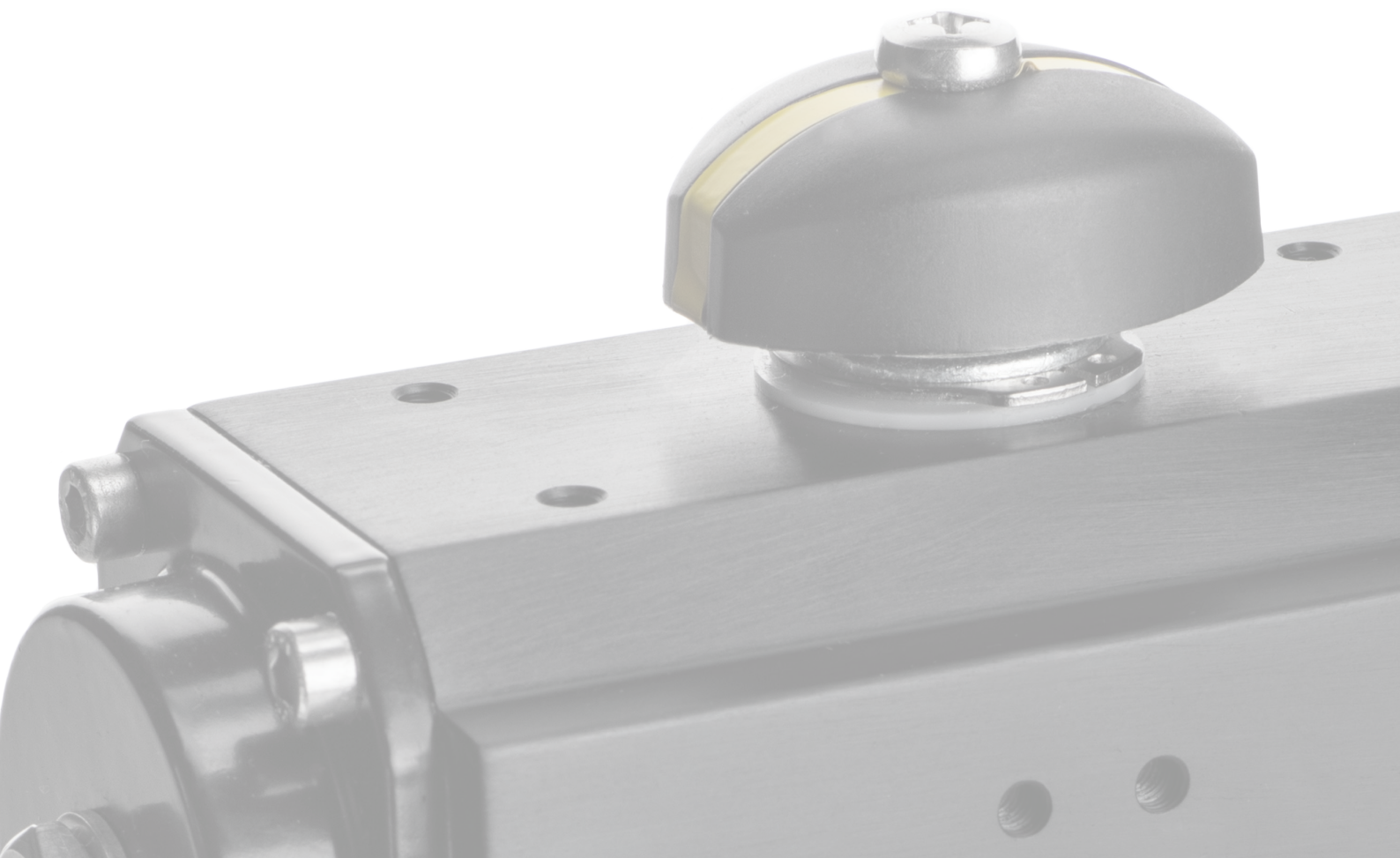




# EVA

PNEUMATIC ACTUATOR





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The EA actuators series is designed for quarter turn applications on **RuB** ball valves in a compact and lightweight form.

They can be supplied single (spring return) or double acting with a wide range of output torques offering a complete valve automation solution.

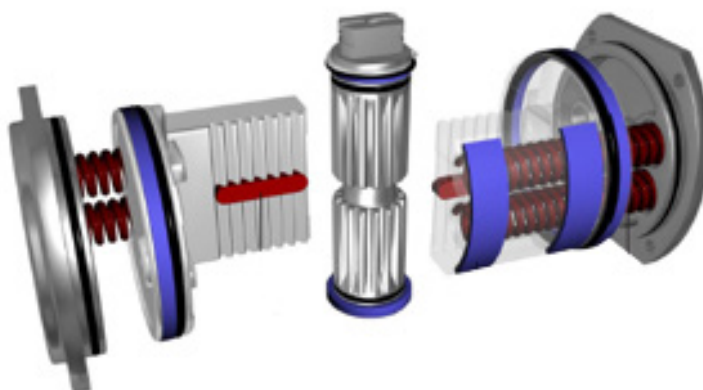
EA actuator has a patented guide bar which keeps the rack and pinion gear teeth in perfect engagement in all directions of operations. The contact between the teeth is pure rolling contact – no rubbing or friction which means minimum wear and long cycle life.

Superior appearance and better corrosion resistance.

It has a dense jet black anodized finish which makes the EA line suitable for indoor and outdoor applications.

ISO 5211 direct mount on valve:

Direct fitting on any valve which follows ISO standard (like our S.64 2-way or S.76 3-way brass ball valves and our S.134 stainless steel ball valves). No brackets or couplings are required for mounting. Accept any microswitch, positioner, or solenoid valve which complies with NAMUR.





## pneumatic actuator for 1/2" - 4" quarter turn valve



### Technical features

- ISO 5211 direct mount on valve
- NAMUR pads for direct mount of solenoid and limit switch
- Pilot ring for perfect alignment of shaft and stem
- Extruded aluminum body hard anodized cylinder bore rock hard and glass smooth
- Nickel plated steel shaft
- Stainless steel fasteners
- High tensile long life return springs
- Visual position indicator
- Indoor or outdoor installation
- Single massive travel stop on one end eliminates need of balancing stop on both ends (EA sizes 2~7)
- Fast field conversion between double acting and spring return, fail open or fail closed
- Minimum ambient temperature while actuator is at rest: -35°C (-31°F)

### Service limits

| Imperial system         |     |     | Metric system           |     |     |
|-------------------------|-----|-----|-------------------------|-----|-----|
|                         | Min | Max |                         | Min | Max |
| <b>Pressure (PSI)</b>   | 40  | 150 | <b>Pressure (bar)</b>   | 3   | 10  |
| <b>Temperature (°F)</b> | 0   | 175 | <b>Temperature (°C)</b> | -20 | 80  |

### Accessories

- Limit switch box
- Solenoid valves
- Visual position indicator
- Link kit
- Springs



