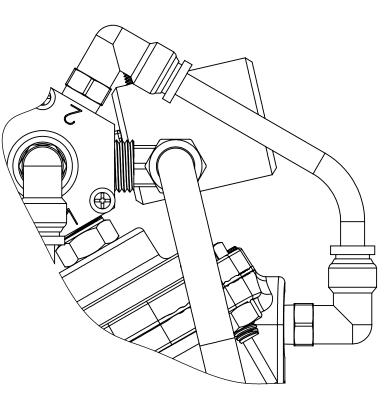
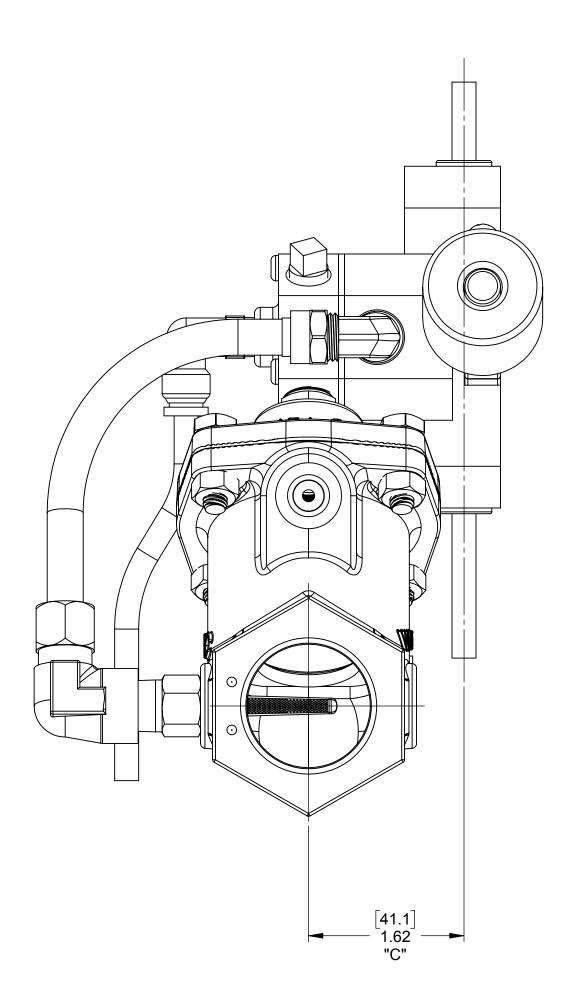


| VALVE SERIES | 421           | 424            | 425           | 426           | 427            | 428                   |
|--------------|---------------|----------------|---------------|---------------|----------------|-----------------------|
| PIPE SIZE    | 1"            | 1-1/4", 1-1/2" | 2"            | 2"            | 3"             | 4"                    |
| А            | 7.20<br>182.9 | 8.29<br>210.6  | 9.29<br>132.1 | 9.87<br>236.0 | 10.80<br>274.3 | $\frac{12.80}{325.1}$ |
| В            | 6.50<br>165.1 | 7.81<br>198.4  | 8.37<br>212.6 | 9.56<br>242.8 | 10.56<br>268.2 | 13.81<br>350.8        |
| С            | 1.70<br>43.2  | 4.20<br>106.7  | 5.20<br>132.1 | 5.20<br>132.1 | 6.20<br>157.5  | 6.20<br>157.5         |

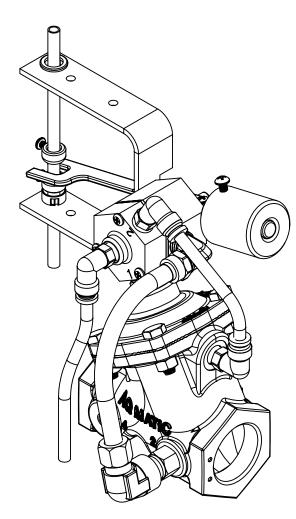


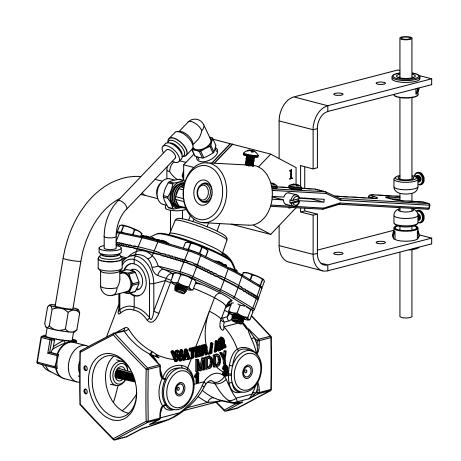
Δ

**POWERED OPEN OPTION** FOR DETAILED ASSEMBLY SEE PG'S - 2 & 5



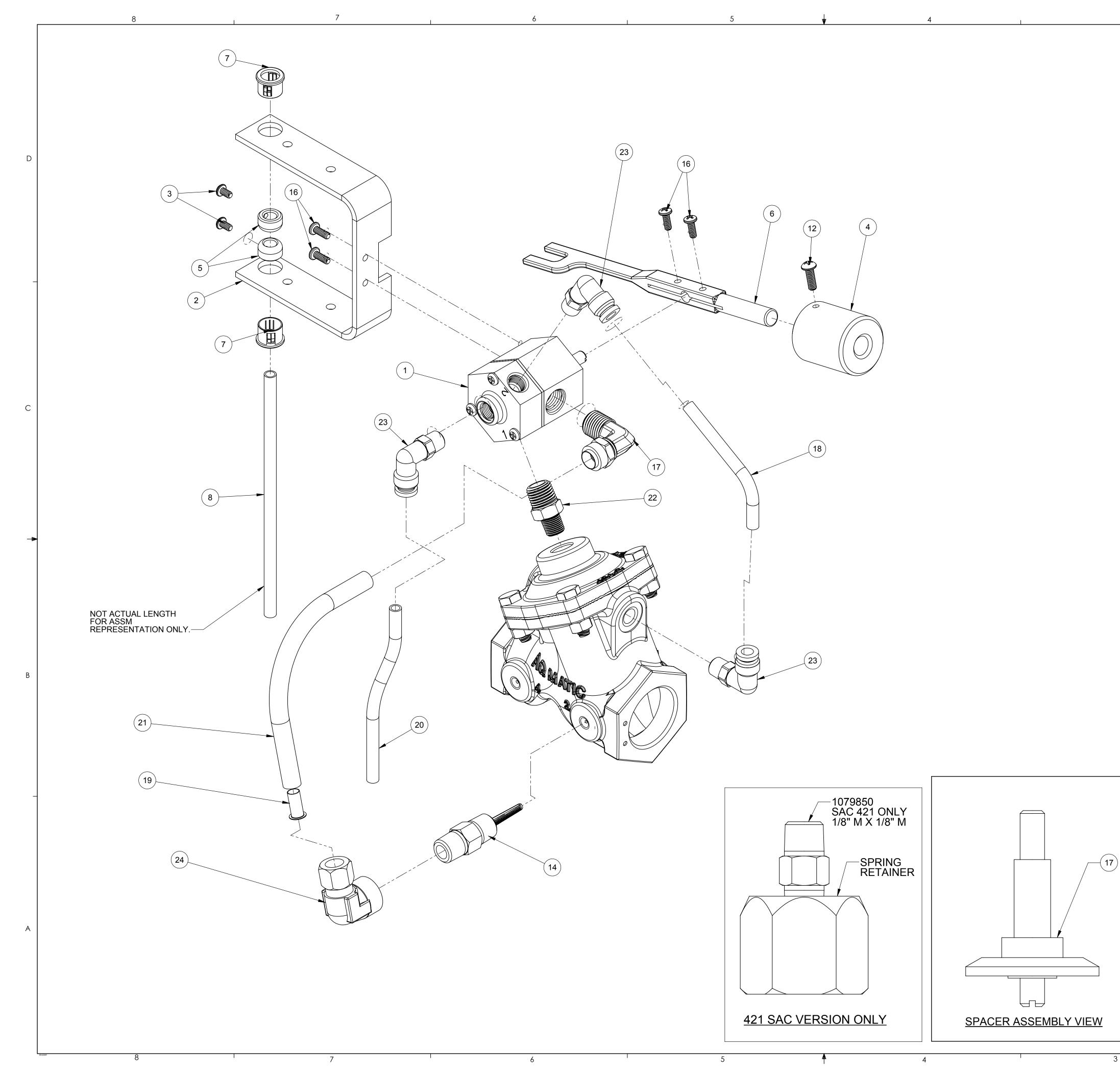
|  |        | 2 |                                  | 1   |          |       |  |  |
|--|--------|---|----------------------------------|---|----------|-------|--|--|
| REVISIONS  |        |   |                                  |   |          |       |  |  |
| ZONE ECN REV.  |        |   |                                  | DESCRIPTION   | DATE     | APP'D |  |  |
| 104648 F 1-UPDATED TITLE BLOCKS, 2-<br>SAC VIEW ON PG'S 3 & 4. |        |   |                                  | D: PG-3 & 6 FOR STD FLOAT VERSIONS, 3-ADD'D: 421  | 22MAY15  | TJM   |  |  |
| 1&2-PG2, 2&3-PG3,<br>4-PG4, 5&6-PG5,<br>7&8-PG6                | 104648 | G |                                  | F#22 180°, 3-IT#14-WAS:1074001,4-ADDED SIDE VIEWS,<br>1:1074002,7-IT#15-WAS:1074001,8-IT#18-REM'D:1074002 | 19AUG15  | TJM   |  |  |
| 1-PG2,3,5&6<br>2-PG 5&6,<br>3-PG-7                             | 105334 | Н | 1-WAS:3029346 NOW:16586-8, 2-IT# | 18 WAS IT# 26, 3-ADD'D: PG-7 (CLOSED IF- LOW)   | 25NOV15  | TJM   |  |  |
|  | 1001   | J | AQ Matic update & ve             | rified part numbers   | 20JAN17  | MGS   |  |  |
|  | 1372   | К | 1-UPDATE VALVE BODIES/           | CAPS, 2-CORRECT ASSEMBLY ISSUES   | 12/06/18 | KJB   |  |  |





