

| REVISIONS |      |                                                           |           |       |
|-----------|------|-----------------------------------------------------------|-----------|-------|
| ECN       | REV. | DESCRIPTION                                               | DATE      | APP'D |
| 1280      | M    | CORRECTED REPAIR KIT-100# CALLOUT, UPDATE DW # TO 1084008 | 07/31/18  | KJB   |
| 1499      | N    | UPDATED ITEM NO. 11 PART NO.: WAS 1242718 NOW 1071744     | 06/17/19  | KJB   |
| 1628      | P    | CORRECT MINOR ERRORS, STANDARDIZE LAYOUT                  | 01/15/20  | PMJ   |
| 1846      | R    | MODEL NUMBERS ADDED, HATCHING UPDATED                     | 2/22/2021 | PMJ   |
| 1857      | S    | INSTRUCTIONS FOR REPAIR KITS ADDED                        | 3/4/2021  | PMJ   |
| 2133      | T    | REPLACED 1073312 WITH 4510752 SPIRAL RETAINING RING       | 8/7/2023  | TRK   |

NOTE:  
REPLACEMENT COMPONENTS UNIQUE TO FAILSAFE DESIGN ARE  
AVAILABLE AS A REPAIR KIT ONLY. SEE SHEET 2 FOR KIT DETAILS.

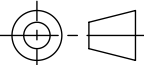
| ITEM NO. | PART NUMBER | MODEL     | DESCRIPTION                     |           | 1079700 QTY. | 1071291 QTY. | 1071294 QTY. |
|----------|-------------|-----------|---------------------------------|-----------|--------------|--------------|--------------|
| 1        | 1073287     | V531-410K | BODY, 531, VALVE                | NORYL     |              | 1            |              |
| 2        | 1071700     | ORB-208   | O-RING, 2-208                   | BUNA      |              | 1            |              |
| 3        | 1071705     | ORB-232   | O-RING, 2-232                   | BUNA      |              | 1            |              |
| 4        | 1071748     | ORE-218   | O-RING, 2-218                   | EPDM      |              | 2            |              |
| 5        | 1071749     | ORE-223   | O-RING, 2-223                   | EPDM      |              | 2            |              |
| 6        | 1073284     | V531-171  | SPRING, COMPRESSION             | SS        | -            | 1            |              |
| 7        | 1073279     | V531-110  | DISC                            | EPDM      |              | 1            |              |
| 8        | 1071744     | ORE-210   | O-RING, 2-210                   | EPDM      |              | 2            |              |
| 9        | 1073285     | V531-172  | SPRING, 531 (FS30 & FS100)      | SS        |              | 1            |              |
| 10       | 1073289     | V531-172  | PLATE, UPPR DPHRGM (FAILSAFE)   | SS        |              | 1            |              |
| 11       | 4510752     | V531-593  | RING, SPIRAL RETAINING, 531     | SS        |              | 1            |              |
| 12       | 1073290     | V531-446  | PLATE, LWR DPHRGM (FAILSAFE)    | SS        |              | 1            |              |
| 13       | 1073311     | V531-592  | SCREW, FAILSAFE, 531            | SS        |              | 1            |              |
| 14       | 1073313     | V531-596  | BASE, SPRING SUPPORT            | SS        |              | 1            |              |
| 15       | 1073314     | V531-597  | RING, RETAINER (FOR ADJUST FS)  | SS        |              | 1            |              |
| 16       | 1073296     | V531-532  | SHAFT, 531, FAILSAFE            | NORYL, SS |              | 1            |              |
| 17       | 1073293     | V531-495K | VALVE CAP, 531 FAILSAFE         | ALUM      |              | 1            |              |
| 18       | 1073395     | V535-080K | NUT, SOCKET RETAINING, 535 PIPE | NORYL     |              | 1            |              |
| 19       | 1073596     | WAS-0025  | WASHER, (1.00X.686X.060)        | SS        |              | 1            |              |
| 23       | 1073292     | V531-491  | SHAFT GUIDE, 531                | PVC       |              | 1            |              |
| 21       | 1071483     |           | CAP PLUG, 1-1/2 X 1"            | LDPE      |              | 1            |              |
| 22       | 1073274     | V531-093K | NUT, DISC RETAINING, 531        |           | -            | 1            | -            |
| 23       | 1073277     | V531-100  | DIAPHRAGM, 531                  |           | -            | 1            | -            |
| 24       | 1073273     | V531-080K | NUT, RETAINING, 531             |           | -            | 2            | -            |
| 25       | Default     | V531-093K | NUT, DISC RETAINING, 531        |           | 1            | 1            | 1            |