Limit switch box



Solenoid valve



Visual position indicator

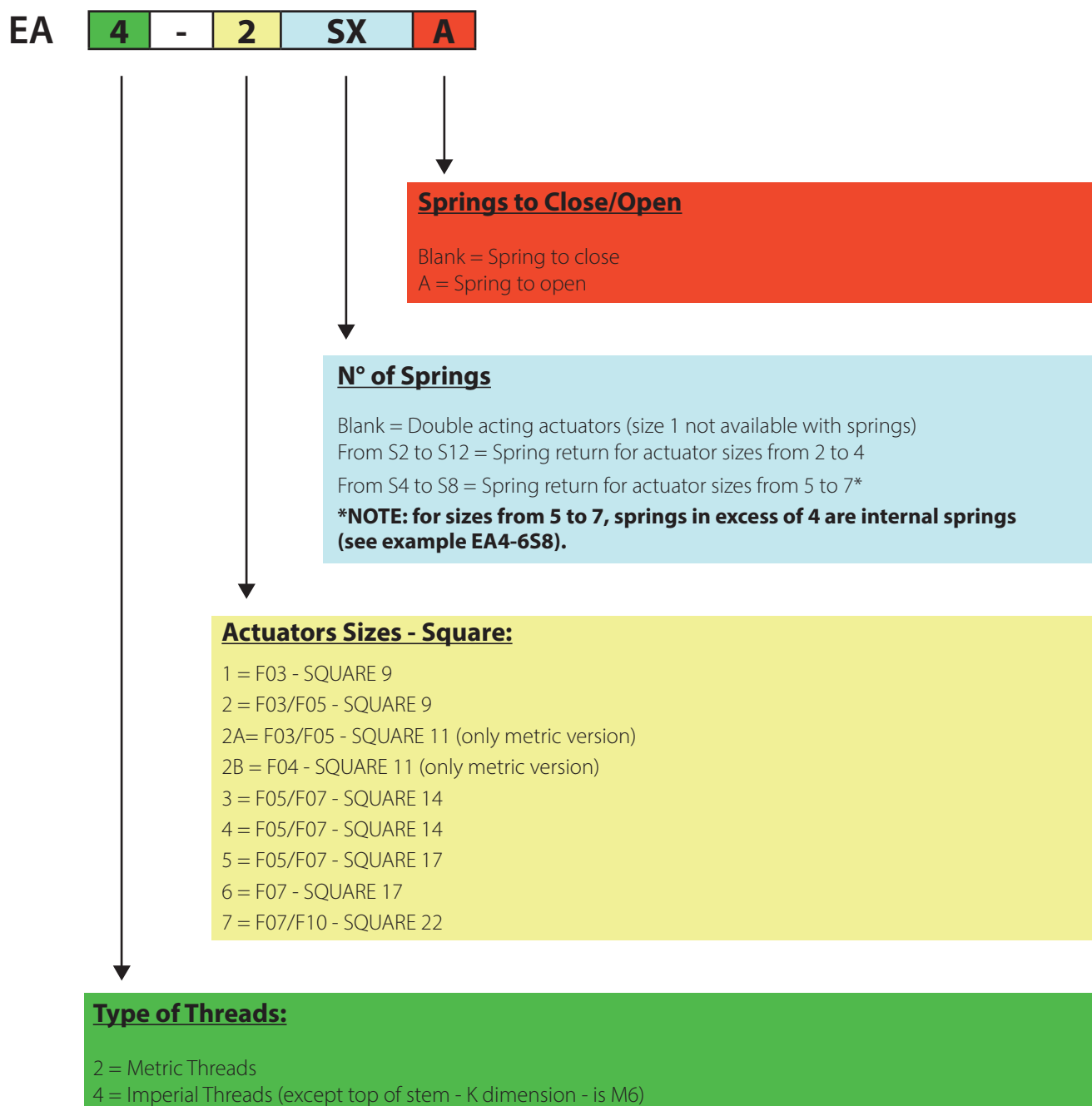


Link kit



Springs

## How to order

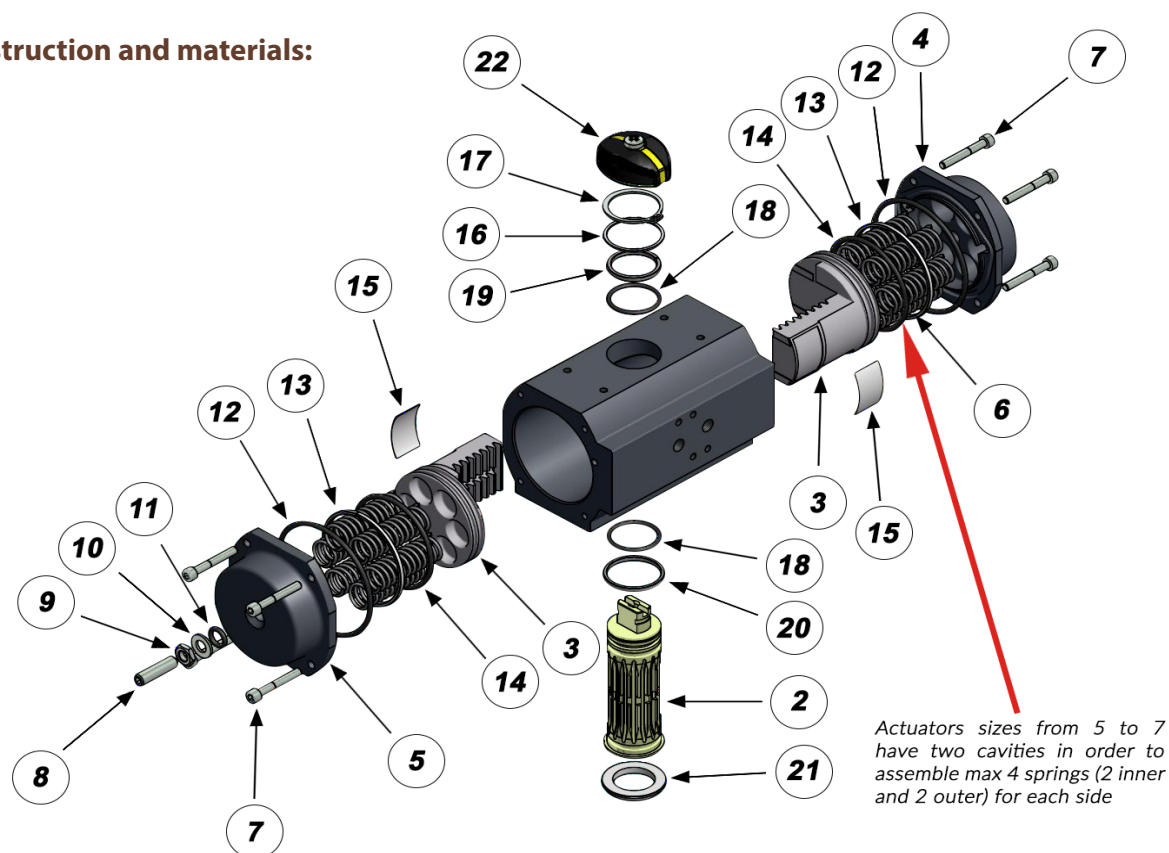


## Example

EA4-6S8 is an EA actuator with Imperial threads, size 6 with 8 springs to close (4 external springs and 4 internal springs)

EA2-4 is an EA actuator with metric threads, size 4, with no springs

## Construction and materials:



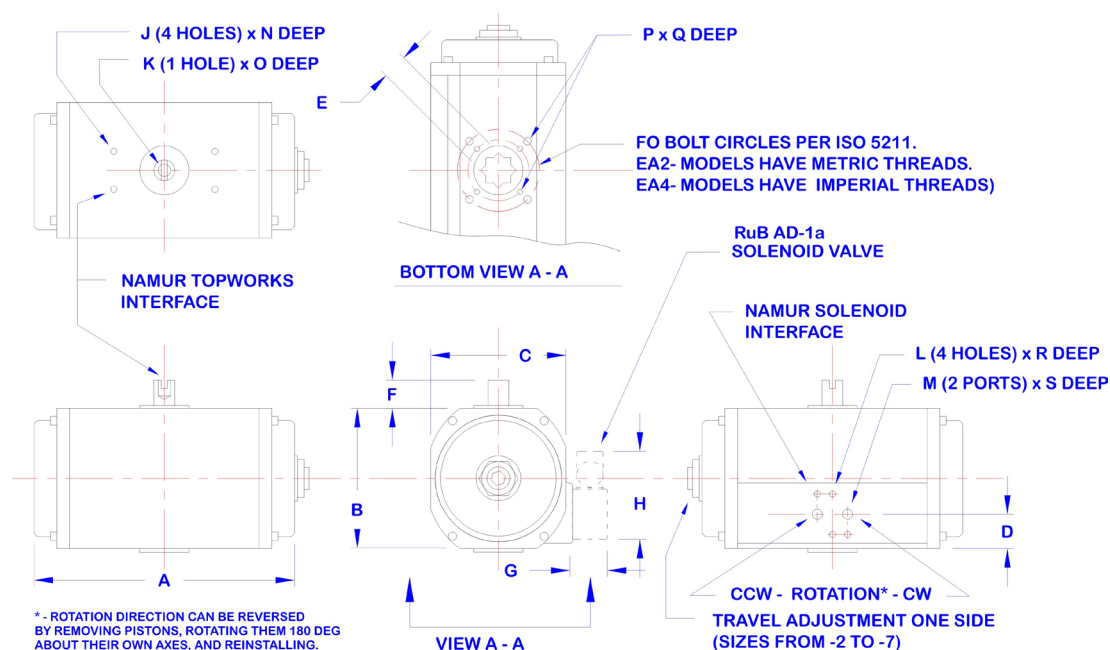
## Bill of materials

EA-4 is shown. Smaller sizes have similar construction except EA-1 that has Nylon endcaps and pistons

| Item | Description          | Q.ty   | Material            |
|------|----------------------|--------|---------------------|
| 1    | Body                 | 1      | Anod, aluminum      |
| 2    | Shaft                | 1      | Steel - zinc plated |
| 3    | Piston               | 2      | Aluminum            |
| 4    | End-cap              | 1      | Anod, aluminum      |
| 5    | End-cap (stop bolt)  | 1      | Anod, aluminum      |
| 6    | Spring               | 12 Max | Cr-Si steel         |
| 7    | Cap bolt             | 8      | St steel            |
| 8    | Stop bolt            | 1      | Hi tensile steel    |
| 9    | Stop bolt nut        | 1      | Hi tensile steel    |
| 10   | Washer               | 1      | Polyethylene        |
| 11   | O-Ring (end stop)    | 1      | NBR                 |
| 12   | O-Ring (end cover)   | 2      | NBR                 |
| 13   | Piston ring          | 2      | POM**               |
| 14   | Piston ring          | 2      | NBR                 |
| 15   | Wear pad             | 2      | POM**               |
| 16   | Shaft washer         | 1      | Polyethylene        |
| 17   | Snap ring            | 1      | Steel               |
| 18   | O-Ring (drive shaft) | 2      | NBR                 |
| 19   | Shaft bearing upper  | 1      | POM**               |
| 20   | Shaft bearing lower  | 1      | POM**               |
| 21   | Alignment ring       | 1      | POM**               |
| 22   | Indicator            | 1      | Nylon               |

\*\* Polyoxymethylene commonly "Delrin"

