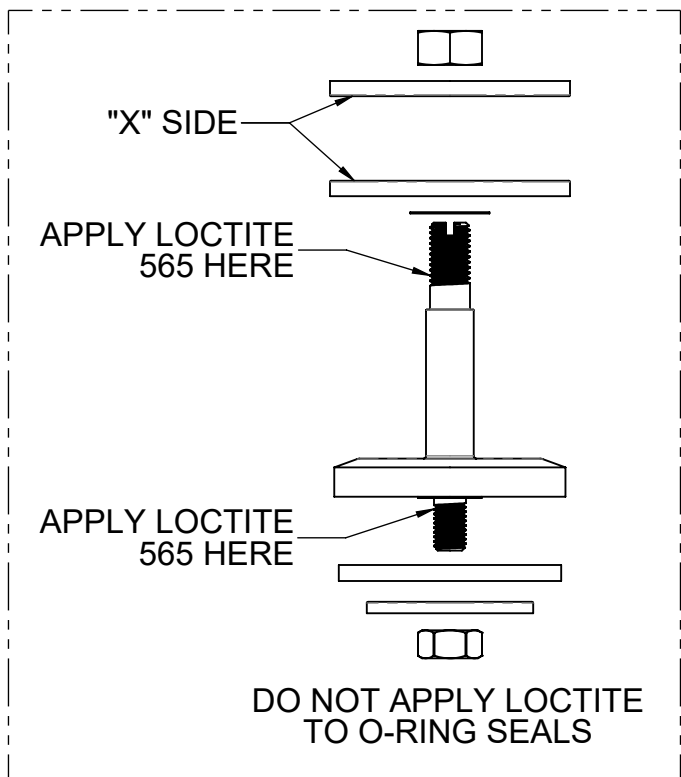
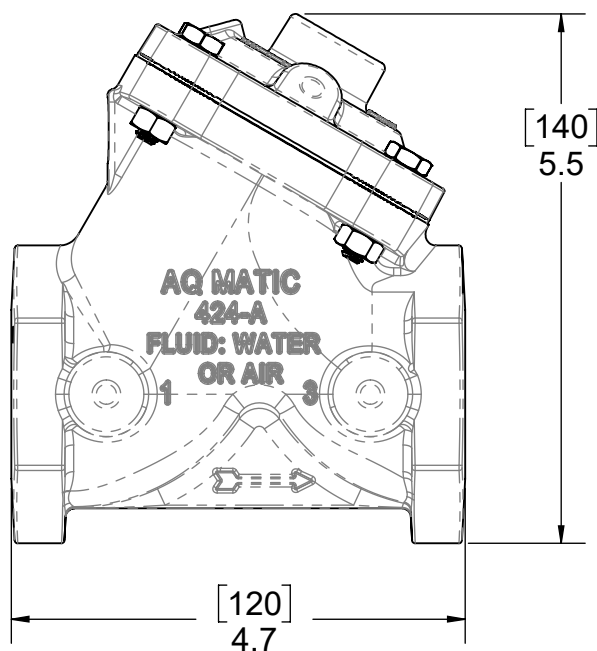


REPAIR PARTS KITS		
DESCRIPTION	PART NUMBER	
DIAPHRAGM & SEALS KIT CONSISTS OF ITEM NO'S: 5, 7, 8, 10, 12, 13, 15, 17	1070107 (AV4-RA)	1070502 (AV4-RAHT)
	INCLUDES BUNA DIAPHRAGM	INCLUDES FKM DIAPHRAGM
INT. PARTS KIT (NORM. OPEN) CONSISTS OF STANDARD ITEM NO'S: 6 (2), 9, 11, 14	1070119 (424-RF)	
SEAT: ITEM NO. 16	1074245 (424-MO)	

