Badran
Control Process Components.

# Control valve
# Globe Type

- ***Rating:*** ANSI class 150to 4500#, KS/JIS 10 - 63K - PN 10 TO 640
- ***Valve Size:*** DIN 15 to 600 - 1/2” to 24”
- ***Body Type:*** Globe – Angle - forged straight through and Angle – 3 Way - Jacket type
- ***Bonnet type:*** Standard, Extension, Bellows, Cryogenic, Jacket Type
- ***Trim Option:*** Single, Micro (small flow), Cage guided, Anti-cavitation, Low noise, Multi disc stack
- ***Flow Characteristic:*** Equal %, Modified Equal%, Linear, Modified Linear, Quick Open
- ***Rangeability:*** 25 : 1, 30 : 1, 50 : 1, 100 : 1, 300 : 1
- ***Leakage:*** Metal Seat ASME CLASS IV, V - Soft Seat ASME CLASS VI (Bubble Tight)
- ***Actuator Combination:*** Pneumatic diaphragm actuator, Cylinder actuator, Motor, Hydraulic actuator

**For more information about Badran products please contact us**

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## Product Rated CV & Stroke

**Micro port (Hyperbolic)**

M1 – M8 + Stroke

| Port size or port no. | | 6A (3/16″) | 4A (1/8″) | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M8 | M9 | M10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cv valve | | 0.7 | 0.4 | 0.2 | 0.08 | 0.05 | 0.02 | 0.008 | 0.005 | 0.002 | 0.0009 | 0.0007 | 0.0005 |
| Range | EQ Linear | 50:1 | | 30:1 | 20:1 | | | 10:1 | | | 5:1 | | |
| Ability | Modify EQ | 50:1, 100:1 | | | | | | | | | | | |
| Travel (mm) | | 20~25 | | | | | | | | | | | |

**Contoured Plus**

Port 8-300 + Stroke

| Port size | 8 1/4″ | 10 3/8″ | 15 1/2″ | 20 3/4″ | 25 1″ | 32 1 ¼″ | 40 1 ½″ | 50 2″ | 65 2 ½″ | 80 3″ | 100 4″ | 125 5″ | 150 6″ | 200 8″ | 250 10″ | 300 12″ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cv valve | 1.4 | 2.8 | 4.7 | 8 | 16 | 19.5 | 30 | 46 | 72 | 100 | 170 | 270 | 390 | 540 | 720 | 1050 |
| Range | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 25 | 25 | 30 | 35 | 50 | 55 | 80 | 85 | 85 |

**Characteristic flow cage**

Port 25-500 + Stroke

| Port size | 25A 1″ | 40A 1 ½″ | 50A 2″ | 65A 2 ½″ | 80A 3″ | 100A 4″ | 125A 5″ | 150A 6″ | 200A 8″ | 250A 10″ | 300A 12″ | 350A 14″ | 400A 16″ | 450A 18″ | 500A 20″ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cv valve | 16 | 30 | 50 | 72 | 125 | 187 | 280 | 420 | 610 | 720 | 1050 | 1470 | 1740 | 2170 | 3200 |
| | | | | | | 220 | | 460 | 725 | 1050 | 1450 | 1750 | 2200 | 3100 | 4300 |
| Stroke | 20 | 20 | 25 | 25 | 30 | 35 | 50 | 55 | 80 | 85 | 85 | 100 | 150 | 150 | 150 |
| | | | | | | 50 | | 60 | 90 | 100 | 100 | 120 | 175 | 200 | 200 |

Note: Cv shall be applied with the long stroke valve.



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**Drill Hole**
(M.EQ%, M.Linear)

| Port size | | 25A 1″ | 40A 1 ½″ | 50A 2″ | 65A 2 ½″ | 80A 3″ | 100A 4″ | 125A 5″ | 150A 6″ | 200A 8″ | 250A 10″ | 300A 12″ | 350A 14″ | 400A 16″ | 450A 18″ | 500A 20″ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cv Value | PT6 | 16 | 30 | 50 | 75 | 125 | 187 | 280 | 420 | 610 | 1050 | 1450 | 1750 | 2200 | 3100 | 4300 |
| | PT5 | 8 | 15 | 40 | 60 | 105 | 168 | 240 | 360 | 580 | 900 | 1050 | 1400 | 1900 | 2170 | 3750 |
| | PT4 | | 8 | 32 | 45 | 86 | 142 | 200 | 310 | 520 | 720 | 725 | 1050 | 1750 | 1900 | 3100 |
| | PT3 | | | 26 | 30 | 70 | 116 | 160 | 250 | 430 | 580 | 560 | 720 | 1400 | 1750 | 2100 |
| Stroke | | 20 | 25 | 25 | 40 | 40 | 50 | 55 | 55 | 90 | 100 | 120 | 120 | 150 | 150 | 200 |

