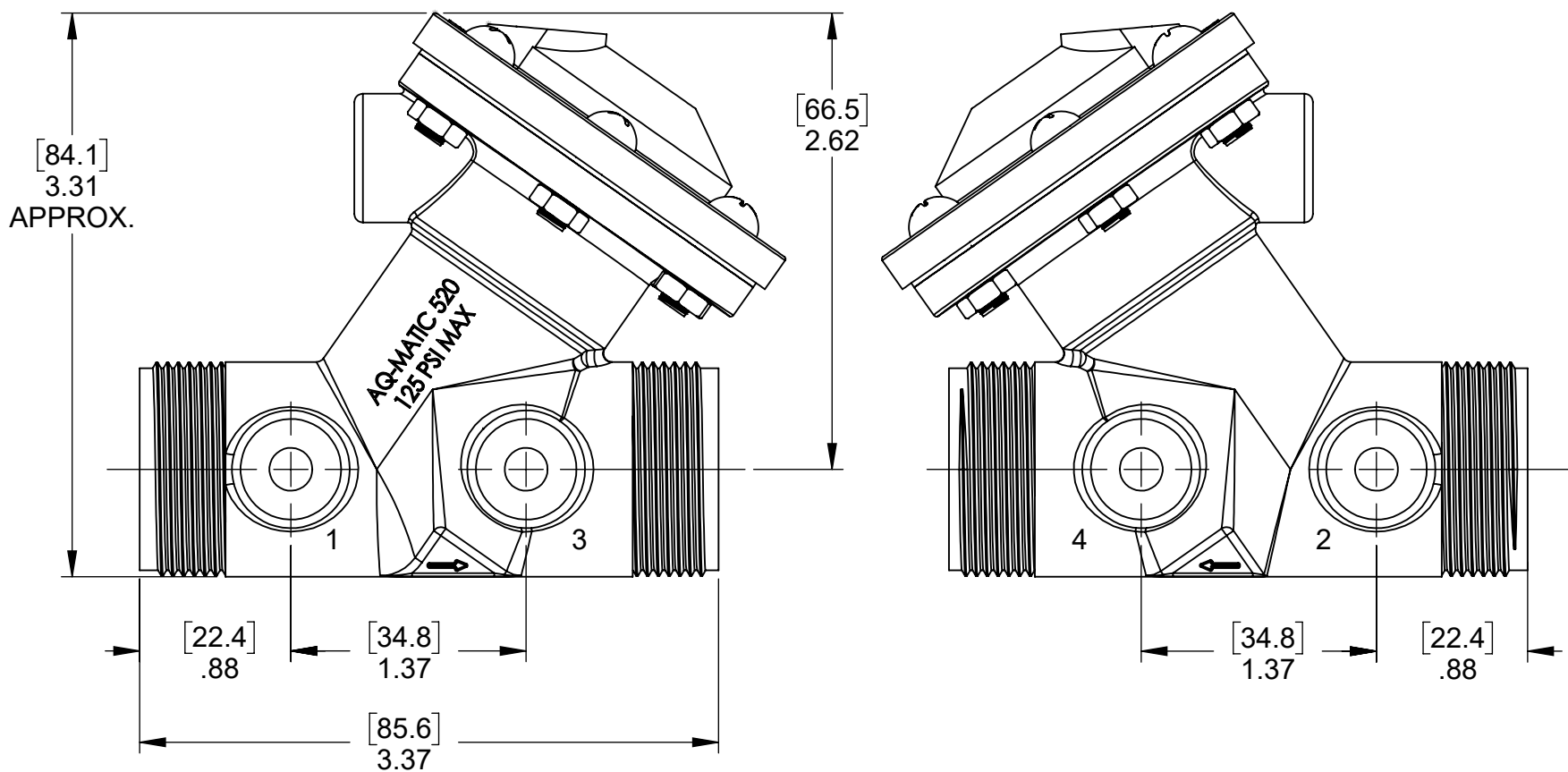


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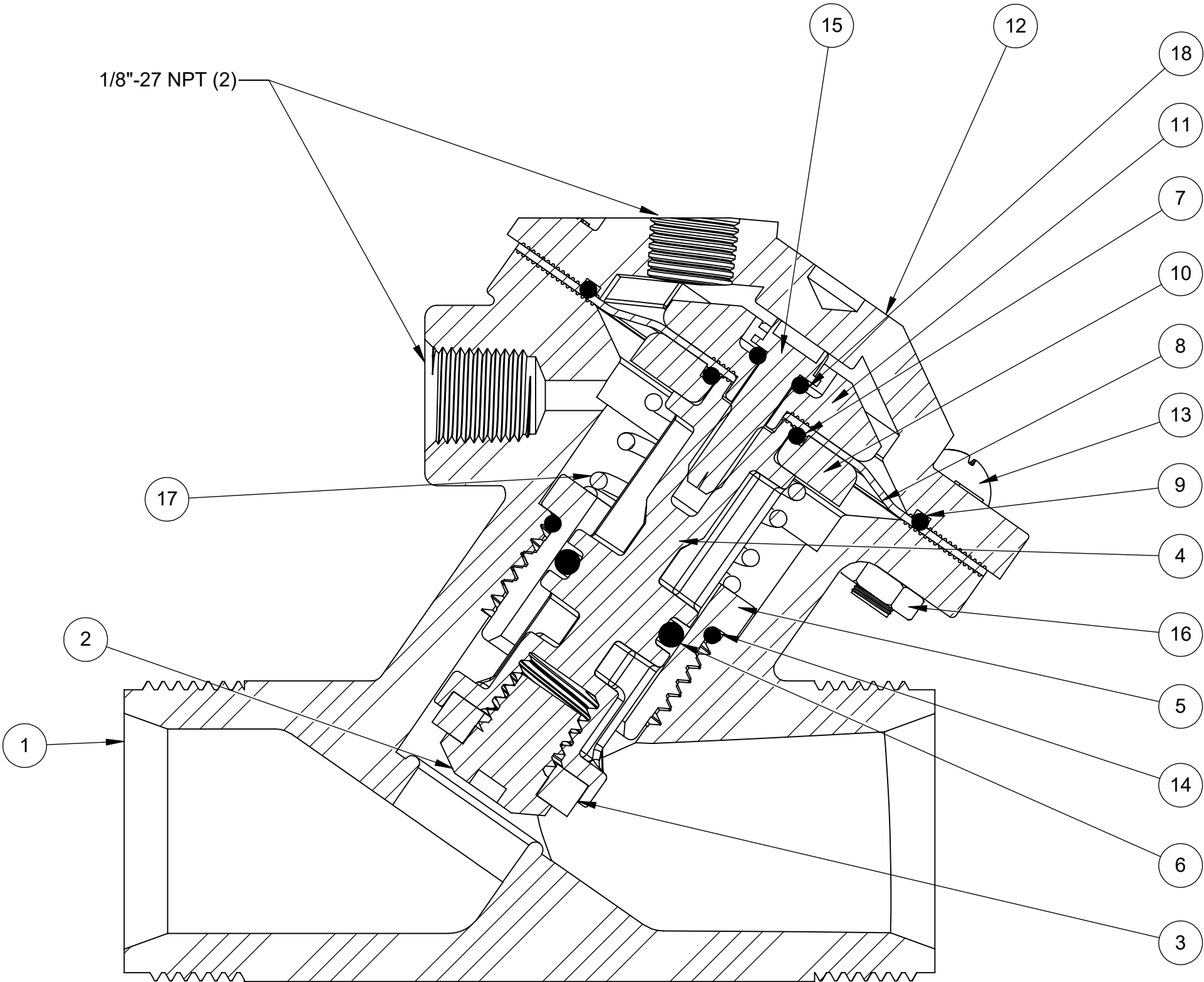


ASSEMBLY TOOLS	
DESCRIPTION	PART NO.
FOR INSTALLATION & REMOVAL OF SHAFT GUIDE (ITEM #5)	1074989 (520-Z)
TO HOLD SHAFT (ITEM #4) DURING ASSEMBLY/DISASSEMBLY	1077834

