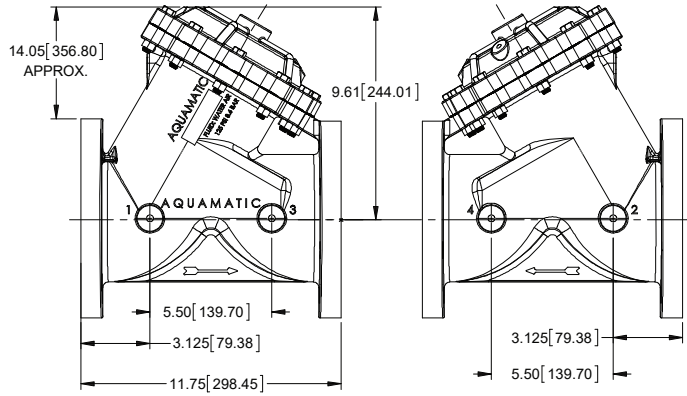
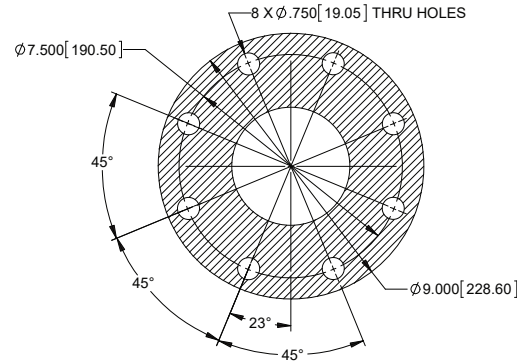


- NOTE:  
 1. AMERICAN NATIONAL STANDARD TAPER PIPE  
 THREADS (NPT) PER ANSI B2.1-1988  
 2. VALVES AVAILABLE WITH B.S.P. END CONNECTIONS.

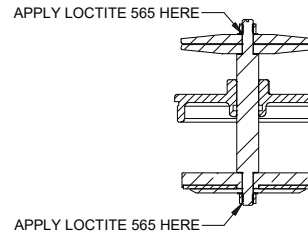
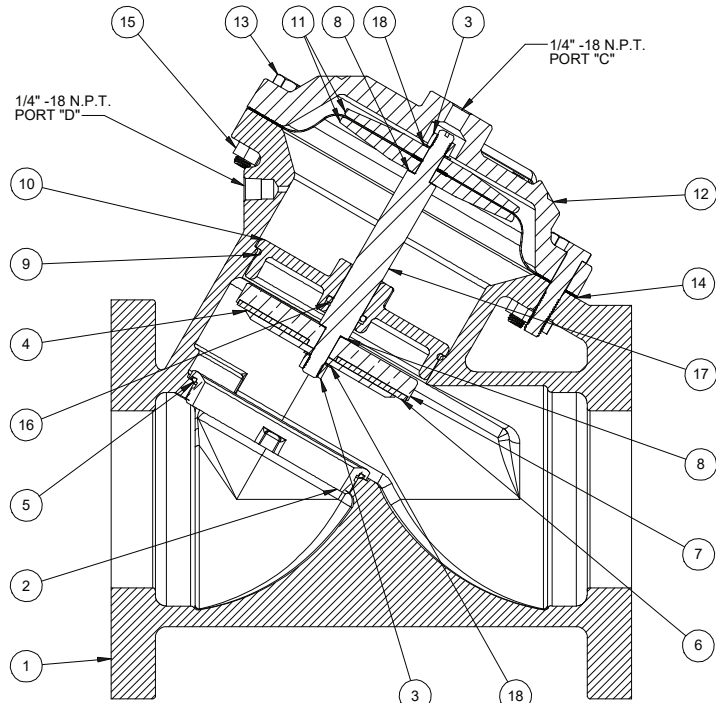


