

# FLOTEC INC

7625 West New York Street  
Indianapolis, Indiana 46214-4911  
Web Site: <http://www.floteco2.com>

317-273-6960  
Fax 317-273-6979

Order desk: 800-401-1723  
Order desk fax: 800-515-9254  
e-mail: [flotec@floteco2.com](mailto:flotec@floteco2.com)

## How to Order InGage Regulator

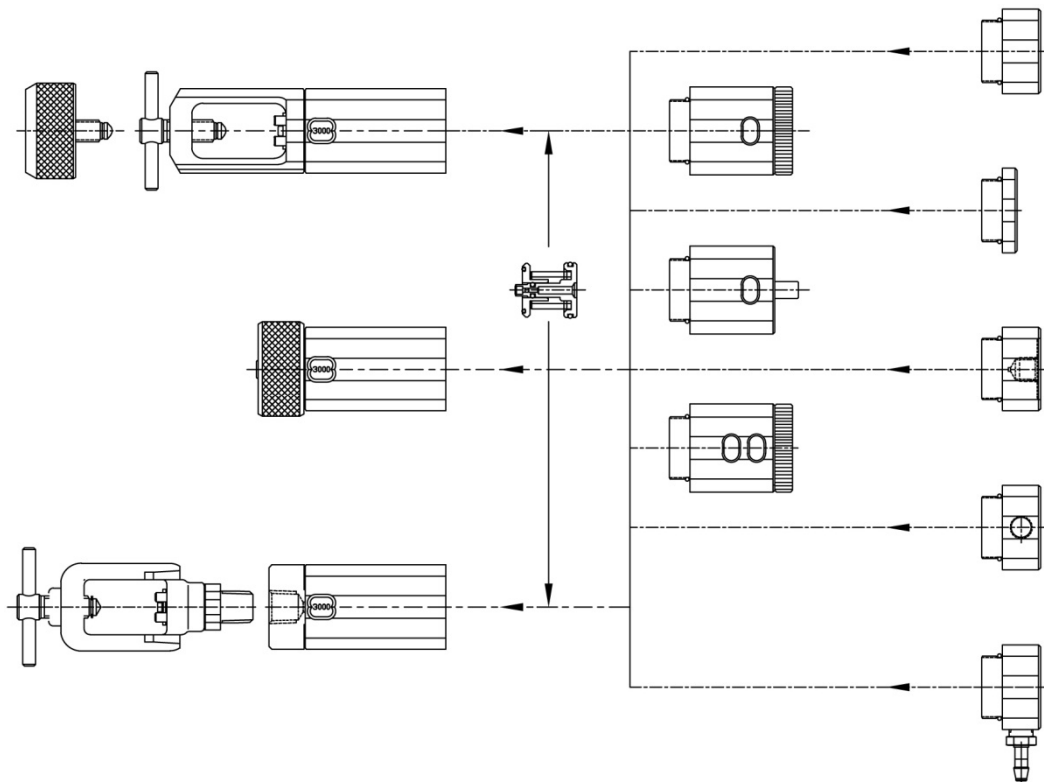
The InGage regulator consists of 2 modules, the body and the flowmeter, which are threaded together to form the complete regulator. To order it is necessary to SELECT and SPECIFY the features desired on each module. The B-InGage Code is used to identify and select these features. Begin with the body. Move across the list of options, select one from each section, and specify the code for that option. When finished, you will have an assembly number such as DR803. This number, for example identifies a:

- D - InGage Regulator
- R - 3000 PSI InGage @ 0 degrees w/ Yoke Anodized same as Body
- 8 - CGA 870 Yoke Swivel Body (Oxygen)
- 0 - No Pressure Body Outlets
- 3 - Dome-Handle
- 3 - Green Anodized Body

Now move to the Flowmeter. Following the same procedure will produce an assembly number such as 700P4. This number, for example identifies a:

- 7 - Large Diameter Knurled Knob
- 0 - Window @ 0 degrees & Hose Barb @ 180 degrees
- 0 - No Flow Cartridge Options
- 3 - Green Anodized Body
- P4 - 0 thru 8 LPM flow range (see B-Flows.123)

Combining the two assembly numbers will provide a complete regulator part number such as DR803-700P4.