## Dimensions:



| Size | Metric system - mm |     |       |       |      |    |    |    |    |    |    |    |      |   |    |          |         |   |    |
|------|--------------------|-----|-------|-------|------|----|----|----|----|----|----|----|------|---|----|----------|---------|---|----|
|      | F0                 | A   | B     | C     | D    | E  | F  | G  | H  | J  | K  | L  | M    | N | O  | P        | Q       | R | S  |
| 1    | F03                | 103 | 45    | 51    | 22,5 | 9  | 20 | 26 | 67 | M5 | M6 | M5 | G1/8 | 5 | 12 | M5       | 8       | 8 | 7  |
| 2    | F03/05             | 150 | 70    | 70    | 23   | 9  | 20 | 26 | 67 | M5 | M6 | M5 | G1/8 | 8 | 12 | M5 / M6  | 8 / 10  | 8 | 10 |
| 2A   | F03/05             | 150 | 70    | 70    | 23   | 11 | 20 | 26 | 67 | M5 | M6 | M5 | G1/8 | 8 | 12 | M5 / M6  | 8 / 10  | 8 | 10 |
| 2B   | F04                | 150 | 70    | 70    | 23   | 11 | 20 | 26 | 67 | M5 | M6 | M5 | G1/8 | 8 | 12 | M5 / M6  | 8 / 10  | 8 | 10 |
| 3    | F05/07             | 187 | 87    | 91    | 34,5 | 14 | 20 | 26 | 67 | M5 | M6 | M5 | G1/8 | 8 | 12 | M6 / M8  | 10 / 13 | 8 | 10 |
| 4    | F05/07             | 206 | 118   | 113   | 29,5 | 14 | 20 | 26 | 67 | M5 | M6 | M5 | G1/8 | 8 | 12 | M6 / M8  | 10 / 13 | 8 | 10 |
| 5    | F05/07             | 194 | 118,5 | 121   | 29,5 | 17 | 20 | 26 | 67 | M5 | M6 | M5 | G1/4 | 5 | 12 | M6 / M8  | 10 / 10 | 8 | 12 |
| 6    | F07/10             | 218 | 140,5 | 136,5 | 29,5 | 17 | 20 | 26 | 67 | M5 | M6 | M5 | G1/4 | 5 | 12 | M8 / M10 | 10 / 16 | 8 | 12 |
| 7    | F07/10             | 266 | 166,5 | 156   | 30   | 22 | 20 | 26 | 67 | M5 | M6 | M5 | G1/4 | 5 | 12 | M8 / M10 | 13 / 16 | 8 | 12 |

| Size | Imperial system - inch |       |      |      |      |      |      |      |      |       |    |       |         |      |      |                    |             |      |      |
|------|------------------------|-------|------|------|------|------|------|------|------|-------|----|-------|---------|------|------|--------------------|-------------|------|------|
|      | F0                     | A     | B    | C    | D    | E    | F    | G    | H    | J     | K  | L     | M       | N    | O    | P                  | Q           | R    | S    |
| 1    | F03                    | 4.06  | 1.77 | 2.01 | 0.89 | 0.35 | 0.79 | 1.02 | 2.64 | 10-32 | M6 | 10-32 | 1/8 NPT | 0.20 | 0.47 | 10-32              | 0.31        | 0.31 | 0.28 |
| 2    | F03/05                 | 5.91  | 2.76 | 2.76 | 0.91 | 0.35 | 0.79 | 1.02 | 2.64 | 10-32 | M6 | 10-32 | 1/8 NPT | 0.31 | 0.47 | 10-32 / 1/4"-20    | 0.31 / 0.39 | 0.31 | 0.39 |
| 3    | F05/07                 | 7.36  | 3.43 | 3.58 | 1.36 | 0.55 | 0.79 | 1.02 | 2.64 | 10-32 | M6 | 10-32 | 1/8 NPT | 0.31 | 0.47 | 1/4"-20 / 5/16"-18 | 0.39 / 0.51 | 0.31 | 0.39 |
| 4    | F05/07                 | 8.11  | 4.65 | 4.45 | 1.16 | 0.55 | 0.79 | 1.02 | 2.64 | 10-32 | M6 | 10-32 | 1/8 NPT | 0.31 | 0.47 | 1/4"-20 / 5/16"-18 | 0.39 / 0.51 | 0.31 | 0.39 |
| 5    | F05/07                 | 7.64  | 4.67 | 4.76 | 1.16 | 0.67 | 0.79 | 1.02 | 2.64 | 10-32 | M6 | 10-32 | 1/4 NPT | 0.20 | 0.47 | 1/4"-20 / 5/16"-18 | 0.47 / 0.47 | 0.31 | 0.50 |
| 6    | F07/10                 | 8.58  | 5.53 | 5.37 | 1.16 | 0.67 | 0.79 | 1.02 | 2.64 | 10-32 | M6 | 10-32 | 1/4 NPT | 0.20 | 0.47 | 5/16"-18 / 3/8"-16 | 0.51 / 0.63 | 0.31 | 0.50 |
| 7    | F07/10                 | 10.47 | 6.56 | 6.14 | 1.18 | 0.87 | 0.79 | 1.02 | 2.64 | 10-32 | M6 | 10-32 | 1/4 NPT | 0.20 | 0.47 | 5/16"-18 / 3/8"-16 | 0.51 / 0.63 | 0.31 | 0.50 |

## Torque rating charts for EA2 actuators - METRIC system

| Double acting - torque in N.m |         |                           |       |       |       |       |       |       |       |
|-------------------------------|---------|---------------------------|-------|-------|-------|-------|-------|-------|-------|
| EA2-                          | Springs | Air pressure supply (bar) |       |       |       |       |       |       |       |
|                               |         | 3                         | 4     | 5     | 6     | 7     | 8     | 9     | 10    |
| 1                             | 0       | 4,4                       | 5,8   | 7,3   | 8,7   | 10,2  | 11,6  | 13,1  | 14,5  |
| 2-2A                          | 0       | 11,8                      | 15,8  | 19,7  | 23,7  | 27,6  | 31,6  | 35,5  | 39,5  |
| 3                             | 0       | 25,4                      | 33,8  | 42,3  | 50,7  | 59,2  | 67,6  | 76,1  | 84,5  |
| 4                             | 0       | 50,7                      | 67,6  | 84,5  | 101,5 | 118,4 | 135,3 | 152,2 | 169,1 |
| 5                             | 0       | 61,3                      | 81,7  | 102,1 | 122,5 | 142,9 | 163,3 | 183,8 | 204,2 |
| 6                             | 0       | 101,0                     | 134,6 | 168,3 | 201,9 | 235,6 | 269,2 | 302,9 | 336,5 |
| 7                             | 0       | 187,1                     | 249,5 | 311,8 | 374,2 | 436,5 | 498,9 | 561,3 | 623,6 |

