

D

C

B

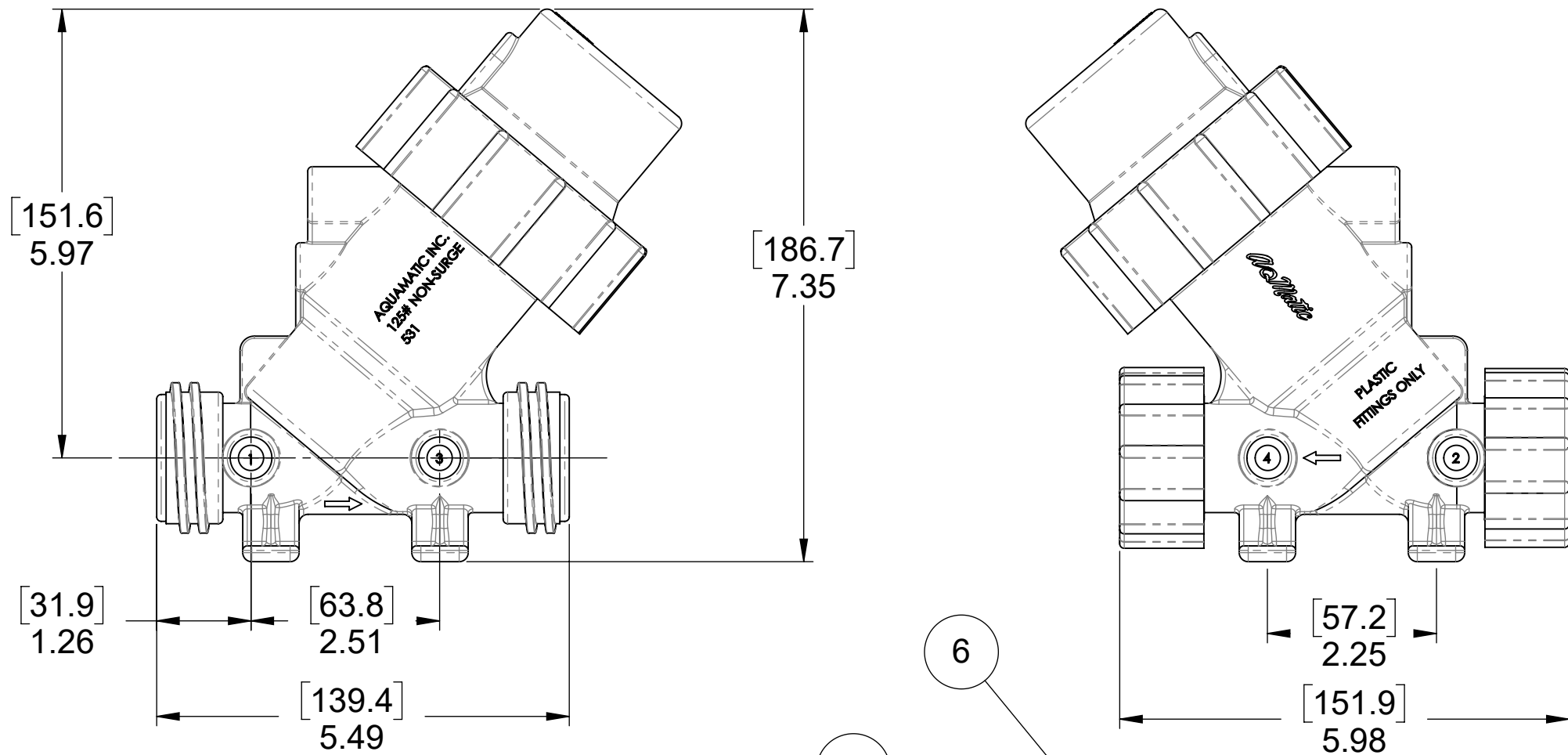
A

4

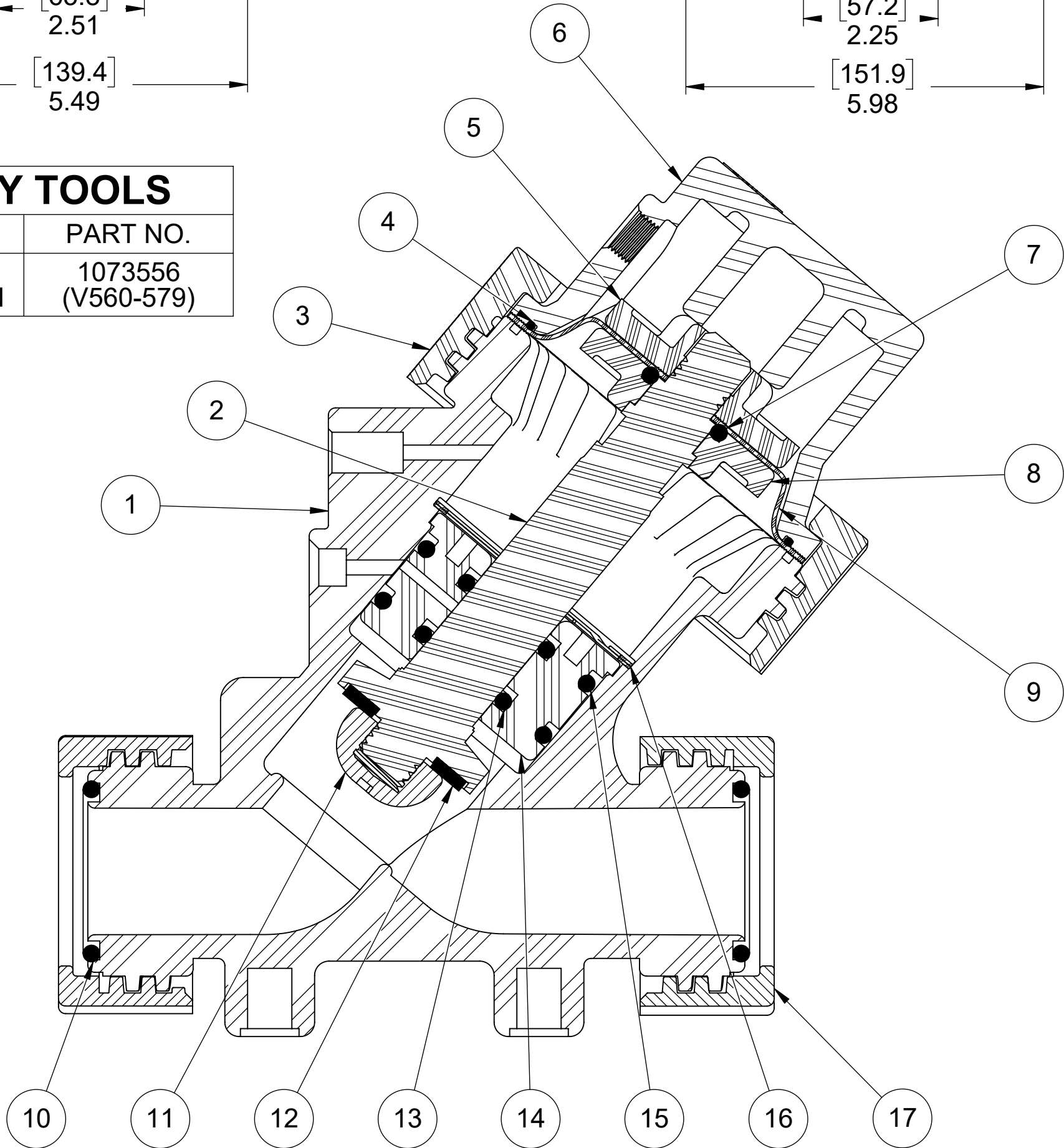
3

2

1



ASSEMBLY TOOLS	
DESCRIPTION	PART NO.
LIMIT STOP TOOL	1073556
TOOL NOT SHOWN	(V560-579)



1070304 (K531-X200-14000)
NORMALLY OPEN (STANDARD)

SEE REVERSE SIDE FOR CONFIGURATION OPTIONS.

