















Click on the desired page below to view the catalog drawing in a PDF format. You can return to this index by navigating with the back arrow.

Valves Metal

Description	Series	Drawing Number
AQUAMATIC PRODUCTS OVERVIEW		
DIAPHRAGM VALVE CONFIGURATIONS	V420	1078117
¾" & 1" DIAPHRAGM VALVES	V421	1084018
1-1/4" & 1-1/2" DIAPHRAGM VALVES	V424	1084019
2" DIAPHRAGM VALVES	V425	1084020
2" & 2-1/2" DIAPHRAGM VALVES	V426	1084021
3" DIAPHRAGM VALVES	V427	1084022
4" DIAPHRAGM VALVES	V428	1084023
6" DIAPHRAGM VALVES	V429	1084024
¾" & 1" HIGH PRESSURE VALVES	V821	1084035
1-1/2" HIGH PRESSURE VALVES	V824	1084036
2" & 2-1/2" HIGH PRESSURE VALVES	V826	1084037
3" HIGH PRESSURE VALVE	V827	1084038
¾" & 1" AIR VALVES	VAV1	1084039
1-1/4" & 1-1/2" AIR VALVES	VAV4	1084040
2" AIR VALVES	VAV5	1084041
2" & 2-1/2" AIR VALVES	VAV6	1084042
3" AIR VALVES	VAV7	1084043
4" AIR VALVES	VAV8	1084044
¾" & 1" ISOLATED BONNET VALVES	V4421	1084025
1-1/4" & 1-1/2" ISOLATED BONNET VALVE	V4424	1084026
2" & 2-1/2" ISOLATED BONNET VALVES	V4426	1084028
3" ISOLATED BONNET VALVES	V4427	1084029
4" ISOLATED BONNET VALVES	V4428	1084030
SOLENOID OPERATED VALVES	V420	1078114
FLOAT OPERATED VALVES	V420	1078191
FLOAT OPERATED LEVEL CONTROL	348	1078194
1" STAINLESS STEEL VALVES	V461	1078634
1-1/2" STAINLESS STEEL VALVES	V464	TBD
2" STAINLESS STEEL VALVES	V465	1078668



Composite

Description	Series	Drawing Number
Beschption	UCIICS	Brawing Ramber
DIAPHRAGM VALVE CONFIGURATIONS	K52	1078147
END CONNECTOR PARTS	K520,K521,K524	1078140
END CONNECTOR PARTS	K524,K526	1078150
1/2" DIAPHRAGM VALVES	K520	1084001
1" DIAPHRAGM VALVES	K521	1084003
1-1/2" DIAPHRAGM VALVES	K524	1084004
2-1/2" DIAPHRAGM VALVES	K526	1084005
¹ ⁄ ₂ " ISOLATED BONNET VALVES	K5520	1084013
1" ISOLATED BONNET VALVES	K5521	1084014
1-1/2" ISOLATED BONNET VALVES	K5524	1084015
SOLENOID OPERATED VALVES	K52	1078160
1" DIAPHRAGM VALVES	K531	1084007
1-1/2" DIAPHRAGM VALVES	K534	1084009
2" DIAPHRAGM VALVES	K535	1084010
3" DIAPHRAGM VALVES	K537	1084012
1" FAILSAFE CLOSED VALVES	K531	1084008
1-1/2" FAILSAFE CLOSED VALVES	K534	1084008
2" FAILSAFE CLOSED VALVES	K535	1084011
3" FAILSAFE CLOSED VALVES	K537	1084011
SOLENOID OPERATED VALVES	K530	1078170

Stager Valves

STAGER MODEL NUMBER SELECTION	ALL	1078031
SERIES 48 STAGERS	48	1077882
SERIES 51 STAGERS	51	1077770
SERIES 58 & 59 STAGERS	58 & 59	1077898
SERIES 96 STAGERS	96	1078010

Stager Controls

ELECTROMECHANICAL TIMERS SERIES 962 STAGER CONTROLLER A100, A200 E9



Suggested Piping Arrangements

		_
Description	Stager	Drawing
	Program	Number
4 POSITION SOFTENER	48-00	1078271
3 POSITION FILTER	48-01	1078272
2 POSITION FILTER	48-04	1078273
4 POSITION SOFTENER (COUNTER CURRENT REGENERATION)	48-12	1078274
4 POSITION FILTER W/ AIR SCOUR	48-12	1078275
3 TANK SEQUENTIAL FILTER (BACKWASH ONLY)	48-83	1078276
4 TANK SEQUENTIAL FILTER (BACKWASH ONLY)	48-84	1078277
5 TANK SEQUENTIAL FILTER (BACKWASH ONLY)	48-85	1078278
6 POSITION SOFTENER W/ TIMED BRINE & REFILL	51-06	1078279
5 POSITION SOFTENER W/ TIMED BRINE DRAW	51-07	1078280
5 POSITION SOFTENER W/ TIMED BRINE REFILL	51-09	1078281
2 TANK SEQUENTIAL FILTER	51-10	1078282
2 TANK SEQUENTIAL FILTER, SEPARATE SOURCE BW & RINSE	51-10	1078283
2 TANK SEQUENTIAL FILTER W/ SEPARATE SOURCE BW	51-10	1078284
SINGLE TANK SOFTENER W/ BRINE RECLAIM	51-12	1078285
6 TANK SEQUENTIAL FILTER (BACKWASH ONLY)	51-86	1078286
7 TANK SEQUENTIAL FILTER (BACKWASH ONLY)	51-87	1078287
3 TANK SEQUENTIAL FILTER	58-03	1078288
4 TANK SEQUENTIAL FILTER	58-04	1078289
2 BED DEIONIZER SYSTEM	58-00	1078290
2 BED DEIONIZER W/ DEGASIFIER	58-02	1078291
MIXED BED DEIONIZER	58-10	1078292
2 UNIT ALTERNATING SOFTENER	58-TA	1078293
2 UNIT ALTERNATING SOFTENER W/ TIMED BRINE	58-TB	1078294

AquaMatic[®] Products Valves, Stagers and Controllers





<u>Osmonics</u>



Osmonics is a diversified manufacturer

of high technology equipment, controls and components that purify water, concentrate wastes, and enable clean water to be recycled or discharged back into the environment.

Osmonics is an industry leader

offering AquaMatic brand specialty valves and controllers for fluid handling. AquaMatic offers stagers and controllers to automate valve operation for a variety of commercial and industrial applications.

As with all members of the Osmonics family,

AquaMatic brand products have a reputation for value, durability, ease of maintenance, full product support and low life-cycle costs.

Versatility

AquaMatic valves have earned worldwide recognition

for their high quality and value in the water treatment market. Value includes low initial purchase price and lower cost of operation during the life of the product when compared with our competitors. Our valves are simple to maintain, and easily serviced by your maintenance staff.

AquaMatic products have proven to be effective

in a vast array of diverse applications. One of our largest markets is heatless regenerative air dryers where we are one of the preferred suppliers in this specialized industry. The AquaMatic valve controls air flow with one cycle every ten minutes. Other applications where AquaMatic valves can provide reliable service and low life-cycle costs include:



- Conveying Equipment
- Sand Blasting Equipment
- Desalination Systems
- Car Wash Systems
- Milling Machines and Lathes
- Cooling Tower Float Valves
- Plastic Molding Machinery
- Laundry Equipment
- Sludge Removal Systems
- Bulk Solids Transfer Equipment

AquaMatic valves are available in a wide range of sizes

from three-quarters of an inch to six inches, and are offered in metal or composite materials. These valves share characteristics of excellent flow rates at low pressure drops. Discover the technical benefits of AquaMatic products on your application.







Commitment to Technical Support



Our engineers are committed

to providing technical support whenever needed. We draw on decades of experience to appropriately size AquaMatic valves and related components for both new installations and renovations.

Our deep-rooted commitment to customer satisfaction

has resulted in numerous long-term relationships. We take pride in helping our customers succeed as their operations expand and diversify. We are continuously improving quality systems and procedures to ensure that AquaMatic valves and controllers are manufactured to the highest of quality standards.



Completely Matched Systems



Behind every AquaMatic valve is a variety of complementary products such as stagers and controllers, which we will match to the precise requirements of your system. Stagers direct the opening and closing of each valve, whereas controllers set the stagers into action. These devices automatically control the valves in a process system. And because they're designed as an integrated system, they take the guesswork out of running your operation efficiently.

The bottom line is that AquaMatic is a brand you can trust

from system startup right through to ongoing product support. It's all part of the Osmonics heritage of providing strong partnerships with our customers. Because we take the time to understand our customers, we are becoming the preferred single source for water purification, fluid handling, filtration and separation products. It's that simple – no matter how complex your operation is.







K52 Series

The AquaMatic K52 Series valve provides the time proven advantages of the "Y" pattern design for pipe sizes from one-half inch to three inches. The body and cap are molded in strong, glass-filled Noryl* and the diaphragm is made of durable Buna N or Viton** materials. Various pipe end connections are available for your system design. Other AquaMatic valve options include spring-assist open, spring-assist close, flow control limit stop, poppet position indicator, Viton** seals, butyl seals, normally closed, and fail-safe spring closed products.

Pipe Size Inches	Pipe Size Millimeter, DN	Valve Model	Cv (1)	Cv (2)
1/2	15	K520	4.0	3.5
1	25	K521	15.0	13.0
1-1/2 – 2	40-50	K524	38.0	32.8
2-1/2 – 3	65-80	K526	100.0	86.5





K53 Series

The AquaMatic K53 Series valve is designed for controlling the flow of most fluids including deionized water, salt solutions, and corrosive fluids such as acids and caustics. The rugged construction employs strong corrosion-resistant glass-filled Noryl* components. The "Y" pattern design permits high flow with low pressure drop. Separate flow and control chambers provide positive closing without springs. Dual "O" ring design on the shaft prevents leakage between the flow and control chambers and the cap is easily removed for maintenance purposes. True union end design with female socket weld connections provide easy installation and servicing.

Pipe Size Inches	Pipe Size Millimeter, DN	Valve Model	Cv (1)	Cv (2)
1	25	K531	18.0	15.6
1-1/2	40	K534	48.0	41.5
2	50	K535	84.0	73.5
3	80	K537	200.0	173.0



(1) Flowrate in gallons per minute of water at 60°F, 1 psi pressure drop.

(2) Flowrate in cubic meters per hour of water at 15.5°C, 1 bar pressure drop.

*Noryl® is a registered trademark of General Electric Company.

**Viton® is a registered trademark of E.I. du Pont de Nemours and Company.

Note: For technical information, see the AquaMatic technical catalog.





V42 Series

The AquaMatic V42 Series valves are constructed of cast iron and are designed for air and water applications. A separate control chamber protects the diaphragm from line fluid and extends cycle life. Reinforced diaphragm of Buna N or Viton** materials are pre-formed and stress relieved to maximize responsiveness and product life. The valve is highly serviceable even while in line. A variety of options are available such as spring-assist open, springassist closed, flow control limit stop, normally closed, poppet position indicator, and high temperature EP or Viton** seals.



Pipe Size Inches	Pipe Size Millimeter	End Connectors (Female Thread)	Valve Model	Cv (1)	Cv (2)
3/4	20	NPT, BSP, JIS	V42B	11.5	10.0
1	25	NPT, BSP, JIS	V42C	13.0	11.2
1-1/4	32	NPT, BSP, JIS	V42D	26.5	22.9
1-1/2	40	NPT, BSP, JIS	V42E	32.5	28.1
2	50	NPT, BSP, JIS	V42F	56.0	48.4
2	50	NPT, BSP, JIS	V42G	68.0	58.8
2-1/2	65	NPT, BSP, JIS	V42H	84.0	72.7
3	80	NPT, BSP, JIS	V42J	135.0	117.0
3	80	Flanged	V42J	135.0	117.0
4	100	Flanged	V42K	275.0	238.0
6	150	Flanged	V42L	680.0	588.0



V82 Series – High Pressure

The AquaMatic V82 Series valves are constructed of brass and are identical in operation to the V42 Series. Body and cap are brass, and components are designed to withstand up to 250 psi (17 Bar).



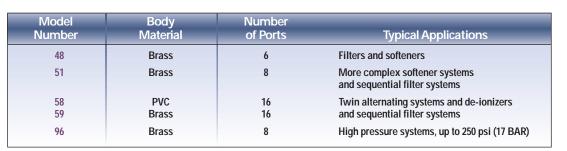
Pipe Size Inches	Pipe Size Millimeter	End Connectors (Female Thread)	Valve Model	Cv (1)	Cv (2)
3/4	20	NPT, BSP, JIS	V82B	11.5	10.0
1	25	NPT, BSP, JIS	V82C	13.0	11.2
1-1/4	32	NPT, BSP, JIS	V82D	26.5	22.9
1-1/2	40	NPT, BSP, JIS	V82E	32.5	28.1
2	50	NPT, BSP, JIS	V82G	68.0	58.8
2-1/2	65	NPT, BSP, JIS	V82H	84.0	72.7
3	80	NPT, BSP, JIS	V82J	135.0	117.0

<u>Stager Valves</u>



AquaMatic Stagers

AquaMatic Stagers are rotary pilot valves with multiple ports for directing fluid flows to operate various diaphragm valves installed in a process system. AquaMatic stager internal parts are constructed of durable, non-corroding, self-lubricating material for long, maintenance-free life.



Electronic Stager Controls

AquaMatic 962 Stager Controls

AquaMatic 962 Stager Controls combine an AquaMatic stager with an Autotrol[®] 962 Series electronic control, mounted and prewired in a NEMA-rated enclosure.

The Series 962 electronic controls provide sophisticated, demand-based water conditioning by combining a microprocessor with a flow meter to electronically monitor the amount of water used. Time-based and/or external signal initiation is also available as a standard feature. This fully programmable series of controls provide the ability to fine-tune the operation to meet the application requirements.