----- FLOW CARTRIDGE CONFIGURATION:

- 6 - Cap
- 7 - Large Diameter Knurled Knob
- 8 - Shrouded Knob
- 9 - Double Window Large Knurled Knob
- A - Small Diameter Knurled Knob

----- COLOR OPTION:

- NONE - Lt Blue Anodized Body
- 2 - Silver Anodized Body
- 3 - Green Anodized Body
- 4 - Yellow Anodized Body
- 5 - Blue Anodized Body
- 6 - Red Anodized Body
- 7 - Brown Anodized Body
- 8 - Gold Anodized Body
- 9 - Black Anodized Body
- A - Purple Anodized Body
- B - Orange Anodized Body
- C - Camouflage, Desert Anodized Body
- G - Gold Plated Brass Body (No Aluminum)
- P - Pink Anodized Body
- T - Tri-Metal Plated Brass Body (No Aluminum)
- W - Camouflage, Woodland Anodized Body

WINDOW & CONTROLLED FLOW OUTLET POSITIONS:

- 0 - Window @ 0 & Hose Barb @ 180
- 1 - Window @ 0 & DISS-1240 Fitting @ 180
- 2 - Window @ 0 & 1/8" Female Pipe Port @ 180
- 4 - Window @ 270 & Hose Barb @ 180
- 5 - Window @ 270 & DISS-1240 Fitting @ 180
- 6 - Window @ 270 & 1/8" Female Pipe Port @ 180
- 7 - Window @ 0 & Hose Barb @ 0
- C - Window @ 0 & DISS-1160 Fitting @ 180
- D - Window @ 270 & DISS-1160 Fitting @ 180
- N - Window @ 0 & DISS-1240 Fitting & HBD2 @ 180
- U - Window @ 0 & Universal Adapter @ 180

-OR-

CAP OUTLET POSITIONS:

- 0 - Outlet on Centerline
- 2 - Outlet @ 0
- 3 - Outlet @ 90
- 6 - Outlet @ 180
- 9 - Outlet @ 270

INLET CONNECTION:

- 1 - CGA 580 Hex Nut & Nipple Assembly (Nitrogen)
- 2 - 1/4" Female Pipe Port
- 3 - CGA 973 Yoke Assembly (Medical Gas Mix)
- 4 - CGA 346 Knurled Nut & Nipple (Medical Air)
- 5 - CGA 540 Knurled Nut & Nipple (Oxygen)
- 6 - CGA 965 Yoke Swivel Body (Nitrous Oxide/Oxygen Mix)
- 7 - CGA 940 Yoke Assembly (Carbon Dioxide >7%/Oxygen Mix)
- 8 - CGA 870 Yoke Swivel Body (Oxygen)
- 9 - CGA 950 Yoke Swivel Body (Medical Air)
- A - CGA 500 Hex Nut & Nipple Assembly (Medical Gas Mix)
- B - CGA 280 Knurled Nut & Nipple (Helium 80%/Oxygen 20% Mix)
- C - CGA 320 Hex Nut & Nipple Assembly (Carbon Dioxide)
- D - CGA 960 Yoke Assembly (Nitrogen)
- E - CGA 890 Yoke Swivel Body (Helium 70%/Oxygen 30% Mix)
- F - CGA 280 Knurled Nut & Nipple (Helium 70%/Oxygen 30% Mix)
- G - DIN 477-9 Hex Nut & Nipple (Oxygen)
- H - CGA 280 Knurled Nut & Nipple (Helium 60%/Oxygen 40% Mix)
- J - CGA 910 Yoke Assembly (Nitrous Oxide)
- K - CGA 930 Yoke Assembly (Helium >80%/Oxygen Mix)
- L - CGA 880 Yoke Assembly (Carbon Dioxide < 7%/Oxygen Mix)
- M - CGA 890 Yoke Swivel Body (Helium 80%/Oxygen 20% Mix)
- N - CGA 660 Hex Nut & Nipple Assembly (Nitric Oxide)
- P - CGA 347 Knurled Nut & Nipple (High Pressure Medical Air)
- Q - CGA 580 Hex Nut & Nipple Assembly (Helium)
- R - CGA 626 Hex Nut & Nipple (Nitric Oxide Mix)
- S - Swedish Standard 36 76 15 annex E1 (W21.8 x 1-1/4 (Oxygen)
- T - CGA 280 Knurled Nut & Nipple (Carbon Dioxide < 7%/Oxygen Mix)
- U - British Standard Nut & Nipple BS 341 # 3
- X - CGA 326 Nut & Nipple Assembly (Nitrous Oxide)