| Spring return - torque in N.m |         |         |       |               |        |                           |       |       |       |       |       |       |       |                  |      |                           |       |       |       |       |       |       |  |  |  |
|-------------------------------|---------|---------|-------|---------------|--------|---------------------------|-------|-------|-------|-------|-------|-------|-------|------------------|------|---------------------------|-------|-------|-------|-------|-------|-------|--|--|--|
|                               |         |         |       |               |        | air stroke - start        |       |       |       |       |       |       |       | air stroke - end |      |                           |       |       |       |       |       |       |  |  |  |
|                               | Springs | Springs |       | spring stroke |        | Air pressure supply (bar) |       |       |       |       |       |       |       |                  |      | Air pressure supply (bar) |       |       |       |       |       |       |  |  |  |
| EA2-                          | total   | outer   | inner | start         | end    | 3                         | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 3                | 4    | 5                         | 6     | 7     | 8     | 9     | 10    |       |  |  |  |
| 2-2A                          | 2       |         |       | 2,62          | 1,34   | 10,5                      | 14,4  | 18,4  | 22,3  | 26,3  | 30,2  | 34,2  | 38,1  | 9,2              | 13,2 | 17,1                      | 21,1  | 25,0  | 28,9  | 32,9  | 36,8  |       |  |  |  |
|                               | 3       |         |       | 3,93          | 2,01   | 9,8                       | 13,8  | 17,7  | 21,7  | 25,6  | 29,6  | 33,5  | 37,4  | 7,9              | 11,9 | 15,8                      | 19,7  | 23,7  | 27,6  | 31,6  | 35,5  |       |  |  |  |
|                               | 4       |         |       | 5,24          | 2,68   | 9,2                       | 13,1  | 17,0  | 21,0  | 24,9  | 28,9  | 32,8  | 36,8  | 6,6              | 10,5 | 14,5                      | 18,4  | 22,4  | 26,3  | 30,3  | 34,2  |       |  |  |  |
|                               | 5       |         |       | 6,55          | 3,35   | 8,5                       | 12,4  | 16,4  | 20,3  | 24,3  | 28,2  | 32,2  | 36,1  | 5,3              | 9,2  | 13,2                      | 17,1  | 21,1  | 25,0  | 29,0  | 32,9  |       |  |  |  |
|                               | 6       |         |       | 7,86          | 4,02   | 7,8                       | 11,8  | 15,7  | 19,7  | 23,6  | 27,5  | 31,5  | 35,4  | 4,0              | 7,9  | 11,9                      | 15,8  | 19,8  | 23,7  | 27,6  | 31,6  |       |  |  |  |
|                               | 7       |         |       | 9,17          | 4,69   |                           | 11,1  | 15,0  | 19,0  | 22,9  | 26,9  | 30,8  | 34,8  |                  | 6,6  | 10,6                      | 14,5  | 18,4  | 22,4  | 26,3  | 30,3  |       |  |  |  |
|                               | 8       |         |       | 10,48         | 5,36   |                           | 10,4  | 14,4  | 18,3  | 22,3  | 26,2  | 30,1  | 34,1  |                  | 5,3  | 9,2                       | 13,2  | 17,1  | 21,1  | 25,0  | 29,0  |       |  |  |  |
|                               | 9       |         |       | 11,79         | 6,03   |                           |       | 13,7  | 17,6  | 21,6  | 25,5  | 29,5  | 33,4  |                  |      | 7,9                       | 11,9  | 15,8  | 19,8  | 23,7  | 27,7  |       |  |  |  |
|                               | 10      |         |       | 13,1          | 6,7    |                           |       | 13,0  | 17,0  | 20,9  | 24,9  | 28,8  | 32,8  |                  |      | 6,6                       | 10,6  | 14,5  | 18,5  | 22,4  | 26,4  |       |  |  |  |
|                               | 11      |         |       | 14,41         | 7,37   |                           |       |       | 16,3  | 20,2  | 24,2  | 28,1  | 32,1  |                  |      |                           | 9,3   | 13,2  | 17,2  | 21,1  | 25,0  |       |  |  |  |
|                               | 12      |         |       | 15,72         | 8,04   |                           |       |       | 15,6  | 19,6  | 23,5  | 27,5  | 31,4  |                  |      |                           | 8,0   | 11,9  | 15,8  | 19,8  | 23,7  |       |  |  |  |
| 3                             | 2       |         |       | 5,44          | 3      | 22,4                      | 30,8  | 39,3  | 47,7  | 56,2  | 64,6  | 73,1  | 81,5  | 19,9             | 28,4 | 36,8                      | 45,3  | 53,7  | 62,2  | 70,7  | 79,1  |       |  |  |  |
|                               | 3       |         |       | 8,16          | 4,5    | 20,9                      | 29,3  | 37,8  | 46,2  | 54,7  | 63,1  | 71,6  | 80,0  | 17,2             | 25,7 | 34,1                      | 42,6  | 51,0  | 59,5  | 67,9  | 76,4  |       |  |  |  |
|                               | 4       |         |       | 10,88         | 6      | 19,4                      | 27,8  | 36,3  | 44,7  | 53,2  | 61,6  | 70,1  | 78,5  | 14,5             | 22,9 | 31,4                      | 39,8  | 48,3  | 56,8  | 65,2  | 73,7  |       |  |  |  |
|                               | 5       |         |       | 13,6          | 7,5    | 17,9                      | 26,3  | 34,8  | 43,2  | 51,7  | 60,1  | 68,6  | 77,0  | 11,8             | 20,2 | 28,7                      | 37,1  | 45,6  | 54,0  | 62,5  | 70,9  |       |  |  |  |
|                               | 6       |         |       | 16,32         | 9      | 16,4                      | 24,8  | 33,3  | 41,7  | 50,2  | 58,6  | 67,1  | 75,5  | 9,0              | 17,5 | 26,0                      | 34,4  | 42,9  | 51,3  | 59,8  | 68,2  |       |  |  |  |
|                               | 7       |         |       | 19,04         | 10,5   |                           | 23,3  | 31,8  | 40,2  | 48,7  | 57,1  | 65,6  | 74,0  |                  | 14,8 | 23,2                      | 31,7  | 40,1  | 48,6  | 57,1  | 65,5  |       |  |  |  |
|                               | 8       |         |       | 21,76         | 12     |                           | 21,8  | 30,3  | 38,7  | 47,2  | 55,6  | 64,1  | 72,5  |                  | 12,1 | 20,5                      | 29,0  | 37,4  | 45,9  | 54,3  | 62,8  |       |  |  |  |
|                               | 9       |         |       | 24,48         | 13,5   |                           |       | 28,8  | 37,2  | 45,7  | 54,1  | 62,6  | 71,0  |                  |      | 17,8                      | 26,2  | 34,7  | 43,2  | 51,6  | 60,1  |       |  |  |  |
|                               | 10      |         |       | 27,2          | 15     |                           |       | 27,3  | 35,7  | 44,2  | 52,6  | 61,1  | 69,5  |                  |      | 15,1                      | 23,5  | 32,0  | 40,4  | 48,9  | 57,3  |       |  |  |  |
|                               | 11      |         |       | 29,92         | 16,5   |                           |       |       | 34,2  | 42,7  | 51,1  | 59,6  | 68,0  |                  |      |                           | 20,8  | 29,3  | 37,7  | 46,2  | 54,6  |       |  |  |  |
|                               | 12      |         |       | 32,64         | 18     |                           |       |       | 32,7  | 41,2  | 49,6  | 58,1  | 66,5  |                  |      |                           | 18,1  | 26,5  | 35,0  | 43,5  | 51,9  |       |  |  |  |
| 4                             | 2       |         |       | 10,24         | 6,68   | 44,0                      | 61,0  | 77,9  | 94,8  | 111,7 | 128,6 | 145,5 | 162,4 | 40,5             | 57,4 | 74,3                      | 91,2  | 108,1 | 125,0 | 141,9 | 158,9 |       |  |  |  |
|                               | 3       |         |       | 15,36         | 10,02  | 40,7                      | 57,6  | 74,5  | 91,4  | 108,3 | 125,3 | 142,2 | 159,1 | 35,4             | 52,3 | 69,2                      | 86,1  | 103,0 | 119,9 | 136,8 | 153,7 |       |  |  |  |
|                               | 4       |         |       | 20,48         | 13,36  | 37,4                      | 54,3  | 71,2  | 88,1  | 105,0 | 121,9 | 138,8 | 155,7 | 30,2             | 47,2 | 64,1                      | 81,0  | 97,9  | 114,8 | 131,7 | 148,6 |       |  |  |  |
|                               | 5       |         |       | 25,6          | 16,7   | 34,0                      | 50,9  | 67,8  | 84,8  | 101,7 | 118,6 | 135,5 | 152,4 | 25,1             | 42,0 | 58,9                      | 75,9  | 92,8  | 109,7 | 126,6 | 143,5 |       |  |  |  |
|                               | 6       |         |       | 30,72         | 20,04  | 30,7                      | 47,6  | 64,5  | 81,4  | 98,3  | 115,2 | 132,1 | 149,1 | 20,0             | 36,9 | 53,8                      | 70,7  | 87,6  | 104,6 | 121,5 | 138,4 |       |  |  |  |
|                               | 7       |         |       | 35,84         | 23,38  |                           | 44,3  | 61,2  | 78,1  | 95,0  | 111,9 | 128,8 | 145,7 |                  | 31,8 | 48,7                      | 65,6  | 82,5  | 99,4  | 116,3 | 133,3 |       |  |  |  |
|                               | 8       |         |       | 40,96         | 26,72  |                           | 40,9  | 57,8  | 74,7  | 91,6  | 108,6 | 125,5 | 142,4 |                  | 26,7 | 43,6                      | 60,5  | 77,4  | 94,3  | 111,2 | 128,1 |       |  |  |  |
|                               | 9       |         |       | 46,08         | 30,06  |                           |       | 54,5  | 71,4  | 88,3  | 105,2 | 122,1 | 139,0 |                  |      | 38,5                      | 55,4  | 72,3  | 89,2  | 106,1 | 123,0 |       |  |  |  |
|                               | 10      |         |       | 51,2          | 33,4   |                           |       | 51,1  | 68,1  | 85,0  | 101,9 | 118,8 | 135,7 |                  |      | 33,3                      | 50,3  | 67,2  | 84,1  | 101,0 | 117,9 |       |  |  |  |
|                               | 11      |         |       | 56,32         | 36,74  |                           |       |       | 64,7  | 81,6  | 98,5  | 115,4 | 132,4 |                  |      |                           | 45,1  | 62,0  | 79,0  | 95,9  | 112,8 |       |  |  |  |
|                               | 12      |         |       | 61,44         | 40,08  |                           |       |       | 61,4  | 78,3  | 95,2  | 112,1 | 129,0 |                  |      |                           | 40,0  | 56,9  | 73,8  | 90,7  | 107,7 |       |  |  |  |
| 5                             | 4       | 4       | 0     | 52,4          | 28,8   | 32,5                      | 52,9  | 73,3  | 93,7  | 114,1 | 134,5 | 155,0 | 175,4 | 8,9              | 29,3 | 49,7                      | 70,1  | 90,5  | 110,9 | 131,4 | 151,8 |       |  |  |  |
|                               | 5       | 4       | 1     | 58,95         | 32,4   |                           | 49,3  | 69,7  | 90,1  | 110,5 | 130,9 | 151,4 | 171,8 |                  | 22,7 | 43,1                      | 63,6  | 84,0  | 104,4 | 124,8 | 145,2 |       |  |  |  |
|                               | 6       | 4       | 2     | 65,5          | 36     |                           | 45,7  | 66,1  | 86,5  | 106,9 | 127,3 | 147,8 | 168,2 |                  | 16,2 | 36,6                      | 57,0  | 77,4  | 97,8  | 118,3 | 138,7 |       |  |  |  |
|                               | 7       | 4       | 3     | 72,05         | 39,6   |                           |       | 62,5  | 82,9  | 103,3 | 123,7 | 144,2 | 164,6 |                  |      | 30,0                      | 50,5  | 70,9  | 91,3  | 111,7 | 132,1 |       |  |  |  |
|                               | 8       | 4       | 4     | 78,6          | 43,2   |                           |       |       | 58,9  | 79,3  | 99,7  | 120,1 | 140,6 | 161,0            |      |                           | 23,5  | 43,9  | 64,3  | 84,7  | 105,2 | 125,6 |  |  |  |
| 6                             | 4       | 4       | 0     | 86,8          | 47,7   | 53,3                      | 86,9  | 120,6 | 154,2 | 187,9 | 221,5 | 255,2 | 288,8 | 14,2             | 47,8 | 81,5                      | 115,1 | 148,8 | 182,4 | 216,1 | 249,7 |       |  |  |  |
|                               | 5       | 4       | 1     | 97,65         | 53,675 |                           | 80,9  | 114,6 | 148,3 | 181,9 | 215,6 | 249,2 | 282,9 |                  | 37,0 | 70,6                      | 104,3 | 137,9 | 171,6 | 205,2 | 238,9 |       |  |  |  |
|                               | 6       | 4       | 2     | 108,5         | 59,65  |                           | 75,0  | 108,6 | 142,3 | 175,9 | 209,6 | 243,2 | 276,9 |                  | 26,1 | 59,8                      | 93,4  | 127,1 | 160,7 | 194,4 | 228,0 |       |  |  |  |
|                               | 7       | 4       | 3     | 119,35        | 65,625 |                           |       | 102,6 | 136,3 | 170,0 | 203,6 | 237,3 | 270,9 |                  |      | 48,9                      | 82,6  | 116,2 | 149,9 | 183,5 | 217,2 |       |  |  |  |
|                               | 8       | 4       | 4     | 130,2         | 71,6   |                           |       | 96,7  | 130,3 | 164,0 | 197,6 | 231,3 | 264,9 |                  |      | 38,1                      | 71,7  | 105,4 | 139,0 | 172,7 | 206,3 |       |  |  |  |
| 7                             | 4       | 4       | 0     | 160,8         | 88,4   | 98,7                      | 161,1 | 223,4 | 285,8 | 348,1 | 410,5 | 472,9 | 535,2 | 26,3             | 88,7 | 151,0                     | 213,4 | 275,7 | 338,1 | 400,5 | 462,8 |       |  |  |  |
|                               | 5       | 4       | 1     | 180,9         | 99,45  |                           | 150,0 | 212,4 | 274,7 | 337,1 | 399,5 | 461,8 | 524,2 |                  | 68,6 | 130,9                     | 193,3 | 255,6 | 318,0 | 380,4 | 442,7 |       |  |  |  |
|                               | 6       | 4       | 2     | 201           | 110,5  |                           | 139,0 | 201,3 | 263,7 | 326,0 | 388,4 | 450,8 | 513,1 |                  | 48,5 | 110,8                     | 173,2 | 235,5 | 297,9 | 360,3 | 422,6 |       |  |  |  |
|                               | 7       | 4       | 3     | 221,1         | 121,55 |                           |       | 190,3 | 252,6 | 315,0 | 377,4 | 439,7 | 502,1 |                  |      | 90,7                      | 153,1 | 215,4 | 277,8 | 340,2 | 402,5 |       |  |  |  |
|                               | 8       | 4       | 4     | 241,2         | 132,6  |                           |       | 179,2 | 241,6 | 303,9 | 366,3 | 428,7 | 491,0 |                  |      | 70,6                      | 133,0 | 195,3 | 257,7 | 320,1 | 382,4 |       |  |  |  |