Applications

Controls	Model Number	Description
Single Unit Controls		
Typical Softeners and Filters	E948*	962 Control w/model 48, 6-port stager
More Complex Softeners and Filters	E951*	962 Control w/model 51, 8-port stager
Multiple Unit Controls		
Twin-Alternating Softeners and Filters (w/Timed Brine Switch Output)	E958-TB	962 Control w/model 58-TB, 16-port stager
Twin-Alternating Softeners	E958-TA	962 Control w/model 58-TA, 16-port stager
Sequential Filters (Backwash Only)	E948	962 Control w/model 48, 6-port stager
2 Unit Sequential Filters (Backwash & Rinse)	E951	962 control w/model 51, 8-port stager
3 or 4 Unit Sequential Filters	E958	962 Control w/model 58, 16-port stager

* Two-tank and three-tank parallel systems can be controlled by individual controls provided with lockout feature. Lockout feature is void when using the added relay output option.

Stager Controls



These controls combine an AquaMatic stager with a reliable Autotrol[®] timer, mounted and prewired in a NEMA-rated enclosure. Stagers are initiated by timeclock or impulse controls. The cycle times are programmable to accommodate a wide range of applications.

Base Model	Initiation	Filters/Softener Systems	Multi-Tank Systems	High Pressure Systems
A100	Time	A148, A151	A158	A196
A200	Impulse	A248, A251	A258	A296

Fluid Handling

Ejectors

540 Series

540 Series PVC ejectors are available in onehalf-inch through two-inch sizes with female NPT threads or female socket ends for US pipe. Specific applications are brine draw, acid draw, or caustic draw. This economical ejector is engineered to draw two parts of regenerant fluid for each three parts of water.



Pipe Size Inches	Model Number
1/2	540
3/4	541
1	542
1-1/2	544
2	546



Flow Cell Flowmeters

AquaMatic Flow Cell Flowmeters

AquaMatic Flow Cell Flowmeters are direct-reading devices which take advantage of the dominant features of the orifice and area type flowmeters. These flow meters are accurate to ±2% of full scale in a compact design requiring less than six inches of piping. The AquaMatic Flow Cell Flowmeter is available for 3/8-inch to 20-inch diameter pipes and can be installed to accommodate flow in any direction. Connections are available for NPT, BSP and flanged end connectors. The Flow Cell Flowmeter is constructed in ductile cast iron with nickel plated brass, 316 stainless steel, or PVC.





Commitment to Product Improvement

Our sales force and distributors are constantly taking the pulse of our customers to make sure AquaMatic products keep pace with changing requirements. We're open to new ideas for fine-tuning existing products or developing brand new ones.

An example of our commitment to product improvement is our K53 Series valve which builds on the K52 Series platform. The K53 Series valve line provides higher flow rates and lower pressure drops. We have an improved poppet and diaphragm design with increased shaft travel. The K53 provides for easy serviceability with a screw on cap and built-in footstand.

Commitment to Partnerships with Customers

No two customers are alike. That means "standard" or "off the shelf" does not apply to the needs of everyone. In these situations, our engineers work closely with our customers to develop customized solutions to their specific application. The result is a unique combination of valves and related components that will provide years of reliable, trouble-free service.

One example of our commitment to partnerships with our customers can be found in the irrigation market. Based on the cost-reduction needs of a long-time Osmonics customer, we created a valve especially for irrigation applications.





Call (815) 964-9421 for additional information, (800) 245-9421 in the U.S., or visit www.osmonics.com



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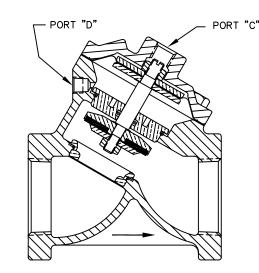
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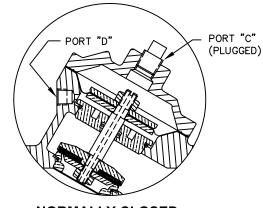
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NORMALLY OPEN

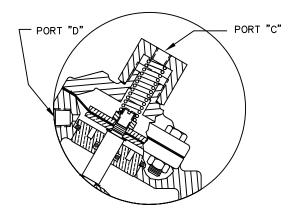
LINE PRESSURE/FLOW AGAINST THE VALVE SEATING DISC WILL OPEN THE VALVE. CONTROL PRESSURE APPLIED TO THE TOP OF THE DIAPHRAGM (PORT "C") WILL CLOSE THE VALVE.



NORMALLY CLOSED

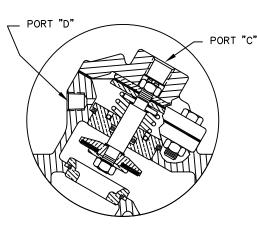
LINE PRESSURE AGAINST THE DISC, TRANSFERRED THRU THE VALVE'S HOLLOW SHAFT TO THE TOP OF THE DIAPHRAGM, WILL CLOSE THE VALVE. CONTROL PRESSURE AT PORT "D" WILL OPEN THE VALVE. ADDITION OF "SPRING ASSIST CLOSED" FEATURE IS RECOMMENDED FOR THE FOLLOWING CONDITIONS: 1. LOW PRESSURE AND/OR FLOW. 2. VALVE DISCHARGES TO ATMOSPHERE.

NORMALLY CLOSED FEATURE NOT RECOMMENDED FOR LINE MEDIA CONTAINING SOLIDS, HIGH TEMPERATURES OR OTHER MEDIA CONDITIONS WHICH MAY DAMAGE THE DIAPHRAGM.



SPRING ASSIST CLOSED

SPRING SERVES AS AN ASSIST TO ASSURE FULL VALVE CLOSURE IN THE ABSENCE OF LINE AND CONTROL PRESSURES.



SPRING ASSIST OPEN

SPRING SERVES AS AN ASSIST TO	0		
ASSURE FULL VALVE OPENING IN			
THE ABSENCE OF LINE AND			
CONTROL PRESSURES.			
	FORM	NO.	1078116

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REV

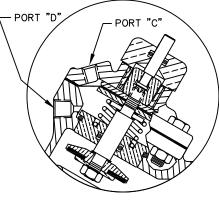
INITIAL RELEASE

DESCRIPTION

PORT "D" PORT "C"

LIMIT STOP

INCLUDES AN ADJUSTMENT SCREW WHICH LIMITS THE VALVE STROKE. MAY BE USED TO CONTROL FLOW RATE, HOWEVER, FLOW RATE WILL VARY WITH CHANGES IN PRESSURE.



POSITION INDICATOR

INDICATOR ROD IS ATTACHED TO MAIN VALVE STEM TO SHOW POSITION OF VALVE. ONLY AVAILABLE WITH SPRING ASSIST OPEN OPTION.

DATE

JWB

1429 JWB 21JUN01 VKP SCALE DRAWN

N/A

ECO DWN DATE APVD



25APR01

DWG. NO.

1078117

						DIAPHRAGM			FLOW		PRESSU	RE DROP	
SERIES	PIPE	SEAT DIAMETER	SEAT AREA	DIAPHRAGM AREA	TOTAL STROKE	CHAMBER	* Cv	** Kv	@ 10 FT./SEC. (3 M./SEC.) NOTE 1	@ 20 FT./SEC. (6 M./SEC.) NOTE 2	@ 10 FT./SEC. (3 M./SEC.) NOTE 1	@ 20 FT./SEC. (6 M./SEC.) NOTE 2	
		<u>IN.</u> CM.	SQ. IN. SQ. CM.	SQ. IN. SQ. CM.	IN. CM.	CUBIC IN. CUBIC CM.			GAL./MIN. CU.M/HR	GAL./MIN. CU.M/HR	P.S.I. bar	P.S.I. bar	
V42B	3/4"	<u>0.97</u> 2.5	0.74	<u>2.10</u> 13.0	0.47	<u>2.06</u> 33.8	11.4	9.8	<u>23</u> 5	<u>46</u> 10	<u>4.1</u> 0.3	<u> 16.3 </u> 1.12	
V42C	1"	<u>0.97</u> 2.5	<u>0.74</u> 4.8	<u>2.10</u> 13.0	0.47	<u>2.06</u> 33.8	12.8	11.0	<u>23</u> 5	<u>46</u> 10	<u> </u>	<u> 13.0 </u> 0.9	
V42D	1 1/4"	<u>1.34</u> <u>3.4</u>	<u>1.41</u> 9.1	<u>6.49</u> 41.9	<u>0.61</u> 1.5	<u>5.20</u> 85.2	26.5	23	<u>44</u> 10	<u>- 88</u> 20	2.8	<u>11.0</u> 0.7	
V42E	1 1/2"	<u>1.34</u> <u>3.4</u>	<u> 1.41 </u> 9.1	<u>6.49</u> 41.9	<u>0.61</u> 1.5	<u>5.20</u> 85.2	32.5	28	<u>44</u> 10	<u>- 88</u> 20	<u> </u>	<u>7.3</u> 0.5	
V42F	2" (425)	<u>2.02</u> 5.1	3.20	<u>11.04</u> 71.2	0.70	<u>10.50</u> 172.1	56	48	<u>100</u> 23	<u>200</u> 46	<u> </u>	<u> 12.7 </u> 0.87	
V42G	2" (426)	<u>2.31</u> 5.9	4.19 27.0	<u>15.03</u> 97.0	0.99	<u>16.34</u> 267.8	68	59	<u>130</u> 29	<u>260</u> 58	<u> </u>	<u> 14.7 </u> 1.01	
V42H	2 1/2"	<u>2.31</u> 5.9	<u>4.19</u> 27.0	<u>15.03</u> 97.0	0.99 2.5	<u>16.34</u> 267.8	84	72	<u>130</u> 29	<u>260</u> 58	<u>2.4</u> 0.16	<u>9.7</u> 0.67	
V42J	3"	<u>2.96</u> 7.5	<u>6.88</u> 44.4	<u>22.69</u> 146.4	<u>1.05</u> 2.7	<u>32.80</u> 537.6	134	116	<u>214</u> 49	<u>428</u> 98	<u>2.6</u> 0.18	<u> </u>	
V42K	4"	<u>3.84</u> 9.7	<u>11.58</u> 74.7	<u>33.82</u> 218.2	<u>1.92</u> 4.9	78.83 1292.0	275	238	<u> </u>	<u>720</u> 166	<u> </u>	<u>6.9</u> 0.47	
V42L	6"	<u>6.06</u> 15.4	28.84 186.1	<u>120.28</u> 776.0	<u>1.70</u> 4.3	<u>296.52</u> 4860.0	680	588	<u>899</u> 204	<u>1798</u> 408	<u> </u>	<u>7.0</u> 0.5	

METAL DIAPHRAGM VALVES (421 THRU 429)

TO DETERMINE FLOWRATE AT ANY GIVEN PRESSURE DROP, THE FOLLOWING FORMULAS CAN BE USED.

FOR WATER AND LIQUIDS:FOR AIR AND GAS:WHEN P2 < .5P1</td>WHEN P2 > .5P1Q = $\frac{Cv \sqrt{\Delta P}}{\sqrt{e}}$ Cr $\frac{CFM \sqrt{e}}{.5P1}$ Cr $\frac{CFM \sqrt{e}}{\sqrt{\Delta P P2}}$ Q = $\frac{Cv \sqrt{\Delta P}}{\sqrt{e}}$ CFM \sqrt{e} CFM \sqrt{e} Q = FLOWRATE IN GAL./MIN. ΔP = PRESSURE DROP (LB./SQ. IN.)e - SPECIFIC GRAVITY (WATER = 1.00)P2 - OUTLET PRESSURE (LB./SQ. IN.)P2 - OUTLET PRESSURE (LB./SQ. IN.)

Cv – FLOWRATE (GAL./MIN.) OF WATER AT 60° F. AT 1 P.S.I. PRESSURE DROP

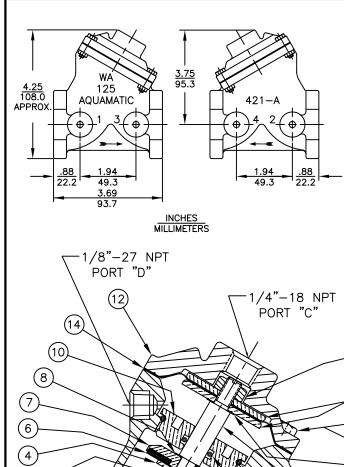
** Kv – FLOWRATE (CU. M./HR) OF WATER AT 15.5 C. AT 1 BAR PRESSURE DROP

- NOTE 1: MAXIMUM CONTINUOUS VELOCITY THROUGH THE VALVE.
- NOTE 2: MAXIMUM CONTINUOUS VELOCITY. EXTENDED SERVICE AT THIS VELOCITY MAY CAUSE CAVITATION.

THE DATA PRESENTED HERE IS BELIEVED TO BE RELIABLE AND OFFERED AS SUGGESTION ONLY. ACTUAL RESULTS MAY VARY DEPENDING UPON APPLICATION.