REVISIONS				
REV	ECN	DESCRIPTION	DATE	APP'D
L	1286	PUT LOGO ON VALVE BODY, CORRECT MINOR ERRORS	8/16/2018	KJB
M	1334	REMOVE 1073557 FROM ASSEMBLY TOOLS TABLE	9/14/2018	KJB
N	1716	1-PAPER SIZE B TO C, 2-REM'D: 1071796 1071787 1071789, 3-ITEMS RENUMBERED, 4- HATCHING PATTERNS CHANGED & CONSOLIDATED, 5-ADD'D MODEL NO'S	7/24/2020	PMJ
P	2133	REPLACED P/N 1073312 WITH 4510752 RETAINING RING	12/10/2021	PMJ

BOM TABLE				
ITEM	PART NO.	MODEL	DESCRIPTION	QTY
1	1073287	V531-410K	BODY, 531, VALVE	1
2	1073294		SHAFT,531,NORYL,MCHD,RF	1
3	1073395	V535-080K	NUT, SOCKET RETAINING, 535 PIPE	1
4	1071685	ORB-039	O-RING, 2-039	E.P.D.M. 1
5	1073264	V531-040K	PLATE, DIAPHRAGM, 531, UPPER	1
6	1073263	M531-021K	CAP, VALVE, 531	1
7	1071700	ORB-208	O-RING, 2-208	FKM 1
	1071814	ORV-208		
8	1073265	V531-045K	PLATE, DIAPHRAGM, LWR, 531	1
9	1073277	V531-100	DIAPHRAGM, K531	BUNA N 1
10	1071748	ORE-218	O-RING, 2-218	E.P.D.M. 2
	1071779	ORJ-218		BUTYL 1
	1071819	ORV-218		FKM 1
11	1073274	V531-093K	NUT, DISC RETAINING, 531	1
12	1073279	V531-110	DISC	E.P.D.M. 1
	1073280	V531-111		BUTYL 1
	1073281	V531-112		FKM 1
13	1071744	ORE-210	O-RING, 2-210	E.P.D.M. 2
	1071776	ORJ-210		BUTYL 1
	1071815	ORV-210		FKM 1
14	1073292	V531-491	SHAFT GUIDE, 531	1
15	1071749	ORE-223	O-RING, 2-223	E.P.D.M. 2
	1071780	ORJ-223		BUTYL 1
	1071820	ORV-223		FKM 1
16	4510752	V531-593	RING, RETAINING, 531	1
17	1073273	V531-080K	NUT, RETAINING, 531	2

REPAIR PARTS KITS			
DESCRIPTION	PART NO.		
DIAPHRAGM & SEALS KIT CONSISTS OF ITEM NO'S 4, 7, 9, 13, 14 (2), 16 (2)	EPDM 1070318 (531-RAE) INCLUDES DIAPHRAGM 1073277	BUTYL 1070326 (531-RAJ) INCLUDES DIAPHRAGM 1073277	FKM 1075228 (531-RAVFB) INCLUDES DIAPHRAGM 1073277
INTERNAL PARTS KIT CONSISTS OF ITEM NO'S 2, 5, 8, 12, 15, 17	1070342 (K531-RF)		

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.		THE COMPONENT OR PRODUCT DESCRIBED IN THIS DOCUMENT MUST COMPLY WITH RoHS 3 EU (EUROPEAN UNION) DIRECTIVE 2015/863	
THIRD ANGLE PROJECTION		APPROVALS	
INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M -1994		DATE	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES (mm) 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)		DRAWN PMJ 6/12/2020	
		CHECKED BY	
		APPROVED	
		DESCRIPTION	
		CATALOG SHEET, 531	
		SIZE C DWG NO. 1077688 REV. P	
		SCALE 1:1 SOLIDWORKS FORMAT SHEET 1 OF 2	