В

| COMPONENTS / ASSEME   | N IES TO BE COMPLIANT AND C | OMPATIBI F WITH |           | FLOAT                          | -428<br>VALVES<br>S PAGE | A        |
|---|-----------------------------|-----------------|-----------|--------------------------------|--------------------------|----------|
| JMENT IS SOLELY THE PROPERTY OF AQ Matic  |                             |                 |           |                                |                          |          |
| ONTROLS COMPANY INC. REPRODUCTION, USE<br>RE, OR TRANSMISSION OF THIS DOCUMENT OR<br>ONTAINED HEREIN. IN PART OR IN WHOLE. IS |                             |                 | 10        | Matic Valve                    | AQ Matic                 | Inc      |
| ED WITHOUT THE WRITTEN CONSENT OF AQ<br>GINEERING. THIS DOCUMENT AND ANY COPIES<br>RETURNED TO AQ MATIC UPON REQUEST.         | APPROVALS                   | DATE            |           | Valve                          |                          |          |
| RETURNED TO AQ MATIC OF ON REQUEST.   | DRAWN                       |                 |           |                                |                          | .        |
| CALE DRAWING. DIMS. ARE IN INCHES [mm]<br>T DIMS AND TOLERANCES PER ASME Y14.5M -2009   | SM                          | 04/18/11        |           | LOG SHEET, 420<br>LOAT OPERATE |                          |          |
| THERWISE SPECIFIED:<br>IED MACHINED SURFACES 125 / OR BETTER.   | APPROVED                    |                 |           |                                |                          |          |
| XES: *  |                             |                 |           | <sup>WG NO.</sup> 1078         | 190                      | REV<br>K |
| .X: ± .015 [0.38]   | CHECKED                     |                 |           | 1070                           | 100                      |          |
| .XX: ± .01 [0.3]<br>.XXX: ± .005 [0.13]   |                             |                 | SCALE 1:1 |                                | SHEET 1 OF 7             |          |
| 1 A   | 2                           |                 | · I       | ]                              |                          |          |



SEE NOTE 2

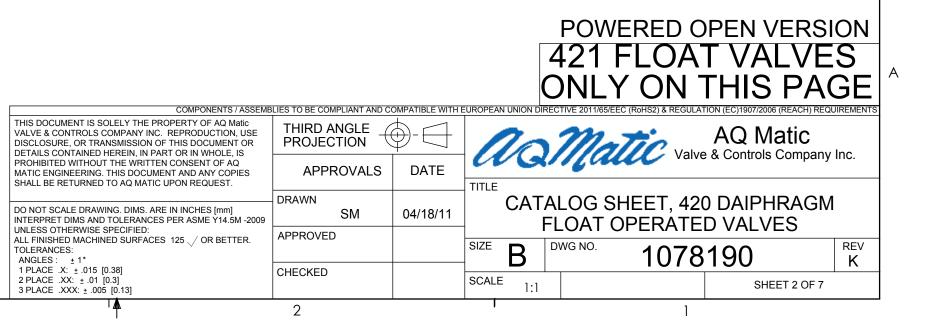
|             |     |  | 2       | I                  | 1           |          |       |  |
|-------------|-----|--|---------|--------------------|-------------|----------|-------|--|
|             |     | 1  | 1       | REVISIONS          |             |          |       |  |
| Z           | ONE | E ECN REV. DESCRIPTION SEE SHEET ONE FOR NOTES |         |                    |             | DATE     | APP'D |  |
|             |     |  |         | SEE SHEET ONE FOR  | ANOTES      |          |       |  |
|             |     |  |         |                    |             |          |       |  |
|             |     |  |         |                    |             |          |       |  |
|             |     |  |         |                    |             |          |       |  |
| ITEM<br>NO. |     |  |         | DESCRIPTION        | PART NUMBER | QTY. (42 | 1)    |  |
| 1           | PIL | OT CNT   | L ASS)  | ′, 348, -AE        | 1073992     | 1        |       |  |
| 2           | BR  | ACKET,   | 348,    |                    | 1074012     | 1        |       |  |
| 3           | RD. | . HD. MA                                       | ACH. SO | CREW, (6-32 X 1/4) | 1072370     | 2        |       |  |
| 4           | СО  | UNTER  | NEIGH   | T, STD             | 1074014     | 1        |       |  |
| 5           | CEI | NTERIN   | G COLI  | _AR, BRASS         | 1074017     | 2        |       |  |
| 6           | LE/ | /ER, 348                                       | 3       |                    | 1074034     | 1        |       |  |
| 7           | BU  | SHING,   |         |                    | 1074016     | 2        |       |  |
| 8           | FLC | DAT ROI  | D,      |                    | 1074023     |          |       |  |
| 9           | STI | JD, THR  | D, #12  | -24 UNC-2A, BRASS  | 1074025     | 1        |       |  |
| 10          | GR  | EASE, L  | UBRIP   | LATE, FGL-2        | 16856-8     | 1        |       |  |
| 11          | FLC | DAT,SAN  | ND,5"   |                    | 1073996     | 1        |       |  |
| 12          | RD. | . HD. MA                                       | ACH SC  | REW, (8-32 X 1/2)  | 1072375     | 1        |       |  |
| 13          | STR | RAINER,  |         |                    | 1074002     | 1        |       |  |
| 14          | STR | RAINER   | ASSY    |                    | 1074004     | 1        |       |  |
| 15          | SPA | ACER, B  | RASS    |                    | 1074127     | 1        |       |  |
| 16          | SCI | REW, Pł  | HLP, PI | N HD               | 1072371     | 4        |       |  |
| 17          | FIT | TING, E  | LBOW,   | BRASS              | 1074037     | 1        |       |  |
| 18          | TUE | BING, P  | OLY 1/4 | l" O.D. X .035     | 1071936     | 1        |       |  |
| 19          | FIT | TING,IN  | SERT,3  | 3/8                | 10332       | 32 1     |       |  |
| 20          | TU  | BING, PO                                       | OLY 1/4 | ₩ O.D. X .035      | 1071936     | 1        |       |  |
| 21          | FIT | TING,TU  | JBE,.37 | OD                 | 1071940     | 1        |       |  |
| 22          | FIT | TING, N  | IPPLE,  | 1/4X1/8 REDUCR     | 1074038     | 1        |       |  |
| 23          | FIT | TING, E  | LBOW,   | TUBE,1/8MNPT X     | 1078765     | 3        |       |  |
| 24          | FIT | TING, E  | LBOW,   | TUBE 1/4FNPTX3/    | 1074007     | 1        |       |  |
|             |     |  |         |                    | 1           | 1        |       |  |