THE COMPONENT, PART, OR ASSEMBLY DESCRIBED IN THIS DOCUMENT MUST COMPLY WITH THE EU (EUROPEAN UNION) DIRECTIVE:  
RoHS DIRECTIVE 2011/65/EC,

THIS DOCUMENT IS SOLELY THE PROPERTY OF AQ-MATIC REPRODUCTION, USE DISCLOSURE, OR TRANSMISSION OF THIS DOCUMENT OR DETAILS CONTAINED HEREIN, IN PART OR IN WHOLE, IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF AQ-MATIC ENGINEERING. THIS DOCUMENT AND ANY COPIES SHALL BE RETURNED TO AQ-MATIC UPON WRITTEN REQUEST.

DO NOT SCALE DRAWING. DIMS. ARE IN INCHES [mm]  
INTERPRET DIMS AND TOLERANCES PER ASME Y14.5M -1994  
UNLESS OTHERWISE SPECIFIED:  
CORNER FILLETS R.005-.020 [127/-508]  
TOLERANCES:  
ANGLES: ± 1°  
1 PLACE .X: ± .100 [2.54]  
2 PLACE .XX: ± .010 [0.25]  
3 PLACE .XXX: ± .005 [0.13]

THIRD ANGLE PROJECTION



APPROVALS

DATE

DRAWN

TMS

05/21/10

CHECKED BY

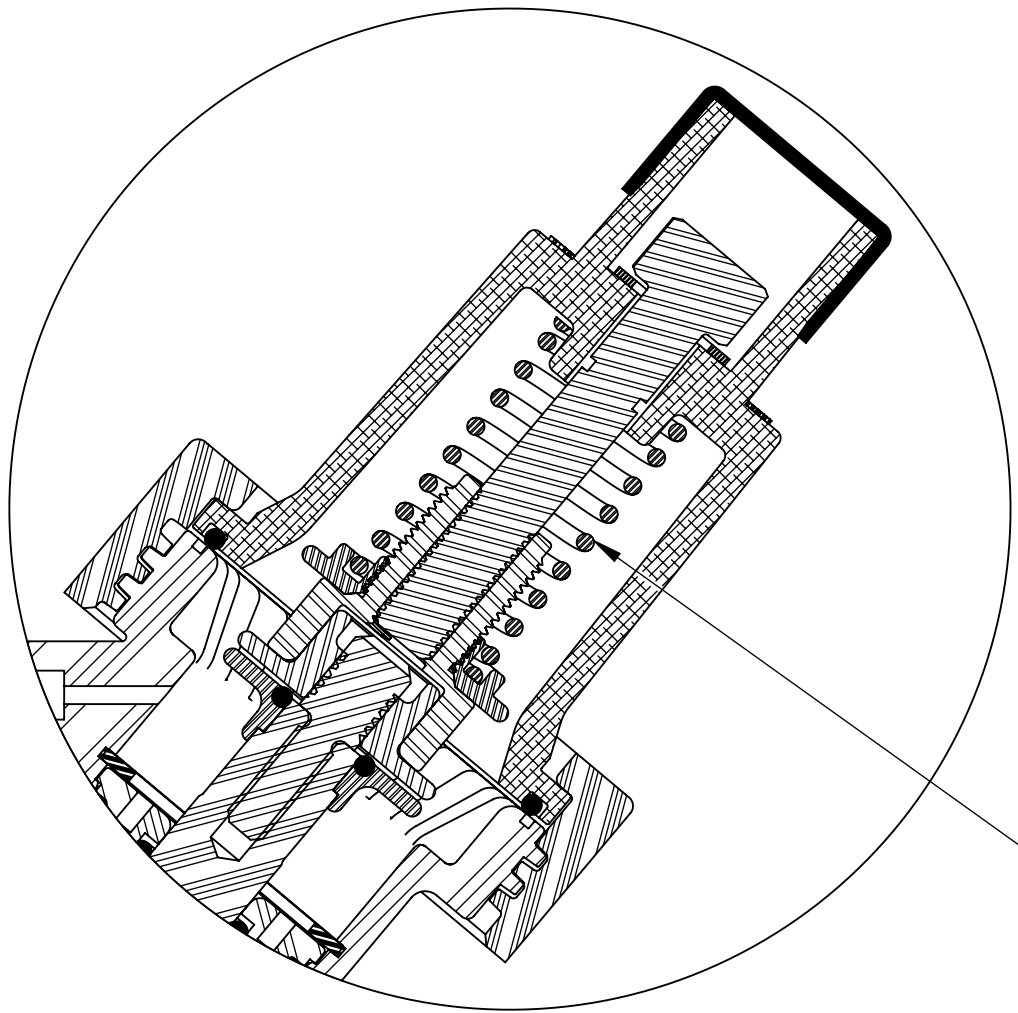
APPROVED



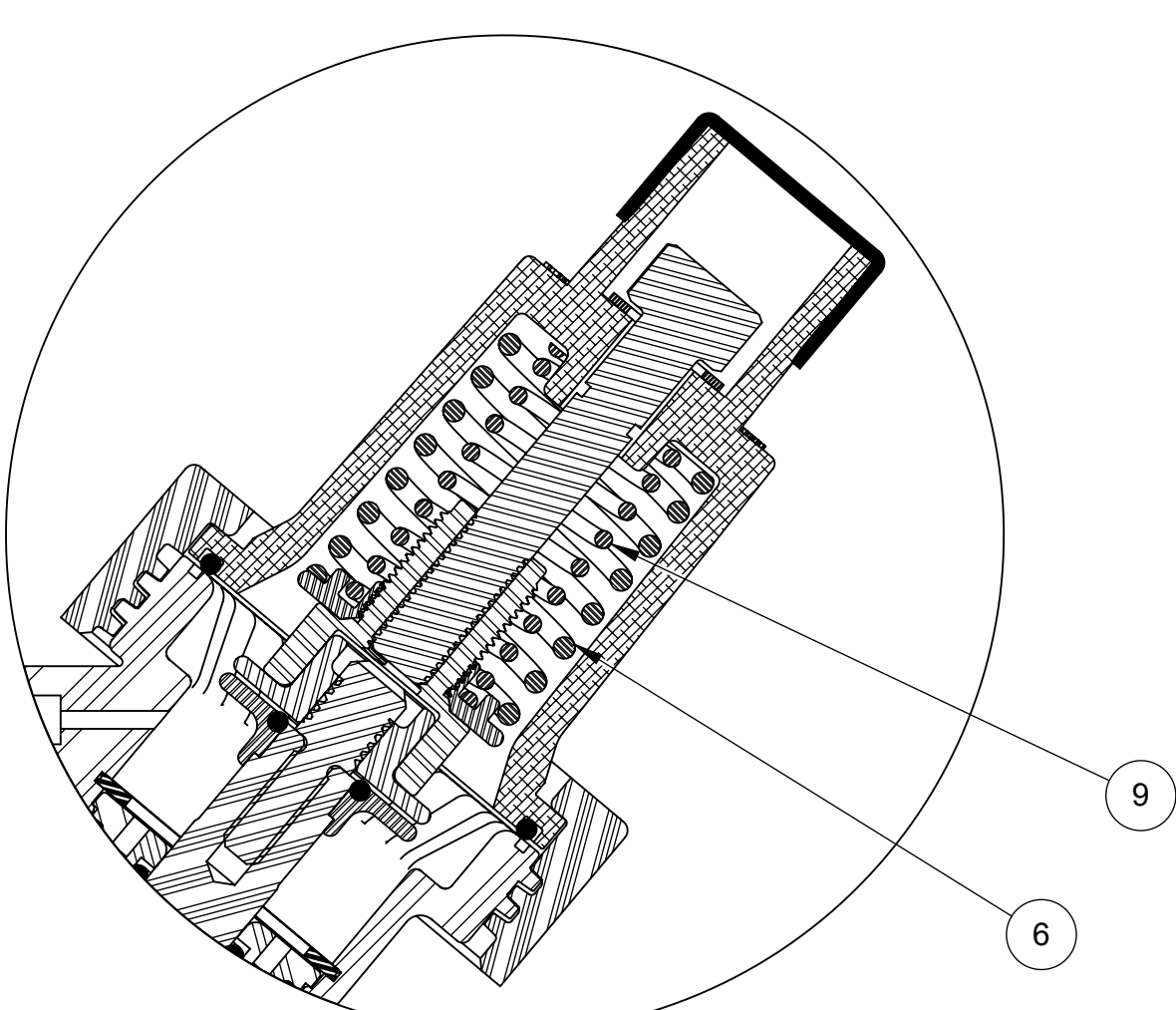
CATALOG SHEET, 531 FAILSAFE, VALVE

SIZE C DWG NO. 1084008 REV. T

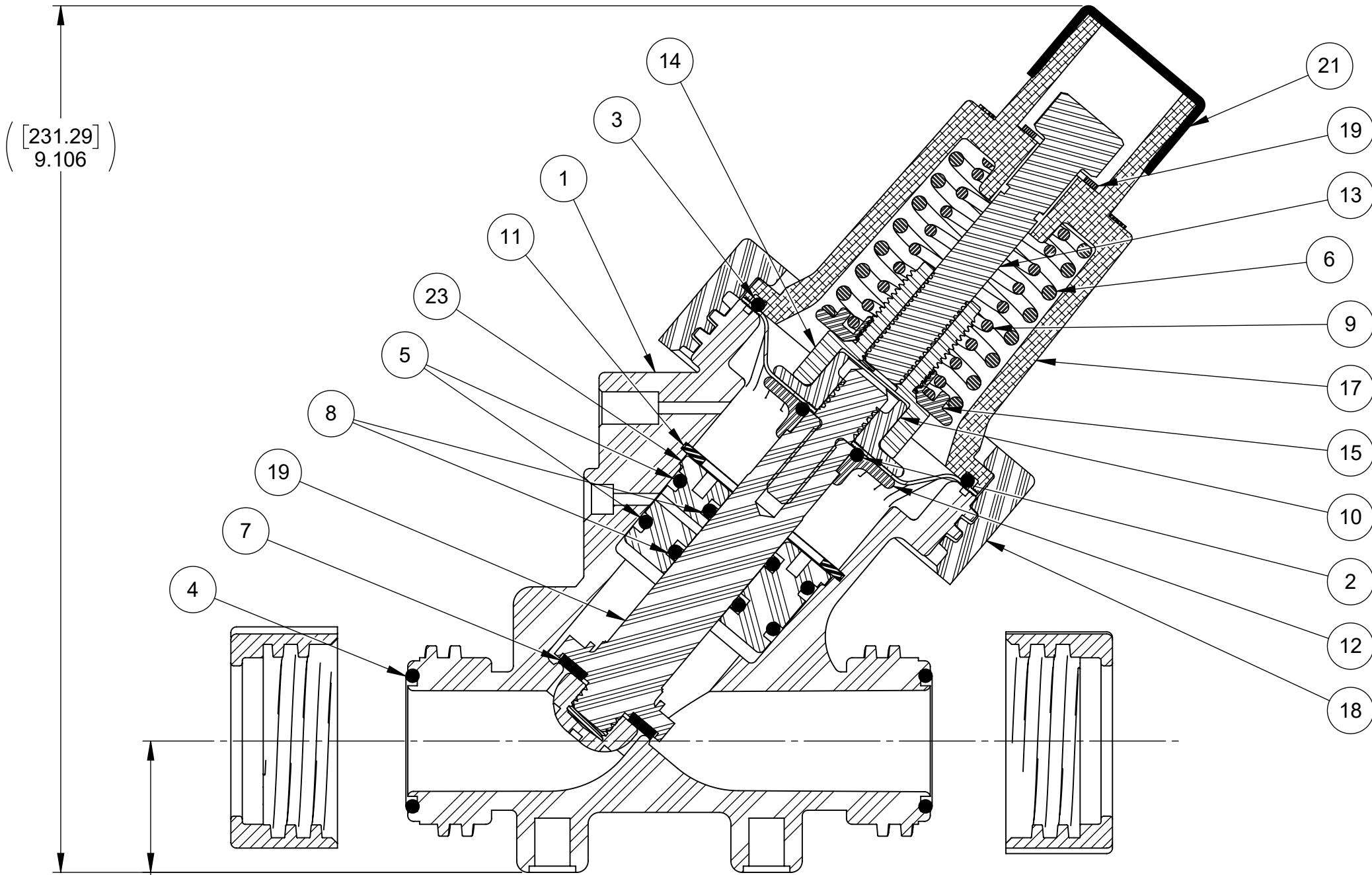
SCALE 3:4 SOLIDWORKS FORMAT SHEET 1 OF 2