TORQUE TABLE		
ITEM #	DESCRIPTION	TORQUED TO (+/- 10%)
2	SEAT	400 IN/LBS (33 FT/LBS)
3	UPPER NUT	140 IN/LBS
3	LOWER NUT	215 IN/LBS
10	GUIDE, SHAFT	500 IN/LBS (41.6 FT/LBS)
13 & 15	NUT, & CAP SCREW	140 IN/LBS



AMERICAN FLANGE PER A.S.A. 16.1 CLASS 125  
 METRIC FLANGE PER BS 4504, DIN 10 & ISO R 2054

FLANGE STYLE	A	B	C
AMERICAN	9.000	7.500	.750
METRIC	229 MM	180 MM	18 MM



DO NOT APPLY TO O-RING SEALS

ITEM NO.	DESCRIPTION	STD	PART NUMBER	QTY.
1	BODY, 428, CI, 4.00, ISO	*	1074522	1
2	SEAT, 428, BRASS	*	1074585	1
3	NUT, HEX, 3/8-24, SS	*	3001990	2
4	PLATE, DISC, 428, SS	*	43734	1
5	O-RING (NITRILE), 2-156	*	1071697	1
	O-RING, EPDM -156	*	1071739	1
	O-RING, -156, FKM	*	1071811	1
6	DISC,	*	1074568	1
	DISC, E.P.D.M.	*	1074570	1
	DISC, FKM	*	1074573	1
	DISC, HYCAR	*	1074571	1
7	DISC HOLDER, ALUM-BRNZE	*	1074587	1
8	GASKET, CDA 110 COPPER	*	103950	2
9	O-RING (NITRILE), 2-245	*	1071711	1
	O-RING, EPDM -245	*	1071759	1
	O-RING, -245, FKM	*	1071832	1
10	GUIDE, SHAFT, 428, BRASS, MCHD	*	1074563	1
11	PLATE, DIAPHRAGM, 428, SS, MACH	*	43759	2
12	CAP, 428, NPT, CI	*	1074532	1
13	HEX HEAD CAP SCREW,	*	1072406	11
14	DIAPHRAGM SERIES 428,	*	1074557	1
	DIAPHRAGM SERIES 428,	*	1074559	1
15	HEX NUT, 3/8-16	*	1071658	11
	O-RING (NITRILE),	*	1071702	1
16	O-RING, 2-210	*	1242718	1
	O-RING, 2-210	*	1242394	1
17	SHAFT, 428	*	1074579	1
18	LOCKWASHER, 3/8", INTERNAL	*	1073591	2

REPAIR PARTS KITS

DESCRIPTION	PART NO.		
DIAPHRAGM & SEALS KIT CONSISTS OF ITEM NO'S 3(2), 5, 6, 8(2), 9, 14, 16	1070073 (428-RA)	1070086 (428-RAE)	1070098 (428-RAV)
	BUNA N INCLUDES DIAPHRAGM 1074557 (428-FB)	E.P.D.M. INCLUDES DIAPHRAGM 1074557 (428-FB)	FKM INCLUDES DIAPHRAGM 1074559 (428-FV)
INT. PARTS KIT (NORM. OPEN) CONSISTS OF STANDARD ITEM NO'S 4, 7, 10, 11(2), 17, 18	1070123 (428-RF)		
SEAT (ITEM NO. 2)	1074585 (428-MAO)		