D

C

B

A

4

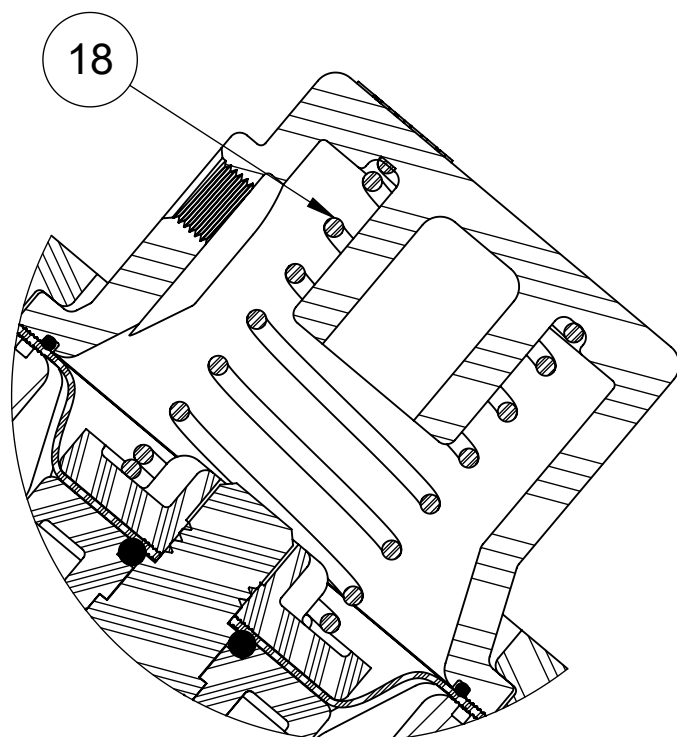
3

2

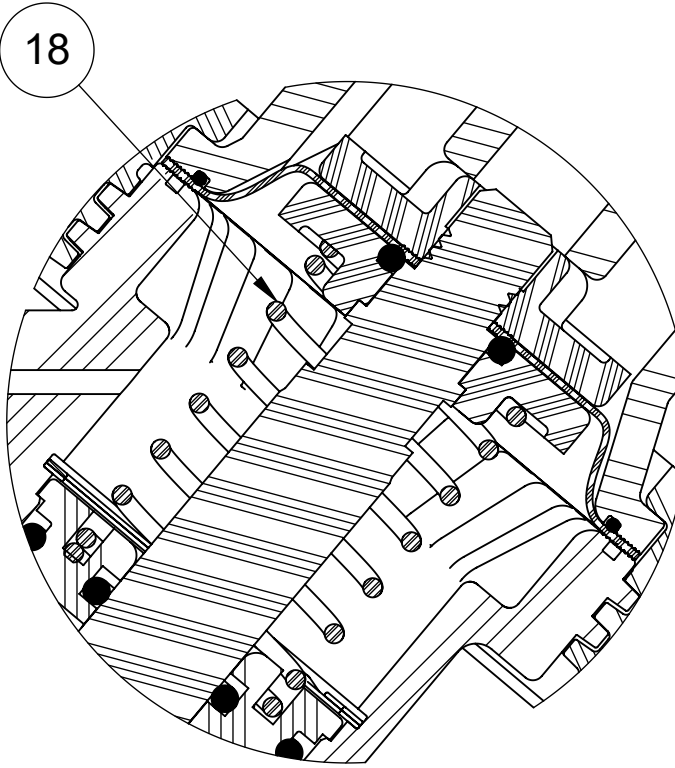
1

D

D



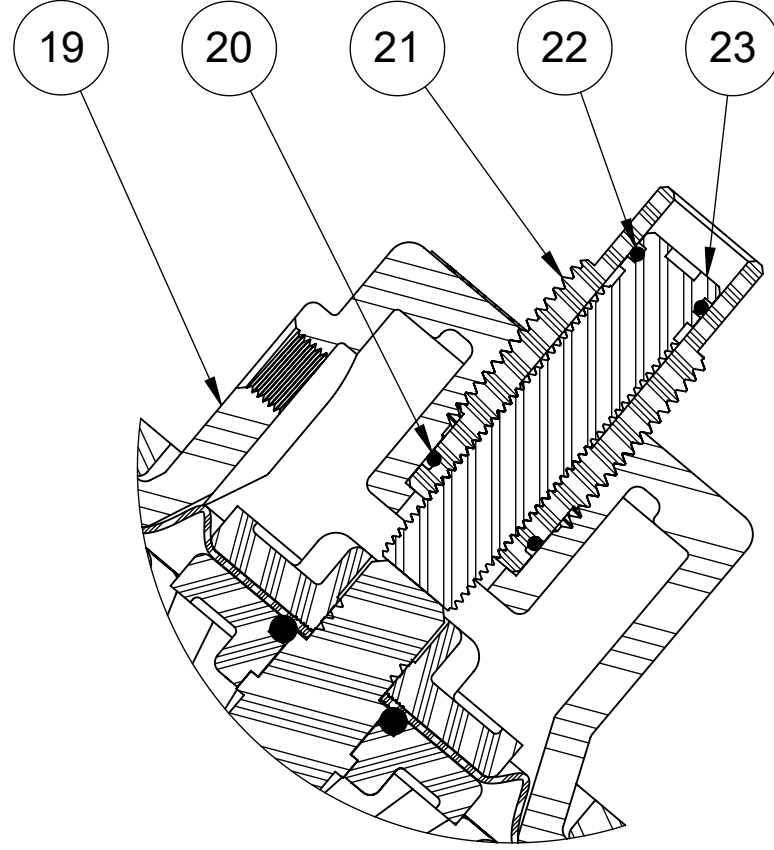
1071286 (K531-X202-14000)
SPRING ASSIST CLOSED