TORQUE TABLE		
ITEM #	DESCRIPTION	TORQUED TO (+/- 10%)
2	SCREW, PLATE, DISC	8 IN-LB
5	GUIDE, SHAFT	32 IN-LB
13 & 16	CA P SCREW & NUT	30 IN-LB
15	SCREW, CUTTING	15 IN-LB

REVISIONS				
ECN	REV.	DESCRIPTION	DATE	APP'D
1001	O	UPDATE TO AQ-MATIC & VERIFIED PART NUMBERS	01/16/17	MGS
1507	P	LOGO UPDATE, REMOVE BR FROM DRW #, FIX MINOR ERRORS, ADD TORQUE TABLE	05/02/19	KJB
1964	R	CATALOG SHEET UPDATE / REPLACE SHAFT 1077854	11/1/21	TRK/SMH

NORMALLY OPEN W/ SPRING ASSIST				
ITEM NO.	DESCRIPTION		PART NUMBER	QTY.
1	BODY, 520, VALVE	NORYL	1074943	1
2	SCREW, DISC, PLATE, 520	NORYL	1077903	1
3	DISC	EPDM	1074966 (520-J)	1
		BUTYL	1074967 (520-JJ)	
		FKM	1074968 (520-DJK)	
4	SHAFT, 520, NORMALLY OPEN	NORYL	1077854	1
5	GUIDE, SHAFT, 520, NORYL	NORYL	1074964 (520-GN)	1
6	O-RING, 2-111	EPDM	1071727 (ORE-111)	1
		BUTYL	1071764 (ORJ-111)	
		FKM	1071799 (ORV-111)	
7	O-RING 2-112	EPDM	1071717 (ORE-112)	1
		FKM	1071787 (ORV-112)	
8	DIAPHRAGM	BUNA	1078035 (520-FB)	1
		FKM	1078047 (520-FV)	
9	O-RING, 2-030	EPDM	3015801 (ORE-030)	1
10	PLATE, DIAPHRAGM, 520,LWR	NORYL	1077858	1
11	PLATE, DIAPHRAGM, 520, UPPER	NORYL	1077856	1
12	CAP, VALVE 520	NORYL	1074948 (520-BOK)	1
13	SCREW, 10-32 X 5/8",RND HD	SS	1072379 (SCS-0094)	6
14	O-RING, 2-018	EPDM	1071720 (ORE-018)	1
		BUTYL	1071762 (ORJ-018)	
		FKM	1071790 (ORV-018)	
15	SCREW, CUTTING 1/4" TYPE BT	SS	1077781	1
16	NUT, HEX, 10-32, 18-8SS, 5/16	SS	1071647 (NUS-0005)	6
17	SPRING, COMPRESSION	SS	1074982	1
18	O-RING, 2-007	FKM	41122-01 (ORV-007)	1



1070140 (K520-X201-14000)
NORMALLY OPEN W/ SPRING ASSIST OPEN (STANDARD)

- SEE DRAWING 1081309 FOR UNION END CONNECTORS & GROOVED ADAPTORS
- SEE SHEET 2 FOR CONFIGURATION OPTIONS

REPAIR PARTS KIT		
DESCRIPTION	PART NO.	
DIAPHRAGM & SEAL KIT	1081784 (520-RAN) E.P.D.M. INCLUDES DIAPHRAGM 1078035	1081783 (520-RAJN) BUTYL INCLUDES DIAPHRAGM 1078035
	1081787 (520-RAVN) FKM INCLUDES DIAPHRAGM 1078035	1081786 (520-RAVFN) FKM INCLUDES DIAPHRAGM 1078047
INT. PART KIT (NORM. OPEN)	1079600 (K520-RFN)	
CONSISTS OF ITEM NO'S 2,4,5,10,11,15		

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INTERPRET DIMS AND TOLERANCES PER ASME Y14.5M -1994
UNLESS OTHERWISE SPECIFIED:
CORNER FILLETS R.005-.020 [0.127-.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 TRK	11/1/21
CHECKED BY	
APPROVED	