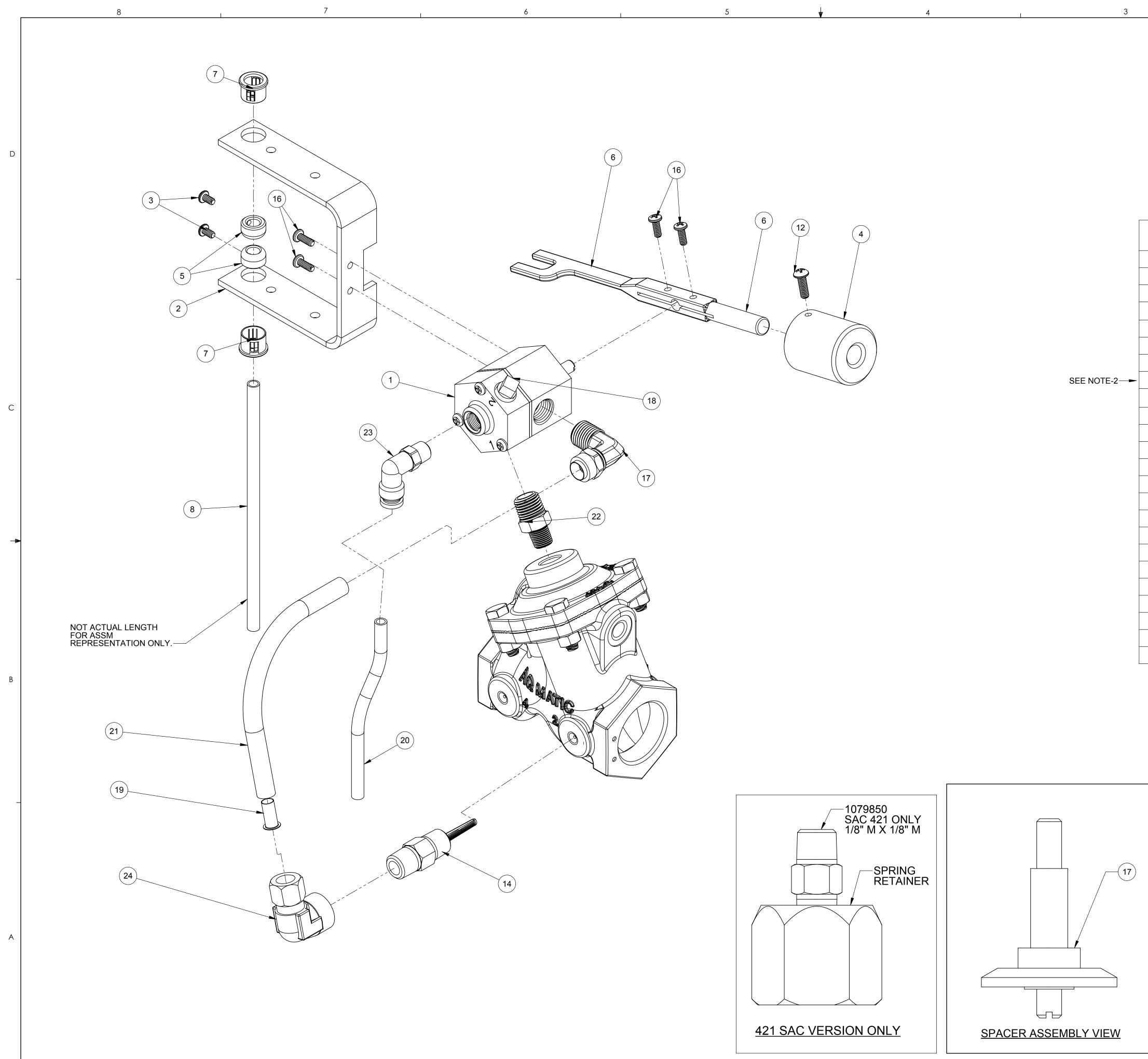
В

| PAINT OPTIONS |       |  |  |  |  |  |  |
|---------------|-------|--|--|--|--|--|--|
| PART #        | COLOR |  |  |  |  |  |  |
| 42805         | RED   |  |  |  |  |  |  |
| 43198         | BLUE  |  |  |  |  |  |  |
| 42807         | BLACK |  |  |  |  |  |  |
| 42808         | ASH   |  |  |  |  |  |  |

NOTES:

- DRILL AND TAP PORT #2 WITH 1/4" NPT. [421 VALVE]
   SEE DRAWING 1078193 FOR ROD LENGTH/MATERIAL OPTIONS.
   421 MODEL IS SHOWN ON THIS DRAWING SHEET. SEE SHEET 4, 5, & 6 FOR 424-428 MODELS.
   STANDARD 421 MODEL SHOWN.





7

5

4

ITEM NO. DE PIL 1 BR/ 2 RD. 3 CO 4 CEI 5 LE\ 6 BUS 7 FLC 8 STL 9 GRI 10 11 FLC RD. 12 STF 13 ------14 STF SPA 15 16 SCI 17 FIT PLU 18 19 FIT 20 TUE 21 FIT 22 FITT 23 FITT 24 FITT

THIS DOCUME VALVE & CONT DISCLOSURE, DETAILS CONT PROHIBITED W MATIC ENGINE SHALL BE RET DO NOT SCALE INTERPRET DII UNLESS OTHE ALL FINISHED TOLERANCES: ANGLES : <u><u></u> 1 PLACE .XX: 3 PLACE .XX:</u>

3

|      |           | 2    | 1                       |      |       |  |  |  |  |  |  |  |  |
|------|-----------|------|-------------------------|------|-------|--|--|--|--|--|--|--|--|
|      | REVISIONS |      |                         |      |       |  |  |  |  |  |  |  |  |
| ZONE | ECN       | REV. | DESCRIPTION             | DATE | APP'D |  |  |  |  |  |  |  |  |
|      |           |      | SEE SHEET ONE FOR NOTES |      |       |  |  |  |  |  |  |  |  |
|      |           |      |                         |      |       |  |  |  |  |  |  |  |  |
|      |           |      |                         |      |       |  |  |  |  |  |  |  |  |
|      |           |      |                         |      |       |  |  |  |  |  |  |  |  |
|      |           |      |                         |      |       |  |  |  |  |  |  |  |  |
|      |           |      |                         |      |       |  |  |  |  |  |  |  |  |

| ESCRIPTION                       | PART NUMBER | QTY. (421) |
|----------------------------------|-------------|------------|
| LOT CNTL ASSY, 348, -AE          | 1073992     | 1          |
| RACKET, 348                      | 1074012     | 1          |
| D. HD. MACH. SCREW, (6-32 X 1/4) | 1072370     | 2          |
| DUNTERWEIGHT, STD                | 1074014     | 1          |
| ENTERING COLLAR, BRASS           | 1074017     | 2          |
| VER, 348                         | 1074034     | 1          |
| JSHING                           | 1074016     | 2          |
| OAT ROD                          | 1074023     | 1          |
| UD, THRD, #12-24 UNC-2A, BRASS   | 1074025     | 1          |
| REASE, LUBRIPLATE, FGL-2         | 16856-8     | 1          |
| .OAT,SAND,5"                     | 1073996     | 1          |
| D. HD. MACH SCREW, (8-32 X 1/2)  | 1072375     | 1          |
| RAINER                           | 1074002     | 1          |
| RAINER ASSY                      | 1074004     | 1          |
| PACER, BRASS                     | 1074127     | 1          |
| CREW, PHLP, PN HD                | 1072371     | 4          |
| TTING, ELBOW, BRASS              | 1074037     | 1          |
| UG, PIPE                         | 1071903     | 1          |
| TTING,INSERT,3/8                 | 10332       | 1          |
| JBING, POLY 1/4" O.D. X .035     | 1071936     | 1          |
| TTING,TUBE,.37 OD                | 1071940     | 1          |
| TTING, NIPPLE, 1/4X1/8 REDUCR    | 1074038     | 1          |
| TTING, ELBOW,TUBE,1/8MNPT X      | 1078765     | 1          |
| TTING, ELBOW, TUBE 1/4FNPTX3/    | 1074007     | 1          |
|                                  |             |            |