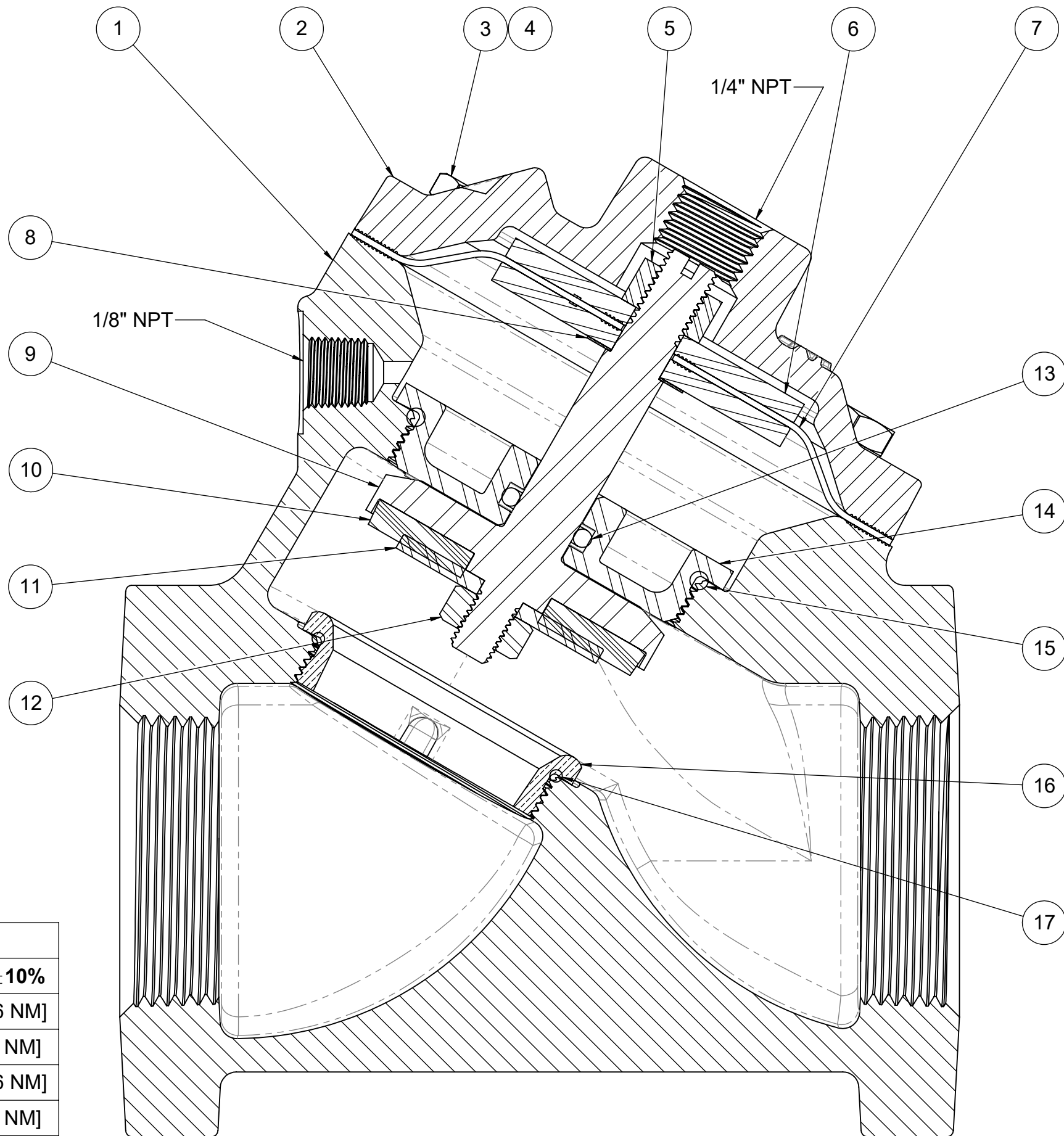
NOTES:

- AMERICAN NATIONAL STANDARD TAPER PIPE THREADS (NPT) PER ANSI B2.1-1968.
- VALVES AVAILABLE WITH B.S.P.T. END CONNECTIONS.



TORQUE TABLE		
ITEM #	DESCRIPTION	TORQUED TO $\pm 10\%$
16	SEAT	120 IN-LBS [13.6 NM]
11	LOWER NUT	90 IN-LBS [10.2 NM]
14	SHAFT GUIDE	120 IN-LBS [13.6 NM]
5	UPPER NUT	90 IN-LBS [10.2 NM]
3 & 4	NUT & CAP SCREW	90 IN-LBS [10.2 NM]