AQ-MATIC
Valves & Controls

CATALOG SHEET, 520, VALVE
STANDARD MODEL

SIZE C	DWG NO. 1078139	REV. R
SCALE 1:2	SOLIDWORKS FORMAT	SHEET 1 OF 2

D

C

B

A

A

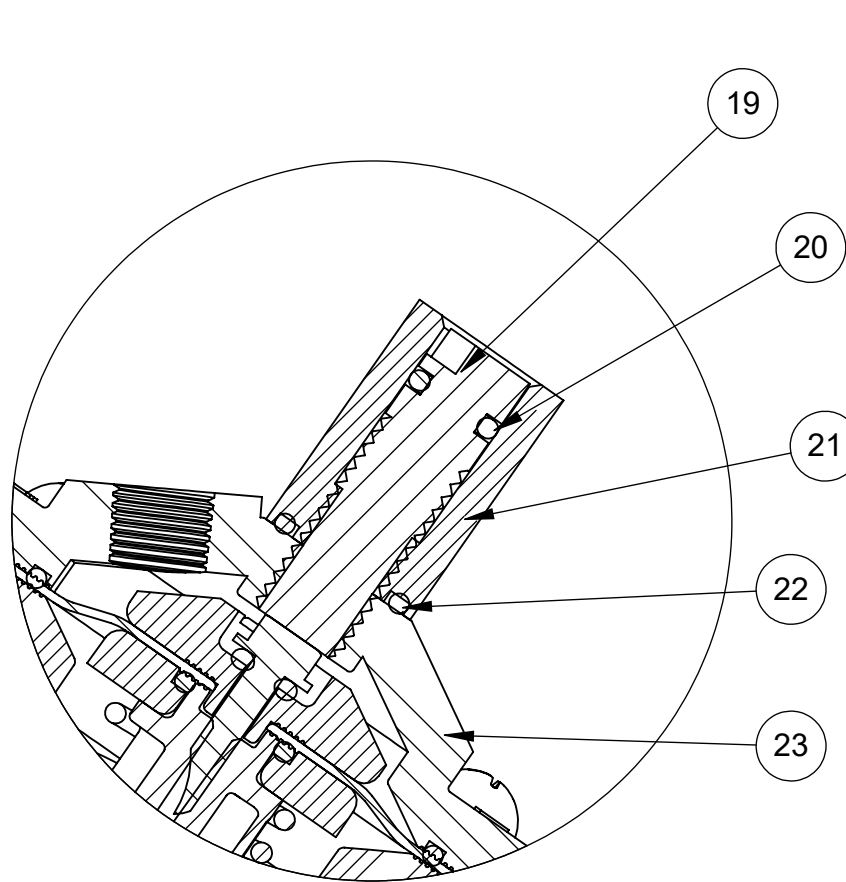