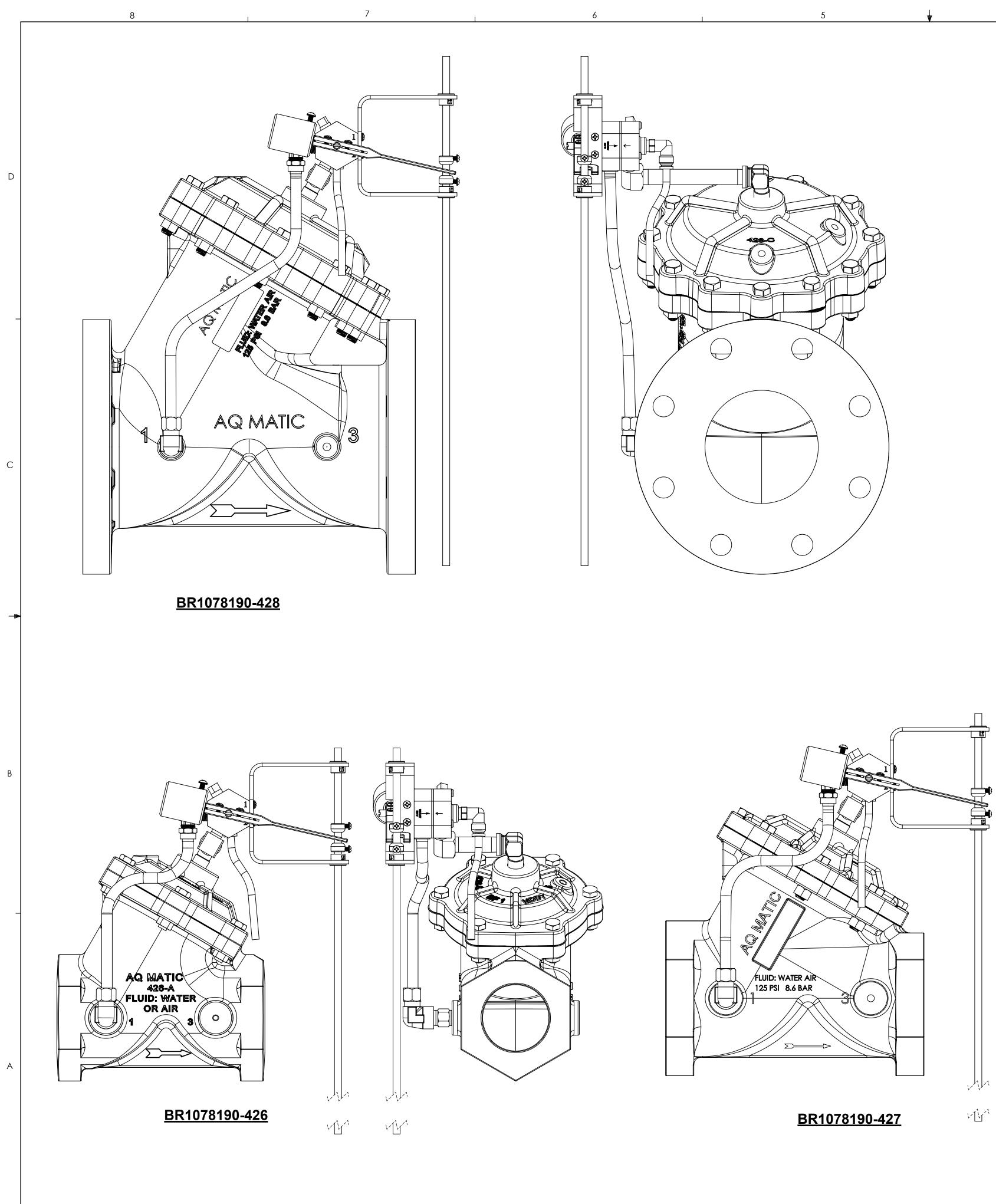
| PAINT OPTIONS |       |  |  |  |  |  |
|---------------|-------|--|--|--|--|--|
| PART #        | COLOR |  |  |  |  |  |
| 42805         | RED   |  |  |  |  |  |
| 43198         | BLUE  |  |  |  |  |  |
| 42807         | BLACK |  |  |  |  |  |
| 42808         | ASH   |  |  |  |  |  |
|               |       |  |  |  |  |  |

## NOTES:

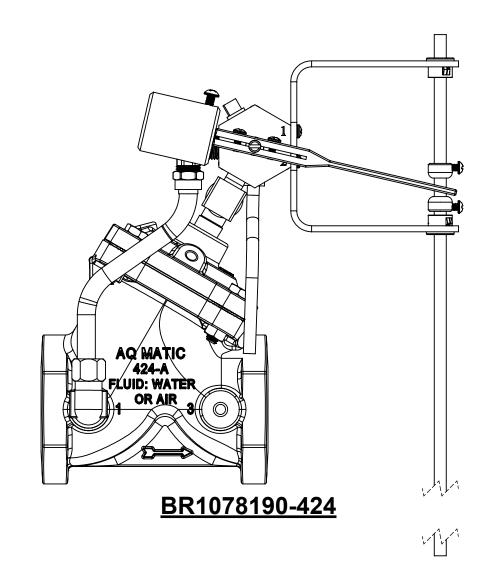
- DRILL AND TAP PORT #2 WITH 1/4" NPT. [421 VALVE]
   SEE DRAWING 1078193 FOR ROD LENGTH/MATERIAL OPTIONS.
   421 MODEL IS SHOWN ON THIS DRAWING SHEET. SEE SHEET 4, 5, & 6 FOR 424-428 MODELS.
   STANDARD 421 MODEL SHOWN.

| COMPONENTS / ASSEMB   |                           |          | C             | 421 FLOA<br>DNLY ON<br>CTIVE 2011/65/EEC (ROHS2) & REGULA | THIS PAG     | GE       |
|---|---------------------------|----------|---------------|---|--------------|----------|
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| LE DRAWING. DIMS. ARE IN INCHES [mm]<br>DIMS AND TOLERANCES PER ASME Y14.5M -2009<br>IERWISE SPECIFIED:   | DRAWN<br>SM               | 04/18/11 |               | LOG SHEET, 42<br>LOAT OPERATE                             |              |          |
| D MACHINED SURFACES $125 \sqrt{\text{OR BETTER.}}$<br>S:<br>$\pm 1^{\circ}$   | APPROVED                  |          | SIZE <b>B</b> | <sup>DWG NO.</sup> 1078                                   | 190          | REV<br>K |
| (; ± .015 [0.38]<br>(X; ± .01 [0.3]<br>(XX; ± .005 [0.13]   | CHECKED                   |          | SCALE 1:1     |   | SHEET 3 OF 7 |          |
| ч <b>ф</b> .  | 2                         |          | I             | 1   |              |          |

STANDARD VERSION



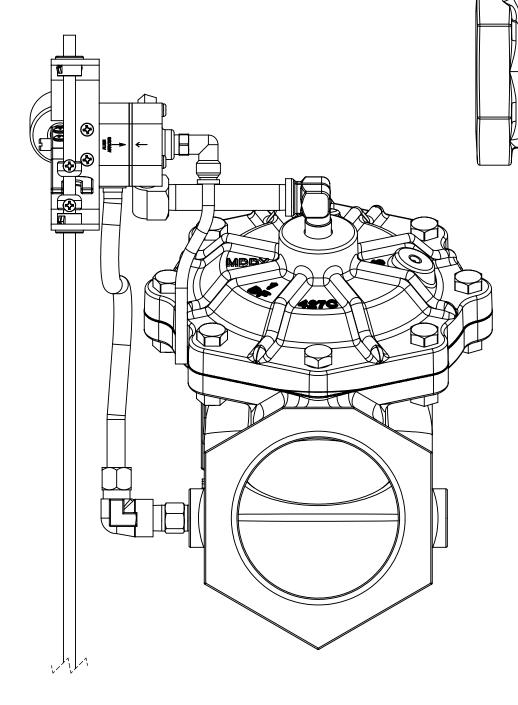
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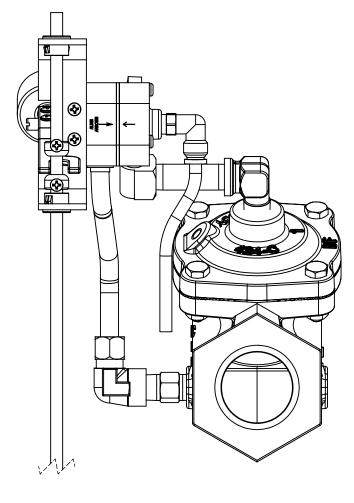
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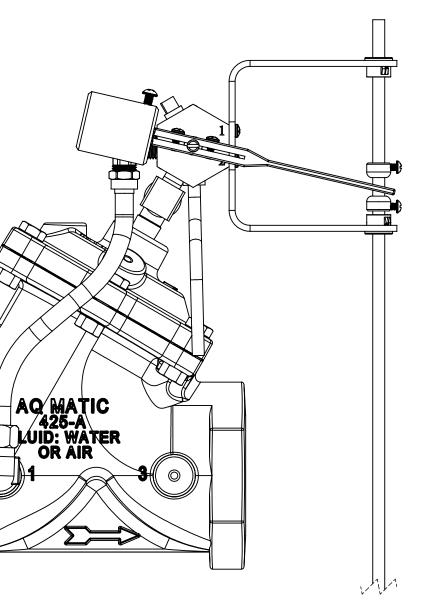
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3

|         |           | 2    |  | I                 | 1 |      |       |  |  |  |
|---------|-----------|------|--|-------------------|---|------|-------|--|--|--|
|         | REVISIONS |      |  |                   |   |      |       |  |  |  |
| ZONE    | ECN       | REV. |  | DESCRIPTION       |   | DATE | APP'D |  |  |  |
| SEE SHE |           |      |  | EET ONE FOR NOTES |   |      |       |  |  |  |
|         |           |      |  |                   |   |      |       |  |  |  |
|         |           |      |  |                   |   |      |       |  |  |  |
|         |           |      |  |                   |   |      |       |  |  |  |
|         |           |      |  |                   |   |      |       |  |  |  |

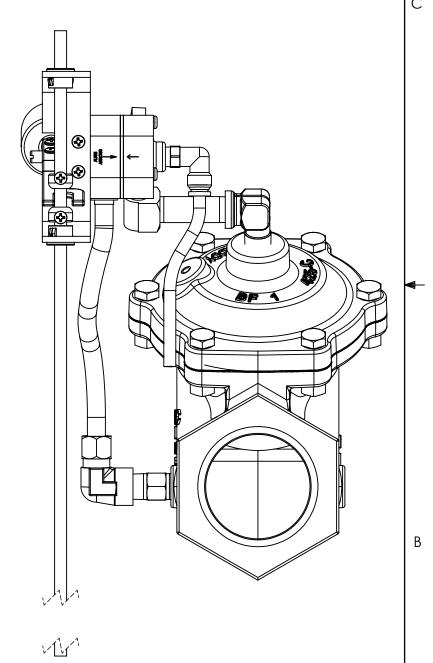


-11-1



## <u>BR1078190-425</u>

1-11-1



424 - 428 SRANDARD VERSIONS SHOWN AQ Matic Valve & Controls Company Inc. ..... ET, 420 DAIPHRAGM RATED VALVES