## Torque rating charts for EA4 actuators - IMPERIAL system

| Double acting - torque In-lb |         |                           |      |      |      |      |      |      |      |      |
|------------------------------|---------|---------------------------|------|------|------|------|------|------|------|------|
| EA4-                         | Springs | Air pressure supply (PSI) |      |      |      |      |      |      |      |      |
|                              |         | 40                        | 50   | 60   | 70   | 80   | 90   | 100  | 110  | 120  |
| 1                            | 0       | 35                        | 44   | 53   | 62   | 71   | 80   | 89   | 98   | 106  |
| 2                            | 0       | 96                        | 120  | 144  | 168  | 193  | 217  | 241  | 265  | 289  |
| 3                            | 0       | 206                       | 258  | 309  | 361  | 413  | 464  | 516  | 567  | 619  |
| 4                            | 0       | 413                       | 516  | 619  | 722  | 825  | 928  | 1032 | 1135 | 1238 |
| 5                            | 0       | 498                       | 623  | 747  | 872  | 996  | 1121 | 1246 | 1370 | 1495 |
| 6                            | 0       | 821                       | 1027 | 1232 | 1437 | 1642 | 1848 | 2053 | 2258 | 2464 |
| 7                            | 0       | 1522                      | 1902 | 2283 | 2663 | 3044 | 3424 | 3804 | 4185 | 4565 |