Q – FLOWRATE IN GAL./MIN. ΔP – PRESSURE DROP (LB./SQ. IN.) e – SPECIFIC GRAVITY (WATER = 1.00)	e – SPECIFIC GRAVITY (AIR = 1.1 P1 – INLET PRESSURE (LB./SQ. 1 P2 – OUTLET PRESSURE (LB./SQ		24 24	OSMONIC ROCKFORD OPERATIONS 412 GRANT AVENUE, ROCKF		(815) 964-9421			
				420 DIAPHRA	AGM VALV	'ES			
	В	INITIAL RELEASE	1429 JWE	B 21JUN01 VK	P SCALE			DWG. NO.	
	REV	V DESCRIPTION	ECO DW	N DATE AP	′ <u>ס</u> N∕A	JWB	25APR01		1078117

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			1	N						
REPAIR PARTS KITS										
	DESCRIPTION	PART NO.		1						
	DIAPHRAGM & SEALS KIT	1070068 (421-RA) 1070081 (421-RAE) 1070093 (421-RAV)								
	CONSISTS OF ITEM NO'S 3(2),5,6,8(2),9,14,16	BUNA N E.P.D.M. FKM INCLUDES INCLUDES INCLUDES DIAPHRAGM DIAPHRAGM DIAPHRAGM 1074119 (421-FB) 1074119 (421-FF)		2						
	INT. PARTS KIT (NORM. OPEN) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),17	1070118 (421-RF)								
	SEAT (ITEM NO. 2)	1074158 (421-MO)		5						

ASSEMBLY TOOLS								
DESCRIPTION	PART NO.							
FOR INSTALLATION & REMOVAL OF SEAT (ITEM #2) (TOOL NOT SHOWN)	1074161 (421-MT)							
FOR INSTALLATION & REMOVAL OF SHAFT GUIDE (ITEM #10) (TOOL NOT SHOWN)	1074124 (421–GT)							

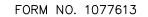
NOTE:

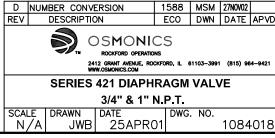
1. AMERICAN NATIONAL STANDARD TAPER PIPE THREADS (NPT) PER ANSI B2.1-1968

2. VALVES AVAILABLE WITH B.S.P. OR J.I.S. END CONNECTIONS.

NO.		DESCR	IPTI	ON	STD	PART NO.	QTY.	
				3/4" NPT	*	1074085 (421-A3)		
		CAST IR	ON	1" NPT	*	1074088 (421-A4)		
1	BODY			3/4" NPT		1074077 (421-AB3)	1	
		CAST BR	ASS	1" NPT		1074080 (421-AB4)		
	SEAT			BRASS	*	1074158 (421-MO)		
2	(REQ'S	S ASSY TO	OL)	STN. STL.		1074160 (421-MS)	1	
3	HEX L	OCK NUT	· (·	1/4-28)	*	1071650 (NUS-0010)	2	
				BRASS	*	1074147 (421-K)		
4	DISC	PLAIE		STN. STL.		1074149 (421-KS)	1	
				BUNA N	*	1071676 (ORB-024)		
5	0-RIN	IG	F	E.P.D.M.		1071721 (ORE-024)	1	
			F	FKM		1071791 (ORV-024)		
				BUNA	*	1074140 (421-J)		
	DISC		Г	E.P.D.M.		1074143 (421-JE)	4	
6	DISC		Г	FKM		1074146 (421-JV)	1	
			Г	HYCAR		1074144 (421-JH)		
7		HOLDER		BRASS	*	1074126 (421-H)	1	
'		HULDER		STN. STL.		1074128 (421-HS)		
8		т		COPPER	*	1073948 (200-GG)	2	
l °	GASKET			LEAD		1073949 (200-GGL)	2	
				BUNA N	*	1071693 (ORB-125)		
9	0-RIN	IG		E.P.D.M.		1071732 (ORE-125)	ต์	
				FKM		1071803 (ORV-125)		
10		t guide		BRASS	*	1074122 (421-GGO)	1	
10	(REQ'S	S ASSY TO	OL)	STN. STL.		1074123 (421-GGS)		
11		RAGM PLA		BRASS	*	1074117 (421-D)	2	
				STN. STL.		1074118 (421-DS)	2	
10	045		CA	ST IRON	*	1074093 (421-C)		
12	CAP		CAS	ST BRASS		1074096 (421-CB)	1	
13	HEX S	CREW	PLA	TED STEEL	*	1072398 (SCZ-0004)	4	
<u> </u>			S	TN. STL.		1080720 (SCS-0142)	-	
14		RACM		BUNA N	*	1074119	1	
<u> </u>				FKM		1074120	'	
15	нех м	лл		TED STEEL	*	1071656 (NUZ-0008)	4	
Ľ			S	STN. STL.		1071649 (NUS-0007)	т	
			L	BUNA N	*	1071689 (ORB-110TC)		
16	0-RIN	IG	L	E.P.D.M.		1071726 (ORE-110TC)	1	
				FKM		1071798 (ORV-110)		
17	SHAFT	(NORMA	LLY	OPEN)	*	1074150 (421-L)	1	
		SEE R	EVE	ERSE SI	DE	FOR		

SEE REVERSE SIDE FUR CONFIGURATION OPTIONS





3 11 13 15 8 (17) 9 (16) 1070001 (V42B-0000-00000) (3/4" NPT) 1070011 (V42C-0000-00000) (1" NPT) NORMALLY OPEN (STANDARD)

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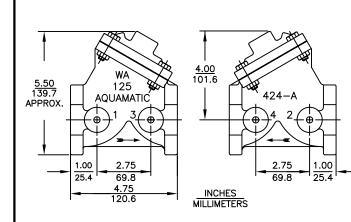
(3)

(5)

(2)

1

							NO.	DESCRIPT	10N (S	STD	PART N	0. QTY.
CLOSED	TH NORMALLY VALVES ONLY	<u> </u>		(1/8"NPT) — \	CLOSED WITH NO			LIM	T STOP M	DDEL		
∖ (1∕8" NF	(TY			7			18 SC	REW		* 107236	1 (SCS-0	030) 1
\backslash	(18)	22					19 0-				8 (ORB-	
				$\langle 25 \rangle$			20 HE	X NUT			34 (400	
× (26			\backslash	/ (24)] /	$\sqrt{2}$		21 CA		AST IRON)1 (421– 4 (421–C	
10_					(27)	\backslash			LY CLOSE		<u>,</u>	
AF	20 /							·			L 8 (PLZ-0	0001
M								PIPE PLUG	BRASS		<u>8 (PLZ-0</u> 4 (PLB-0	
HULL So	(21)						122 (1	/4" N.P.T.) -	STN. STL.		5 (PLS-0	
							23 S⊦	IAFT (NORMALLY	CLOSED)	* 10741	53 (421·	_LL) 1
WIIMD			ΞI			/		SPRING AS	SSIST CLO	SED MOD	DEL	
			M			/	24 CE	NTERING NUT		* 10741		
\sum			У				25 RE	TAINER NUT	BRASS		83 (421	
							$\left \right $		STN. STL.		<u>34 (421–</u> 7 (PLZ–C	
4								PIPE PLUG 🔶	BRASS		3 (PLB-0	
									STN. STL.	107191	6 (PLS-C	0002)
	(V42B-0010-00000) (3/4" NPT)	1070002 (V42B-0030-00000) (3/4" NP		1070003 (V42B-00	02–00000) (3/4" NPT) 02–00000) (1" NPT)		27 SF				30 (421-	
	(V42C-0010-00000) (1" NPT)	1070012 (V42C-0030-00000) (1" NP	•				28 0-				'4 (ORB-	
	LIMIT STOP	NORMALLY CLOSED		SPRING AS	SIST CLOSED	2	29 CA		AST IRON		99 (421-)0 (421-	
	(1/4" NPT) (1/8" NPT)	- 34 (35)									•	<u></u>
	(1/8" NPT)	X_{32}		Г			4 DI			* 10741		-к) ,
						4 01	SC PLATE	STN. STL.		49 (421-		
/4							8 GA	SKET	COPPER		<u>48 (200-</u>	
(31)			21	NOTE:			31 SF	PINC	LEAD		19 (200- 75 (421-	
				(37) 1. SPRING ASSIST CLOSED MODEL								<u></u>
}			CANNOT BE COMBINED WITH LIMIT STO		STOP				* 10741		-CF)	
N			C	OR POSITION IN	DICATOR MODELS.		32 CA		AST BRASS		0 (421-	
$\sqrt{1}$					ILABLE WITH B.S.P.	OR	33 0-				2 (ORB-	
				J.I.S. END CONN	ECTIONS.			AFT GUIDE BUS	HING		21 (421-	
V V			/				36 0-	DICATOR SHAFT			64 (421- B (ORB-10	
								P NUT			32 (421-	
							38 LC	CKWASHER			9 (WAS-0	
1070004	(V42B-0001-00000) (3/4" NPT)	1077144 (V42B-0021-00000) (3/4" NPT)									
	(V42C-0001-00000) (1" NPT)	1072648 (V42C-0021-00000) (1" NPT)							ERSE SIE D NORMA			
SPRI	NG ASSIST OPEN	POSITION INDICATOR			PARTS KITS			STANDAR		ALLI OF		JDEL
<u>01 10</u>			_	DESCRIPTION	- 1	PARTN	10.					
]	CONVERSIO	N KITS		NT. PARTS KIT (LIMIT STO CONSISTS OF STANDARD I	0P) TEM NO'S 18.19.20	1074154 (42	21-LS)	F	FORM NO.			
	DESCRIPTION	PART NO.		NT. PARTS KIT (NORM. C				D NUMBER CO			MSM 27	
CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 18 THRU 211074155 (421-LSC)CONVERSION KIT (SPRING ASSIST CLOSED)1074177 (421-SCC)		1074155 (401 1 00)		CONSISTS OF STANDARD	LUSED)	1070129 (42			'IION	EC0	DWN D	ATE APVD
		THRU 21		TEM NO'S 4,7,10,11(2),2	3				OSMON	ICS		
				NT. PARTS KIT (SPRING A		1074176 (42	1-SC)	ROCKFORD OPERATIONS				
	CONSISTS OF STANDARD ITEM NO'S 24	THRU 29		CONSISTS OF STANDARD I	TEM NU 5 24,27,28				WWW.OSMONICS.COM			
	CONVERSION KIT (SPRING ASSIST OPEN			NT. PARTS KIT (SPRING A		1074178 (42	21-50)	SERIE	ES 421 DIAI		VALVE	
	CONSISTS OF STANDARD ITEM NO'S 4,8	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_	CONSISTS OF STANDARD I		· · ·	L			" N.P.T.		
	CONVERSION KIT (POSITION INDICATOR) CONSISTS OF STANDARD ITEM NO'S 32	THRU 38 1074163 (421-PIC)		NT. PARTS KIT (POSITION CONSISTS OF STD ITEM N		1074162 (42	21–PI)	SCALE DRAWN N/A JW			. NO. 1/	084018
	CONSISTS OF STANDARD TIEM NUS 32			UNSISTS OF STUTIEM N	03 33 INKU 30			<u>N/A</u> JW	IDI ZUAP	RUI	10	104010



					N									
	REPAIR PARTS KITS													
	DESCRIPTION		PART NO.											
	DIAPHRAGM & SEALS KIT CONSISTS OF ITEM NO'S 3,5,6,8,9,12,15,16,18	1070069 (424-RA)	1070082 (424-RAE)	1070094 (424-RAV)										
		INCLUDES DIAPHRAGM	E.P.D.M. INCLUDES DIAPHRAGM 1074222 (424-FB)	DIAPHRAGM										
	INT. PARTS KIT (NORM. OPEN) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),19	1070119 (424-RF)												
	SEAT (ITEM NO. 2)	1074245 (424-MO)												

ASSEMBLY TOOLS									
DESCRIPTION	PART NO.								
FOR INSTALLATION & REMOVAL OF SEAT (ITEM #2) (TOOL NOT SHOWN)	1074247 (424-MT)								
FOR INSTALLATION & REMOVAL OF SHAFT GUIDE (ITEM #10) (TOOL NOT SHOWN)	1074227 (424–GT)								

1. AMERICAN NATIONAL STANDARD TAPER PIPE

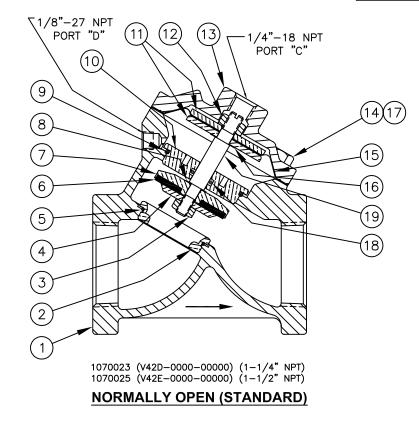
SEE REVERSE SIDE FOR

CONFIGURATION OPTIONS

THREADS (NPT) PER ANSI B2.1-1968 2. VALVES AVAILABLE WITH B.S.P. OR J.I.S.

NOTE:

END CONNECTIONS.