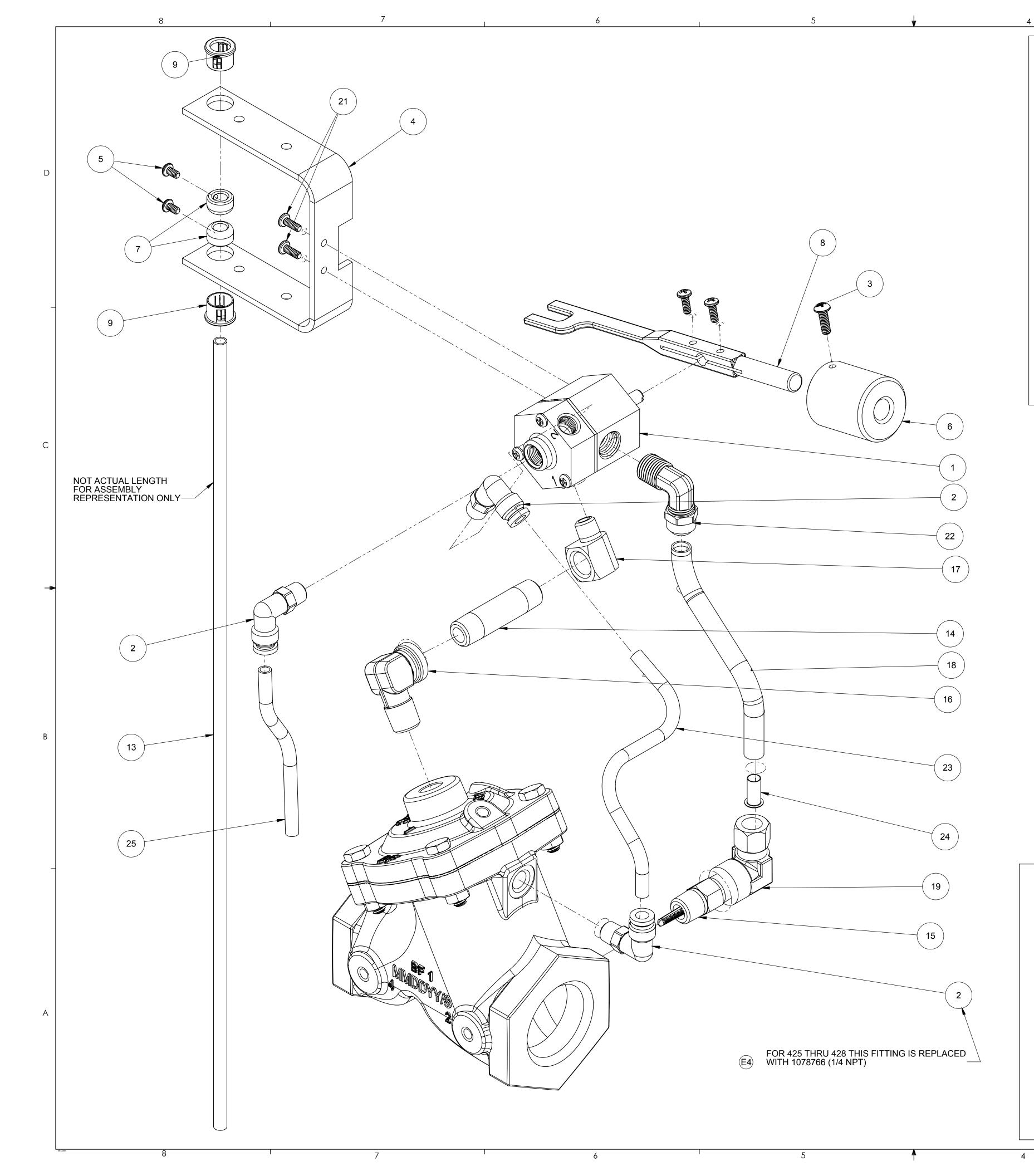
1

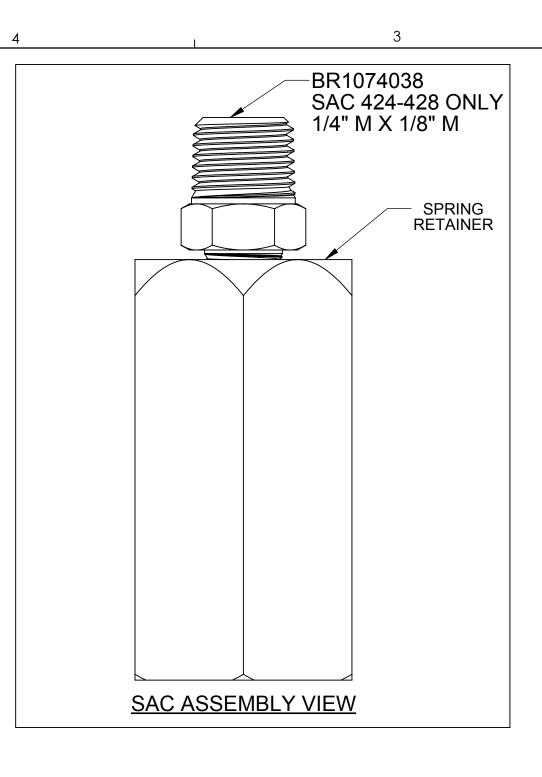
REV K

SHEET 4 OF 7

| COMPONENTS / ASSEME   | BLIES TO BE COMPLIANT AND CO | OMPATIBLE WITH E |               | N UNION DI | IRECTI | VE 2011/65/ | /EEC (RoHS2) & REGUL | ATION (EC)1907/200 |
|---|------------------------------|------------------|---------------|------------|--------|-------------|----------------------|--------------------|
| THIS DOCUMENT IS SOLELY THE PROPERTY OF AQ Matic<br>VALVE & CONTROLS COMPANY INC. REPRODUCTION, USE<br>DISCLOSURE, OR TRANSMISSION OF THIS DOCUMENT OR<br>DETAILS CONTAINED HEREIN. IN PART OR IN WHOLE. IS | THIRD ANGLE                  |                  | a allatic val |            |        | AQ N        |                      |                    |
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|   | DRAWN                        |                  |               |            | • • •  | 000         |                      |                    |
| DO NOT SCALE DRAWING. DIMS. ARE IN INCHES [mm]<br>INTERPRET DIMS AND TOLERANCES PER ASME Y14.5M -2009   | SM                           | 04/18/11         |               |            |        |             | SHEET, 42<br>OPERATE |                    |
| UNLESS OTHERWISE SPECIFIED:   | APPROVED                     |                  |               |            |        |             |                      |                    |
| ALL FINISHED MACHINED SURFACES 125 $\checkmark$ OR BETTER.<br>TOLERANCES:<br>ANGLES : $\pm$ 1°  |                              |                  | SIZE          | B          | DW     | 'G NO.      | 1078                 | 3190               |
| 1 PLACE .X: ± .015 [0.38]   | CHECKED                      |                  |               |            |        |             |                      |                    |
| 2 PLACE .XX: ± .01 [0.3]<br>3 PLACE .XXX: ± .005 [0.13]   |                              |                  | SCALE         | ≡ 1:1      |        |             |                      | SH                 |
|   |                              |                  |               |            |        |             |                      | •                  |

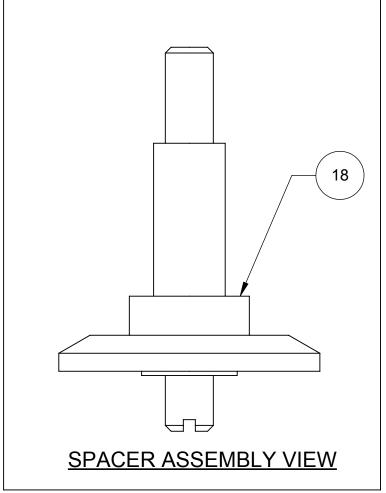
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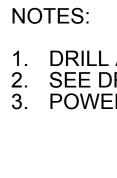