| Spring return - torque in In-lb |         |         |       |               |      |                           |     |      |      |      |      |      |      |      |      |     |     |                           |      |      |      |      |      |      |  |  |  |  |  |
|---------------------------------|---------|---------|-------|---------------|------|---------------------------|-----|------|------|------|------|------|------|------|------|-----|-----|---------------------------|------|------|------|------|------|------|--|--|--|--|--|
| EA4-                            | Springs | Springs |       | spring stroke |      | air stroke - start        |     |      |      |      |      |      |      |      |      |     |     | air stroke - end          |      |      |      |      |      |      |  |  |  |  |  |
|                                 |         | outer   | inner | start         | end  | Air pressure supply (PSI) |     |      |      |      |      |      |      |      |      |     |     | Air pressure supply (PSI) |      |      |      |      |      |      |  |  |  |  |  |
|                                 |         |         |       |               |      | 40                        | 50  | 60   | 70   | 80   | 90   | 100  | 110  | 120  | 40   | 50  | 60  | 70                        | 80   | 90   | 100  | 110  | 120  |      |  |  |  |  |  |
| 2                               | 2       |         |       | 23            | 12   | 84                        | 108 | 133  | 157  | 181  | 205  | 229  | 253  | 277  | 73   | 97  | 121 | 145                       | 169  | 193  | 218  | 242  | 266  |      |  |  |  |  |  |
|                                 | 3       |         |       | 35            | 18   | 78                        | 103 | 127  | 151  | 175  | 199  | 223  | 247  | 271  | 62   | 86  | 110 | 134                       | 158  | 182  | 206  | 230  | 254  |      |  |  |  |  |  |
|                                 | 4       |         |       | 46            | 24   | 73                        | 97  | 121  | 145  | 169  | 193  | 217  | 241  | 265  | 50   | 74  | 98  | 122                       | 146  | 170  | 194  | 218  | 242  |      |  |  |  |  |  |
|                                 | 5       |         |       | 58            | 30   | 67                        | 91  | 115  | 139  | 163  | 187  | 211  | 235  | 259  | 38   | 62  | 86  | 111                       | 135  | 159  | 183  | 207  | 231  |      |  |  |  |  |  |
|                                 | 6       |         |       | 70            | 36   |                           | 85  | 109  | 133  | 157  | 181  | 205  | 229  | 253  | 51   | 75  | 99  | 123                       | 147  | 171  | 195  | 219  |      |      |  |  |  |  |  |
|                                 | 7       |         |       | 81            | 41   |                           | 79  | 103  | 127  | 151  | 175  | 199  | 223  | 247  | 39   | 63  | 87  | 111                       | 135  | 160  | 184  | 208  | 248  |      |  |  |  |  |  |
|                                 | 8       |         |       | 93            | 47   |                           |     | 97   | 121  | 145  | 169  | 193  | 217  | 241  |      | 52  | 76  | 100                       | 124  | 148  | 172  | 196  |      |      |  |  |  |  |  |
|                                 | 9       |         |       | 104           | 53   |                           |     |      | 115  | 139  | 163  | 187  | 211  | 235  |      |     | 64  | 88                        | 112  | 136  | 160  | 185  |      |      |  |  |  |  |  |
|                                 | 10      |         |       | 116           | 59   |                           |     |      | 109  | 133  | 157  | 181  | 205  | 230  |      |     | 53  | 77                        | 101  | 125  | 149  | 173  |      |      |  |  |  |  |  |
|                                 | 11      |         |       | 127           | 65   |                           |     |      |      | 127  | 151  | 175  | 200  | 224  |      |     |     | 65                        | 89   | 113  | 137  | 161  |      |      |  |  |  |  |  |
|                                 | 12      |         |       | 139           | 71   |                           |     |      |      |      | 145  | 170  | 194  | 218  |      |     |     |                           | 78   | 102  | 126  | 150  |      |      |  |  |  |  |  |
|                                 | 3       | 2       |       |               | 48   | 27                        | 180 | 231  | 283  | 334  | 386  | 438  | 489  | 541  | 592  | 158 | 210 | 261                       | 313  | 364  | 416  | 468  | 519  | 571  |  |  |  |  |  |
| 3                               |         |         |       | 72            | 40   | 166                       | 218 | 270  | 321  | 373  | 424  | 476  | 528  | 579  | 134  | 186 | 237 | 289                       | 340  | 392  | 444  | 495  | 547  |      |  |  |  |  |  |
| 4                               |         |         |       | 96            | 53   | 153                       | 205 | 256  | 308  | 360  | 411  | 463  | 514  | 566  | 110  | 162 | 213 | 265                       | 316  | 368  | 419  | 471  | 523  |      |  |  |  |  |  |
| 5                               |         |         |       | 120           | 66   | 140                       | 192 | 243  | 295  | 346  | 398  | 449  | 501  | 553  | 86   | 138 | 189 | 241                       | 292  | 344  | 395  | 447  | 499  |      |  |  |  |  |  |
| 6                               |         |         |       | 144           | 80   |                           | 178 | 230  | 281  | 333  | 385  | 436  | 488  | 539  |      | 113 | 165 | 217                       | 268  | 320  | 371  | 423  | 475  |      |  |  |  |  |  |
| 7                               |         |         |       | 168           | 93   |                           | 165 | 217  | 268  | 320  | 371  | 423  | 474  | 526  |      | 89  | 141 | 193                       | 244  | 296  | 347  | 399  | 450  |      |  |  |  |  |  |
| 8                               |         |         |       | 193           | 106  |                           |     | 203  | 255  | 306  | 358  | 410  | 461  | 513  |      |     | 117 | 169                       | 220  | 272  | 323  | 375  | 426  |      |  |  |  |  |  |
| 9                               |         |         |       | 217           | 119  |                           |     |      | 242  | 293  | 345  | 396  | 448  | 499  |      |     |     | 144                       | 196  | 248  | 299  | 351  | 402  |      |  |  |  |  |  |
| 10                              |         |         |       | 241           | 133  |                           |     |      | 228  | 280  | 331  | 383  | 435  | 486  |      |     |     | 120                       | 172  | 224  | 275  | 327  | 378  |      |  |  |  |  |  |
| 11                              |         |         |       | 265           | 146  |                           |     |      |      | 267  | 318  | 370  | 421  | 473  |      |     |     |                           | 148  | 199  | 251  | 303  | 354  |      |  |  |  |  |  |
| 12                              |         |         |       | 289           | 159  |                           |     |      |      |      | 305  | 356  | 408  | 460  |      |     |     |                           |      | 175  | 227  | 279  | 330  |      |  |  |  |  |  |
| 4                               |         | 2       |       |               | 91   | 59                        | 354 | 457  | 560  | 663  | 766  | 869  | 972  | 1076 | 1179 | 322 | 425 | 528                       | 631  | 735  | 838  | 941  | 1044 | 1147 |  |  |  |  |  |
|                                 | 3       |         |       | 136           | 89   | 324                       | 427 | 530  | 633  | 737  | 840  | 943  | 1046 | 1149 | 277  | 380 | 483 | 586                       | 689  | 792  | 896  | 999  | 1102 |      |  |  |  |  |  |
|                                 | 4       |         |       | 181           | 118  | 294                       | 398 | 501  | 604  | 707  | 810  | 913  | 1016 | 1120 | 231  | 335 | 438 | 541                       | 644  | 747  | 850  | 953  | 1057 |      |  |  |  |  |  |
|                                 | 5       |         |       | 227           | 148  | 265                       | 368 | 471  | 574  | 677  | 781  | 884  | 987  | 1090 | 186  | 289 | 392 | 496                       | 599  | 702  | 805  | 908  | 1011 |      |  |  |  |  |  |
|                                 | 6       |         |       | 272           | 177  |                           | 338 | 442  | 545  | 648  | 751  | 854  | 957  | 1061 |      | 244 | 347 | 450                       | 553  | 657  | 760  | 863  | 966  |      |  |  |  |  |  |
|                                 | 7       |         |       | 317           | 207  |                           | 309 | 412  | 515  | 618  | 722  | 825  | 928  | 1031 |      | 199 | 302 | 405                       | 508  | 611  | 714  | 818  | 921  |      |  |  |  |  |  |
|                                 | 8       |         |       | 362           | 236  |                           |     | 382  | 486  | 589  | 692  | 795  | 898  | 1001 |      |     | 257 | 360                       | 463  | 566  | 669  | 772  | 875  |      |  |  |  |  |  |
|                                 | 9       |         |       | 408           | 266  |                           |     |      | 456  | 559  | 662  | 766  | 869  | 972  |      |     |     | 314                       | 418  | 521  | 624  | 727  | 830  |      |  |  |  |  |  |
|                                 | 10      |         |       | 453           | 296  |                           |     |      | 427  | 530  | 633  | 736  | 839  | 942  |      |     |     | 269                       | 372  | 475  | 579  | 682  | 785  |      |  |  |  |  |  |
|                                 | 11      |         |       | 498           | 325  |                           |     |      |      | 500  | 603  | 706  | 810  | 913  |      |     |     |                           | 327  | 430  | 533  | 636  | 740  |      |  |  |  |  |  |
|                                 | 12      |         |       | 544           | 355  |                           |     |      |      |      | 574  | 677  | 780  | 883  |      |     |     |                           |      | 385  | 488  | 591  | 694  |      |  |  |  |  |  |
|                                 | 5       | 4       | 4     | 0             | 464  | 255                       |     | 368  | 493  | 617  | 742  | 866  | 991  | 1115 | 1240 |     | 159 | 284                       | 408  | 533  | 657  | 782  | 907  | 1031 |  |  |  |  |  |
| 5                               |         | 4       | 1     | 522           | 287  |                           |     | 461  | 585  | 710  | 834  | 959  | 1083 | 1208 |      |     | 226 | 350                       | 475  | 599  | 724  | 849  | 973  |      |  |  |  |  |  |
| 6                               |         | 4       | 2     | 580           | 319  |                           |     | 429  | 553  | 678  | 803  | 927  | 1052 | 1176 |      |     | 168 | 292                       | 417  | 541  | 666  | 791  | 915  |      |  |  |  |  |  |
| 7                               |         | 4       | 3     | 637           | 350  |                           |     |      | 522  | 646  | 771  | 895  | 1020 | 1144 |      |     |     | 234                       | 359  | 484  | 608  | 733  | 857  |      |  |  |  |  |  |
| 8                               |         | 4       | 4     | 695           | 382  |                           |     |      |      | 614  | 739  | 863  | 988  | 1112 |      |     |     |                           | 301  | 426  | 550  | 675  | 799  |      |  |  |  |  |  |
| 6                               | 4       | 4       | 0     | 768           | 422  |                           | 604 | 810  | 1015 | 1220 | 1426 | 1631 | 1836 | 2042 |      | 259 | 464 | 669                       | 874  | 1080 | 1285 | 1490 | 1696 |      |  |  |  |  |  |
|                                 | 5       | 4       | 1     | 864           | 475  |                           |     | 757  | 962  | 1168 | 1373 | 1578 | 1783 | 1989 |      |     | 368 | 573                       | 778  | 984  | 1189 | 1394 | 1600 |      |  |  |  |  |  |
|                                 | 6       | 4       | 2     | 960           | 528  |                           |     | 704  | 909  | 1115 | 1320 | 1525 | 1731 | 1936 |      |     | 272 | 477                       | 682  | 888  | 1093 | 1298 | 1504 |      |  |  |  |  |  |
|                                 | 7       | 4       | 3     | 1056          | 581  |                           |     |      | 856  | 1062 | 1267 | 1472 | 1678 | 1883 |      |     |     | 381                       | 586  | 792  | 997  | 1202 | 1408 |      |  |  |  |  |  |
|                                 | 8       | 4       | 4     | 1152          | 634  |                           |     |      | 804  | 1009 | 1214 | 1420 | 1625 | 1830 |      |     |     | 285                       | 490  | 696  | 901  | 1106 | 1312 |      |  |  |  |  |  |
| 7                               | 4       | 4       | 0     | 1423          | 782  |                           |     | 1120 | 1500 | 1881 | 2261 | 2642 | 3022 | 3403 | 3783 |     | 479 | 860                       | 1240 | 1621 | 2001 | 2382 | 2762 | 3143 |  |  |  |  |  |
|                                 | 5       | 4       | 1     | 1601          | 880  |                           |     | 1022 | 1403 | 1783 | 2164 | 2544 | 2924 | 3305 | 3685 |     | 302 | 682                       | 1063 | 1443 | 1823 | 2204 | 2584 | 2965 |  |  |  |  |  |
|                                 | 6       | 4       | 2     | 1778          | 978  |                           |     |      | 1305 | 1685 | 2066 | 2446 | 2827 | 3207 | 3588 |     |     | 504                       | 885  | 1265 | 1646 | 2026 | 2406 | 2787 |  |  |  |  |  |
|                                 | 7       | 4       | 3     | 1956          | 1075 |                           |     |      | 1207 | 1588 | 1968 | 2349 | 2729 | 3109 | 3490 |     |     | 326                       | 707  | 1087 | 1468 | 1848 | 2229 | 2609 |  |  |  |  |  |
|                                 | 8       | 4       | 4     | 2134          | 1173 |                           |     |      |      | 1490 | 1870 | 2251 | 2631 | 3012 | 3392 |     |     |                           | 529  | 909  | 1290 | 1670 | 2051 | 2431 |  |  |  |  |  |

## Quick pick chart for EA2 (Metric) pneumatic actuators assembled on s64, s76, s72 and s73 RuB ball valves

For service with pipeline  $\Delta P$  lower than the maximum limits shown below, and for media having friction characteristics similar to clean water or moist/lubricated gases the following actuator selections can be used.