ASSEMBLY TOOLS	
DESCRIPTION	KIT NO.
FOR INSTALLATION AND REMOVAL OF SEAT (ITEM NO. 16) (TOOL NOT SHOWN)	1074247 (424-MT)
FOR INSTALLATION AND REMOVAL OF SHAFT GUIDE FOR VALVES MADE BEFORE NOV. 23, 2022 (ITEM NO. 14) (TOOL NOT SHOWN)	1074227 (424-GT)
FOR INSTALLATION AND REMOVAL OF SHAFT GUIDE FOR VALVES MADE AFTER NOV. 23, 2022 (ITEM NO. 14) (TOOL NOT SHOWN)	3/4" HEX. SOCKET



4500196 (VAVD-0000-90000) (1-1/4" NPT)
1072475 (VAVE-0000-90000) (1-1/2" NPT)

NORMALLY OPEN (STANDARD)

REVISION HISTORY				
ECN	REV.	DESCRIPTION OF CHANGE	DATE	APPROVED
2139	M	CATALOG SHEET UPDATE, PART TO PRINT	9/20/2022	TRK
2171	N	REPLACED 1074226 (SHAFT GUIDE) WITH 43852	1/26/2023	TRK
2271	P	REMOVE DISC 1074235 FROM BOM	9/13/2023	TRK
2676	Q	REDRAWN WITH UPDATED MODELS, LEGACY TOOL ADDED	5/26/2026	PMJ

NORMALLY OPEN MODEL							
ITEM NO.	DESCRIPTION	THREAD	MATERIAL	STD	PART NO.	MODEL	QTY.
1	VALVE BODY, 424	1 - 1/4" NPT	CAST IRON	*	1074196	424-A5	1
		1 - 1/2" NPT		*	1074199	424-A6	
		1 - 1/4" BSPT			1074197	424-A5-BSP	
		1 - 1/2" BSPT			1074200	424-A6-BSP	
2	CAP, 424, CAST IRON, NPT		CAST IRON	*	1074202	424-C	1
3	SCREW, 1/4-20X1 1/8", HX HD, CAP			*	1072399	SCZ-0007	4
4	NUT, HEX, 1/4-20, ZINC PLATED			*	1071656	NUZ-0008	4
5	NUT, HEX, 5/16-24, SS			*	1263853	RMET	1
6	PLATE, 424 DIAP/425 DISC PLATE			*	43943	424-DS	2
7	DIAPHRAGM, 424		BUNA	*	1074222	424-FB	1
			FKM		1074224	424-FV	
8	COPPER GASKET			*	1074252	424-R	1
9	NORMALLY OPEN COMBO SHAFT			*	44013	424-L2	1
10	DISC, 424, HYCAR		HYCAR	*	1074234	424-JH	1
11	PLATE, DIAPH-421/DISC-424 SS			*	43942	424-H	1
12	NUT, HEX, 1/4-28, SS			*	1263852	NUS-0010	1
13	O-RING, ORA-110, AFLAS		AFLAS	*	1071661	ORA-110	1
14	SHAFT GUIDE, 424, HEX, MCHD			*	43852	424-GGS	1
15	O-RING, -132, FKM		FKM	*	1071806	ORV-132	1
16	SEAT, 424, BRASS, MCHD			*	1074245	424-MO	1
17	O-RING, -028, FKM		FKM	*	1071793	ORV-028	1

SEE SHEET 2 FOR CONFIGURATION OPTIONS

INTERPRET DIMENSIONS & TOLERANCES PER ASME Y14.5M-2018
PRIMARY UNITS SHOWN IN INCHES.
SECONDARY UNITS SHOWN IN MILLIMETERS.
THIRD ANGLE PROJECTION
DEFAULT TOLERANCES:
ANGLES: $\pm 1^\circ$
1 PLACE .X: $\pm .100$ [2.54]
2 PLACE .XX: $\pm .010$ [0.3]
3 PLACE .XXX: $\pm .005$ [0.13]
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DESCRIPTION
CATALOG SHEET, VAV4, DIAPHRAGM VALVE STANDARD MODEL