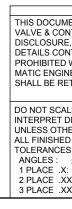


SEE NOTE-2-----

1







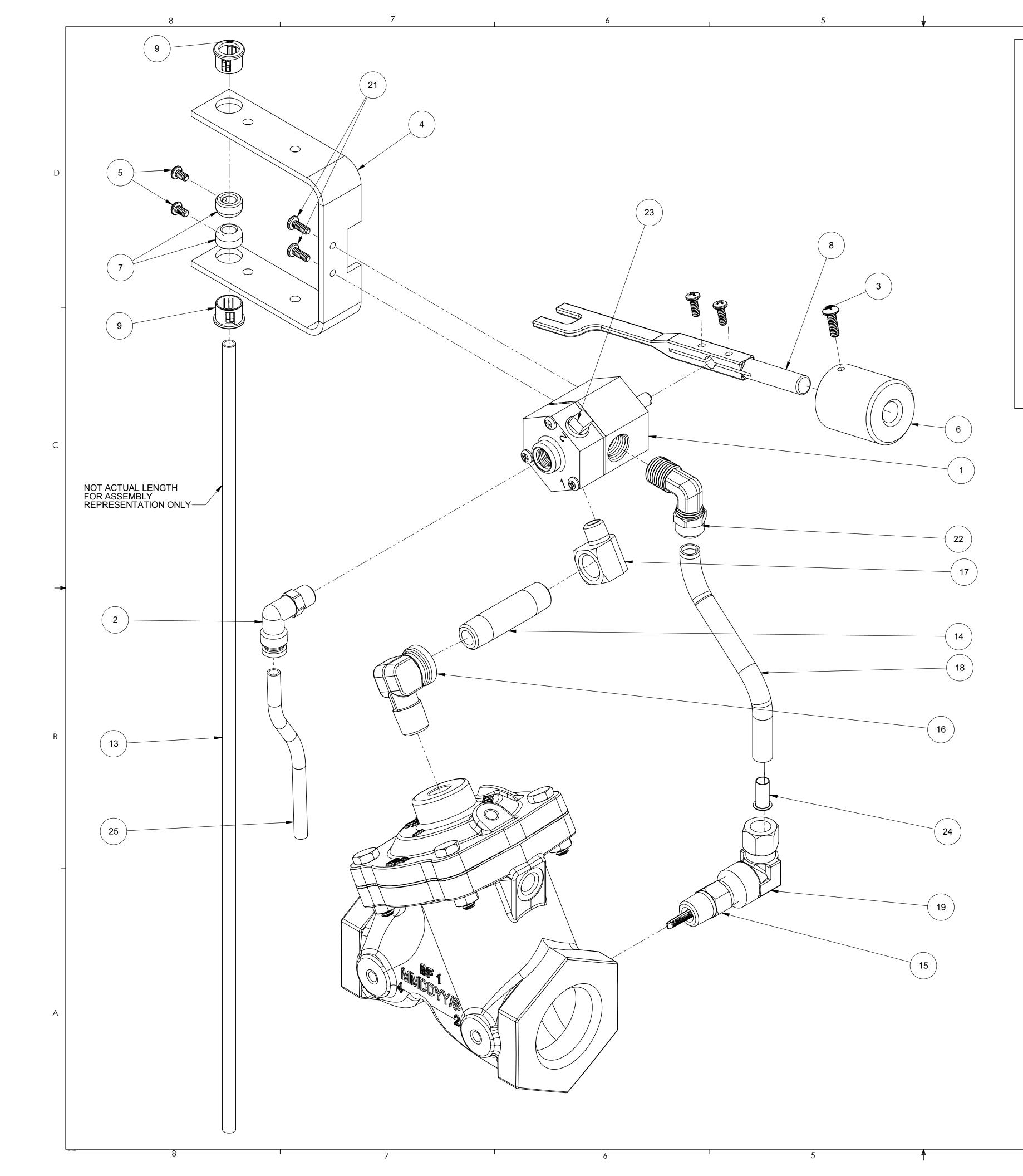
|      |                         | 2    | 1           |      |       |  |  |  |  |
|------|-------------------------|------|-------------|------|-------|--|--|--|--|
|      | REVISIONS               |      |             |      |       |  |  |  |  |
| ZONE | ECN                     | REV. | DESCRIPTION | DATE | APP'D |  |  |  |  |
|      | SEE SHEET ONE FOR NOTES |      |             |      |       |  |  |  |  |
|      |                         |      |             |      |       |  |  |  |  |
|      |                         |      |             |      |       |  |  |  |  |
|      |                         |      |             |      |       |  |  |  |  |
|      |                         |      |             |      |       |  |  |  |  |

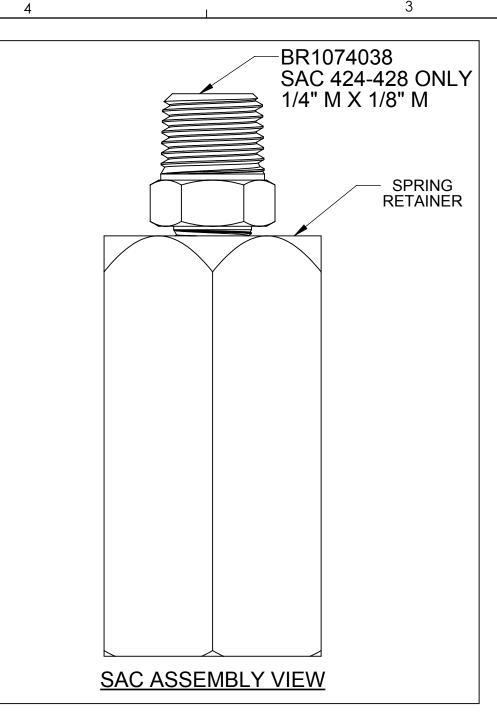
| ITEM<br>NO. | DESCRIPTION                       |             | PART<br>NUMBER | QTY. (424-428)<br>POWERED OPEN |  |  |
|-------------|-----------------------------------|-------------|----------------|--------------------------------|--|--|
| 1           | PILOT CNTL ASSY, 348, -AE         |             | 1073992        | 1                              |  |  |
| 2           | FITTING, ELBOW, TUBE, 1/8MNPT X   |             | 1078765        | 3                              |  |  |
| 3           | RD. HD. MACH SCREW, (8-32 X 1/2)  |             | 1072375        | 1                              |  |  |
| 4           | BRACKET, 348,                     |             | 1074012        | 1                              |  |  |
|             | CENTERING COLLAR, BRASS           |             | 1074017        | 2                              |  |  |
| 5           | RD. HD. MACH. SCREW, (6-32 X 1/4) |             | 1072370        | 2                              |  |  |
| 6           | COUNTERWEIGHT, STD                |             | 1074014        | 1                              |  |  |
| 8           | LEVER, 348                        |             | 1074034        | 1                              |  |  |
| 9           | BUSHING,                          |             | 1074016        | 2                              |  |  |
| 10          | STUD, THRD, #12-24 UNC-2A, BRASS  | 1074025     | 1              |                                |  |  |
| 11          | GREASE, LUBRIPLATE, FGL-2         | 16856-8     | 1              |                                |  |  |
| 12          | FLOAT,SAND,5"                     | 1073996     | 1              |                                |  |  |
| 13          | FLOAT ROD,                        | 1074023     | 1              |                                |  |  |
|             | FITTING, NIPPLE 1/4NPTX2, BRASS   | 1071905     |                |                                |  |  |
| 14          | PIPE NIPPLE 1/4" X 3"             | 1071906     | 1              |                                |  |  |
|             | PIPE NIPPLE 1/4" X 4"             | 427,428     | 1071907        |                                |  |  |
| 15          | STRAINER ASSY                     | · · · · · · |                |                                |  |  |
| 16          | FITTING, ELBOW, 1/4 MNPT X 1/4F   |             | 1074041        | 1                              |  |  |
| 17          | FITTING, ELBOW, REDUCER, BRS      |             | 1074040        | 1                              |  |  |
| 18          | STRAINER,                         |             | BR1074002      | 1                              |  |  |
| 19          | FITTING, ELBOW, TUBE 1/4FNPTX3/   |             | 1074007        | 1                              |  |  |
|             |                                   | 424         | 1074230        |                                |  |  |
|             |                                   | 425         | 1074305        |                                |  |  |
| 20          | SPACER, BRASS                     | 426         | 1074385        | 1                              |  |  |
|             |                                   | 427         | 1074484        |                                |  |  |
|             |                                   | 428         | 1074565        |                                |  |  |
| 21          | SCREW, PHLP, PN HD                |             | 1072371        | 4                              |  |  |
| 22          | FITTING, ELBOW, BRASS             |             | 1074037        | 1                              |  |  |
| 23          | TUBING, POLY 1/4" O.D. X .035     |             | 1071936        | 1                              |  |  |
| 24          | FITTING,INSERT,3/8                |             | 10332          | 1                              |  |  |
| 25          | TUBING, POLY 1/4" O.D. X .035     |             | 1071936        | 1                              |  |  |