**Multi Turn**
(M.EQ%, M.Linear)

| Port size | | 25A 1″ | 40A 1 ½″ | 50A 2″ | 65A 2 ½″ | 80A 3″ | 100A 4″ | 125A 5″ | 150A 6″ | 200A 8″ | 250A 10″ | 300A 12″ | 350A 14″ | 400A 16″ | 450A 18″ | 500A 20″ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cv Value | MT1 | 16 | 30 | 50 | 75 | 125 | 187 | 280 | 420 | 610 | 1050 | 1450 | 1750 | 2200 | 3100 | 4300 |
| | MT2 | 8 | 14 | 30 | 50 | 60 | 97 | 187 | 220 | 450 | 850 | 1000 | 1200 | 1350 | 1750 | 2100 |
| | MT2.1 | | | 24 | 40 | 30 | 49 | 90 | 110 | 350 | 700 | 860 | 920 | 1150 | 1350 | 1750 |
| | MT4 | | 7 | | | 30 | 49 | 90 | 110 | 350 | 700 | 860 | 920 | 1150 | 1350 | 1750 |
| | MT4.1 | | | | | 15 | 24 | 25 | 42 | 170 | 350 | 410 | 430 | 450 | 720 | 810 |
| | MT6 | | | | | | 24 | | 56 | 110 | 210 | 310 | | | | |
| | MT6.1 | | | | | | 10 | | 20 | 56 | 125 | 160 | | | | |
| Stroke | | 20 | 30 | 30 | 40 | 40 | 50 | 55 | 55 | 90 | 100 | 120 | 120 | 150 | 150 | 200 |

According to order condition, stroke can be changed



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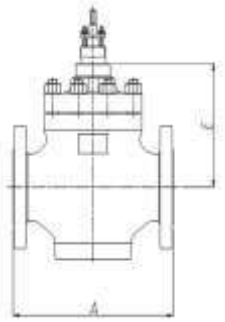
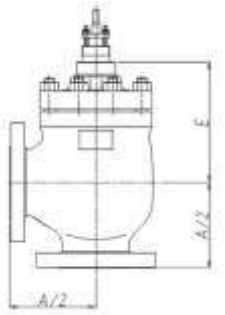
## Globe Body Dimension (2Way, Angel, 3Way)

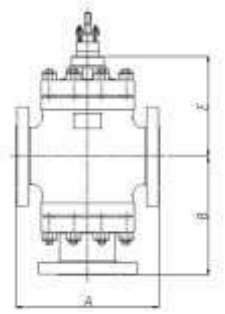
| | Valve size | Inch | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | 2 1/2" | 3" | 4" | 5" | 6" | 8" | 10" | 12" | 14" | 16" | 18" | 20" |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | DN | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| Face to face dimension (End to end dimension) | (RF Flanged type) | 150LB | 184 | 184 | 184 | 222 | 222 | 254 | 276 | 298 | 352 | 400 | 451 | 543 | 673 | 737 | 889 | 1016 | - | 1340 |
| | | 300LB | 190 | 194 | 197 | 235 | 235 | 267 | 292 | 318 | 368 | 417 | 473 | 568 | 708 | 775 | 927 | 1057 | - | 1372 |
| | | 600LB | 203 | 206 | 210 | 251 | 251 | 286 | 311 | 337 | 394 | 450 | 508 | 610 | 752 | 819 | 972 | 1108 | - | 1336 |
| | | 900LB | 273 | 273 | 273 | 311 | 311 | 340 | - | 387 | 464 | 462 | 600 | 781 | 864 | 1016 | - | - | - | 1374 |
| | | 1500LB | 273 | 273 | 273 | 311 | 311 | 340 | - | 406 | 483 | - | 692 | 838 | 991 | 1130 | - | - | - | - |
| | | 2500LB | 308 | 308 | 308 | 359 | 359 | - | - | 498 | 575 | - | 819 | - | 1321 | 1321 | - | - | - | - |
| | B(3Way type) | 150LB | 153 | 153 | 153 | 174 | 174 | 178 | 225 | 250 | 300 | 305 | 347 | 510 | 530 | - | - | - | - | - |
| | | 300LB | 153 | 153 | 153 | 174 | 174 | 178 | 225 | 250 | 300 | 305 | 347 | 510 | 530 | - | - | - | - | - |
| | | 600LB | 162 | 162 | 162 | 185 | 185 | 185 | 238 | 262 | 317 | 330 | - | - | - | - | - | - | - | - |
| | | 900LB | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | C(Buttweld type) | 150LB | 187 | 187 | 187 | 222 | 222 | 254 | 292 | 318 | 368 | - | 451 | 543 | 673 | 737 | 851 | 1016 | 1143 | - |
| | | 300LB | | | | | | | | | | | | | | | | | | |
| | | 600LB | | | | | | | | | | | | | | | | | | |
| | | 900LB | 194 | 194 | 197 | 235 | 235 | 292 | 292 | 318 | 368 | - | 508 | 610 | 762 | 914 | - | - | - | - |
| | | 1500LB | | | | | | | | | | | | | | | | | | |
| | | 2500LB | 216 | 216 | 216 | 260 | 260 | 318 | 318 | 381 | 406 | - | 610 | 762 | 1016 | 1118 | - | - | - | - |



