in. | B mm | C in. | C mm |
|------------------------|----------------------|------------------------------------|----------------------------------|---------|-----------------------------------|---------|
| 112871 | 112881 | 1/4" | 1 ⁹ / ₃₂ " | 41 | 1 ¹ / ₃₂ " | 26 |
| 112872 | 112882 | 3/8" | 2 ¹ / ₃₂ " | 51 | 1 ¹ / ₄ " | 32 |
| 112873 | 112883 | 1/2" | 2 ³ / ₃₂ " | 53 | 1 ¹⁵ / ₃₂ " | 37 |
| 112874 | 112884 | 3/4" | 3 ¹ / ₃₂ " | 91 | 2 ⁷ / ₈ " | 73 |
| 112875 | 112885 | 1" | 3 ⁷ / ₃₂ " | 91 | 2 ⁷ / ₈ " | 73 |
| 112876 | 112886 | 1 1/4" | 6 ¹ / ₁₆ " | 157 | 5 ¹ / ₄ " | 133 |
| 112877 | 112887 | 1 1/2" | 8 ⁷ / ₈ " | 225 | 7 ³ / ₈ " | 187 |
| 112878 | 112888 | 2" | 10 ⁹ / ₈ " | 270 | 8 ³ / ₈ " | 213 |



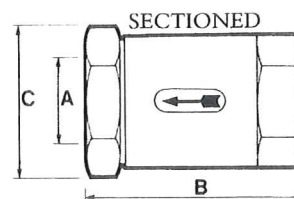
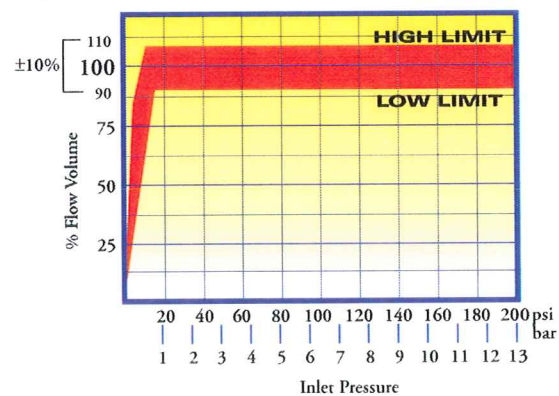
Constaflo: Sizes 1/4" to 1/2" BSPT and BSP/PL



Multi Constaflo: Sizes 3/4" to 2" BSPT and BSP/PL

Flow Graph

Graph shows constant delivery % Flow Volume



Ordering Details

| | IMP | | CONSTAFLO | | |
|-----------|-----------|-------|-----------|----------|-----------|
| | GALLS/MIN | L/MIN | 1/4" BSPT | 3/8"BSPT | 1/2" BSPT |
| Flow Data | 1/8 | .57 | 03 | - | - |
| | 1/4 | 1.14 | 09 | - | - |
| | 3/8 | 1.70 | 13 | - | - |
| | 1/2 | 2.30 | 17 | - | - |
| | 5/8 | 2.80 | 20 | - | - |
| | 3/4 | 3.40 | 21 | - | - |
| | 7/8 | 4.00 | 23 | 23 | 23 |
| | 1 | 4.50 | 24 | 24 | 24 |
| | 1 1/4 | 5.70 | 26 | 26 | 26 |
| | 1 1/2 | 6.80 | 28 | 28 | 28 |
| | 1 3/4 | 8.00 | 29 | 29 | 29 |
| | 2 | 9.00 | - | 30 | 30 |
| | 2 1/2 | 11.50 | - | 32 | 32 |
| | 3 | 13.50 | - | 34 | 34 |
| | 3 1/2 | 16.00 | - | 35 | 35 |
| | 4 | 18.00 | - | 36 | 36 |
| 4 1/2 | 20.50 | - | 37 | 37 | |
| 5 | 23.00 | - | 38 | 38 | |
| 6 | 27.00 | - | 40 | 40 | |

| | IMP | | MULTI-CONSTAFLO | | | | |
|-----------|-----------|--------|-----------------|--------|------------|------------|--------|
| | GALLS/MIN | L/MIN | 3/4"BSPT | 1"BSPT | 1 1/4"BSPT | 1 1/2"BSPT | 2"BSPT |
| Flow Data | 6 | 27.00 | 40 | 40 | - | - | - |
| | 7 | 32.00 | 43 | 43 | - | - | - |
| | 8 | 36.00 | 45 | 45 | - | - | - |
| | 9 | 41.00 | 47 | 47 | - | - | - |
| | 10 | 45.00 | 48 | 48 | - | - | - |
| | 11 | 50.00 | 50 | 50 | - | - | - |
| | 12 | 55.00 | 51 | 51 | - | - | - |
| | 13 | 59.00 | 53 | 53 | - | - | - |
| | 14 | 64.00 | 55 | 55 | - | - | - |
| | 15 | 68.00 | - | 56 | 56 | - | - |
| | 16 | 73.00 | - | 58 | 58 | - | - |
| | 17 | 77.00 | - | 59 | 59 | - | - |
| | 18 | 82.00 | - | 61 | 61 | - | - |
| | 20 | 90.91 | - | - | 63 | - | - |
| | 22 | 100.00 | - | - | 64 | - | - |
| | 24 | 109.00 | - | - | 65 | - | - |
| | 25 | 114.00 | - | - | 66 | - | - |
| | 26 | 118.00 | - | - | 67 | - | - |
| | 28 | 127.00 | - | - | 68 | - | - |
| | 30 | 136.00 | - | - | 69 | 69 | 69 |
| | 35 | 159.00 | - | - | 71 | 71 | 71 |
| | 40 | 182.00 | - | - | 73 | 73 | 73 |
| | 45 | 205.00 | - | - | - | 75 | 75 |
| | 50 | 227.00 | - | - | - | 77 | 77 |
| | 55 | 250.00 | - | - | - | 78 | 78 |
| | 60 | 277.00 | - | - | - | 80 | 80 |
| | 65 | 295.00 | - | - | - | 81 | 81 |
| | 70 | 318.00 | - | - | - | 83 | 83 |
| | 75 | 341.00 | - | - | - | 85 | 85 |
| | 80 | 363.00 | - | - | - | - | 87 |
| 85 | 386.00 | - | - | - | - | 89 | |
| 90 | 409.00 | - | - | - | - | 90 | |
| 95 | 432.00 | - | - | - | - | 93 | |
| 100 | 455.00 | - | - | - | - | 95 | |

For 1/4" Stainless quote 73150, also Flow Suffix above
 For 1/2" Stainless quote 73067, also Flow Suffix above

Also Available

In Stainless Steel EN58 (1/4" and 1/2" only), and M.O.D. (N) approved materials.

How to Order

Specify pipe size, duty, flow rate and model number.