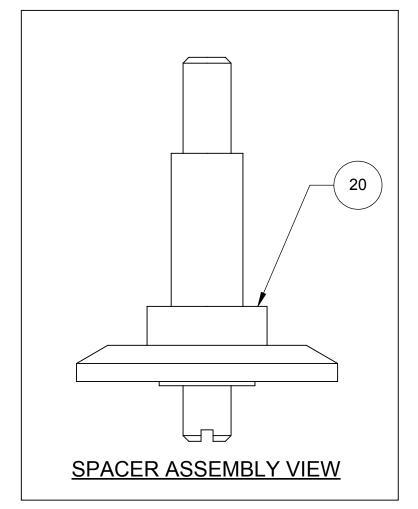
| PAINT OPTIONS |       |  |  |  |  |  |  |
|---------------|-------|--|--|--|--|--|--|
| PART #        | COLOR |  |  |  |  |  |  |
| 42805         | RED   |  |  |  |  |  |  |
| 43198         | BLUE  |  |  |  |  |  |  |
| 42807         | BLACK |  |  |  |  |  |  |
| 42808         | ASH   |  |  |  |  |  |  |

DRILL AND TAP PORT #1 WITH 1/4" NPT. [424-428 VALVES]
 SEE DRAWING 1078193 FOR ROD LENGTH / MATERIAL OPTIONS.
 POWERED OPEN 424 MODEL SHOWN.

| COMPONENTS / ASSEMB   |                           |          | POWERED OPEN VERSION<br>FOR 424 THRU 428<br>VALVES W/FLOAT |
|---|---------------------------|----------|--|
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| ALE DRAWING. DIMS. ARE IN INCHES [mm]<br>DIMS AND TOLERANCES PER ASME Y14.5M -2009  | DRAWN<br>SM               | 04/18/11 | CATALOG SHEET, 420 DAIPHRAGM                               |
| HERWISE SPECIFIED:<br>D MACHINED SURFACES 125 \/ OR BETTER.<br>ES:<br>+ 1*  | APPROVED                  |          | SIZE B DWG NO. 1078190                                     |
| (X: ±.015 [0.38]<br>(X: ±.011 [0.3]<br>(XX: ±.005 [0.13]  | CHECKED                   |          | SCALE         1:1         SHEET 5 OF 7                     |
| · •   | 2                         |          |  |







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|---|--|
| 2 |  |

| REVISIONS |     |      |             |      |       |  |  |  |  |  |
|-----------|-----|------|-------------|------|-------|--|--|--|--|--|
| ZONE      | ECN | REV. | DESCRIPTION | DATE | APP'D |  |  |  |  |  |
|           |     |      |             |      |       |  |  |  |  |  |
|           |     |      |             |      |       |  |  |  |  |  |
|           |     |      |             |      |       |  |  |  |  |  |
|           |     |      |             |      |       |  |  |  |  |  |
|           |     |      |             |      |       |  |  |  |  |  |

|           | ITEM<br>NO. | DESCRIPTION                       |                                 | PART<br>NUMBER | QTY.<br>(424-428) |  |
|-----------|-------------|-----------------------------------|---------------------------------|----------------|-------------------|--|
|           | 1           | PILOT CNTL ASSY, 348, -AE         | 1073992                         | 1              |                   |  |
|           | 2           | FITTING, ELBOW, TUBE, 1/8MNPT X   | 1078765                         | 1              |                   |  |
|           | 3           | RD. HD. MACH SCREW, (8-32 X 1/2)  | 1072375                         | 1              |                   |  |
|           | 4           | BRACKET, 348                      | 1074012                         | 1              |                   |  |
|           | 5           | RD. HD. MACH. SCREW, (6-32 X 1/4) |                                 | 1072370        | 2                 |  |
|           | 6           | COUNTERWEIGHT, STD                |                                 | 1074014        | 1                 |  |
|           | 7           | CENTERING COLLAR, BRASS           |                                 | 1074017        | 2                 |  |
|           | 8           | LEVER, 348                        |                                 | 1074034        | 1                 |  |
|           | 9           | BUSHING                           |                                 | 1074016        | 2                 |  |
|           | 10          | STUD, THRD, #12-24 UNC-2A, BRASS  | 1074025                         | 1              |                   |  |
|           | 11          | GREASE, LUBRIPLATE, FGL-2         | 16856-8                         | 1              |                   |  |
|           | 12          | FLOAT,SAND,5"                     | 1073996                         | 1              |                   |  |
| EE NOTE-2 | 13          | FLOAT ROD                         | 1074023                         | 1              |                   |  |
|           | 14          | FITTING, NIPPLE, 1/4NPTX2,BRASS   | PLE, 1/4NPTX2,BRASS 424 1071905 |                |                   |  |
|           |             | PIPE NIPPLE 1/4" X 3"             | 1071906                         | 1              |                   |  |
|           |             | PIPE NIPPLE 1/4" X 4"             | 1071907                         | 1              |                   |  |
|           | 15          | STRAINER ASSY                     | 1074004                         | 1              |                   |  |
|           | 16          | FITTING, ELBOW, 1/4 MNPT X 1/4F   | 1074041                         | 1              |                   |  |
|           | 17          | FITTING, ELBOW, REDUCER, BRS      |                                 | 1074040        | 1                 |  |
|           | 18          | FITTING,TUBE,.37 OD               | 1071940                         | 1              |                   |  |
|           | 19          | FITTING, ELBOW, TUBE 1/4FNPTX3/   |                                 | 1074007        | 1                 |  |
|           |             |                                   | 424                             | 1074230        |                   |  |
|           |             |                                   | 425                             | 1074305        |                   |  |
|           | 20          | SPACER, BRASS                     | 426                             | 1074385        | 1                 |  |
|           |             |                                   | 427                             | 1074484        |                   |  |
|           |             |                                   | 428                             | 1074565        |                   |  |
|           | 21          | SCREW, PHLP, PN HD                |                                 | 1072371        | 4                 |  |
|           | 22          | FITTING, ELBOW, BRASS             |                                 | 1074037        | 1                 |  |
|           | 23          | PLUG,PIPE,1/8" MNPT,BRS,SQ HD     |                                 | 1071903        | 1                 |  |
|           | 24          | FITTING,INSERT,3/8                |                                 | 10332          | 1                 |  |
|           | 25          | TUBING, POLY 1/4" O.D. X .035     |                                 | 1071936        | 1                 |  |

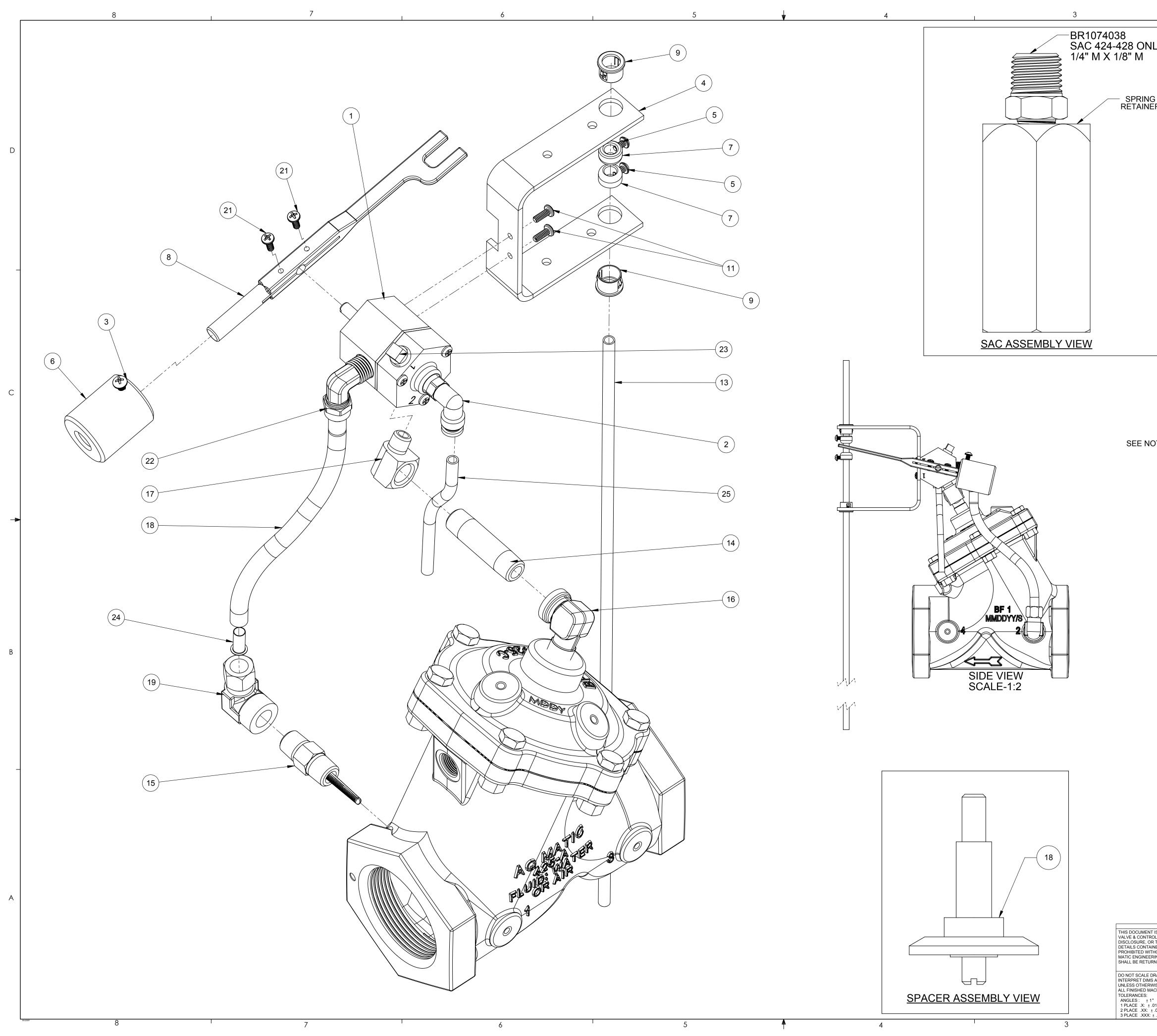
| PAINT OPTIONS |       |  |  |  |  |  |
|---------------|-------|--|--|--|--|--|
| PART #        | COLOR |  |  |  |  |  |
| 42805         | RED   |  |  |  |  |  |
| 43198         | BLUE  |  |  |  |  |  |
| 42807         | BLACK |  |  |  |  |  |
| 42808         | ASH   |  |  |  |  |  |