RF Flanged Type



Angel Type



3Way Type



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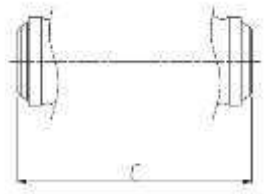
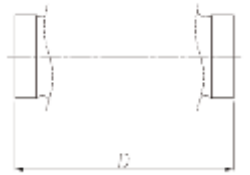
| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | D (Socket weld type) | 150LB | 170 | 170 | 197 | 235 | 235 | 267 | 292 | 318 | 368 | - | | | | | | | | |
| | | 300LB | | | | | | | | | | | | | | | | | | |
| | | 600LB | | | | | | | | | | | | | | | | | | |
| | | 900LB | 178 | 178 | 178 | 235 | 235 | 292 | 292 | 318 | 368 | | | | | | | | | |
| | | 1500LB | | | | | | | | | | | | | | | | | | |
| | | 2500LB | 216 | 216 | 216 | 260 | 260324 | 324 | 324 | 381 | 406 | | | | | | | | | |
| | A (RF Flanged type) | 10k | 185 | | | 223 | 223 | 256 | 283 | 300 | 358 | 400 | 462 | 554 | 676 | 799 | 890 | 1057 | 1074 | 1245 |
| | | 20k | 185 | | | | | | | | | | | | | | | | | |
| | | 30k | 193 | | | 231 | 231 | 264 | 296 | 320 | 374 | 420 | 482 | 567 | 704 | 831 | 918 | 971 | - | - |
| | | 40k | 197 | | | 235 | 235 | 272 | 303 | 320 | 382 | 428 | 494 | 583 | 720 | 847 | 938 | 991 | - | - |
| | | 63k | 207 | | | 247 | 251 | 288 | 319 | 336 | 398 | 448 | 514 | 614 | 744 | 881 | 972 | - | - | - |
| | B(3Way type) | 10k | 153 | | | 174 | 174 | 178 | 225 | 250 | 300 | 305 | 347 | 510 | 530 | - | - | - | - | - |
| | | 20k | | | | | | | | | | | | | | | | | | |
| | | 30k | 162 | | | 185 | 185 | 185 | 238 | 22 | 317 | 330 | - | - | - | - | - | - | - | - |
| | | 40k | | | | | | | | | | | | | | | | | | |
| Center to surface of the yoke attachment dimension | E | 150LB | 145 | | | 154 | 154 | 166 | 212 | 218 | 258 | 280 | 316 | 400 | 454 | 495 | 512 | 617 | - | - |
| | | 300LB | | | | | | | | | | | | | | | | | | |
| | | 600LB | | | | | | | | | | | | | | | | | | |
| | | 900LB | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | 1500LB | | | | | | | | | | | | | | | | | | |
| | | 2500LB | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - |



Butt Weld Type



Socket Weld Type



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