1079700 (K531-X203-14000) (30 PSI - 2 BAR)  
**FAILSAFE CLOSED**



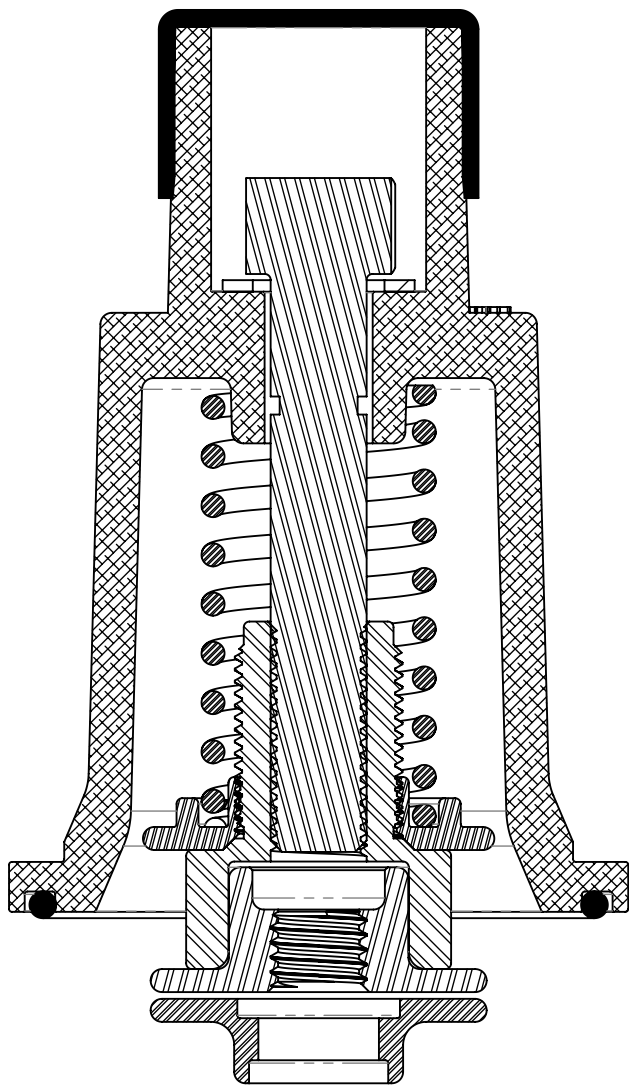
1071294 (K531-X205-14000) (100 PSI - 7 BAR)  
**FAILSAFE CLOSED**