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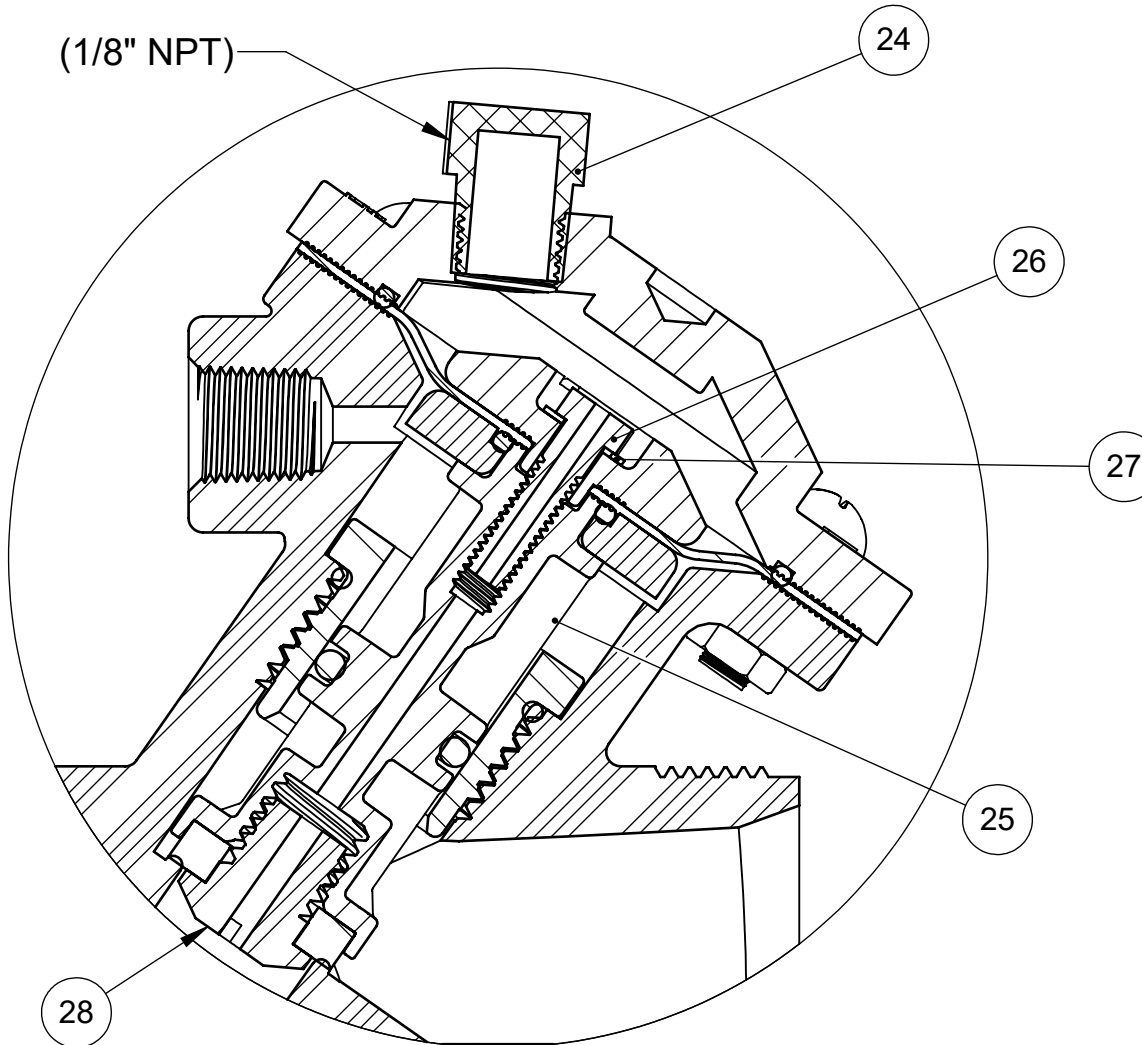
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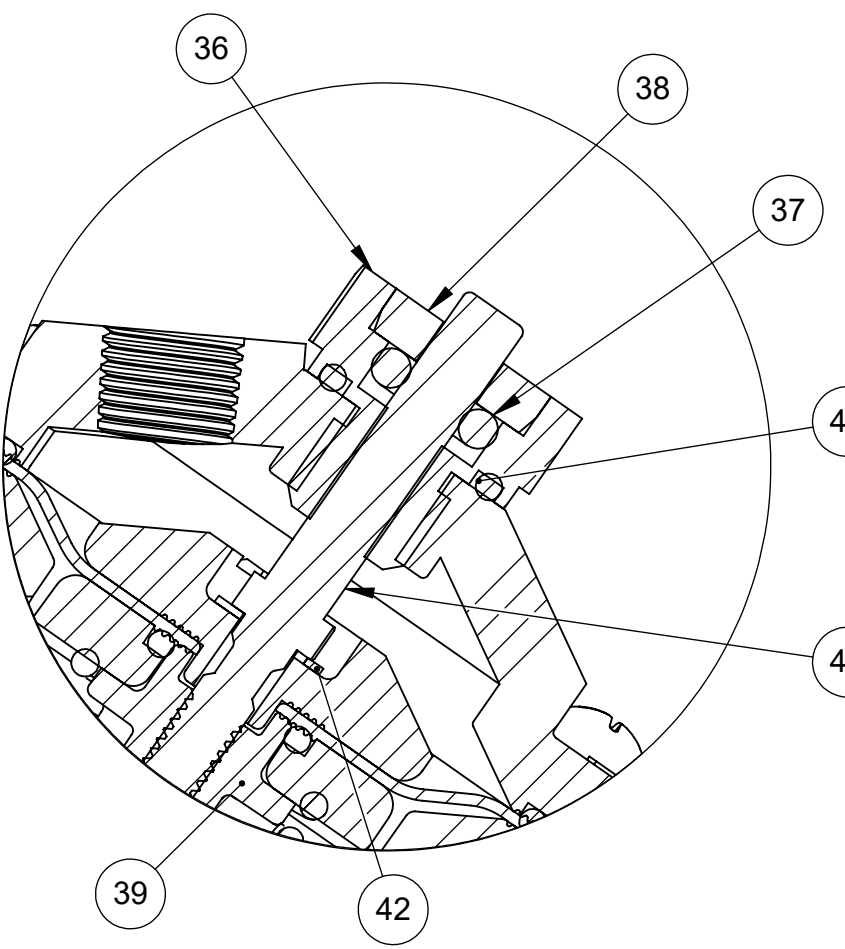