I BODY CAST IRON 1-1/4" NPT * 1074196 (424-A5) 1 BODY CAST BRASS 1-1/4" NPT 1074199 (424-A6) 2 SEAT (REQ'S ASSY TOOL) BRASS * 1074245 (424-M0) 3 HEX LOCK NUT (1/4-28) * 1074245 (424-M0) 4 DISC PLATE BRASS * 1074237 (424-K) 5 O-RING E.P.D.M. 107168 (0R9-028) 5 O-RING E.P.D.M. 1074233 (424-K) 6 DISC FKM 1074234 (424-J) 6 DISC FKM 1074233 (424-U) 7 DISC HOLDER BRASS * 8 GASKET E.P.D.M. 1074234 (424-J) 7 DISC HOLDER BRASS * 8 GASKET COPPER * 9 O-RING E.P.D.M. 1074234 (424-H) 7 DISC HOLDER BRASS * 8 GASKET EAD 1073948 (200-GGL) 9 <t< th=""><th>_</th><th>NO.</th><th></th><th>DESC</th><th>RIPTI</th><th>ON</th><th>STD</th><th>PART</th><th>NO.</th><th>QTY.</th></t<>	_	NO.		DESC	RIPTI	ON	STD	PART	NO.	QTY.	
1 BODY 1-1/2" NPT 10/4199 (424-A65) CAST BRASS 1-1/4" NPT 1074190 (424-A65) 2 SEAT BRASS * 1074245 (424-M65) 3 HEX LOCK NUT (1/4-28) * 1074245 (424-M65) 4 DISC PLATE BRASS * 1074237 (424-K5) 5 O-RING E.P.D.M. 107123 (424-K5) 6 DISC FKM 1074236 (424-K5) 7 DISC PLATE STN. STL. 1074236 (424-K5) 8 0RING E.P.D.M. 1071733 (0RP-028) 9 O-RING FKM 1074236 (424-J2) 6 DISC FKM 1074236 (424-J2) 7 DISC HOLDER BRASS * 1074236 (424-J2) 8 GASKET EAD 1074234 (424-H5) 7 DISC HOLDER BRASS * 1074223 (424-J2) 9 O-RING E.P.D.M. 1074234 (424-H5) 7 DISC HOLDER BRASS * 1074226 (424-H5) 8 GASKET IEAD 1073948 (200-G6) <td></td> <td></td> <td></td> <td>OLOT I</td> <td>DON</td> <td>1-1/4" NPT</td> <td>*</td> <td>1074196</td> <td>(424–A5)</td> <td></td>				OLOT I	DON	1-1/4" NPT	*	1074196	(424–A5)		
CAST BRASS 1-1/4' NPT 1074190 (424-A85) 2 SEAT BRASS * 1074248 (424-A86) 3 HEX LOCK NUT (1/4-28) * 1074248 (424-M0) 4 DISC PLATE BRASS * 1074248 (424-K0) 5 O-RING BUNA N * 1071630 (424-K5) 5 O-RING BUNA N * 1071733 (68-028) 6 DISC FKM 1074236 (424-J) 6 DISC E.P.D.M. 1071733 (642-J) 7 DISC HOLDER BRASS * 1074231 (424-J) 8 GASKET COPPER * 1074231 (424-J) 7 DISC HOLDER BRASS * 1074231 (424-J) 8 GASKET LEAD 1074231 (424-J) 9 O-RING FKM 1071631 (68-132) 9 O-RING BRASS * 1074201			DODY		RON	1-1/2" NPT	*	1074199 ((424–A6)		
ORST DIAGS 1-1/2" NPT 1074193 (424-A66) 2 SEAT (REQ'S ASSY TOOL) BRASS * 1074245 (424-M0) 3 HEX LOCK NUT (1/4-28) * 1074236 (424-K) 4 DISC PLATE BRASS * 1074237 (424-K) 5 O-RING E.P.D.M. 1071723 (0RE-028) 6 DISC FKM 1074236 (424-W) 6 DISC FKM 1071733 (0RV-028) 8 BUNA * 1074236 (424-JE) FKM 1074236 (424-JE) BASS 1074226 (424-JE) BUNA N * 1071895 (0RB-132) 9 O-RING E.P.D.M. 1071734 (0RE-132) 9 <td>)</td> <td></td> <td>BODI</td> <td>OACT D</td> <td></td> <td>1-1/4" NPT</td> <td></td> <td>1074190 (</td> <td>424-AB5)</td> <td>1</td>)		BODI	OACT D		1-1/4" NPT		1074190 (424-AB5)	1	
2 (REQ'S ASSY TOOL) STN. STL. 1074248 (424-M) 3 HEX LOCK NUT (1/4-28) * 1071650 (NUS-0010) 4 DISC PLATE BRASS * 1074237 (424-K) 5 O-RING BUNA N * 1071678 (0RB-028) 5 O-RING E.P.D.M. 1071733 (0RE-028) 6 DISC E.P.D.M. 1074234 (424-J) 6 DISC E.P.D.M. 1074233 (424-J) 7 DISC HOLDER BUNA * 1074232 (424-J) 8 GASKET 1074234 (424-H) 7 DISC HOLDER BRASS * 1074229 (424-H) 8 GASKET 1074234 (424-H) 7 DISC HOLDER BRASS * 1074229 (424-H) 8 GASKET 1073948 (200-GG) 9 O-RING E.P.D.M. 1071734 (0RE-132) 9 O-RING BUNA N * 1071695 (0RB-132) 9 O-RING BUNA N * 1071695 (0RD-132) 10 IAPHRAGM PLATE BRASS * 1074220 (424-D) 11 DIAPHRAGM PLATE BRASS * 1074206 (424-GS) <				CASIB	RASS	1-1/2" NPT					
Image: Construct of the second seco		_	SEAT			BRASS	*	1074245 ((424-MO)	4	
S FIEX LOCK NOT (7/4-23) 107430 (R03-007) 4 DISC PLATE BRASS 1074237 (424-K) 5 O-RING E.P.D.M. 1071723 (R08-028) 5 O-RING E.P.D.M. 1071723 (R08-028) 6 DISC FKM 1074232 (424-K) 7 DISC HOLDER BUNA 1074233 (424-JE) 7 DISC HOLDER BRASS 1074234 (424-JE) 7 DISC HOLDER BRASS 1074234 (424-JE) 8 GASKET COPPER 1074234 (424-H) 7 DISC HOLDER BRASS 1074229 (424-H) 8 GASKET LEAD 1073948 (200-66) 8 GASKET LEAD 1074205 (424-H) 9 O-RING E.P.D.M. 1071734 (088-132) 9 O-RING BRASS 1074220 (424-05) 10 SHAFT GUIDE </td <td></td> <td>2</td> <td>(REQ'S</td> <td>S ASSY T</td> <td>'00L)</td> <td>STN. STL.</td> <td></td> <td>1074248</td> <td>(424–MV)</td> <td>1</td>		2	(REQ'S	S ASSY T	'00L)	STN. STL.		1074248	(424–MV)	1	
4 DISC PLATE STN. STL. 1074238 (424-KS) 5 O-RING BUNA N * 1071733 (ORE-028) 6 DISC E.P.D.M. 1071733 (ORE-028) 7 DISC HOLDER BUNA * 1074233 (424-JE) 7 DISC HOLDER BRASS * 1074234 (424-JF) 7 DISC HOLDER BRASS * 1074234 (424-JF) 8 GASKET COPPER * 1073948 (200-G6) 8 GASKET COPPER * 1073948 (200-G6) 9 O-RING E.P.D.M. 1071695 (ORB-132) 9 O-RING E.P.D.M. 1071234 (0RE-132) 9 O-RING BRASS * 1074220 (424-G5) 10 SHAFT GUIDE BRASS * 1074220 (424-G5) 11 DIAPHRAGM PLATE BRASS * 1074220 (424-C) 13 CAP CAST IRON * 1074202 (424-C) 13 CAP CAST BRASS 1074202 (424-C) 14 HEX SCREW PLATED STEEL * 107239 (SC-0007) 13		3	HEX L	OCK NU	JT (1/4-28)	*	1071650 (N	US-0010)	1	
1 0.00 H B.HL [STN. STL.] 1074238 (424-4S) 5 O-RING BUNA N * 1071678 (ORB-028) 6 DISC E.P.D.M. 1071723 (ORE-028) 6 DISC FKM 1074232 (424-J) 7 DISC HOLDER BUNA * 1074232 (424-J) 7 DISC HOLDER BRASS * 1074232 (424-J) 8 GASKET 1074234 (424-H) 7 DISC HOLDER BRASS * 1074234 (424-H) 8 GASKET LEAD 1073948 (200-GC) 8 GASKET LEAD 1073949 (200-GC) 9 O-RING E.P.D.M. 1071734 (0RE-132) 9 O-RING E.P.D.M. 1071734 (0RE-132) 10 SHAFT GUIDE (REQ'S ASSY TOOL) STN. STL. 1074226 (424-GS) 11 DIAPHRAGM PLATE BRASS 1074220 (424-D) 12 HEX LOCK NUT (5/16-24) 1071651 (NUS-0013) 13 CAP CAST BRASS 1074202 (424-C) 13 CAP CAST BRASS 1074						BRASS	*	1074237	(424–K)	1	
5 O-RING E.P.D.M. 1071723 (ORE-028) VITON 1071723 (QRE-028) VITON 1071793 (QRV-028) 6 DISC BUNA * 1074232 (424-J) 7 DISC HOLDER FKM 1074234 (424-J) 7 DISC HOLDER BRASS * 1074234 (424-J) 8 GASKET COPPER * 1074234 (424-H) 9 O-RING E.P.D.M. 1074236 (424-H) 9 O-RING BRASS * 1074236 (424-H) 9 O-RING E.P.D.M. 1074236 (424-H) 10 SHAFT GUIDE (REQ'S ASSY TOOL) BUNA N * 1071734 (0RE-132) 10 SHAFT GUIDE (REQ'S ASSY TOOL) STN. STL. 1074226 (424-G03) 11 DIAPHRAGM PLATE BRASS * 1074220 (424-C) 11 DIAPHRAGM PLATE BRASS 1074220 (424-C) 12 HEX LOCK NUT (5/16-24) * 1071651 (NUS-0013) 13 CAP CAST BRASS 1074202 (424-C) 14		4	DISC	PLATE		STN. STL.		1074238	(424–KS)		
Image: state of the s						BUNA N	*	1071678 (ORB-028)		
BUNA * 1074232 (424-J) 6 DISC E.P.D.M. 1074233 (424-JE) FKM 1074236 (424-JV) HYCAR 1074236 (424-JV) 7 DISC HOLDER BRASS * 1074234 (424-H) 8 GASKET COPPER * 1074234 (424-H) 8 GASKET COPPER * 1073948 (200-66) 9 O-RING E.P.D.M. 1071734 (0RE-132) 9 O-RING BRASS * 1074225 (424-GO) 10 SHAFT GUIDE (REQ'S ASSY TOOL) BRASS * 1074226 (424-GS) 11 DIAPHRAGM PLATE (REQ'S ASSY TOOL) BRASS * 1074221 (424-D) 11 DIAPHRAGM PLATE (REQ'S ASSY TOOL) BRASS * 1074220 (424-C) 11 DIAPHRAGM PLATE (REQ'S ASSY TOOL) BRASS * 1074221 (424-DS) 12 HEX LOCK NUT (5/16-24) * 1074202 (424-C) 13 CAP CAST IRON * 1074202 (424-C) 13 CAP CAST IRON * </td <td>1</td> <td>5</td> <td>0-RIN</td> <td>G</td> <td>Γ</td> <td>E.P.D.M.</td> <td></td> <td>1071723 (</td> <td>ORE-028)</td> <td>1</td>	1	5	0-RIN	G	Γ	E.P.D.M.		1071723 (ORE-028)	1	
6 DISC E.P.D.M. 1074233 (424-JE) FKM 1074236 (424-JF) FKM 1074236 (424-JF) 7 DISC HOLDER BRASS * 1074234 (424-JF) 8 GASKET EAD 1074234 (424-H) 8 GASKET COPPER * 1073948 (200-GG) 9 O-RING E.P.D.M. 1071795 (0RB-132) 9 O-RING E.P.D.M. 1071795 (0RB-132) 10 SHAFT GUIDE (REQ'S ASSY TOOL) BRASS * 1074220 (424-GG) 11 DIAPHRAGM PLATE BRASS * 1074220 (424-GG) 11 DIAPHRAGM PLATE BRASS * 1074220 (424-D) 12 HEX LOCK NUT (5/16-24) * 1074221 (424-DS) 13 CAP CAST BRASS 1074202 (424-C) 14 HEX SCREW PLATED STEEL * 107239 (SC-0007) 14 HEX SCREW PLATED STEEL * 1074222 (424-C) 15 DIAPHRAGM BUNA N * 1074222 (424-R)	-					VITON		1071793 (0RV-028)		
6 DISC FKM 1074236 (424-J) 7 DISC HOLDER BRASS * 1074234 (424-J) 7 DISC HOLDER BRASS * 1074231 (424-H) 8 GASKET COPPER * 1073948 (200-GG) 9 0-RING E.P.D.M. 1071734 (0RE-132) 9 0-RING E.P.D.M. 1071734 (0RE-132) 10 SHAFT GUIDE (REQ'S ASSY TOOL) STN. STL. 1074220 (424-GG) 11 DIAPHRAGM PLATE BRASS * 1074220 (424-GG) 12 HEX LOCK NUT (5/16-24) * 1074220 (424-GG) 13 CAP CAST IRON * 1074202 (424-C) 13 CAP CAST IRON * 1074202 (424-C) 14 HEX SCREW PLATED STEEL * 1074222 (424-C) 15 DIAPHRAGM BUNA N * 1074222 (424-F) 16 GASKET COPPER * 1074222 (424-F) 16 GASKET ELAPD 1074222 (424-F)						BUNA	*	1074232	(424–J)		
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7 DISC HOLDER BRASS * 1074229 (424-H) 8 GASKET COPPER * 1074231 (424-HS) 8 GASKET COPPER * 1073948 (200-GG) 9 O-RING ELAD 1073949 (200-GG) 10 SHAFT GUIDE BUNA N * 1071695 (ORB-132) 10 SHAFT GUIDE BRASS * 1074220 (424-GG) 11 DIAPHRAGM PLATE BRASS * 1074220 (424-GS) 11 DIAPHRAGM PLATE BRASS * 1074220 (424-C) 13 CAP CAST IRON * 1074202 (424-C) 13 CAP CAST IRON * 1074202 (424-C) 14 HEX SCREW PLATED STEEL * 1074202 (424-C) 15 DIAPHRAGM BUNA N * 1074202 (424-C) 15 DIAPHRAGM STN. STL. 1072392 (SC2-0007)		0	DISC		Г	FKM		1074236	(424–JV)	' '	
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8 GASKET LEAD 1073949 (200-GGL) 9 O-RING BUNA N * 1071695 (0RB-132) 10 SHAFT GUIDE (REQ'S ASSY TOOL) BRASS * 1071734 (0RE-132) 10 SHAFT GUIDE (REQ'S ASSY TOOL) BRASS * 1074225 (424-GG) 11 DIAPHRAGM PLATE BRASS * 1074220 (424-D) 12 HEX LOCK NUT (5/16-24) * 1074221 (424-D) 13 CAP CAST IRON * 1074202 (424-C) 13 CAP CAST BRASS 1074206 (424-C) 14 HEX SCREW PLATED STEEL * 107239 (SC2-0007) 14 HEX SCREW PLATED STEEL * 1074222 (424-CB) 15 DIAPHRAGM BUNA N * 1074222 (424-R) 16 GASKET LEAD 1074263 (424-R) 16 GASKET LEAD 1074263 (424-R) 17 HEX NUT PLATED STEEL 1071659 (NUZ-0008)		/	DISC I	HOLDER		STN. STL.		1074231 (424-HS)	1	
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9 O-RING E.P.D.M. 1071734 (ORE-132) 10 SHAFT GUIDE (REQ'S ASSY TOOL) BRASS * 1074225 (424-GG) 11 DIAPHRAGM PLATE BRASS * 1074226 (424-GG) 11 DIAPHRAGM PLATE BRASS * 1074226 (424-GG) 12 HEX LOCK NUT (5/16-24) * 1074221 (424-DG) 13 CAP CAST IRON * 1074202 (424-C) 13 CAP CAST BRASS 1074202 (424-C) 14 HEX SCREW PLATED STEEL * 107239 (SC-0007) 14 HEX SCREW PLATED STEEL * 1074222 (424-C) 15 DIAPHRAGM BUNA N * 1074222 (424-F) 16 GASKET LEAD 1074222 (424-F) 16 GASKET LEAD 1074263 (424-R) 17 HEX NUT STN. STL. 1071626 (NUZ-0008) 17 HEX NUT STN. STL. 1071689 (ORB-110TC) 18 O-RING E.P.D.M. 1071726 (ORE-110TC) <td></td> <td>8</td> <td>GASKE</td> <td>.1</td> <td></td> <td>LEAD</td> <td></td> <td>1073949 (</td> <td>200–GGL)</td> <td colspan="2">1</td>		8	GASKE	.1		LEAD		1073949 (200–GGL)	1	
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10 (REQ'S ASSY TOOL) STN. STL. 1074226 (424-GGS) 11 DIAPHRAGM PLATE BRASS * 1074220 (424-D) 12 HEX LOCK NUT (5/16-24) * 1074221 (424-DS) 13 CAP CAST IRON * 1074202 (424-CB) 14 HEX SCREW PLATED STEEL * 1074202 (424-CB) 14 HEX SCREW PLATED STEEL * 1072399 (S02-0007) 15 DIAPHRAGM BUNA N * 1074222 (424-CB) 15 DIAPHRAGM BUNA N * 1072399 (S02-0107) 16 GASKET COPPER * 1074202 (424-CB) 17 HEX NUT PLATED STEEL 1074222 (424-FB) 17 HEX NUT PLATED STEEL 1074252 (424-R) 17 HEX NUT STN. STL. 1074263 (424-R) 18 O-RING E.P.D.M. 1071726 (0RE-110TC) 18 O-RING E.P.D.M. 1071728 (0RV-110) 19 SHAFT (NORMALLY OPEN) * 1074239 (424-L)					F	FKM		1071806 (0RV-132)		
Interference Interference<			SHAFT GUIDE			BRASS	*	1074225 (4	424–GGO)		
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11 DIAPHRAGM PLATE STN. STL. 1074221 (424-DS) 12 HEX LOCK NUT (5/16-24) * 1071651 (NUS-0013) 13 CAP CAST IRON * 1074202 (424-CB) 14 HEX SCREW PLATED STEL * 1072392 (SC2-0007) 15 DIAPHRAGM PLATED STEL * 1072392 (SC3-0007) 15 DIAPHRAGM BUNA * 1074222 (424-CB) 16 GASKET COPPER * 1074222 (424-FV) 16 GASKET LEAD 1074253 (424-RL) 17 HEX NUT PLATED STEL 1071656 (NUZ-0008) 17 HEX NUT PLATED STEL 1071656 (NUZ-0008) 17 HEX NUT PLATED STEL 1071649 (NUS-0007) 18 O-RING E.P.D.M. 1071726						BRASS	*	· ·			
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15 DIAPHRAGM FKM 1074224 (424-FV) 16 GASKET COPPER * 1074252 (424-R) 16 GASKET LEAD 1074263 (424-R) 17 HEX NUT PLATED STEL 1071656 (NUZ-0008) 17 HEX NUT BUNA * 1071659 (NUS-0007) 18 O-RING E.P.D.M. 1071768 (ORE-110TC) 19 SHAFT (NORMALLY OPEN) * 1074239 (424-L) FORM NO. 10777614 FORM NO. 10777614						BUNA N	*		,		
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ROCKFORD OPERATIONS

