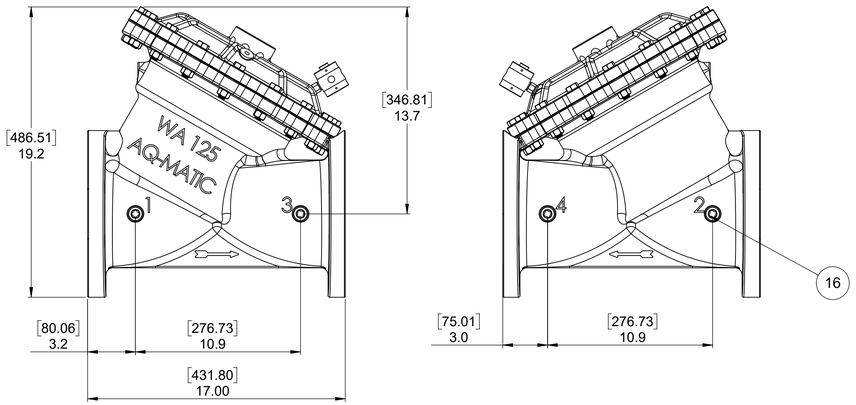
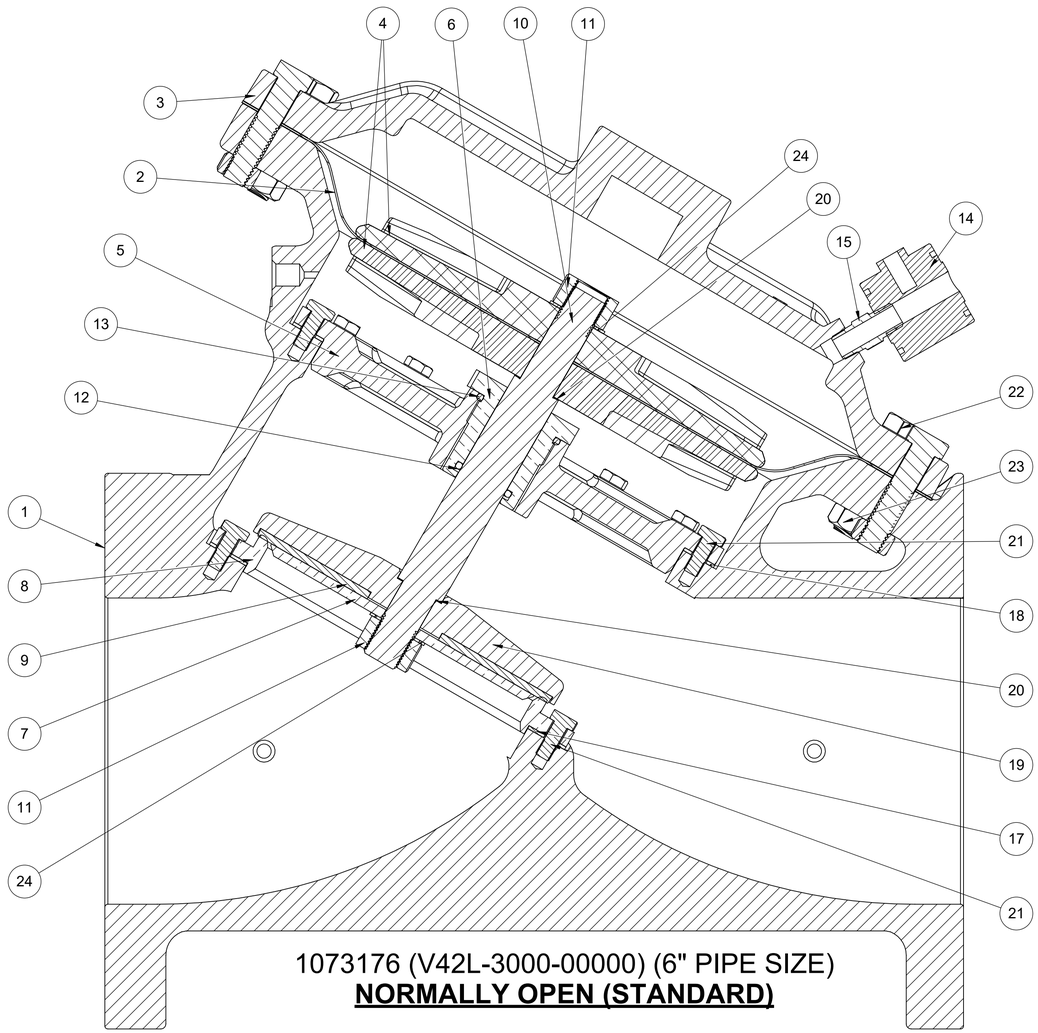