----- GAUGE & BODY CONFIGURATIONS:

- 0 - No Gauge
- 2 - 3000 PSI INGAGE @ 0 degrees w/ Silver Anodized Yoke
- 3 - 3000 PSI INGAGE @ 0 degrees w/ Green Anodized Yoke
- 4 - 3000 PSI INGAGE @ 0 degrees w/ Yellow Anodized Yoke
- 5 - 3000 PSI INGAGE @ 0 degrees w/ Blue Anodized Yoke
- 6 - 3000 PSI INGAGE @ 0 degrees w/ Red Anodized Yoke
- 7 - 3000 PSI INGAGE @ 0 degrees w/ Brown Anodized Yoke
- 8 - 3000 PSI INGAGE @ 0 degrees w/ Gold Anodized Yoke
- 9 - 3000 PSI INGAGE @ 0 degrees w/ Black Anodized Yoke
- A - 3000 PSI INGAGE @ 0 degrees w/ Purple Anodized Yoke
- B - 3000 PSI INGAGE @ 0 degrees w/ Orange Anodized Yoke
- C - 3000 PSI INGAGE @ 0 degrees w/ Yoke Anodized same as Body (Reconditioned)
- D - 3000 PSI INGAGE @ 270 degrees w/ Silver Anodized Yoke
- E - 3000 PSI INGAGE @ 270 degrees w/ Green Anodized Yoke
- F - 3000 PSI INGAGE @ 270 degrees w/ Yellow Anodized Yoke
- G - 3000 PSI INGAGE @ 270 degrees w/ Blue Anodized Yoke
- H - 3000 PSI INGAGE @ 270 degrees w/ Red Anodized Yoke
- J - 3000 PSI INGAGE @ 270 degrees w/ Brown Anodized Yoke
- K - 3000 PSI INGAGE @ 270 degrees w/ Gold Anodized Yoke
- L - 3000 PSI INGAGE @ 270 degrees w/ Black Anodized Yoke
- M - 3300 PSI INGAGE @ 270 degrees w/ Purple Anodized Yoke
- N - 3000 PSI INGAGE @ 270 degrees w/ Orange Anodized Yoke
- P - 20 Mpa INGAGE @ 270 degrees w/ Green Anodized Yoke
- R - 3000 PSI INGAGE @ 0 degrees w/ Yoke Anodized same as Body
- S - 3000 PSI INGAGE @ 270 degrees w/ Yoke Anodized same as Body
- T - 3000 PSI INGAGE @ 0 degrees w/ Gold Plated Brass Body (No Aluminum)
- U - 3000 PSI INGAGE @ 0 degrees w/ Tri-Metal Plated Brass Body (No Aluminum)
- V - 200 BAR INGAGE @ 0 degrees w/ Yoke Anodized same as Body

----- PRODUCT GROUP:  
D - Ingage Line

## ----- FLOW RANGE:

See B-Flows  
chart for part  
number and  
list price

## ----- COLOR OPTION:

NONE - Lt Blue Anodized Body  
2 - Silver Anodized Body  
3 - Green Anodized Body  
4 - Yellow Anodized Body  
5 - Blue Anodized Body  
6 - Red Anodized Body  
7 - Brown Anodized Body  
8 - Gold Anodized Body  
9 - Black Anodized Body  
A - Purple Anodized Body  
B - Orange Anodized Body  
C - Camouflage, Desert Anodized Body  
G - Gold Plated Brass Body (No Aluminum)  
P - Pink Anodized Body  
T - Tri-Metal Plated Brass Body (No Aluminum)  
W - Camouflage, Woodland Anodized Body