DATE

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SERIES 424 DIAPHRAGM VALVE

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-1

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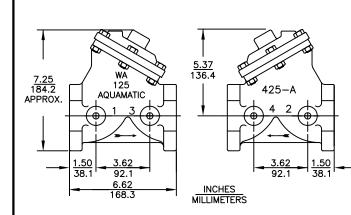
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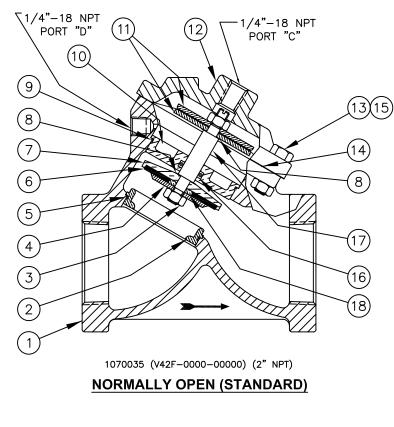
							NO. DESCRI	PTION ST	D PART NO.	QTY.
		(1/4" NPT)		(1/8"NPT) — \						Q11.
CLOSED VALVES ONLY) (1/8" NPT)					CLOSED VAL	VES ONLY)	20 SCREW		DEL 1072362 (SCS-003	1) 1
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	-23		E		(31)		25 SHAFT (NORMAL	STN. STL.	1071915 (PLS-000 1074241 (424-LI	
			\F		\sim	/	<u> </u>	ASSIST CLOSED		
	$/ \sqrt{-}//$		π		\sim					
			Ш		\sim		26 CENTERING NUT	*	1074276 (424-) 1074274 (424-T	X) 1 T\
			W				27 RETAINER NUT	STN. STL.	1074274 (424-1 1074275 (424-TTS	: 1
								PLATED STEEL *		
							28 PIPE PLUG (1/8" N.P.T.)	BRASS	1071903 (PLB-000)	
	# UDT) (070707	(1100 0070 00000) (1 1	(1 8 1)-	-	0,0000) (1, 1/4" M	דר)		STN. STL.	1071916 (PLS-000	
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				· · · ·			30 O-RING	CAST IRON *	1071674 (ORB-02 1074208 (424-C	
LIMIT STOP	—(1/4" NPT)	RMALLY CLOS	ED	SPRING ASS	SIST CLOSE	<u>.D</u>	31 CAP	CAST BRASS	1074209 (424-CC	
(16)	_(1/8" NPT) - <	36 37					SPRING	ASSIST OPE		-/1
	(1/3 11 1) / 34							COPPER *		R) 1
		35	\sum				16 GASKET	LEAD	1074263 (424-R	
(33)	$A \setminus / $		(38)	\setminus			32 SPRING	*	1074264 (424-5	
	$\overline{Z} \setminus /$						33 CENTERING WASH	IER BRASS *	107 1002 (120 11	
(32)		KINV					POSITI		1074384 (426-HA	<u>ыл</u>
			\sim	40 CANNOT BE COMBINED WITH LIMIT STOP					1074217 (424-C	E)
		C Stranger	-(4	MODEL.			34 CAP -	CAST BRASS	1074217 (424-CF	
		NAN XOL C	5	2. VALVES AVAI	35 O-RING	*				
			5.	J.I.S. END CONNECTIONS.			36 SHAFT GUIDE B	USHING *	•	
			1 /				37 INDICATOR SHAP	T *	107 1201 (121 11	
			\checkmark				38 O-RING	*	1071688 (ORB-108T	-
							39 TOP NUT 40 LOCKWASHER	*	1074272 (424-TI 1073590 (WAS-000	
161									1075590 (MAS-000	<u>'' </u>
1072715 (V42D-0001-00000) (1-1/	/4" NPT) 1072722 (V4	2D-0021-00000) (1-1/4"	NPT)							
1070027 (V42E-0001-00000) (1-1/		2E-0021-00000) (1-1/2"		REPAIR P	ARTS KITS			VERSE SIDE		
SPRING ASSIST OF	<u>PEN</u> <u>POSIT</u>	ION INDICATO	R	DESCRIPTION		PART NC	. STANDA	RD NORMALI	Y OPEN MOD	DEL
			Ī	INT. PARTS KIT (LIMIT STOP)		1074242 (424-	-LS) F	ORM NO. 10	77614	
	ONVERSION KITS			CONSISTS OF STANDARD ITER	M NO'S 20,21,22				1588 MSM 27N0V0	02
		PART NO.		INT. PARTS KIT (NORM. CLOS	SED)		REV DESCRI		ECO DWN DATE	
CONVERSION KIT (LIMI CONSISTS OF STANDAR	T STOP) RD ITEM NO'S 20,21,22,23	1074243 (424-LSC)		CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),25		1070130 (424–	RG)	OSMONI	~~	
CONVERSION KIT (SPR			ŀ	INT. PARTS KIT (SPRING ASS			─ > ,			
	RD ITEM NO'S 26 THRU 31	1074266 (424-SCC)		CONSISTS OF STANDARD ITE		1074265 (424–	SC)		XFORD, IL 61103-3991 (815)	964-9421
CONVERSION KIT (SPR	ING ASSIST OPEN)	1074260 (424 600)	F	INT. PARTS KIT (SPRING ASS	SIST OPEN)	1074060 (404	SERI	ES 424 DIAPH	RAGM VALVE	
	RD ITEM NO'S 10,16,32,33	1074269 (424-SOC)		CONSISTS OF STANDARD ITEM NO'S 16,32,33			50)	1-1/4" & 1-1/2	2" N.P.T.	
CONVERSION KIT (POS		1074250 (424-PIC)	[INT. PARTS KIT (POSITION IN		1074249 (424-	-PI) SCALE DRAWN		DWG. NO.	
CONSISTS OF STANDAR	RD ITEM NO'S 34 THRU 40			CONSISTS OF STD ITEM NO'S	S 35 THRU 40		''' N/A _ J\	WB 30APRO	01 108	34019

-1/4" & 1-1/2" DIAPHRAGM VALVE - OPTIONAL MODELS



					N	1							
	REPAIR PARTS KITS												
	DESCRIPTION		PART NO.		L								
	DIAPHRAGM & SEALS KIT CONSISTS OF ITEM NO'S 3(2),5,6,8(2),9,14,16	1070070 (425-RA)	1070083 (425-RAE)	1070095 (425-RAV)		,							
		DIAPHRAGM	E.P.D.M. INCLUDES DIAPHRAGM 1074296 (425-FB)	DIAPHRAGM									
	INT. PARTS KIT (NORM. OPEN) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),17,18	1070120 (425–RF)											
	SEAT (ITEM NO. 2)	10	074321 (425	-MO)									

ASSEMBLY TOOLS									
DESCRIPTION	PART NO.								
FOR INSTALLATION & REMOVAL OF SEAT (ITEM #2) (TOOL NOT SHOWN)	1074411 (426-MT)								
FOR INSTALLATION & REMOVAL OF SHAFT GUIDE (ITEM #10) (TOOL NOT SHOWN)	1" HEX SOCKET								



NO.	DESCRIPTION				STD	PART NO.	QTY.			
1	BODY CAST IRON SEAT (REQ'S ASSY TOOL)			2" NPT	*	1074277 (425–A)	1			
2				BRASS	*	1074321 (425-MO)	1			
3	HEX L	OCK NU	IT (5	5/16-24)	*	1071651 (NUS-0013)	2			
4	DISC I	PLATE		BRASS	*	1074220 (424–D)	1			
				BUNA N	*	1071682 (ORB-035)				
5	0-RIN	G	L	E.P.D.M.		1071724 (ORE-035)	1			
				VITON		1071794 (ORV-035)				
			-	BUNA	*	1074307 (425–J)	-			
6	DISC		H	E.P.D.M.		1074309 (425-JE)	1			
			H	FKM		1074312 (425–JV)	ł			
				HYCAR		1074310 (425–JH)				
7	DISC I	HOLDER		BRASS	*	1074303 (425–H)	1			
8	GASKE	т		COPPER	*	1074252 (424-R)	2			
				LEAD	*	1074263 (424-RL)				
			-	BUNA N	*	1071684 (ORB-038)				
9	0-RIN	G	-	E.P.D.M.		1071725 (ORE-038)	1			
	CUACT			FKM		1071795 (ORV-038)				
10	SHAFT GUIDE (REQ'S ASSY TOOL)			BRASS	*	1074301 (425–GO)	1			
11	DIAPHF	RAGM PI	ATE	BRASS	*	1074293 (425–D)	2			
12	CAP	с		ST IRON	*	1074281 (425–C)	1			
13	HEX S	SCREW	PLA	TED STEEL	*	1072400 (SCZ-0013)	6			
14	DIAPH	PACM		BUNA N	*	1074296 (425-FB)	1			
14	DIAFHI			FKM		1074297 (425–FV)				
15	HEX N	IUT	PLA	TED STEEL		1071657 (NUZ-0011)	6			
			_	BUNA N	*	1071699 (ORB-206TC)				
16	0-RIN	G		E.P.D.M.		1071742 (ORE-206TC)] 1			
				FKM		1071813 (ORV-206)				
17	SHAFT	(NORM	ALLY	OPEN)	* 1074314 (425-		1			
18	DISC S	SPACER			*	1074382 (426-HA)	1			
				ERSE SI RATION		TIONS				
		F	ORM	NO. 10	77	615				
С	NUME	BER CON	VERS	ON	1588	3 MSM 27N0V02				
	/ D	ESCRIPT	10N		ECO	DWN DATE	APVD			
REV										
REV	ĺ	V TN	ROCH	FORD OPERATIONS		. 61103–3991 (815) 964	-9421			

2" N.P.T.

30APR01

DWG. NO.