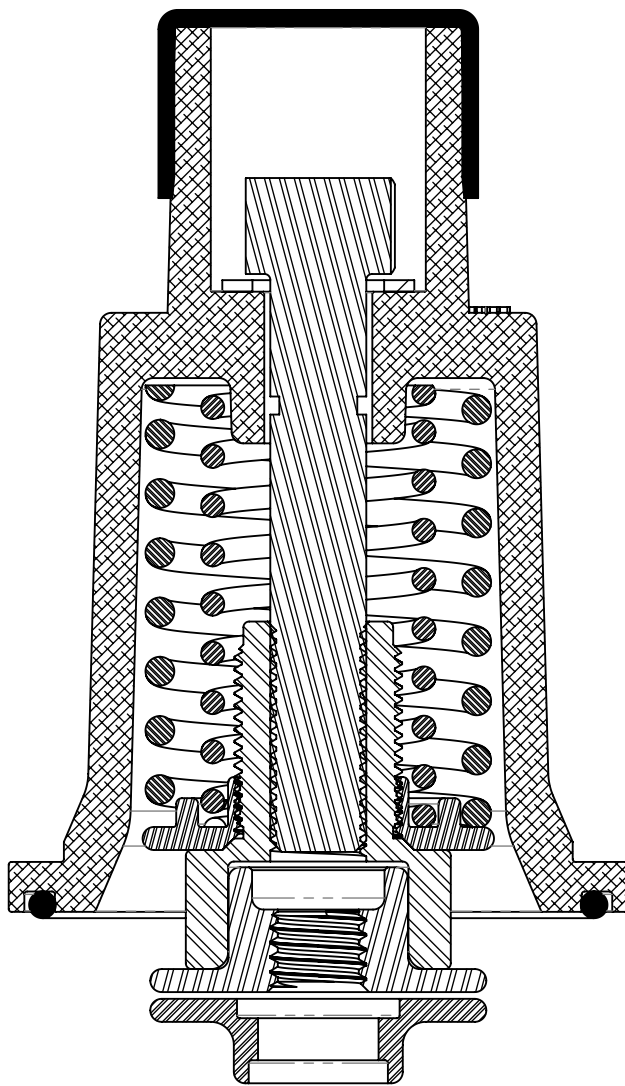
1071291 (K531-X204-14000) (60 PSI - 4 BAR)  
**FAILSAFE CLOSED**

CAP REPLACEMENT INSTRUCTIONS:

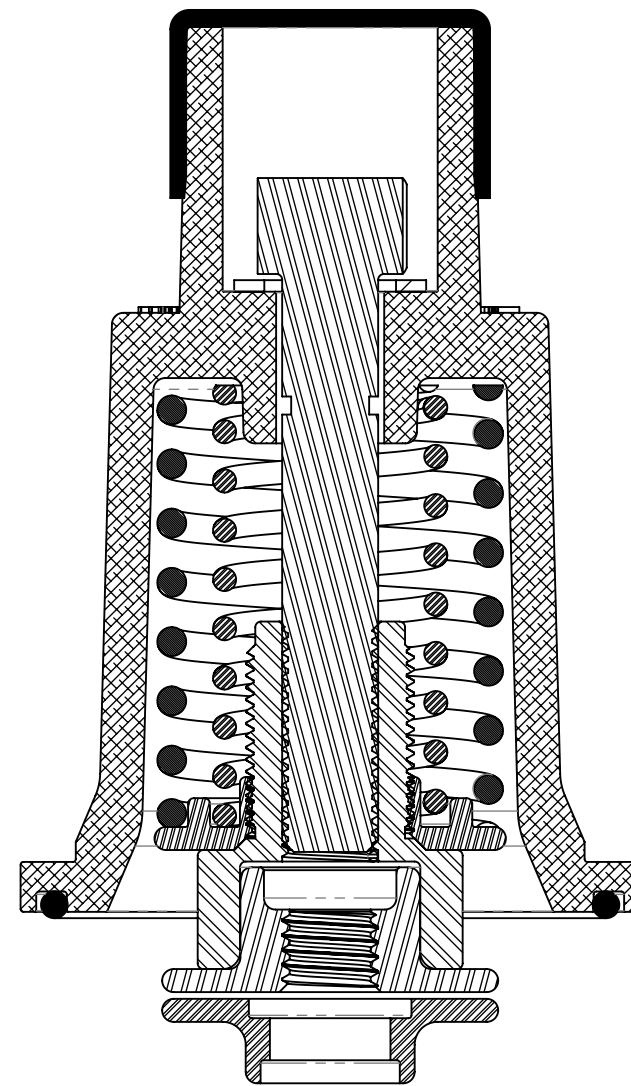
1. TURN SCREW (16) OF OLD CAP CLOCKWISE UNTIL SPRINGS ARE FULLY COMPRESSED.
2. UNSCREW CAP NUT (21) AND REMOVE OLD CAP ASSEMBLY.
3. PLACE O-RING (3) INTO BOTTOM GROOVE IN CAP ASSEMBLY.
4. PLACE NEW CAP ASSEMBLY ON VALVE AND TIGHTEN CAP NUT (21).
5. TURN SCREW (16) OF NEW CAP COUNTERCLOCKWISE UNTIL CONTACT IS MADE WITH UPPER DIAPHRAGM PLATE (13) WHILE IN CLOSED POSITION.