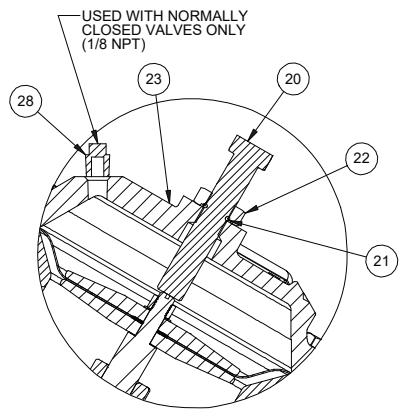
ASSEMBLY TOOLS

DESCRIPTION	PART NO.
FOR INSTALLATION & REMOVAL OF SHAFT GUIDE (ITEM #10) (NOT SHOWN)	1-1/4" HEX SOCKET

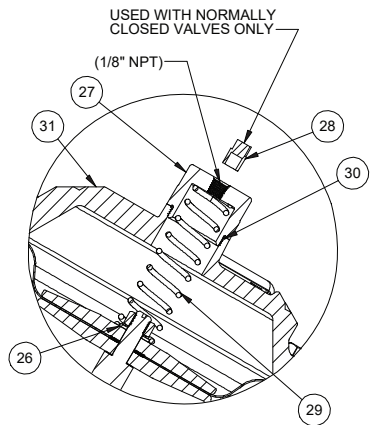
SEE REVERSE SIDE FOR  
 CONFIGURATION OPTIONS

1070045 (V42K-3000-00000) (4" PIPE SIZE)  
 NORMALLY OPEN (STANDARD)

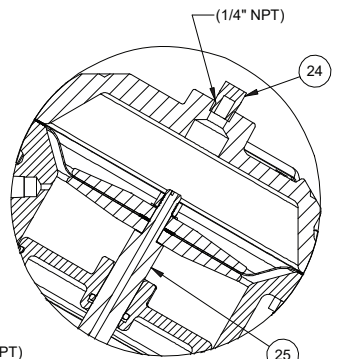
THIRDS ANGLE PROJECTION 	APPROVALS	DATE		
	DRAWN	SM		
DO NOT SCALE DRAWING DIMS. ARE IN INCHES (mm) INTERPRET DIMS AND TOLERANCES PER ASME Y14.5M - 2009 UNLESS OTHERWISE SPECIFIED: TOLERANCES: ANGLES: ± 1° 1 PLACE: X ± 0.10 (0.38) 2 PLACE: XX ± 0.01 (0.25) 3 PLACE: XXX ± 0.005 (0.125)			TITLE	REV
			CATALOG SHEET, 428 DIAPHRAGM VALVE STANDARD MODEL	M
SCALE		C	DWG. NO.	1077618
1:4				SHEET 1 OF 2



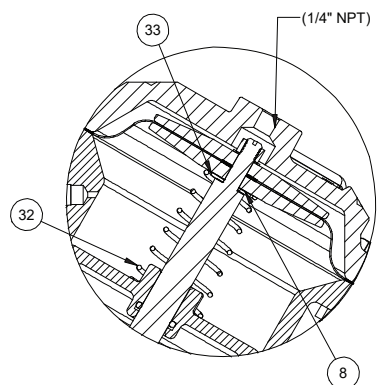
1073151 (V42K-3010-00000)  
LIMIT STOP



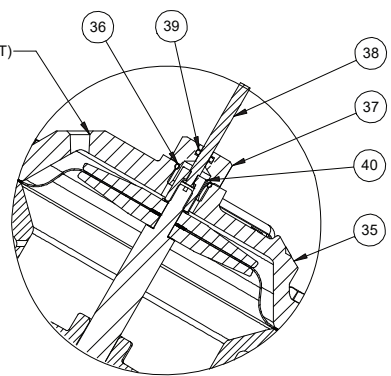
1073148 (V42K-3002-00000)  
SPRING ASSIST CLOSED