DATE

JWB

SCALE DRAWN

N/A

2" DIAPHRAGM VALVE - STANDARD MODE 1084020

NOTE:

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

2. VALVES AVAILABLE WITH B.S.P. OR J.I.S. END CONNECTIONS.

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NO.	DESCR	PTIC	N	STD	PART NO.	QTY.	\mathbf{N}		
	LI	МІТ	STOP M	OD	EL				
19	SCREW			*	1072364 (SCS-0042)	1			
	0-RING			*	1071690 (ORB-112)				
	NUT			*	1074434 (426–U)				
22			ST IRON	*	1074285 (425-CCC)	1			
	NORM	ALL	Y CLOS	ED			DIAPHRAGM V		
	PIPE PLUG	PLA	TED STEEL	*	1071918 (PLZ-0008)				
23	(1/4" N.P.T.)		BRASS		1071904 (PLB-0009)	1	Ť		
			TN. STL.		1071915 (PLS-0001)				
24	SHAFT (NORMAL			*	1074317 (425–LL)	1			
SPRING ASSIST CLOSED MODEL									
25	CENTERING WASH	HFR	BRASS	*	1074083 (421-AH)	1			
			STN. STL.		1074084 (421-AHS)				
26	RETAINER NUT		BRASS	*	1074430 (426-TT)	1	\square		
	PIPE PLUG	PLA	TED STEEL	*	1071917 (PLZ-0005)		<u> </u>		
27	(1/8" N.P.T.)	<u>ا</u>	BRASS		1071903 (PLB-0007) 1071916 (PLS-0002)	1	\sim		
28	SPRING	<u> </u>	TN. STL.	*	1071916 (PLS-0002) 1074428 (426-SS)	1			
29				*	1071677 (ORB-025)	1			
30		CA	ST IRON	*	1074284 (425-CA)	1	\leq		
			SSIST OF						
					1074252 (424-R)	-	VALVE		
8	GASKET		LEAD	<u> </u> ≁	1074252 (424-R) 1074263 (424-RL)	1			
31	SPRING			*	1074423 (426-S)	1			
			BRASS	*	1074436 (426-V)				
32	CENTERING WASH	IER	STN. STL.		1074437 (426-VS)	1			
	POSITI	ON		OR	MODEL				
33			ST IRON	*	1074288 (425-CF)	1			
		0/1		*	1071692 (ORB-116)				
35		USH	ING	*	1074121 (421–GF)		\cap		
36	INDICATOR SHAF	T		*	1074325 (425-PM)	1	\leq		
37	0-RING			*	1071688 (ORB-108TC)	1	U		
38				*	1074332 (425-TB)	1			
39	LOCKWASHER			*	1073590 (WAS-0007)	1			
							()		
	SEE REVER			FO	>				
					Pen mode	-1			
	STANDARD	INC			FEN MODE				
	FORM N	0	107761	5			•		
С	NUMBER CONV			1588	3 MSM 27N0V02				
REV				ECO		ΔΡVD			
				200			\cap		
		SI	MONIC	S					
			FORD OPERATIONS						
1	241 WW	2 grai N.OSMO	NT AVENUE, ROCKF	ford, II	. 61103-3991 (815) 96	4-9421			
					M VALVE				
1									

(29) 27 (25) 30) (1/8" NPT) 26) (28) 1072885 (V42F-0002-00000) (2" NPT) 1072894 (V42F-0030-00000) (2" NPT) NORMALLY CLOSED SPRING ASSIST CLOSED 35 36) (33) NOTE: MODEL. J.I.S. END CONNECTIONS.

(USED WITH NORMALLY

CLOSED VALVES ONLY)

1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP

2. VALVES AVAILABLE WITH B.S.P. OR

1070036 (V42F-0001-00000) (2" NPT)

(USED WITH NORMALLY

CLOSED VALVES ONLY)

1070037 (V42F-0010-00000) (2" NPT)

8

LIMIT STOP

(31)

(21)

(20)

(1/4" NPT)

(32)

(1/8" NPT)

(1/8" NPT)

(19)

1072893 (V42F-0021-00000) (2" NPT)

1074324 (425-PIC)

√(1/4" NPT)

SPRING ASSIST OPEN

CONVERSION KIT (POSITION INDICATOR)

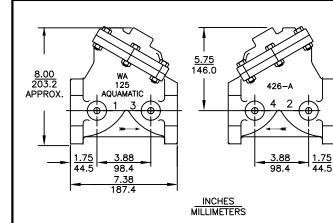
CONSISTS OF STANDARD ITEM NO'S 33 THRU 39

۶F	RING ASSIST OPEN	POSITION	INDICAT	<u>OR</u>
	CONVERSION			ĺ
	DESCRIPTION		PART NO.	
	CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 19,2	0,21,22	1074320 (425-LSC)	
	CONVERSION KIT (SPRING ASSIST CLOSE CONSISTS OF STANDARD ITEM NO'S 25	D) THRU 30	1074330 (425-SCC)	
	CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 8,31	,32	1074331 (425–S0)	

REPAIR PARTS KITS	
DESCRIPTION	PART NO.
INT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 19,20,21	1074319 (425–LS)
INT. PARTS KIT (NORM. CLOSED) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),18,24	1070131 (425–RG)
INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 25,28,29	1074329 (425-SC)
INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 8,30,31	1074331 (425–S0)
INT. PARTS KIT (POSITION INDICATOR) CONSISTS OF STD ITEM NO'S 34 THRU 39	1074323 (425–PI)

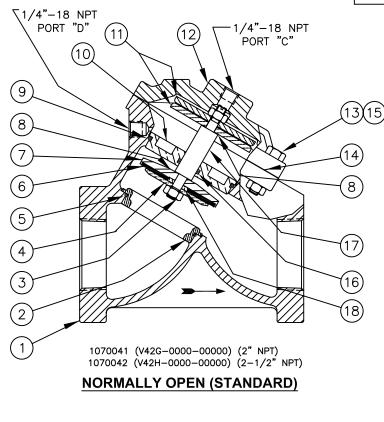
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STAN	IDARD	NO	RMALL	Y	OPEN	MODEL

	STANDARD NORMALLY OPEN MODEL											
FORM NO. 1077615												
С	NUN	BER CONV	ERSION	1:	588	MSM	27N0V02					
REV		DESCRIPTIC	N	E	:CO	DWN	DATE	APVD				
OSMONICS ROCKFORD OPERATIONS 2412 GRWT AVENUE, ROCKFORD, IL 61103-3991 (815) 964-9421 WWW.OSMONICS.COM												
		SERIES	425 DIAPH	R/	GM)	VAL\	/E					
2" N.P.T.												
SCA	LE /	DRAWN JWB	DATE 30APR(71	DWG.	NO.	1094	020				
	/ A	JWD	U JUAPRI	ויכ			1084	020				



				N	
REPAIR I	PARTS KI	TS		F	
DESCRIPTION		PART NO.		.	
DIAPHRAGM & SEALS KIT	1070071 (426-RA)	1070084 (426-RAE)	1070096 (426-RAV)		
CONSISTS OF ITEM NO'S 3(2),5,6,8(2),9,14,16	INCLUDES DIAPHRAGM	E.P.D.M. INCLUDES DIAPHRAGM 1074374 (426-FB)			
INT. PARTS KIT (NORM. OPEN) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),17,18	1070121 (426-RF)				
SEAT (ITEM NO. 2)	107-	4409 (426–	MO)	5	

ASSEMBLY TOOLS									
DESCRIPTION	PART NO.								
FOR INSTALLATION & REMOVAL OF SEAT (ITEM #2) (TOOL NOT SHOWN)	1074411 (426-MT)								
FOR INSTALLATION & REMOVAL OF SHAFT GUIDE (ITEM #10) (TOOL NOT SHOWN)	1–3/16"HEX SOCKET								



NOTE:

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

2. VALVES AVAILABLE WITH B.S.P. OR J.I.S. END CONNECTIONS.

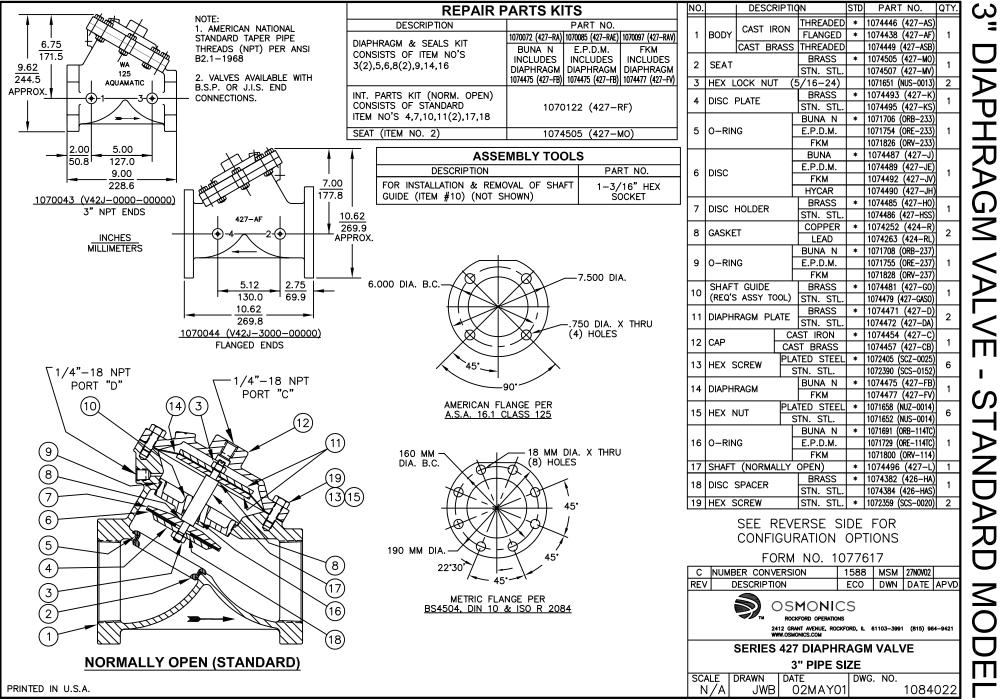
_	NO.		DESCR	IPTIC	ON	STD	PART	NO.	QTY.	
					2" NPT	*	1074343	(426–A8)		
1	1	DODY	CAST IR	ON	2-1/2" NPT	*	1081559 (426-A10)		
	'	BODY		400	2" NPT		1074338 (426-AB8)	1	$\mathbf{\alpha}$
1			CAST BR	A22	2-1/2" NPT		1074335 (426-AB10)		×
		SEAT			BRASS	*	1074409	(426-MO)	4	
	2	(REQ'S	ASSY TO	OL)	STN. STL.		1074408 (426-MAVO)	1	
4	3	HEX L	OCK NUT		5/16-24)	*	1071651 (1	NUS-0013)	2	Z- 1
	4	DISC I			BRASS	*	1074395	(426-K)	1	
	4	DISC			STN. STL.		1074398	(426–KS)		
					BUNA N	*	1071696 ((ORB-144)		
1	5	0-RIN	G		E.P.D.M.		1071737 (ORE-144)	1	•
-					FKM		1071809 ((ORV-144)		
					BUNA	*	1074389	(426–J)		
		DISC		Г	E.P.D.M.		1074391	(426-JE)		
	6	DISC		Г	FKM		1074394	(426-JV)	1	
				Г	HYCAR		1074392	(426–JH)	1	T
	-				BRASS	*	1074381	(426-H)		
	7	DISC I	HOLDER		STN. STL.		1074386	(426-HS)	1	
		OACKE	-		COPPER	*	1074252	(424–R)		
	8	GASKE	.1		LEAD		1074263	(424-RL)	2	
					BUNA N	*	1071706 (ORB-233)		IAPHRAGM VALVE
	9	0-RIN	G	Г	E.P.D.M.		1071754 (ORE-233)	1	-
				Г	FKM		1071826 (ORV-233)		G
	10	SHAF	f guide		BRASS	*	1074379	(426–GO)		
	10	(REQ'S	ASSY TO	OL)	STN. STL.		1074378 (4	26-GASO)	1	\leq
					BRASS	*	1074370	(426-D)		
		DIAPHI	RAGM PL	ALE	STN. STL.		1074371	(426-DA)	2	\leq
				CA	ST IRON	*	1081560	(426-C)		
	12	CAP	T T	CAS	ST BRASS		1074348	(426–CB)	1	
	47			PLA	TED STEEL	*	1072401 (SCZ-0015)		
	13	HEX S	CREW	S	TN. STL.		1072358 (SCS-0016)	6	
					BUNA N	*	1074374	(426–FB)		
	14	DIAPH	KAGM		FKM		1074376	(426–FV)	1	
	1 5	HEX N		PLA	TED STEEL	*	1071657 (N	UZ-0011)	6	
	15			S	TN. STL.		1071655 (N	IUS-0035)	6	
					BUNA N	*	1071691 (0	RB-114TC)		r 1
	16	0-RIN	G		E.P.D.M.		1071729 (0	re-114tc)	1	U
					FKM		1071800 (ORV-114)		
	17	SHAFT	(NORMA	LLY	OPEN)	*	1074400	(426-L)	1	
	10		SPACER		BRASS	*	1074382	(426–HA)	1	
		0.30 .			STN. STL.		1074384 (426-HAS)	'	
			SEE R		ERSE SI		FOR			ANUAK
			CONFIG	JUF	RATION	UΡ	1002			
			FΟ	RM	NO. 10	776	516			
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		,	₩. `		FORD OPERATIONS	5				\leq
			24	12 GRA	NT AVENUE, ROCKE	ORD, IL	61103-3991	(815) 964	-9421	7
	L		w	WW.OSMO	DNICS.COM					IOUEL
		9	SERIES	426	6 DIAPHR	AG	M VAL\	/E		
				2" 8	& 2-1/2" I	N.P.	т.			
	SC		DRAWN				/G. NO.			
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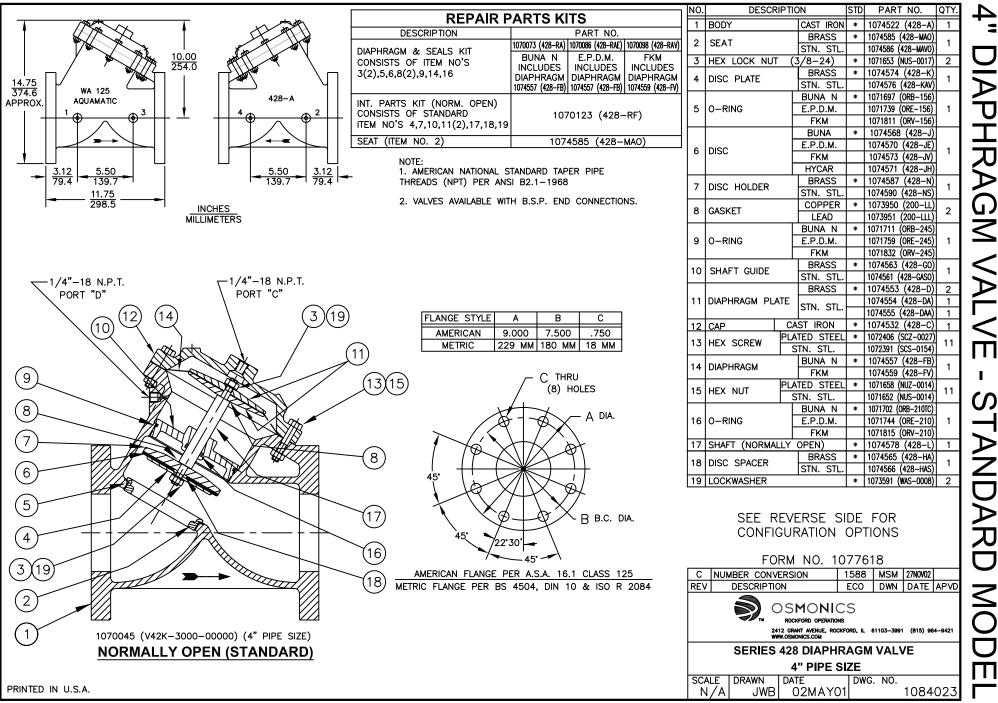
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						NO	DESCR	RIPTION	STD P	ART NO.	QTY.	
(USED WITH NORMALLY CLOSED VALVES ONLY) (1/4" NPT) (1/8" NPT)												-
				/	CLOSED VALVES	ONLY)	19	SCREW			+ (SCS-0042	2) 1
								0-RING			0 (ORB-112	
X			23) X				21	NUT		* 10744	34 (426–U	Ú 1
6	$\square 2 $			`			22	CAP	CAST IRON		4 (426–CCC	
/(27)	$\Box \setminus \checkmark \land \land \land$			\backslash		\	\		CAST BRASS		(426-CCCB)
\mathcal{K}				$\langle \rangle$		(27)	\	NORN	ALLY CLOS			
				(30 26			PIPE PLUG	PLATED STEEL	* 1071918	3 (PLZ-0008	3)
			Soft M			(1/8" NP	т) 23	(1/4" N.P.T.)	BRASS		(PLB-0009	
	$\mathbf{h} \mathbf{\zeta} \mathbf{k} \mathbf{\zeta} 20$		ALL IL		(25)			SHAFT (NORMA	STN. STL.		5 (PLS-0001 02 (426-LL	
	SDSS IV - /		//2000/				124					
			ASSA	/ \		(29)		SPRING	ASSIST CLC			
<u></u>				Y			/ 25	CENTERING WAS	HER BRASS STN. STL.		3 (421–AH 4 (421–AHS	
	Y ANY			/	A 28				BRASS	* 107408	4 (421-AHS 50 (426-TT	$\frac{y}{1}$
			Se (24) 🗡				26	RETAINER NUT	STN. STL.		3 (426–TTS	
					MX XO				PLATED STEEL		7 (PLZ-0005	
	· · · · · · · · · · · · · · · · · · ·				4070075 (4400 0000 0000)	(07 NDT)	27	PIPE PLUG (1/8" N.P.T.)	BRASS	1071903	6 (PLB-0007	
	(V42G-0010-00000) (2" NPT) (V42H-0010-00000) (2-1/2" NPT)	1072945 (V42G-	0030-00000) (2" NF 0030-00000) (2-1/2" NF		1072935 (V42G-0002-00000) 1072996 (V42H-0002-00000) (2-	(2" NPT) -1/2" NPT)			STN. STL.		6 (PLS-0002	
1012998		-		1)				SPRING			8 (426-SS	
	LIMIT STOP	NORMA	LLY CLOSED		SPRING ASSIST CL	LOSED		0-RING	CAST IRON		7 (ORB-025 2 (426-CC	
	(1/8" N	PT)					30	CAP	CAST BRASS	107435	<u>2 (426–CC</u> 3 (426–CCB	응 1
/	(31) (1/4" M	IPT) (33)	35 (36)					SPRING ASSIST OPEN MODEL				2
											- 52 (424-R	
\wedge		(A A A	X (37)	$\sqrt{2}$ (37)			8	GASKET	LEAD		3 (424–RL	<u> </u>
			38	\backslash	NOTE			SPRING			23 (426-5	7
K/λ		X			NOTE:		30		BRASS	* 10744	36 (426–V	ý 1
1443			(39)			RING ASSIST CLOSED MODEL OT BE COMBINED WITH LIMIT STOP OSITION INDICATOR MODELS.		32 CENTERING WASHER STN. STL. 1074436 (4)				5)
			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				STOP	POSIT	ON INDICAT	OR MODEL	-	
V/ah					OR POSITION INDICATOR MODELS.	22	CAP	CAST IRON	* 107436	0 (426–CF) 1	
V~~			B YY	s/	2. VALVES AVAILABLE WIT	TH B.S.P.			CAST BRASS		4 (426–CFB	<i>´</i>
				4	J.I.S. END CONNECTIONS.			0-RING			2 (ORB-116	<u> </u>
								SHAFT GUIDE E			<u>1 (421–GF</u> 5 (425–PM	
$\langle \langle \rangle$								0-RING	F I		(ORB-108TC	
		A A						TOP NUT			2 (425-TB	
								LOCKWASHER) (WAS-0007	
	(V42G-0001-00000) (2" NPT)	1072943 (V42G-002										
	(V42H-0001-00000) (2-1/2" NPT)		1-00000) (2-1/2" NPT)		REPAIR PARTS	SKITS			REVERSE S			
SPR	ING ASSIST OPEN	POSITION	INDICATOR		DESCRIPTION		PART NO		DARD NOR	MALLY O	PEN MOL	
_				INT. PA	RTS KIT (LIMIT STOP)					77616		
	CONVERS			CONSIS	TS OF STANDARD ITEM NO'S	19,20,21	1074405 (426-					
ŀ	DESCRIPTION PART NO.			RTS KIT (NORM. CLOSED)				R CONVERSION	1588 ECO	MSM 27N0V0 DWN DATE		
	CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 19,20,21,22			CONSIS	TS OF STANDARD		1070132 (426-				UWIN UATE	
				ITEM N	0'S 4,7,10,11(2),18,24				S OSMO	DNICS		
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 25 THRU 30			1074426 (426 500)	INT. PA	RTS KIT (SPRING ASSIST CLO	SED)	1074405 (400		TN ROCKFORD	OPERATIONS		
			10/1120 (120-500)		TS OF STANDARD ITEM NO'S		1074425 (426-	_	WWW.OSMONICS.	COM	61103-3991 (815)	964-9421
	CONVERSION KIT (SPRING ASSIST O		1074427 (426-S0)		RTS KIT (SPRING ASSIST OPE		1074427 (426-	_{S0)} S	ERIES 426 D			
ļ	CONSISTS OF STANDARD ITEM NO'S				TS OF STANDARD ITEM NO'S		•			-1/2" N.P.T		
	CONVERSION KIT (POSITION INDICATO		1074414 (426-PIC)		RTS KIT (POSITION INDICATOR		1074413 (426-				G. NO.	4021
	CONSISTS OF STANDARD ITEM NO'S	33 THKU 39		CONSISTS OF STD ITEM NO'S 34 THRU 39				"" N/A	JWB 02N	/AY01	108	34021



USED WITH NORMALLY CLOSED VALVES ONLY	(1/4" NF	PT)		NO. DESCRIPTION STD PART NO. QTY.	ယ္
		28 (1/8"		20 SCREW * 1072365 (SCS-0043) 1 21 O-RING * 1071690 (0RB-112) 1 22 NUT * 1074434 (426-U) 1 23 CAP CAST IRON * 1074432 (427-CCC) 1 23 CAP CAST BRASS 1074452 (427-CCC) 1 NORMALLY CLOSED MODEL 24 PIPE PLUG (1/4" N.P.T.) PLATED STEEL * 1071918 (PLZ-0008) 1 25 SHAFT (NORMALLY CLOSED MODEL BRASS 1071904 (PLB-0009) 1 25 SHAFT (NORMALLY CLOSED) * 1074499 (427-LL) 1 SPRING ASSIST CLOSED MODEL 26 CENTERING WASHER BRASS * 1074430 (421-AH) 1 27 RETAINER NUT BRASS * 1074430 (426-TT) 1 27 RETAINER NUT BRASS * 1074433 (426-TT) 1 20 DIPE PLUC PLATED STEEL * 1071917 (PLZ-0005) 1	' DIAPHRAGM
1073045 (V42J–0010–00000) (THREADED) 1073103 (V42J–3010–00000) (FLANGED)	1073055 (V42J–0030–00000) (THREADED) 1073113 (V42J–3030–00000) (FLANGED)			28 FIFE FLOG BRASS 1071903 (PLB-0007) 1 (1/8" N.P.T.) STN. STL. 1071916 (PLS-0002) 1 29 SPRING * 1074428 (426-SS) 1	\leq
LIMIT STOP (1/4" NPT) (1/8" NPT)	NORMALLY CLOSED	SPRING ASSIST CLOS	<u>ED</u>	30 O-RING * 1071677 (0RB-025) 1 31 CAP CAST IRON * 1074460 (427-CC) 1 CAST BRASS 1074461 (427-CCB) 1	AL
33 8 32 32 32 32 32 4 5 52 5 52 5 52 5 52 5	34 35 39 40 40 40 40 40 40 40 40 40 40 40 40 40	NOTE: 1. SPRING ASSIST CLOSED MOD CANNOT BE COMBINED WITH LIN OR POSITION INDICATOR MODEL: 2. VALVES AVAILABLE WITH B.S J.I.S. END CONNECTIONS.	AIT STOP S.	SPRING ASSIST OPEN MODEL 8 GASKET COPPER * 1074252 (424-R) 1 32 SPRING * 1074263 (424-RL) 1 33 CENTERING WASHER BRASS * 1074423 (426-S) 1 33 CENTERING WASHER BRASS * 1074437 (426-VS) 1 POSITION INDICATOR MODEL CAST IRON * 1074468 (427-CF) 1 34 CAP CAST IRON * 1074469 (427-CFB) 1 35 O-RING * 1074469 (427-CFB) 1 35 O-RING * 1074469 (427-CFB) 1 36 SHAFT GUIDE BUSHING * 1074469 (427-CFB) 1 37 INDICATOR SHAFT * 107450 (08B-116) 1 38 O-RING * 1071688 (0R8-108TC) 1 39 TOP NUT * 1074332 (425-TB) 1 40 LOCKWASHER * 1073590 (WAS-0007) 1 <	VE - OPTIONAL
· · · · ·	1077374 (V42J-3021-00000) (FLANGED) POSITION INDICATOR	REPAIR PARTS KITS		SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL	\triangleright
CONVERSION		DESCRIPTION INT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 20,21,22	PART NO. 1074501 (427–LS)	FORM NO. 1077617	
DESCRIPTION CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 20,21,	PART NO. 22,23 1074502 (427-LSC)	INT. PARTS KIT (NORM. CLOSED) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),18,25	1070133 (427–RG)	REV DESCRIPTION ECO DWN DATE APVD	MO
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 26 TH		INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 26,29,30	1081565 (427–SC)		D
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 8,32,3	1074521 (427–SO)	INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 8,32,33	1074521 (427–S0)	3" PIPE SIZE	
CONVERSION KIT (POSITION INDICATOR) CONSISTS OF STANDARD ITEM NO'S 34 TH	RU 40 1074509 (427–PIC)	INT. PARTS KIT (POSITION INDICATOR) CONSISTS OF STD ITEM NO'S 35 THRU 40	1074508 (427–PI)	SCALE DRAWN DATE DWG. NO. N/A JWB 02MAY01 1084022	S