For higher pipeline pressures or more difficult media the selection must be made using the valve torque charts found on each valve data sheet, and the actuator torque rating chart found on the following page.

For assistance in actuator selection please contact **RuB** at the following email address: [sales@rubvalves.com](mailto:sales@rubvalves.com) or your **RuB** distributor.

## Linkage kit selection table

|             |  | s64 LT        |    |    |               |    |    |
|-------------|--|---------------|----|----|---------------|----|----|
| Valve size  |  | Actuator size |    |    | Actuator size |    |    |
|             |  | EA2           | -1 | -2 | -2A           | -3 | -4 |
| 1" ~ 1-1/4" |  | LK-           | 1  | 1  | -             | 3  | 3  |
| 1-1/2" ~ 2" |  | LK-           |    |    | 4             | 6  | 6  |

| VALVE  | AP Media (bar) | Air pressure supply (bar)    |    |    |    |    |    |    |    |                                |     |     |     |     |     |     |     |
|--------|----------------|------------------------------|----|----|----|----|----|----|----|--------------------------------|-----|-----|-----|-----|-----|-----|-----|
|        |                | 3                            | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 3                              | 4   | 5   | 6   | 7   | 8   | 9   | 10  |
| s64 LT |                | Double Acting Actuators EA2- |    |    |    |    |    |    |    | Spring-to-Close Actuators EA2- |     |     |     |     |     |     |     |
| 1"     | 6              | 1                            | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 2s2                            | 2s2 | 2s2 | 2s2 | 2s2 | 2s2 | 2s2 | 2s2 |
| 1-1/4" | 6              | 1                            | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 2s3                            | 2s3 | 2s3 | 2s3 | 2s3 | 2s3 | 2s3 | 2s3 |
| 1-1/2" | 6              | 2A                           | 2A | 2A | 2A | 2A | 2A | 2A | 2A | 2A6                            | 2A6 | 2A6 | 2A6 | 2A6 | 2A6 | 2A6 | 2A6 |
| 2"     | 6              | 2A                           | 2A | 2A | 2A | 2A | 2A | 2A | 2A | 3s4                            | 2A8 | 2A8 | 2A8 | 2A8 | 2A8 | 2A8 | 2A8 |
| 1"     | 16 Max         | 1                            | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 2s4                            | 2s4 | 2s4 | 2s4 | 2s4 | 2s4 | 2s4 | 2s4 |
| 1-1/4" | 16 Max         | 1                            | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 2s4                            | 2s4 | 2s4 | 2s4 | 2s4 | 2s4 | 2s4 | 2s4 |
| 1-1/2" | 16 Max         | 2A                           | 2A | 2A | 2A | 2A | 2A | 2A | 2A | 3s4                            | 2A9 | 2A9 | 2A9 | 2A9 | 2A9 | 2A9 | 2A9 |
| 2"     | 16 Max         | 3                            | 2A | 2A | 2A | 2A | 2A | 2A | 2A | 3s6                            | 3s6 | 3s6 | 3s6 | 3s6 | 3s6 | 3s6 | 3s6 |

|                 |  | s64           |    |    |               |    |    |
|-----------------|--|---------------|----|----|---------------|----|----|
| Valve size      |  | Actuator size |    |    | Actuator size |    |    |
|                 |  | EA2           | -1 | -2 | -2A           | -3 | -4 |
| 1/2" ~ 1"       |  | LK-           | 1  | 1  | -             | 3  | 3  |
| 1-1/4" ~ 1-1/2" |  | LK-           |    |    | 4             | 6  | 13 |
| 2"              |  | LK-           |    |    | 4             | 4  | 14 |
| 2-1/2" ~ 4"     |  | LK-           |    |    |               |    | 15 |

| VALVE  | AP Media (bar) | Air pressure supply (bar)    |    |    |    |    |    |    |    |                                |     |     |     |     |     |     |     |
|--------|----------------|------------------------------|----|----|----|----|----|----|----|--------------------------------|-----|-----|-----|-----|-----|-----|-----|
|        |                | 3                            | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 3                              | 4   | 5   | 6   | 7   | 8   | 9   | 10  |
| s64    |                | Double Acting Actuators EA2- |    |    |    |    |    |    |    | Spring-to-Close Actuators EA2- |     |     |     |     |     |     |     |
| 1/2"   | 15             | 1                            | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 2s2                            | 2s2 | 2s2 | 2s2 | 2s2 | 2s2 | 2s2 | 2s2 |
| 3/4"   | 15             | 1                            | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 2s3                            | 2s3 | 2s3 | 2s3 | 2s3 | 2s3 | 2s3 | 2s3 |
| 1"     | 15             | 2                            | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2s4                            | 2s4 | 2s4 | 2s4 | 2s4 | 2s4 | 2s4 | 2s4 |
| 1-1/4" | 15             | 2A                           | 2A | 2A | 2A | 2A | 2A | 2A | 2A | 3s6                            | 3s6 | 3s6 | 3s6 | 3s6 | 3s6 | 3s6 | 3s6 |
| 1-1/2" | 15             | 3                            | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 4s4                            | 4s4 | 4s4 | 4s4 | 4s4 | 4s4 | 4s4 | 4s4 |
| 2"     | 15             | 4                            | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 4s5                            | 4s5 | 4s5 | 4s5 | 4s5 | 4s5 | 4s5 | 4s5 |
| 2-1/2" | 15             | 5                            | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 7s4                            | 5s4 | 5s4 | 5s4 | 5s4 | 5s4 | 5s4 | 5s4 |
| 3"     | 15             | 7                            | 6  | 5  | 5  | 5  | 5  | 5  | 5  | 7s4                            | 7s4 | 7s4 | 7s4 | 7s4 | 7s4 | 7s4 | 7s4 |
| 4"     | 15             | 7                            | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7s7                            | 7s7 | 7s7 | 7s7 | 7s7 | 7s7 | 7s7 | 7s7 |

\* Selections apply for valves used with  $\Delta P$  up to 15 bar Max. For  $\Delta P$  over 15 bar and up to 40 bar (30 bar for sizes over 2"), please consult **BONOMI INDUSTRIES** for sizing recommendations.

|            |  | s72, s73, s76 |    |    |               |    |    |
|------------|--|---------------|----|----|---------------|----|----|
| Valve size |  | Actuator size |    |    | Actuator size |    |    |
|            |  | EA2           | -1 | -2 | -2A           | -3 | -4 |
| 1/2" ~ 1"  |  | LK-           | 1  | 1  | -             | 3  | 3  |

| VALVE    | AP Media (bar) | Air pressure supply (bar)    |   |   |   |   |   |   |    |                                |     |     |     |     |     |     |     |
|----------|----------------|------------------------------|---|---|---|---|---|---|----|--------------------------------|-----|-----|-----|-----|-----|-----|-----|
|          |                | 3                            | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 3                              | 4   | 5   | 6   | 7   | 8   | 9   | 10  |
| s72, s73 |                | Double Acting Actuators EA2- |   |   |   |   |   |   |    | Spring-to-Close Actuators EA2- |     |     |     |     |     |     |     |
| 1/2"     | 15             | 2                            | 2 | 2 | 2 | 2 | 2 | 2 | 2  | 4s4                            | 3s7 | 3s7 | 3s7 | 3s7 | 3s7 | 3s7 | 3s7 |
| 3/4"     | 15             | 3                            | 2 | 2 | 2 | 2 | 2 | 2 | 2  | 4s4                            | 4s4 | 4s4 | 4s4 | 4s4 | 4s4 | 4s4 | 4s4 |
| 1"       | 15             | 4                            | 3 | 3 | 3 | 3 | 3 | 3 | 3  | 4s9                            | 4s9 | 4s9 | 4s9 | 4s9 | 4s9 | 4s9 | 4s9 |

\* Selections apply for valves used with  $\Delta P$  up to 16 bar Max. For  $\Delta P$  over 16 bar and up to 20 bar, please consult **BONOMI INDUSTRIES** for sizing recommendations.

| VALVE | AP Media (bar) | Air pressure supply (bar)    |   |   |   |   |   |   |    |                                |     |     |     |     |     |     |     |
|-------|----------------|------------------------------|---|---|---|---|---|---|----|--------------------------------|-----|-----|-----|-----|-----|-----|-----|
|       |                | 3                            | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 3                              | 4   | 5   | 6   | 7   | 8   | 9   | 10  |
| s76   |                | Double Acting Actuators EA2- |   |   |   |   |   |   |    | Spring-to-Close Actuators EA2- |     |     |     |     |     |     |     |
| 1/2"  | 15             | 1                            | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 2s6                            | 2s6 | 2s6 | 2s6 | 2s6 | 2s6 | 2s6 | 2s6 |
| 3/4"  | 15             | 1                            | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 2s6                            | 2s6 | 2s6 | 2s6 | 2s6 | 2s6 | 2s6 | 2s6 |
| 1"    | 15             | 2                            | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 2s7                            | 2s7 | 2s7 | 2s7 | 2s7 | 2s7 | 2s7 | 2s7 |

Red font = selection driven by valve stem size

## Quick pick chart for EA4 (Imperial) pneumatic actuators assembled on s64,s76, s134, s72 and s73 RuB ball valves

For service with pipeline ΔP lower than the maximum limits shown below, and for media having friction characteristics similar to clean water or moist/lubricated gases the following actuator selections can be used.