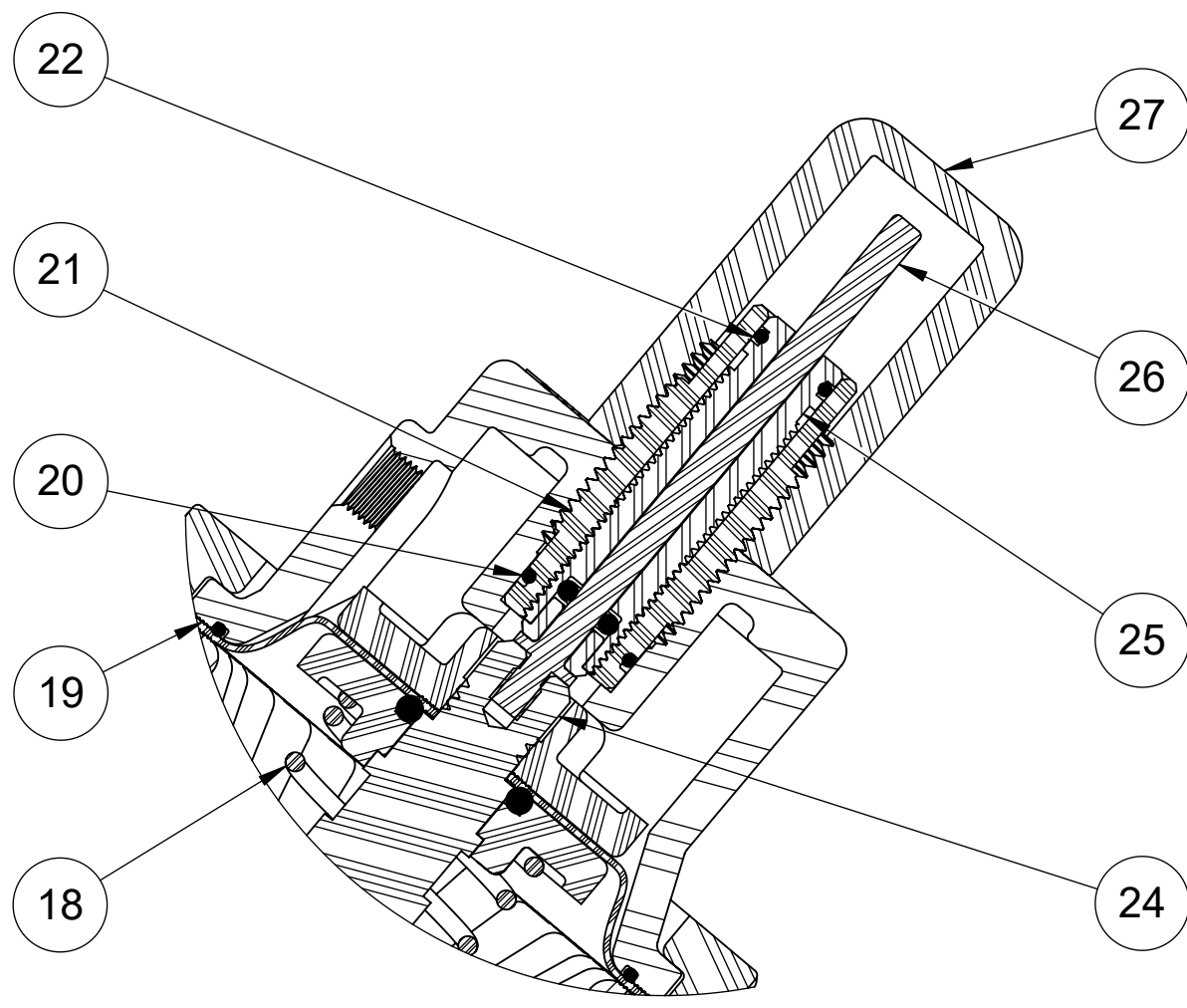
1071282 (K531-X201-14000)
SPRING ASSIST OPEN