REPAIR PARTS KITS		
DESCRIPTION	**PART NO.**	
DIAPHRAGM & SEALS KIT CONSISTS OF ITEM NO'S 2, 9, 11(2), 12, 13, 17, 18, 20(2), 24(2)	1070074 (429-RA)	1070099 (429-RAV)
	BUNA N INCLUDES DIAPHRAGM 1074622 (429-FB)	FKM INCLUDES DIAPHRAGM 1074623 (429-FV)
INT. PARTS KIT (NORM. OPEN) CONSISTS OF STANDARD ITEM NO'S 4(2), 5, 6, 7, 10, 19, 21(12)	1074653 (429-RF)	
SEAT - ITEM NO. 8	1074640 (429-MO)	

NOTE:

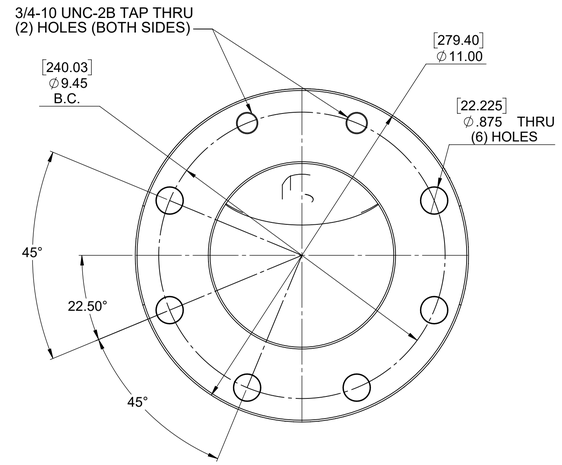
1. **AMERICAN NATIONAL STANDARD TAPER PIPE THREADS (NPT) PER ANSI B2.1 - 1968**

REVISIONS				
ECN	REV.	DESCRIPTION	DATE	APP'D
1832	R	CATALOG SHEET UPDATE, ON AQ TEMPLATE	1/22/21	
1943	S	CATALOG SHEET UPDATE, CORRECTIONS TO KITS	9/15/21	
2565	T	MATERIAL CORRECTION TO O-RING 1242721	7/1/2025	

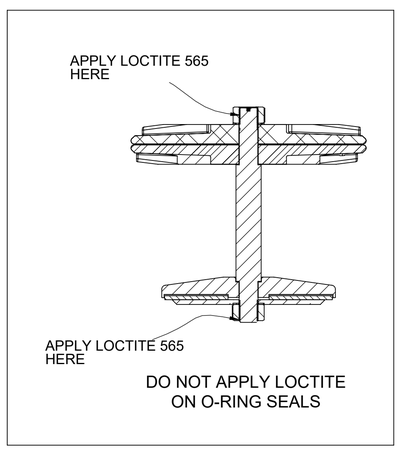


1073176 (V42L-3000-00000) (6" PIPE SIZE)

NORMALLY OPEN (STANDARD)



AMERICAN FLANGE PER A.S.A 16.1 CLASS 125



NORMALLY OPEN (STANDARD CONFIGURATION)