NOTES:

- DRILL AND TAP PORT #1 WITH 1/4" NPT. [424-428 VALVES]
   SEE DRAWING 1078193 FOR ROD LENGTH/MATERIAL OPTIONS.
   STANDARD VERSION 424 MODEL SHOWN.

|   |             |          |           |                           | RD VERSIO    | _        |
|---|-------------|----------|-----------|---------------------------|--------------|----------|
|   |             |          |           | VALVES                    |              |          |
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| DO NOT SCALE DRAWING. DIMS. ARE IN INCHES [mm]<br>INTERPRET DIMS AND TOLERANCES PER ASME Y14.5M -2009   | DRAWN<br>SM | 04/18/11 |           | 20 DAIPHRAGN<br>ED VALVES | 1            |          |
| UNLESS OTHERWISE SPECIFIED:<br>ALL FINISHED MACHINED SURFACES 125 / OR BETTER.<br>TOLERANCES:<br>ANGLES: ± 1°   | APPROVED    |          | SIZE B    |                           | 3190         | REV<br>K |
| 1 PLACE .X: ± .015 [0.38]<br>2 PLACE .XX: ± .01 [0.3]<br>3 PLACE .XXX: ± .005 [0.13]  | CHECKED     |          | SCALE 1:1 |                           | SHEET 6 OF 7 |          |
| ۱   | 2           |          | I         | 1                         |              |          |

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|      |      |     | 2    | 1                       |      |       |
|------|------|-----|------|-------------------------|------|-------|
|      |      |     |      | REVISIONS               |      |       |
| ONLY | ZONE | ECN | REV. | DESCRIPTION             | DATE | APP'D |
|      |      |     |      | SEE SHEET ONE FOR NOTES |      |       |
|      |      |     |      |                         |      |       |
|      |      |     |      |                         |      |       |
|      |      |     |      |                         |      |       |
| RING |      |     |      |                         |      |       |

|       | ITEM<br>NO. | DESCRIPTION                       |         | PART<br>NUMBER | QTY. (424-428)<br>CLOSED IF LOW |  |  |
|-------|-------------|-----------------------------------|---------|----------------|---------------------------------|--|--|
|       | 1           | PILOT CNTL ASSY, 348, -AE         | 1073992 | 1              |                                 |  |  |
|       | 2           | FITTING, ELBOW, TUBE, 1/8MNPT X   |         | 1078765        | 5 1                             |  |  |
|       | 3           | RD. HD. MACH SCREW, (8-32 X 1/2)  |         | 1072375        | 1                               |  |  |
|       | 4           | BRACKET, 348                      |         | 1074012        | 1                               |  |  |
|       | 5           | RD. HD. MACH. SCREW, (6-32 X 1/4) |         | 1072370        | 2                               |  |  |
|       | 6           | COUNTERWEIGHT, STD                |         | 1074014        | 1                               |  |  |
|       | 7           | CENTERING COLLAR, BRASS           |         | 1074017        | 2                               |  |  |
|       | 8           | LEVER, 348                        |         | 1074034        | 1                               |  |  |
|       | 9           | BUSHING                           | 1074016 | 2              |                                 |  |  |
|       | 10          | STUD, THRD, #12-24 UNC-2A, BRASS  |         | 1074025        | 1                               |  |  |
|       | 11          | GREASE, LUBRIPLATE, FGL-2         |         | 16856-8        | 1                               |  |  |
|       | 12          | FLOAT,SAND,5"                     |         | 1073996        |                                 |  |  |
| OTE-2 | 13          | FLOAT ROD                         |         | 1074023        | 1                               |  |  |
|       |             | FITTING, NIPPLE, 1/4NPTX2,BRASS   | 424     | 1071905        |                                 |  |  |
|       | 14          | PIPE NIPPLE 1/4" X 3"             | 425,426 | 1071906        | 1                               |  |  |
|       |             | PIPE NIPPLE 1/4" X 4"             | 427,428 | 1071907        | -                               |  |  |
|       | 15          | STRAINER ASSY                     | 1       | 1074004        | 1                               |  |  |
|       | 16          | FITTING, ELBOW, 1/4 MNPT X 1/4F   |         | 1074041        | 1                               |  |  |
|       | 17          | FITTING, ELBOW, REDUCER, BRS      |         | 1074040        |                                 |  |  |
|       | 18          | FITTING,TUBE,.37 OD               |         | 1071940        | 1                               |  |  |
|       | 19          | FITTING, ELBOW, TUBE 1/4FNPTX3/   |         | 1074007        | 1                               |  |  |
|       |             |                                   | 424     | 1074230        |                                 |  |  |
|       |             |                                   | 425     | 1074305        |                                 |  |  |
|       | 20          | SPACER, BRASS                     | 426     | 1074385        | 1                               |  |  |
|       |             |                                   | 427     | 1074484        | -                               |  |  |
|       |             |                                   | 428     | 1074565        | -                               |  |  |
|       | 21          | SCREW, PHLP, PN HD                |         | 1072371        | 4                               |  |  |
|       | 22          | FITTING, ELBOW, BRASS             |         | 1074037        | 1                               |  |  |
|       | 23          | PLUG,PIPE,1/8" MNPT,BRS,SQ HD     |         | 1071903        | 1                               |  |  |
|       | 24          | FITTING,INSERT,3/8                |         | 10332          | 1                               |  |  |
|       | 25          | TUBING, POLY 1/4" O.D. X .035     |         | 1071936        | 1                               |  |  |

## NOTES:

- DRILL AND TAP PORT #2 WITH 1/4" NPT. [424-428 VALVES]
   SEE DRAWING 1078193 FOR ROD LENGTH/MATERIAL OPTIONS.
   STANDARD VERSION 425 MODEL SHOWN.

|  | PAINT C  | PTION                            | <u> 1S</u> |  |                  |                                       |                          |     | NI     |          |     |  |
|--|--|----------------------------------|------------|--|------------------|---------------------------------------|--------------------------|-----|--------|----------|-----|--|
|  | PART #   | COL                              | OR         |  | STANDARD VERSION |                                       |                          |     |        |          |     |  |
| 174K1#COLORK42805RED42408RED42408RELUE42408RELUE |  |                                  |            |  |                  |                                       |                          |     |        |          |     |  |
| 43198 BLUE OPEN BY- VENT                         |  |                                  |            |  |                  |                                       |                          |     |        |          |     |  |
|  | 42807  | BLA                              | К          |  | FOR 424 THRU 428 |                                       |                          |     |        |          |     |  |
|  | 42808  | AS                               | SH         | VALVES W/FLOAT                             |                  |                                       |                          |     |        |          |     |  |
|  |  |                                  |            |  |                  |                                       |                          |     |        |          |     |  |
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| MS AND   | DRAWING. DIMS. ARE IN INCHES [mm]<br>JS AND TOLERANCES PER ASME Y14.5M -2009 SM 04/18/1                |                                  |            |  |                  |                                       | LOG SHEE                 |     |        |          |     |  |
|  | SPECIFIED:<br>IED SURFACES 125 / OR  | BETTER.                          | APPROVE    | ED   |                  |                                       |                          |     |        | .0       | REV |  |
| 1°<br>± .015 [0.38] CHECKEI                      |  |                                  | <u> </u>   |  |                  |                                       | <u>078</u>               | 190 |        | K        |     |  |
| (: ± .005 [0.3]                                  |  |                                  |            | )  |                  | SCALE 1:1                             |                          |     | SHEE   | T 7 OF 7 |     |  |
|  | 1 <b>4</b>   |                                  | 2          |  |                  | · · · · · · · · · · · · · · · · · · · |                          | 1   |        |          |     |  |