DWG NO.	1077636	REV.	Q
SIZE	C	SCALE	3:2
		SHEET 1 OF 2	

REVISION HISTORY				
ECN	REV.	DESCRIPTION OF CHANGE	DATE	APPROVED
SEE SHEET 1 FOR REVISION HISTORY				

ITEM NO.	DESCRIPTION	STD	PARTNO	MODEL	QTY.
NORMALLY CLOSED MODEL					
18	PLUG,PIPE,1/4 MNPT,PLTD STL	*	1071918	PLZ-0008	1
19	NORMALLY CLOSED COMBO SHAFT	*	44013-02	424-LL2	1
SPRING ASSIST CLOSED MODEL					
20*	PLUG,PIPE,1/8 MNPT,BRS,SQ H		1071903	PLB-0007	1
21	RETAINER NUT, 424	*	1074274	424-TT	1
22	SPRING,COMPRESSION,302 SS	*	1074270	424-SS	1
23	O-RING, 2-020,BUNA	*	1071674	ORB-020	1
24	NUT,CENTERING,424,MCHD	*	1074276	424-X	1
25	CAP,424,CAST IRON,SAC,SCC	*	1074208	424-CC	1
SPRING ASSIST OPEN MODEL					
26	PLATE,DIAPHRAGM,424,SAO,SS	*	43728	-	1
27	SPRING,316S	*	1236766	424-S	1

TORQUE TABLE		
ITEM NO.	DESCRIPTION	TORQUED TO $\pm 10\%$
21	NUT,SPRING RETAINER,424,MCHD	120 IN-LBS [13.6 NM]
24	NUT,CENTERING,424,MCHD	90 IN-LBS [10.2 NM]

REPAIR PARTS KITS	
DESCRIPTION	KIT NO.
INTERNAL PARTS KIT (NORMALLY CLOSED) CONSISTS OF STANDARD ITEM NO'S: 6 (X2), 11, 14, 19	1070130 (424-RG)
INTERNAL PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S: 21 THRU 24	1074265 (424-SC)
INTERNAL PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S: 8, 26, 27	1074268 (424-SO)

CONVERSION KITS	
DESCRIPTION	KIT NO.
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S: 21 THRU 25	1074266 (424-SCC)
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S: 8, 26, 27	1074269 (424-SOC)

SEE SHEET 1 FOR STANDARD NORMALLY OPEN MODEL

INTERPRET DIMENSIONS & TOLERANCES PER ASME Y14.5M-2018

PRIMARY UNITS SHOWN IN INCHES.
SECONDARY UNITS SHOWN IN MILLIMETERS.

THIRD ANGLE PROJECTION

DEFAULT TOLERANCES:

ANGLES : $\pm 1^\circ$

1 PLACE .X: $\pm .100$ [2.54]

2 PLACE .XX: $\pm .010$ [0.3]

3 PLACE .XXX: $\pm .005$ [0.13]

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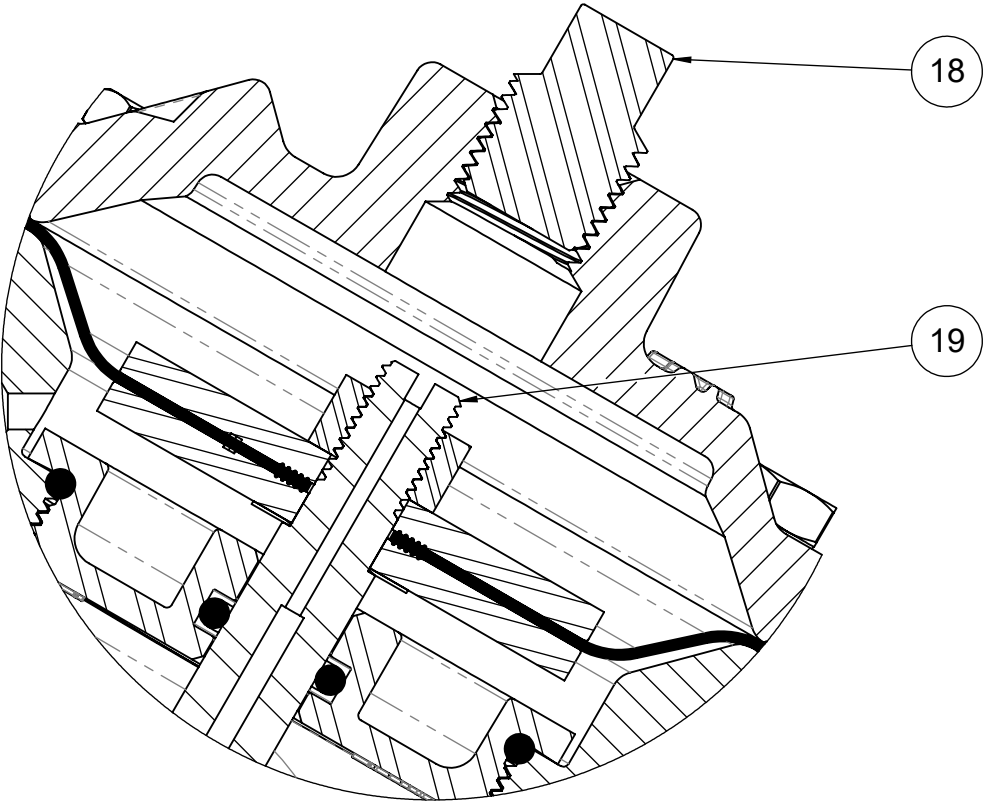