C

C



1070305 (K531-X210-14000)
LIMIT STOP



1071268 (K531-X2A1-14000)
LIMIT STOP / POSITION INDICATOR
(SPRING ASSIST OPEN SHOWN HERE)

B

B

A

A

REVISIONS				
REV	ECN	DESCRIPTION	DATE	APP'D
		SEE SHEET 1 FOR LIST OF CHANGES		

SPRING ASSIST CLOSED & SPRING ASSIST OPEN MODELS				
ITEM	PART NO.	MODEL	DESCRIPTION	QTY
18	1073283	V531-170	SPRING, COMPRESSION	1

LIMIT STOP MODEL				
ITEM	PART NO.	MODEL	DESCRIPTION	QTY
19	1073288	V531-421K	CAP, LIMIT STOP / POS. IND.	1
20	1071671	ORB-016	O-RING, 2-016	BUNA N 1
21	1073303	V531-570	GUIDE, LS/PI, 531	1
22	1071668	ORB-012	O-RING 2-012	BUNA N 1
23	1073308	V531-576	SCREW, LIMIT STOP, 531	1

LIMIT STOP / POSITION INDICATOR MODEL				
ITEM	PART NO.	MODEL	DESCRIPTION	QTY
18	1073283	V531-170	SPRING, COMPRESSION	1
19	1073288	V531-421K	CAP, LIMIT STOP / POS. IND.	1
20	1071671	ORB-016	O-RING, 2-016	BUNA N 1
21	1073303	V531-570	GUIDE, LS/PI, 531	1
22	1071668	ORB-012	O-RING 2-012	BUNA N 1
24	1073295		SHAFT,531,NORYL,PI,MCHD	1
25	1073315	V531-700	SCREW, LIMIT STOP, ASSY., 537	1
26	1073298	V531-555	ROD, PI, 531	1
27	1073297	V531-550	SIGHT GLASS, POS INDICATOR, 531	1

REPAIR PARTS KITS	
DESCRIPTION	PART NO.
INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO. 18	1075229 (531-S)
INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 18	
INT. PARTS KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 20 THRU 23	1075226 (531-LS)
INT. PARTS KIT (LIMIT STOP / POS INDICATOR) CONSISTS OF ITEM NO'S 22, 24, 25, 26, 27	1075227 (531-PI)

CONVERSION KITS	
DESCRIPTION	PART NO.
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO. 18	1075229 (531-S)
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 18	
CONVERSION KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 19 THRU 23	1071265 (K531-LSC)
CONVERSION KIT (LIMIT STOP / POS INDICATOR) CONSISTS OF ITEM NO'S 19 THRU 22 AND 24 THRU 27	1071266 (K531-PIC)

SEE SHEET 1 FOR STANDARD NORMALLY OPEN MODEL

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.

INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M -1994

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES (mm)
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)

THE COMPONENT OR PRODUCT DESCRIBED IN THIS DOCUMENT MUST COMPLY WITH RoHS 3 EU (EUROPEAN UNION) DIRECTIVE 2015/863

THIRD ANGLE PROJECTION

APPROVALS

DRAWN PMJ

CHECKED BY

APPROVED

DATE 6/12/2020

DESCRIPTION

CATALOG SHEET, 531

SIZE C

SCALE 1:2

DWG NO. 1077688

REV. P

SOLIDWORKS FORMAT

SHEET 2 OF 2