For higher pipeline pressures or more difficult media the selection must be made using the valve torque charts found on each valve data sheet, and the actuator torque rating chart found on the following page.

### Linkage kit selection table

| s64 LT      |                  |
|-------------|------------------|
| Valve size  | Actuator size    |
| 1" ~ 1-1/4" | EA4 -1 -2 -2A -3 |
| 1-1/2" ~ 2" | LK- 8 9 9        |
|             | LK- 4 6          |

| s64             |                          |
|-----------------|--------------------------|
| Valve size      | Actuator size            |
| 1/2" ~ 1"       | EA4 -1 -2 -3 -4 -5 -6 -7 |
| 1-1/4" ~ 1-1/2" | LK- 8 9 9 - - -          |
| 2-1/2" ~ 4"     | LK- 10 10 16 16 23 24    |

| s134        |                          |
|-------------|--------------------------|
| Valve size  | Actuator size            |
| 1/2" ~ 3/4" | EA4 -1 -2 -3 -4 -5 -6 -7 |
| 1" ~ 1-1/2" | LK- 8 9 9 - - -          |
| 2"          | LK- 11 11 19 20 -        |

| s72, s73, s76 |                 |
|---------------|-----------------|
| Valve size    | Actuator size   |
| 1/2" ~ 1"     | EA4 -1 -2 -3 -4 |
|               | LK- 8 8 9 9     |

| VALVE  | ΔP Media (PSI) | Air pressure supply (PSI)    |    |    |    |    |    |     |     |     |                                |     |     |     |     |     |     |     |     |                               |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     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|        |                | 40                           | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 40                             | 50  | 60  | 70  | 80  | 90  | 100 | 110 | 120 |                               |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 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    |     |     |    |
| s64 LT |                | Double Acting Actuators EA4- |    |    |    |    |    |     |     |     | Spring-to-Close Actuators EA4- |     |     |     |     |     |     |     |     | Spring-to-Open Actuators EA4- |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 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| 1"     | 90             | 1                            | 1  | 1  | 1  | 1  | 1  | 1   | 1   | 1   | 252                            | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252                           | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 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252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 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|       |                 | 40                           | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 40                             | 50  | 60  | 70  | 80  | 90  | 100 | 110 | 120 |                               |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     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   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| s64   | ΔP* Media (PSI) | Double Acting Actuators EA4- |    |    |    |    |    |     |     |     | Spring-to-Close Actuators EA4- |     |     |     |     |     |     |     |     | Spring-to-Open Actuators EA4- |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  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    |     |  |
| 1/2"  | 200             | 1                            | 1  | 1  | 1  | 1  | 1  | 1   | 1   | 1   | 252                            | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 252 | 253                           | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 | 253 |  |

\* Selections apply for valves used with ΔP up to 200 PSI Max. For ΔP over 200 PSI and up to 600 PSI (450 PSI for sizes over 2"), please consult BONOMI INDUSTRIES for sizing recommendations.  
Note: s74 available up to 1" size.

|        |                 | Air pressure supply (PSI)    |    |    |    |    |    |     |     |     |                                |     |     |     |     |     |     |     |     |                               |  |
|--------|-----------------|------------------------------|----|----|----|----|----|-----|-----|-----|--------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------------------------------|--|
| VALVE  | ΔP* Media (PSI) | 40                           | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 40                             | 50  | 60  | 70  | 80  | 90  | 100 | 110 | 120 |                               |  |
| s134   | ΔP* Media (PSI) | Double Acting Actuators EA4- |    |    |    |    |    |     |     |     | Spring-to-Close Actuators EA4- |     |     |     |     |     |     |     |     | Spring-to-Open Actuators EA4- |  |
| 1/2"   | 200             | 2                            | 2  | 2  | 1  | 1  | 1  | 1   | 1   | 1   | 254                            | 254 | 254 | 254 | 254 | 254 | 254 | 254 | 254 |                               |  |
| 3/4"   | 200             | 2                            | 2  | 2  | 2  | 2  | 1  | 1   | 1   | 1   | 354                            | 257 | 257 | 257 | 257 | 257 | 354 | 354 | 257 |                               |  |
| 1"     | 200             | 3                            | 3  | 3  | 3  | 3  | 3  | 3   | 3   | 3   | 354                            | 354 | 354 | 354 | 354 | 354 | 354 | 354 | 257 |                               |  |
| 1-1/4" | 200             | 3                            | 3  | 3  | 3  | 3  | 3  | 3   | 3   | 3   | 453                            | 356 | 356 | 356 | 356 | 356 | 356 | 356 | 356 |                               |  |
| 1-1/2" | 200             | 3                            | 3  | 3  | 3  | 3  | 3  | 3   | 3   | 3   | 453                            | 356 | 356 | 356 | 356 | 356 | 356 | 356 | 356 |                               |  |
| 2"     | 200             | 4                            | 3  | 3  | 3  | 3  | 3  | 3   | 3   | 3   | 454                            | 454 | 454 | 358 | 358 | 358 | 358 | 358 | 358 |                               |  |
|        | 200             | 4                            | 4  | 3  | 3  | 3  | 3  | 3   | 3   | 3   | 456                            | 456 | 456 | 456 | 456 | 456 | 456 | 456 | 456 |                               |  |

\* Selections apply for valves used with ΔP up to 200 PSI Max. For AP over 200 PSI and up to 1000 PSI, please consult **BONOMI INDUSTRIES** for sizing recommendations.

\* Selections apply for valves used with ΔP up to 200 PSI Max. For ΔP over 200 PSI and up to 1000 PSI, please consult BONOMI INDUSTRIES for sizing recommendations.

| VALVE    | ΔP* Media (PSI) | Air pressure supply (PSI)    |    |    |    |    |    |     |     |     |                                |     |     |     |     |     |     |     |     |                               |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   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    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     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|          |                 | 40                           | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 40                             | 50  | 60  | 70  | 80  | 90  | 100 | 110 | 120 |                               |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     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 |
| s72, s73 | ΔP* Media (PSI) | Double Acting Actuators EA4- |    |    |    |    |    |     |     |     | Spring-to-Close Actuators EA4- |     |     |     |     |     |     |     |     | Spring-to-Open Actuators EA4- |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1/2"     | 230             | 2                            | 2  | 2  | 2  | 2  | 2  | 2   | 2   | 1   | 454                            | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357                           | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 | 357 |

\* Selections apply for valves used with ΔP up to 230 PSI Max. For ΔP over 230 PSI and up to 300 PSI, please consult BONOMI INDUSTRIES for sizing recommendations.

| VALVE | ΔP Media (PSI) | Air pressure supply (PSI)    |    |    |    |    |    |     |     |     |                                |     |     |     |     |     |     |     |     |                               |  |  |  |  |  |  |  |  |
|-------|----------------|------------------------------|----|----|----|----|----|-----|-----|-----|--------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------------------------------|--|--|--|--|--|--|--|--|
|       |                | 40                           | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 40                             | 50  | 60  | 70  | 80  | 90  | 100 | 110 | 120 |                               |  |  |  |  |  |  |  |  |
| s76   | ΔP Media (PSI) | Double Acting Actuators EA4- |    |    |    |    |    |     |     |     | Spring-to-Close Actuators EA4- |     |     |     |     |     |     |     |     | Spring-to-Open Actuators EA4- |  |  |  |  |  |  |  |  |
| 1/2"  | 200            | 1                            | 1  | 1  | 1  | 1  | 1  | 1   | 1   | 1   | 256                            | 256 | 256 | 256 | 256 | 256 | 256 | 256 | 256 |                               |  |  |  |  |  |  |  |  |
| 3/4"  | 200            | 2                            | 1  | 1  | 1  | 1  | 1  | 1   | 1   | 1   | 256                            | 256 | 256 | 256 | 256 | 256 | 256 | 256 | 256 |                               |  |  |  |  |  |  |  |  |
| 1"    | 200            | 2                            | 1  | 1  | 1  | 1  | 1  | 1   | 1   | 1   | 257                            | 257 | 257 | 257 | 257 | 257 | 257 | 257 | 257 |                               |  |  |  |  |  |  |  |  |

Red font = selection driven by valve stem size



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