1071263 (K531-FS3)  
**REPAIR KIT - 30#**



1071264 (K531-FS6)  
**REPAIR KIT - 60#**



1071262 (K531-FS1)  
**REPAIR KIT - 100#**

**REPAIR KITS**

| REPAIR KIT NO.     | PART NUMBERS INCLUDED       |
|--------------------|-----------------------------|
| 1071263 (K531-FS3) | 3,12,13,15,16,17,18,22,24   |
| 1071264 (K531-FS6) | 3,6,12,13,15,16,17,18,22,24 |
| 1071262 (K531-FS1) | 3,6,12,13,15,16,17,18,22,24 |

| VALVE SERIES | 30# FAILSAFE<br>#TURNS UP<br>FROM BOTTOM | 60# FAILSAFE<br>#TURNS UP<br>FROM BOTTOM | 100# FAILSAFE<br>#TURNS UP<br>FROM BOTTOM |
|--------------|------------------------------------------|------------------------------------------|-------------------------------------------|
| 531          | 7                                        | 0                                        | 9                                         |

NOTES:

1. REPAIR KIT IS TO BE SHIPPED TO CUSTOMER IN A FULLY COMPRESSED STATE.

REVISIONS

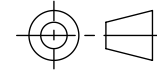
| ECN | REV. | DESCRIPTION                          | DATE | APP'D |
|-----|------|--------------------------------------|------|-------|
|     |      | SEE SHEET ONE FOR A LIST OF CHANGES. |      |       |
|     |      |                                      |      |       |
|     |      |                                      |      |       |
|     |      |                                      |      |       |
|     |      |                                      |      |       |

THE COMPONENT, PART, OR ASSEMBLY DESCRIBED IN THIS DOCUMENT MUST COMPLY WITH THE EU (EUROPEAN UNION) DIRECTIVE:  
RoHS DIRECTIVE 2011/65/EC.

THIS DOCUMENT IS SOLELY THE PROPERTY OF AQ-MATIC REPRODUCTION, USE DISCLOSURE, OR TRANSMISSION OF THIS DOCUMENT OR DETAILS CONTAINED HEREIN, IN PART OR IN WHOLE, IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF AQ-MATIC ENGINEERING. THIS DOCUMENT AND ANY COPIES SHALL BE RETURNED TO AQ-MATIC UPON WRITTEN REQUEST.

DO NOT SCALE DRAWING. DIMS. ARE IN INCHES [mm]  
INTERPRET DIMS AND TOLERANCES PER ASME Y14.5M -1994  
UNLESS OTHERWISE SPECIFIED:  
CORNER FILLETS R.005-.020 [.127-.508]  
TOLERANCES:  
ANGLES: ± 1°  
1 PLACE .X: ± .100 [2.54]  
2 PLACE .XX: ± .010 [0.25]  
3 PLACE .XXX: ± .005 [0.13]

THIRD ANGLE PROJECTION



APPROVALS

DATE

DRAWN

TMS

05/21/10

CHECKED BY

APPROVED



CATALOG SHEET, 531 FAILSAFE, VALVE

|       |     |                   |              |      |   |
|-------|-----|-------------------|--------------|------|---|
| SIZE  | C   | DWG NO.           | 1084008      | REV. | T |
| SCALE | 1:1 | SOLIDWORKS FORMAT | SHEET 2 OF 2 |      |   |