ITEM NO.	DESCRIPTION		STD	PART NUMBER	QTY.
1	VALVE BODY	CAST IRON	*	1074613 (429-A)	1
2	DIAPHRAGM	BUNA-N	*	1074622 (429-FB)	1
		FKM		1074623 (429-FV)	
3	CAP, 429	CAST IRON	*	1074615 (429-C)	1
4	PLATE, DIAPHRAGM	BRASS	*	1074620 (429-D)	4
5	SHAFT GUIDE	CAST IRON	*	1074625 (429-G0)	1
6	GUIDE, SHAFT	BRASS	*	1074646 (429-P)	1
7	PLATE, DISC	BRASS	*	1074634 (429-K)	1
8	LOWER, SEAT	BRASS	*	1074640 (429-MO)	1
9	DISC	HYCAR	*	1074632 (429-JH)	1
		FKM		1074633 (429-JV)	
10	SHAFT NO	STAINLESS STEEL	*	1074636 (429--L)	1
11	NUT, 3/4-16	STAINLESS STEEL	*	3001991	2
12	O-RING, 2-214, FKM	NITRILE	*	1242721	1
13	O-RING , 2-223	NITRILE	*	1071703 (ORB-223)	1
		FKM		1071820 (ORV-223)	
14	HUMPHREY VALVE N.C.	BRASS	*	1074661 (429-VP)	1
15	FITTING, NIPPLE 1/4MNPTX1.38	BRASS	*	1081648	1
16	MALE PIPE PLUG, 1/4 NPT	PLATED STEEL	*	1071918 (PLZ-0008)	4
17	GASKET, 429, SEAT	BUNA-N	*	1074642 (429-N)	1
18	GASKET, CENTERING PLATE,	BUNA-N	*	1074644 (429-O)	1
19	RETAINER DISC, SS	STAINLESS STEEL	*	4510460 (429-HS)	1
20	GASKET, WASHER	COPPER	*	1073952	2
21	SCREW, HEX HD, CAP, 5/16-18 SS	PLATED STEEL	*	1072355 (SCS-0011)	20
22	SCREW 1/2-13, HEX HD, CAP	PLATED STEEL	*	1072410 (SCZ-0038)	16
23	NUT, 1/2-13	PLATED STEEL	*	16568-02	16
24	LOCK WASHER	STAINLESS STEEL	*	1073592 (WAS-0011)	2

SEE REVERSE SIDE FOR CONFIGURATION OPTIONS

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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: ± .015 [0.38]
2 PLACE XX: ± .01 [0.3]
3 PLACE XXX: ± .005 [0.13]

THIRD ANGLE PROJECTION

APPROVALS	DATE
DRAWN TRK	1/22/21
CHECKED BY	
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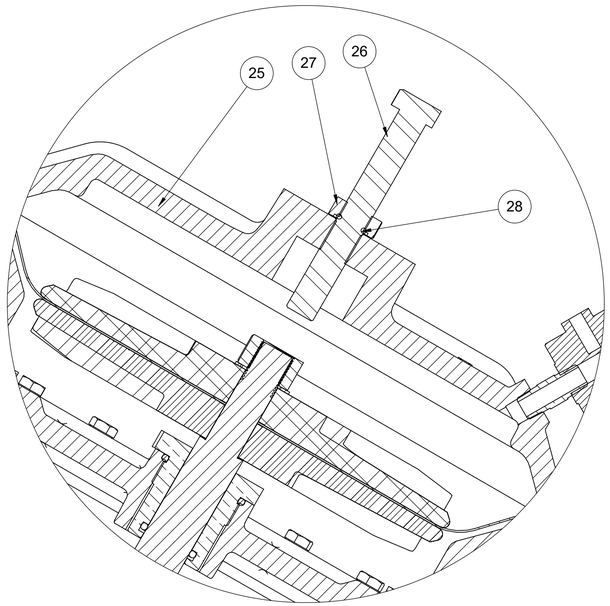
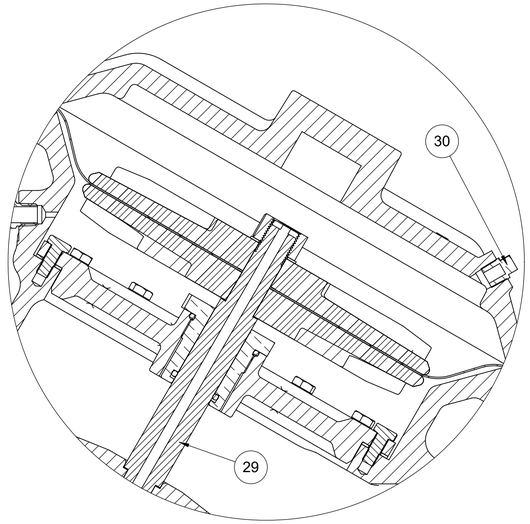
CATALOG SHEET, 429
DIAPHRAGM VALVE STANDARD MODEL