-----OR-

## FITTING OUTLET:

A - 1 LPM Orifice  
B - 2 LPM Orifice  
C - 3 LPM Orifice  
D - 4 LPM Orifice  
E - 5 LPM Orifice  
F - 6 LPM Orifice  
H - 8 LPM Orifice  
J - 10 LPM Orifice  
L - 12 LPM Orifice  
M - 15 LPM Orifice  
N - 20 LPM Orifice  
P - 25 LPM Orifice  
T - 60 LPM Orifice  
V - 70 LPM Orifice  
W - 1/2 LPM Orifice (discontinued)

## ----- FLOW CARTRIDGE OPTIONS:

0 - No Flow Cartridge Options  
2 - 2 Position  
4 - 4 Position  
5 - 5 Position  
8 - 8 Position  
A - 20 PSI Outlet Pressure  
D - 30 PSI Outlet Pressure  
F - 58 PSI Outlet Pressure  
G - 40 PSI Outlet Pressure  
H - 24 PSI Outlet Pressure  
K - 20 PSI Outlet Pressure @ 3000 PSI Inlet  
M - 110 PSI Outlet Pressure  
P - 2 Position & High Flow 70 PSI  
Q - High Flow @ 90 PSI  
V - 17 PSI Outlet Pressure  
Z - High Flow @ 70 PSI

-----OR-

## CAP OPTIONS:

0 - Plain Cap, No Outlets  
1 - Hose Barb 1/8" MNPT  
2 - 1/8" FNPT  
4 - 3/16" Female SAE Boss Port  
5 - DISS-2020 Fitting  
6 - Hose Barb 3/16" SAE Boss  
7 - DISS-1240 Fitting  
9 - Plain Cap (short), No Outlets  
A - DISS-1160 Fitting  
B - One DISS-1240 Check Valve  
C - One DISS-1160 Check Valve  
H - Hansen QD  
P - Puritain Bennett QD

## ----- BODY OPTION(S):

0 - No Body Options  
3 - Dome-Handle  
4 - Domeloc w/12 locking holes  
5 - Dome Handle & 20 PSI Outlet Pressure  
6 - Domeloc w/12 locking holes & Lock and Key set  
7 - Dome Handle & Long Body  
A - 20 PSI Outlet Pressure  
D - 30 PSI Outlet Pressure  
E - Tamper Resistant Stem  
F - 58 PSI Outlet Pressure  
G - 40 PSI Outlet Pressure (discontinued)  
H - 24 PSI Outlet Pressure  
K - 20 PSI Outlet Pressure @ 3000 PSI Inlet Pressure  
L - Large T-Handle  
M - 110 PSI Outlet Pressure  
P - Dome-Handle & 70 PSI Outlet Pressure  
Q - High Flow @ 90 PSI  
R - Tamper Resistant Socket  
U - Dome Handle & 58 PSI Outlet Pressure  
V - 17 PSI Outlet Pressure  
Z - High Flow @ 70 PSI