1073158 (V42K-3030-00000)  
NORMALLY CLOSED



1073146 (V42K-3001-00000)  
SPRING ASSIST OPEN



1073156 (V42K-3021-00000)  
POSITION INDICATOR

ITEM NO.	DESCRIPTION	STD	PART NUMBER	QTY.
LIMIT STOP MODEL				
20	SCREW, 5/8-18X3.50 HEX HD,	*	1072365	1
21	O-RING, 2-112, NITRILE	*	1071690	1
22	NUT, LIMIT STOP	*	1074434	1
23	CAP, 428, LS, NPT, CI	*	1074542	1
NORMALLY CLOSED MODEL				
24	MALE PIPE PLUGS, PLATED STEEL	*	1071918	1
	MALE PIPE PLUGS, BRASS		1071904	1
25	SHAFT, 428 NORMALLY CLOSED	*	1074582	1
SPRING ASSIST CLOSED MODEL				
26	WASHER, CENTERING		1074530	1
27	NUT, SPRG RTNR, 425 & 465, SS	*	1074433	1
28	MALE PIPE PLUGS, PLATED STEEL	*	1071903	1
	MALE PIPE PLUGS, BRASS		1071917	1
29	SPRING, COMPRESSION	*	1074607	1
30	O-RING, 2-025, NITRILE	*	1071677	1
31	CAP, 428, NPT, CI		1074540	1
SPRING ASSIST OPEN				
8	GASKET, CDA 110 COPPER	*	1073950	1
32	SPRING, COMPRESSION, 428, SAO	*	1074600	1
33	WASHER, BRASS		1074610	1
POSITION INDICATOR MODEL				
35	CAP, 428, CI, NPT, PI		1074549	1
36	O-RING, 2-116, NITRILE		1071692	1
37	PI ROD GDE, V42, BRASS		1074121	1
38	SHAFT, 428, SS, MACH		1074593	1
39	O-RING, 2-106, NITRILE, TFLN CTD		1071688	1
40	NUT, TOP, 428, PI		1074608	1

TORQUE TABLE		
ITEM #	DESCRIPTION	TORQUED TO (+/- 10%)
22	NUT, LIMIT STOP	140 IN/LBS
27	NUT, SPRG RETAINER	140 IN/LBS
37	PI ROD GUIDE	140 IN/LBS
40	NUT, TOP, 428, PI	140 IN/LBS

- NOTE:
1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMITED STOP OR POSITION INDICATOR MODELS.
  2. VALVES AVAILABLE WITH B.S.P. END CONNECTIONS.

SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL

REPAIR PARTS KITS	
DESCRIPTION	PART NO.
INT. PARTS KIT (LIMITED STOP) CONSISTS OF STANDARD ITEM NO'S 20, 21, 22,	1074583 (428-LS)
INT. PARTS KIT (NORM. CLOSED) CONSISTS OF STANDARD ITEM NO'S 4, 7, 10, 11(2), 18, 25	1070134 (428-RG)
INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 28, 29, 30	1074602 (428-SC)
INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 8, 32, 33	1074604 (428-SO)
INT. PARTS KIT (POSITION INDICATOR) CONSISTS OF STANDARD ITEM NO'S 35 THRU 39	1074591 (428-PI)

CONVERSION KITS	
DESCRIPTION	PART NO.
CONVERSION KIT (LIMITED STOP) CONSISTS OF STANDARD ITEM NO'S 20, 21, 22, 23	1074584 (428-LSC)
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 26 THRU 31	1074603 (428-SCC)
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 8, 32, 33	1074606 (428-SOC)
CONVERSION KIT (POSITION INDICATOR) CONSISTS OF STANDARD ITEM NO'S 34 THRU 39	1074592 (428-PIC)

THROUGHT PROJECTION 	APPROVALS	DATE		
	DRAWN	SM		05/11
	APPROVED			
	CHECKED			
DO NOT SCALE DRAWING DIMS. ARE IN INCHES (mm) INTERPRET DIMS AND TOLERANCES PER ASME Y14.5M - 2009 UNLESS OTHERWISE SPECIFIED:			TITLE <b>CATALOG SHEET, 428 DIAPHRAGM VALVE STANDARD MODEL</b>	
TOLERANCES: ANGLES: ± 1° 1 PLACE .X ± 0.15 (0.38) 2 PLACE .XX ± 0.1 (0.25) 3 PLACE .XXX ± 0.05 (0.13)		SIZE <b>C</b>	DWG NO. <b>1077618</b>	
		SCALE	REV <b>M</b>	
		1:4	SHEET 2 OF 2	