SCALE	SOLIDWORKS FORMAT	DWG NO.	REV.
	SHEET 1 OF 2	1077619	T

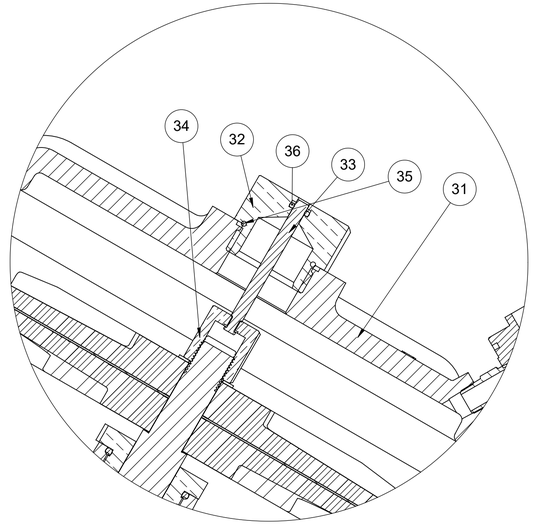
REVISIONS				
ECN	REV.	DESCRIPTION	DATE	APP'D
1832	R	CATALOG SHEET UPDATE, ON AQ TEMPLATE	1/22/21	
1943	S	CATALOG SHEET UPDATE, CORRECTIONS TO KITS	9/15/21	
2565	T	MATERIAL CORRECTION TO O-RING 1242721	7/1/2025	



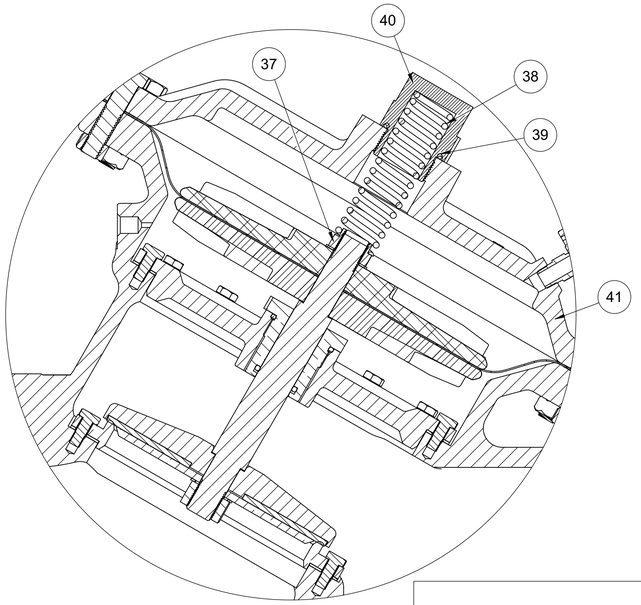
1073184 (V42-3010-00000)
LIMIT STOP



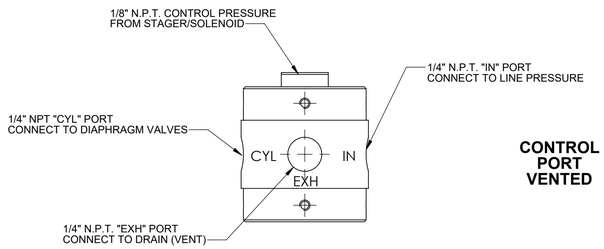
1073187 (V42-3030-00000)
NORMALLY CLOSED

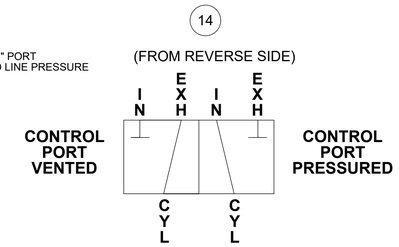


1082048 (V42-3020-00000)
POSITION INDICATOR



4500139 (V42-3002-00000)
SPRING ASSIST CLOSED





THIS 3-WAY "NORMALLY CLOSED" AUXILIARY PILOT VALVE (PART NO. 429-VP) IS FURNISHED WITH ALL V42L DIAPHRAGM VALVES. IT ACCELERATES THE CLOSING AND OPENING SPEED OF THE VALVE.