AQ-MATIC
Valves & Controls

DESCRIPTION
CATALOG SHEET,VAV4, DIAPHRAGM VALVE STANDARD MODEL

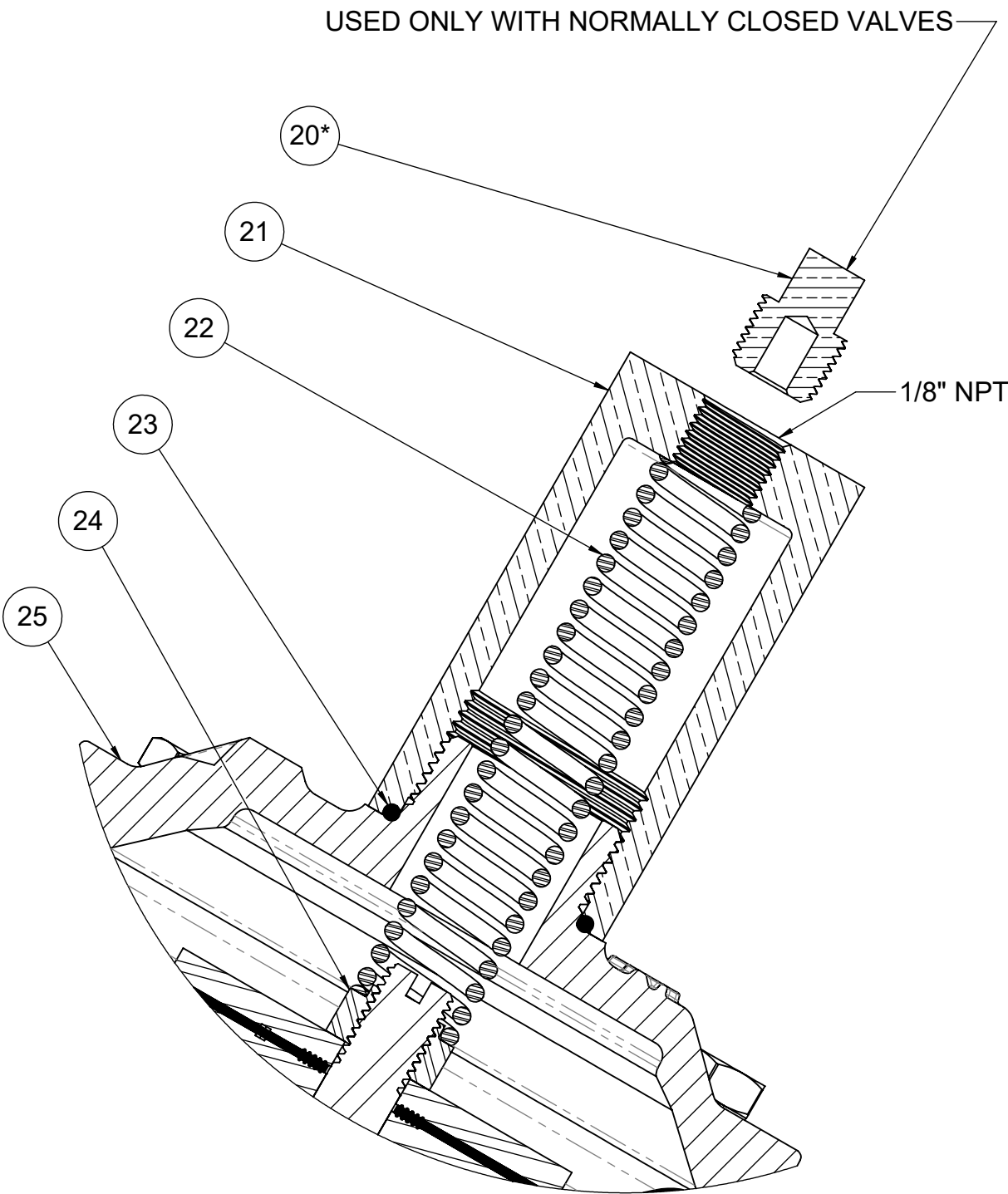
DWG NO. 1077636REV. Q

SIZE CSCALE 3:2SHEET 2 OF 2



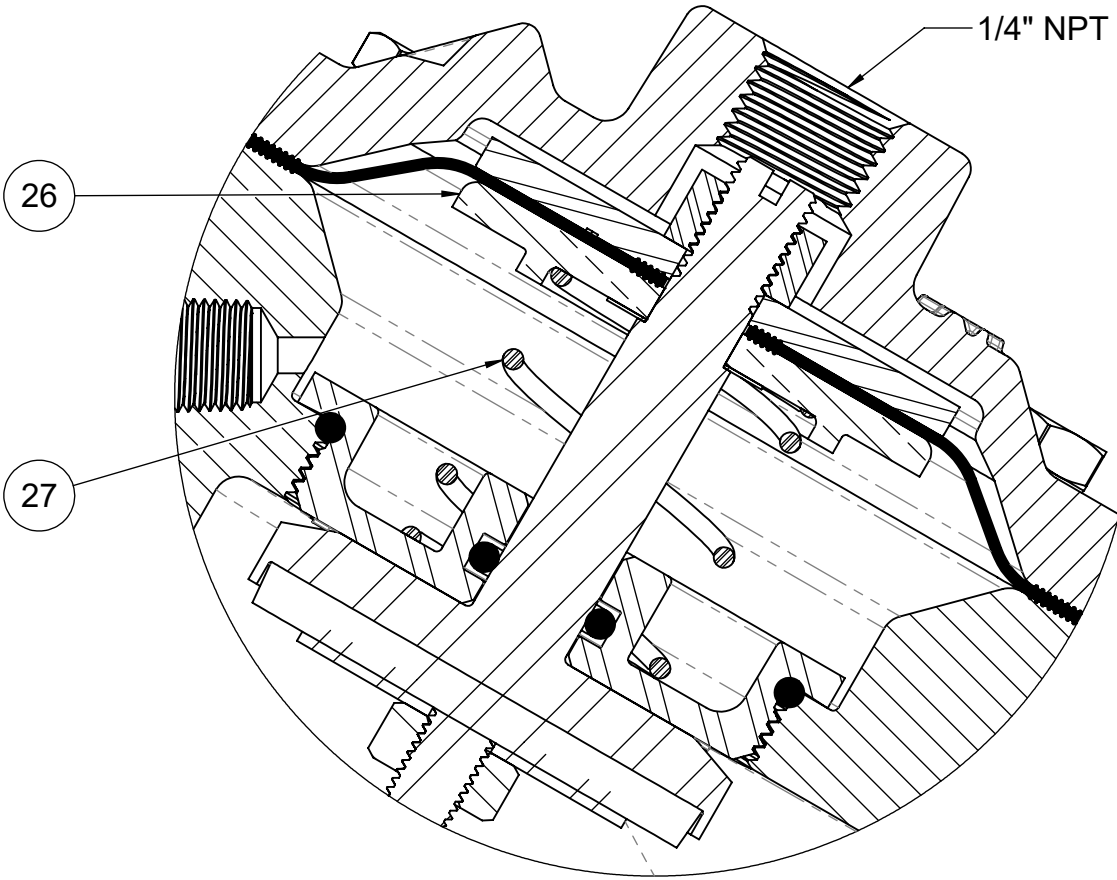
4500197 (VAVD-0030-90000) (1-1/4" NPT)
1072479 (VAVE-0030-90000) (1-1/2" NPT)

NORMALLY CLOSED



1072472 (VAVD-0002-90000) (1-1/4" NPT)
1072477 (VAVE-0002-90000) (1-1/2" NPT)

SPRING ASSIST CLOSED



1072471 (VAVD-0001-90000) (1-1/4" NPT)
1070064 (VAVE-0001-90000) (1-1/2" NPT)

SPRING ASSIST OPEN