1070141 (K520-X211-14000)
LIMIT STOP



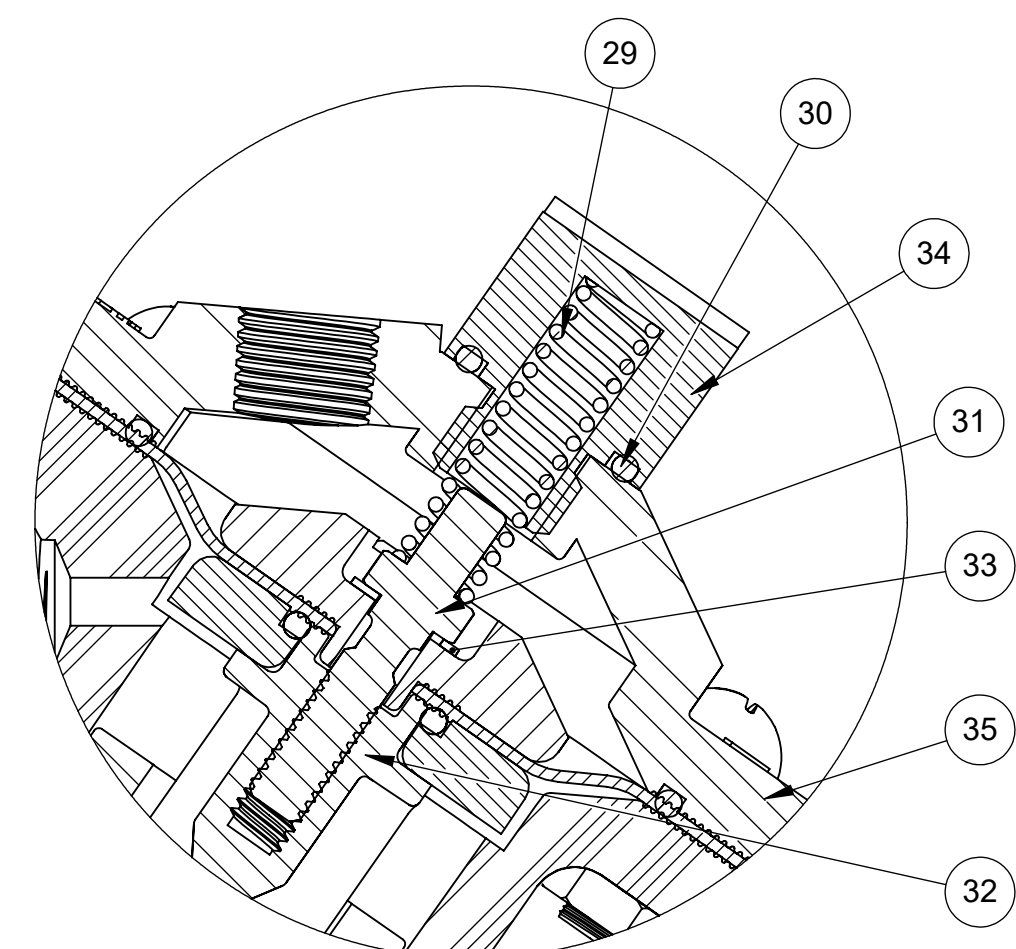
1071082 (K520-X230-14000)
NORMALLY CLOSED