## ----- PRESSURE REDUCED BODY OUTLET(S):

0 - No Pressure Body Outlets  
1 - One DISS-1240 Check Valve  
2 - One 1/8" FNPT (Plugged)  
3 - Two DISS-1240 Check Valves  
4 - Two 1/8" FNPT (Plugged)  
6 - One DISS-1240 Check Valve & One 1/8" FNPT (Plugged)  
7 - One DISS-1160 Check Valve  
8 - Two 1/4" FNPT (Plugged)  
9 - Two DISS-1240 Check Valves w/ 1/4" Pipe  
A - Two DISS-1160 Check Valves  
B - One DISS-1240 Check Valve @ 180  
C - One DISS-1240 Check Valve @ 240 & One DISS-1240 One Way Check Valve @ 120 w/ 1/4" Pipe  
D - One DISS-1120 Check Valve  
E - One Female Ohio QD & One DISS-1240 Check Valve  
F - One DISS-1160 Check Valve @ 120 & One DISS-1160 One Way Check Valve @ 240 w/ 1/4" Pipe  
G - One Female Ohio QD (Medical Air)  
H - One Female Ohio QD  
J - One DISS-1080 Check Valve  
M - One DISS-1040 Check Valve  
N - Two 1/8" FNPT @ 150 & 240 (Plugged)  
P - Two DISS-1240 Check Valves w/ One HBD2-50-10  
Q - One Female Chemetron QD & One DISS-1240 Check Valve  
R - Hansen QD  
S - One DISS-1060 Check Valve  
U - One Hansen QD & One DISS-1240 Check Valve  
V - One 1/8" FNPT (Plugged) @ 180  
W - One DISS-1180 Check Valve  
Y - Male Hansen QD mounted on an AF212-2-2, 90 degree elbow