LIMIT STOP MODEL					
ITEM NO.	DESCRIPTION		STD.	PART NUMBER	QTY.
25	CAP, 429, LIMIT STOP	CAST IRON	*	1074617 (429-CCC)	1
26	SCREW, HEX HD CAP, 5/8-18 X 4.5"	SS	*	1074660 (429-U)	1
27	NUT, LIMIT STOP	SS	*	1074434 (426-U)	1
28	O-RING, 2-112	BUNA-N	*	1071690 (ORB-112)	1

NORMALLY CLOSED MODEL					
ITEM NO.	DESCRIPTION		STD.	PART NUMBER	QTY.
29	SHAFT, 429, NORMALLY CLOSED	SS	*	1074637 (429-LL)	1
30	MALE PIPE PLUG, 1/4 NPT	PLATED STEEL	*	1071918 (PLZ-0008)	1

POSITION INDICATOR MODEL					
ITEM NO.	DESCRIPTION		STD.	PART NUMBER	QTY.
31	CAP, 429, POSITION INDICATOR	CAST IRON	*	1074618 (429-CF)	1
32	GUIDE, SHAFT, 429, BRASS		*	1074624 (429-GF)	1
33	SHAFT, 429, SS, MACH		*	1074649 (429-PM)	1
34	NUT, 429, BRASS		*	1074658 (429-TB)	1
35	O-RING, 2-128, NITRILE		*	1071694 (ORB-128)	1
36	O-RING, 2-106, NITRILE, TFLN CTD		*	1071688 (ORB-108TC	1

SPRING ASSIST CLOSED					
ITEM NO.	DESCRIPTION		STD.	PART NUMBER	QTY.
37	NUT, SPRING RETAINER	SS	*	1074663 (429-X)	1
38	SPRING,COMPRESSION,429,SAC	SS	*	1074657	1
39	O-RING, 2-222, NITRILE		*	1079839 (ORB-222)	1
40	NUT, SPRING RETAINER, 429, BRASS		*	1074659 (429-TT)	1
41	CAP, 429, SPRING ASSIST CLOSED	CAST IRON	*	1074616 (429-CC)	1

REPAIR PARTS KITS	
DESCRIPTION	**PARTS NO.**
INT. PARTS KIT (LIMIT STOP)CONSISTS OF STANDARD ITEM NO'S 26, 27, 28	1074638 (429-LS)
INT. PARTS KIT (NORM. CLOSED) CONSISTS OF STANDARD ITEM NO'S 4(2), 5, 6, 7, 19, 22(12), 29	1074654 (429-RG)
INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 37, 38, 39	1074655 (429-SC)
INT. PARTS KIT (POSITION INDICATOR) CONSISTS OF STANDARD ITEM NO'S 24(2), 32 THRU 36	1074647 (429-PI)

CONVERSION KITS	
DESCRIPTION	**PART NO.**
CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 16 (1), 25 THRU 28	1074639 (429-LSC)
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 11(2), 16, 37 THRU 41	1074656 (429-SCC)
CONVERSION KIT (POSITION INDICATOR) CONSISTS OF STANDARD ITEM NO'S 24(2), 31 THRU 36	1074648 (429-PIC)

NOTE
1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP OR POSITION INDICATOR.
2. SPRING ASSIST OPEN MODEL AVAILABLE.

SEE REVERSE SIDE FOR STANDARD MODEL NORMALLY OPEN MODEL

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CATALOG SHEET, 429
DIAPHRAGM VALVE STANDARD MODEL

SCALE	DWG NO.	REV.
	D 1077619	T
	SOLIDWORKS FORMAT	SHEET 2 OF 2