C



1071079 (K520-X221-14000)
POSITION INDICATOR

B



1070143 (K520-X202-14000)
SPRING ASSIST CLOSED

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

LIMIT STOP MODEL				
ITEM NO.	DESCRIPTION		PART NUMBER	QTY.
19	LIMIT STOP SCREW, 520	SS	1074988 (520-Y)	1
20	O-RING, 2-010	BUNA	1071667 (ORB-010)	1
21	LIMIT STOP NUT, 520	SS	1074987 (520-X)	1
22	O-RING, 2-013	BUNA	1071669 (ORB-013)	1
23	CAP, LIMIT STOP, 520	NORYL	1074946 (520-BBOK)	1
NORMALLY CLOSED MODEL				
24	MALE PIPE PLUGS, 1/8" NPT	HDPE	1071912 (PLP-0006)	1
25	SHAFT, 520, NC	NORYL	1077905	1
26	SCREW, 520, DIA PLT, NC	SS	1077818	1
27	WASHER, LOCK, INTERNAL, #8	SS	1006351	1
28	DISC SCREW, 520, NC	NORYL	1078324	1
SPRING ASSIST CLOSED MODEL				
29	SPRING, COMPRESSION	SS	1074981 (520-S)	1
30	O-RING, 2-013	BUNA	1071669 (ORB-013)	1
31	SCREW, 520, DIA PLT, SAC	SS	1077828	1
32	SHAFT, 520, NRYL, PI & SAC	NORYL	1077907	1
33	WASHER, LOCK, INTERNAL, #8	SS	1006351	1
34	SPRING RETAINER, 520	SS	1074986 (520-T)	1
35	CAP, LIMIT STOP, 520	NORYL	1074946 (520-BBOK)	1
POSITION INDICATOR MODEL				
36	GUIDE HOUSING, 520	SS	1074970 (520-KB)	1
37	O-RING, 2-106	BUNA	1071687 (ORB-106)	1
38	PLUG, GUIDE HOUSING, 520	SS	1074971 (520-KC)	1
39	SHAFT, 520, PI & SAC	NORYL	1077907	1
40	O-RING, 2-013	BUNA	1071669 (ORB-013)	1
41	SCREW, 520, DIA PLT, PI	SS	1077826	1
42	WASHER, LOCK, INTERNAL, #8	SS	1006351	1

- NOTE:
- NORMALLY CLOSED CANNOT BE COMBINED WITH SPRING ASSIST CLOSED.
 - LIMIT STOP MODEL CANNOT BE COMBINED WITH SPRING ASSIST CLOSED OPTION.
 - POSITION INDICATOR MODEL FURNISHED WITH NORMALLY OPEN, SPRING ASSIST OPEN OPTION ONLY.

- SEE DRAWING 1081309 FOR UNION END CONNECTORS & GROOVED ADAPTORS
- SEE SHEET 1 FOR STANDARD NORMALLY OPEN MODEL

A

CONVERSION KITS	
DESCRIPTION	PART NO.
CONVERSION KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 19 THRU 23	1071056 (K520-LSC)
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO'S 29 THRU 35	1079602 (K520-SCCN)
CONVERSION KIT (POSITION INDICATOR) CONSISTS OF ITEM NO'S 35 THRU 42	1079599 (K520-PICN)

REPAIR PARTS KIST	
DESCRIPTION	PART NO.
INT. PARTS KIT (LIMITED STOP) CONSIST OF ITEM NO'S 19 THRU 22	1074973 (520-LS)
INT. PARTS KIT (NORM. CLOSED) CONSIST OF ITEM NO'S 4,10,11,25,26,27,28	1079601 (520-RGN)
INT. PARTS KIT (SPRING ASSIST CLOSED) CONSIST OF ITEM NO'S 29 THRU 33	1081789 (520-SCN)
INT. PARTS KIT (POSITION INDICATOR) CONSIST OF ITEM NO'S 36 THRU 42	1081782 (520-PIN)

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THIRD ANGLE PROJECTION

APPROVALS DATE

DRAWN TRK 11/1/21

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CATALOG SHEET, 520, VALVE STANDARD MODEL

SIZE **C** DWG NO. **1078139** REV. **R**

SCALE 1:1 SOLIDWORKS FORMAT SHEET 2 OF 2