**REGULATOR SINGLE WINDOW**

M-Flow Range Codes (2016-05-14).123

| FLOW RANGE              | RANGE CODE | FLOW SETTINGS AS THEY APPEAR THRU WINDOW |      |       |       |      |      |     |       |      |     |     | SAE |
|-------------------------|------------|--|------|-------|-------|------|------|-----|-------|------|-----|-----|-----|
| 1/10 thru 1.5           | A1         | 0.1                                      | 0.2  | 0.3   | 0.4   | 0.5  | 0.6  | 0.7 | 0.8   | 0.9  | 1   | 1.5 | A4  |
| 1/10 thru 1.5 @ 20 PSI  | A1         | 0.1                                      | 0.2  | 0.3   | 0.4   | 0.5  | 0.6  | 0.7 | 0.8   | 0.9  | 1   | 1.5 | A4  |
| 1/50 thru 3             | A5         | 0.02                                     | 0.03 | 0.05  | 0.08  | 0.12 | 0.2  | 0.3 | 0.5   | 0.75 | 1   | 3   |     |
| 1/50 thru 3 @ 58 PSI    | A5         | 0.02                                     | 0.03 | 0.05  | 0.08  | 0.12 | 0.2  | 0.3 | 0.5   | 0.75 | 1   | 3   |     |
| 1/40 thru 2             | B1         | 0.025                                    | 0.04 | 0.06  | 0.09  | 0.15 | 0.25 | 0.4 | 0.6   | 0.9  | 1.5 | 2   |     |
| 1/32 thru 4             | D2         | 1/32                                     | 1/16 | 1/8   | 1/4   | 1/2  | 3/4  | 1   | 1 1/2 | 2    | 3   | 4   | D1  |
| 1/16 thru 4             | D4         | 0.06                                     | 0.12 | 0.25  | 0.5   | 0.75 | 1    | 1.5 | 2     | 2.5  | 3   | 4   |     |
| 1/32 thru 5             | E1         | 0.03                                     | 0.06 | 0.12  | 0.25  | 0.5  | 1    | 1.5 | 2     | 3    | 4   | 5   |     |
| 1/8 thru 6              | F1         | 0.12                                     | 0.25 | 0.5   | 0.75  | 1    | 1.5  | 2   | 3     | 4    | 5   | 6   |     |
| 1/2 thru 8              | H1         | 0.5                                      | 1    | 1.5   | 2     | 2.5  | 3    | 4   | 5     | 6    | 7   | 8   | H3  |
| 1/2 thru 8 @ 20 PSI     | H1         | 0.5                                      | 1    | 1.5   | 2     | 2.5  | 3    | 4   | 5     | 6    | 7   | 8   |     |
| 1/2 thru 10             | J1         | 0.5                                      | 1    | 1.5   | 2     | 2.5  | 3    | 4   | 5     | 6    | 8   | 10  |     |
| 6 thru 12               | L4         | -  | 6    | -     | 12    | -    | -    | -   | -     | -    | -   | -   |     |
| 1/2 thru 15             | M1         | 0.5                                      | 1    | 1.5   | 2     | 3    | 4    | 5   | 6     | 8    | 10  | 15  | M3  |
| 1/2 thru 15 @ 58 PSI    | M1         | 0.5                                      | 1    | 1.5   | 2     | 3    | 4    | 5   | 6     | 8    | 10  | 15  | M3  |
| 1/2 thru 15             | M5         | 0.5                                      | 1    | 2     | 3     | 4    | 5    | 6   | 8     | 10   | 12  | 15  | M7  |
| 1/32 thru 15            | M6         | 1/32                                     | 1/16 | 1/8   | 1/4   | 1/2  | 3/4  | 1   | 1 1/2 | 2    | 6   | 15  | M4  |
| 1/4 thru 15             | MB         | 1/4                                      | 1/2  | 1     | 1 1/2 | 2    | 3    | 4   | 6     | 8    | 12  | 15  | M8  |
| 1/32 thru 15            | MC         | A  | B    | C     | D     | E    | F    | G   | H     | I    | J   | K   | M4  |
| 8 thru 15 @ 58 PSI      | MD         | 8  | 15   | -     | -     | -    | -    | -   | -     | -    | -   | -   |     |
| 6 thru 12               | MX         | FLOW                                     | CPR  | -     | -     | -    | -    | -   | -     | -    | -   | -   |     |
| 1/4 thru 25             | P1         | 0.25                                     | 0.5  | 1     | 2     | 3    | 4    | 6   | 8     | 10   | 15  | 25  | P3  |
| 1/4 thru 25             | P2         | 1/4                                      | 1/2  | 1     | 2     | 3    | 4    | 6   | 8     | 10   | 15  | 25  | P3  |
| 1/4 thru 25 @ 58 PSI    | P2         | 1/4                                      | 1/2  | 1     | 2     | 3    | 4    | 6   | 8     | 10   | 15  | 25  |     |
| 1 thru 25               | P4         | 1  | 2    | 3     | 4     | 6    | 8    | 10  | 12    | 15   | 20  | 25  | P6  |
| 1 thru 25 @ 20 PSI      | P4         | 1  | 2    | 3     | 4     | 6    | 8    | 10  | 12    | 15   | 20  | 25  | P6  |
| 1 thru 25 @ 70 PSI      | P4         | 1  | 2    | 3     | 4     | 6    | 8    | 10  | 12    | 15   | 20  | 25  | P6  |
| 1 thru 25 @ 70 PSI /500 | P4         | 1  | 2    | 3     | 4     | 6    | 8    | 10  | 12    | 15   | 20  | 25  | P6  |
| 1 thru 25               | P5         | 1  | 2    | 3     | 4     | 5    | 6    | 8   | 10    | 12   | 15  | 25  | PB  |
| 1/2 thru 25             | P7         | 1/2                                      | 1    | 1 1/2 | 2     | 3    | 4    | 6   | 8     | 10   | 15  | 25  | P8  |
| 8 thru 25               | PA         | 8  | 12   | 15    | 25    | -    | -    | -   | -     | -    | -   | -   |     |
|                         | PE         | 1/4                                      | 1/2  | 1     | 2     | 4    | 6    | 8   | 10    | 15   | 20  | 25  |     |
| 1/2 thru 30             | PD         | 1/2                                      | 2    | 4     | 6     | 8    | 10   | 12  | 15    | 20   | 25  | 30  | PC  |
| 3 thru 25               | PL         | 3  | 4    | 5     | 6     | 7    | 8    | 10  | 12    | 15   | 20  | 25  |     |
| 3 thru 25 @ 70 PSI      | PL         | 3  | 4    | 5     | 6     | 7    | 8    | 10  | 12    | 15   | 20  | 25  |     |
| 1/4 thru 30             | Q1         | 0.25                                     | 0.5  | 1     | 2     | 4    | 6    | 8   | 10    | 12   | 20  | 30  |     |
| 4 thru 40               | Q7         | 4  | 6    | 8     | 10    | 12   | 15   | 20  | 25    | 30   | 35  | 40  |     |
| 1 thru 60               | T1         | 1  | 2    | 3     | 4     | 5    | 6    | 10  | 15    | 25   | 40  | 60  |     |