APHRAGM VAL ANDARD MOD

			NO.		DESCR	RIPTIC	NC	STD	PAR	T NO.	QTY.	
(1/8" NPT) - VISED WITH NOI					I	іміт	STOP M		FI			
	5 ONLI		20	SCRE			0.01	*		(SCS-0043)	1	
			21	0-R				*		(ORB-112)		
(27)				NUT				*		(426–U)		
	\backslash		23	CAP		CA	ST IRON	*		(428-CCC)	1	
(31)	\backslash				NORN	IALI	LY CLOS	ED	MODE	Ĺ		APH
h Y h h h h h	<u>a</u> /						ATED STEEL	*				
	9		24		E PLUG	<u> </u>	BRASS			(PLB-0009)	1	U
				(1/4	4"N.P.T.)	S	STN. STL.		1071915	(PLS-0001)		Ť
(29)			25	SHAF	T (NORMA	LLY	CLOSED)	*	1074581	(428-LL)	1	
) /				SPRING	AS	SIST CLC	SE	D MOE)EL		IRAGM VALV
	· /			OFUT			BRASS	*	1074530	(428-AH)		
			26	CENT	ERING WAS	HER	STN. STL.			· · · · ·	1	\triangleright
1 and	\checkmark		27	DETA	NER NUT		BRASS	*	1074430	(426–TT)	1	5
(26)	/		21				STN. STL.			(426-TTS)		- (L)
				PIF	E PLUG	PL/	ATED STEEL	*		(PLZ-0005)		
			28		B" N.P.T.)		BRASS			(PLB-0007)	1	\leq
				SPRI		5	STN. STL.	*		(PLS-0002)	1	
1073148 (V42K-3002-00000)				0-RI				*		(428-SS) (ORB-025)	1	
				CAP		CA	ST IRON	*		(428–CC)	1	
SPRING ASSIST CLOS					SDDIN						<u> </u>	
					JERIN	G A				. L (200–LL)		
			8	GASK	ΈT		LEAD	_		(200–LL) (200–LLL)	1	
			32	SPRI	NG			*		(428–S)	1	<
							BRASS	*		(428–V)		
NOTE			33	CENT	ERING WAS	HER	STN. STL.				1	
NOTE:			34	CUVE	T GUIDE		BRASS	*	1074562	(428-GGO)	1	
1. SPRING ASSIST CLOSED MOD	EL		54	SHAF	I GOIDE		STN. STL.				· '	
CANNOT BE COMBINED WITH LIM					POSIT	ION	INDICAT	OR	MODE	L		\cap
OR POSITION INDICATOR MODELS	5.		35	CAP		CA	ST IRON	*	1074549	(428-CF)	1	
2. VALVES AVAILABLE WITH B.S	.P. END		36	0-RI	NG			*	1071692	(ORB-116)	1	
CONNECTIONS.					T GUIDE I		ling	*		(421–GF)		
					ATOR SHA	\FT		*		(428-PM)		
				0-RI				*		ORB-108TC)		
			40	TOP	NUT			*	10/4608	(428–TB)	1	\square
												\leq
				SEE	E REVE	RSE	E SIDE	FOI	R			1
REPAIR PARTS KITS							DRMALL			MODE	· 1	
DESCRIPTION	PAR	T NO.		017						mobe		
S KIT (LIMIT STOP)	1074583 (428–LS)		ł	FORM N	10.	1077618	3				-
OF STANDARD ITEM NO'S 20,21,22			С	NUM	BER CON	/ERS		1588	B MSM	27N0V02		\sim
S KIT (NORM. CLOSED)			REV		DESCRIPTI	ON		ECO	DWN	DATE	APVD	
OF STANDARD 5 4,7,10,11(2),18,25	1070134 (428–RG)						_				\cap
							MONIC	S				
S KIT (SPRING ASSIST CLOSED)	1074602 (428-SC)	1			ROCK	FORD OPERATIONS		81103-30	01 (815) 00	-9491	IONAL MOD
OF STANDARD ITEM NO'S 26,29,30					2. W	W.OSMC	NT AVENUE, ROCKF DNICS.COM	0.KD, IL	. 31103-39	an (615) 964	- 0421	
S KIT (SPRING ASSIST OPEN)	1074604 (428_501	1		SERIES	428	DIAPHR	AG	M VAL	VE		
OF STANDARD ITEM NO'S 8,32,33	1074004 (720-30)	1			4	" PIPE SI	ZE				
S KIT (POSITION INDICATOR)	1074501		SCA	ALE	DRAWN	DA1			/G. NO.			
OF STD ITEM NO'S 36 THRU 40	1074591 ((#28-PI)		ί7Α	JWB		2MAY01			1084	023	U)

1073146 (V42K-3001-00000) 1073156 (V42K-3021-00000) SPRING ASSIST OPEN **POSITION INDICATOR** INT. PARTS KIT (LIMIT STOP) CONVERSION KITS CONSISTS OF STANDARD ITEM NO'S 2 DESCRIPTION PART NO. INT. PARTS KIT (NORM. CLOSED) CONSISTS OF STANDARD CONVERSION KIT (LIMIT STOP) 1074584 (428-LSC) ITEM NO'S 4,7,10,11(2),18,25 CONSISTS OF STANDARD ITEM NO'S 20,21,22,23 CONVERSION KIT (SPRING ASSIST CLOSED) INT. PARTS KIT (SPRING ASSIST CLOSI 1074603 (428-SCC) CONSISTS OF STANDARD ITEM NO'S 26 THRU 31 CONSISTS OF STANDARD ITEM NO'S 2 CONVERSION KIT (SPRING ASSIST OPEN) INT. PARTS KIT (SPRING ASSIST OPEN 1074606 (428-SOC) CONSISTS OF STANDARD ITEM NO'S 8,32,33,34 CONSISTS OF STANDARD ITEM NO'S 8. INT. PARTS KIT (POSITION INDICATOR) CONVERSION KIT (POSITION INDICATOR) CONSISTS OF STANDARD ITEM NO'S 35 THRU 40 1074592 (428-PIC)

NORMALLY CLOSED LIMIT STOP (1/4" NPT) (1/8" NPT) 38 8

(21

__(1/4" NPT)

25

40

1073158 (V42K-3030-00000)

USED WITH NORMALLY

CLOSED VALVES ONLY

20

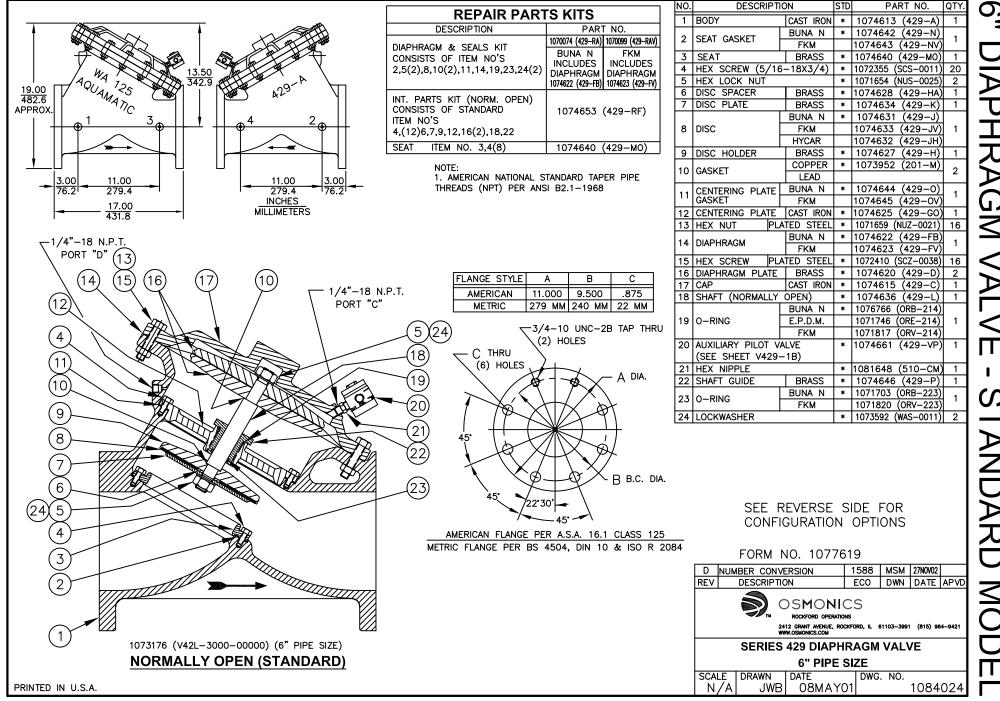
1073151 (V42K-3010-00000)

(1/8" NPT)

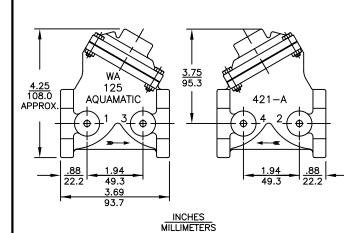
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23)

CONSISTS OF STD ITEM NO'S 36 THRU 40



(USED WITH NORMALLY				NO. DESCRIPTION	STD PART NO. QTY.	O
CLOSED VALVES ONLY)					OP MODEL	
		(1/8" NPT)		25 SCREW 26 O-RING	* 1074660 (429-U) 1 * 1071690 (0RB-112) 1	
(25)				27 NUT	* 1074434 (426–U) 1	
		в" NPT) (34) (33)		28 CAP CAST I		
			(32)			AP
			(35)	I DOL PIPE PLUG	STEEL * 1071918 (PLZ-0008) SS 1071904 (PLB-0009) 1	
			(36)	(1/4 N.P.I.) STN.	STL. 1071915 (PLS-0001)	Ť
				30 SHAFT (NORMALLY CLOS	, , , , ,	HRA
			6			フ
					N. ST. * 1074663 (429–X) 1 RASS * 1074659 (429–TT) 1	
			and Ba	PIPE PLUC PLATED	STEEL * 1071917 (PLZ-0005)	
	(30)			33 (1/8" N.P.T.) BRA STN.		G
	NPT)		Ш <i>У</i>	34 SPRING	* 1074657 (429–SS) 1	Μ
()-				35 O-RING	* 1079839 (ORB-222) 1	
1073184 (V42L-3010-00000)	1073187 (V42L-3030-00	0000) V42L-3002-00000	D		RON * 1074616 (429–CC) 1 ICATOR MODEL	\leq
LIMIT STOP	NORMALLY CLO	SED SPRING ASSIST (CLOSED	37 CAP CAST I		
				38 O-RING	* 1071694 (ORB-128) 1	A
				39 SHAFT GUIDE BUSHING 40 INDICATOR SHAFT	* 1074624 (429-GF) 1 * 1074649 (429-PM) 1	
$\langle 39 \rangle$	CONNECT TO DIAPHRA	AGM VALVES 1/8" N.P.T. CONTROL PRESSURE	(20)	41 O-RING	* 1074649 (429–PM) 1 * 1071688 (ORB–108TC) 1	<
		FROM STAGER/SOLENOID	\smile	42 TOP NUT	* 1074658 (429–TB) 1	
$\left(\begin{array}{c} 41 \end{array}\right)$		<u> </u>	(FROM SHT 429-1F)			
H J	YCYL-(+)			NOTE:		\cap
	EXH.			1. SPRING ASSIST CLO	DSED_MODEL	
			TD01	CANNOT BE COMBINED OR POSITION INDICATO		U U
			RT	2. SPRING ASSIST OP	EN MODEL NOT	
X XIIII	1/4" N.P.T. "EXH." POI CONNECT TO DRAIN (V	DRT VENTED / PRESS VENT) C C	SURED	AVAILABLE.		
		Y Y L L				
	THIS 3-WAY "NORMALI	LY CLOSED" AUXILIARY PILOT VALVE (PAR	T NO. 429-VP)			7
V42L-3020-00000		LL V42L DIAPHRAGM VALVES. IT ACCELERA G SPEED OF THE VALVE.	ATES THE	SEE REVERSE S	IDE FOR	
POSITION INDICATOR				STANDARD NORM	IALLY OPEN MODEL	PTIONAL
	Г	REPAIR PARTS KITS		FORM NO. 107	7619	
		DESCRIPTION	PART NO.	D NUMBER CONVERSION	1588 MSM 27N0V02	
		INT. PARTS KIT (LIMIT STOP)	1074638 (429–LS)	REV DESCRIPTION	ECO DWN DATE APVD	M
CONVERSION DESCRIPTION		INT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 25,26,27	,,,		NICS	
CONVERSION KIT (LIMIT STOP)		INT. PARTS KIT (NORM. CLOSED) CONSISTS OF STANDARD	1074654 (429-RG)	TH ROCKFORD O	PERATIONS	\Box
CONSISTS OF STANDARD ITEM NO'S 25,26		ITEM NO'S 4,(12),6,7,9,12,16(2),22,30		2412 GRANT AVEN WWW.OSMONICS.CO	UE, ROCKFORD, IL 61103-3991 (815) 964-9421 M	
CONVERSION KIT (SPRING ASSIST CLOSED)		INT. PARTS KIT (SPRING ASSIST CLOSED)	1074655 (429-SC)	SERIES 429 DIA	APHRAGM VALVE	
CONSISTS OF STANDARD ITEM NO'S 31 TH		CONSISTS OF STANDARD ITEM NO'S 31,34,35			PE SIZE	
CONVERSION KIT (POSITION INDICATOR) CONSISTS OF STANDARD ITEM NO'S 37 TH		INT. PARTS KIT (POSITION INDICATOR) CONSISTS OF STD ITEM NO'S 37 THRU 42	1074647 (429–PI)	SCALE DRAWN DATE N/A JWB 02M	DWG. NO. AY01 1084024	S l
	- '		1		100102+	



REPAIR PARTS KITS				
DESCRIPTION	PART NO.			
DIAPHRAGM & SEALS KIT CONSISTS OF ITEM NO'S 3(2),5,6,8(2),9,14,16	1070106 (AV1-RA)			
INT. PARTS KIT (NORM. OPEN) CONSISTS OF ITEM NO'S 4,7,10,11(2),17	1075583 (821–RF)			
SEAT (ITEM NO. 2)	1074158 (421-MO)			

ASSEMBLY TOOLS					
DESCRIPTION	PART NO.				
FOR INSTALLATION & REMOVAL OF SEAT (ITEM #2) (TOOL NOT SHOWN)	1074161 (421-MT)				
FOR INSTALLATION & REMOVAL OF SHAFT GUIDE (ITEM #10) (TOOL NOT SHOWN)	1074124 (421-GT)				

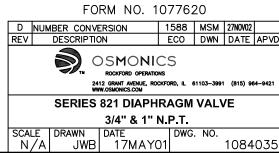
1 E				N	PART NO.	QTY.
' '		CAST BE	2220	3/4" NPT	1074077 (421-AB3)	1
	5001		(A33	1" NPT	1074080 (421-AB4)	
1 2 1 3	SEAT (REQ'S	ASSY TO	DOL)	BRASS	1074158 (421-MO)	1
3 ⊦	HEX L	OCK NU	T (1	/4-28)	1071650 (NUS-0010)	2
4 C	DISC F	PLATE		BRASS	1075590 (821006)	1
5 0)—RIN	G		FKM	1071791 (ORV-024)	1
6 [DISC		HYCAR	1074144 (421–JH)	1	
7 0	DISC HOLDER		BRASS	1074126 (421-H)	1	
8 0	GASKET		COPPER	1073948 (200–GG)	2	
9 0	0-RING		FKM	1071803 (ORV-125)	1	
1101	SHAFT GUIDE (REQ'S ASSY TOOL)		BRASS	1074122 (421–GGO)	1	
11 C	DIAPHF	RAGM PL	ATE	BRASS	1075589 (821005)	2
12 C	CAP		CAS	T BRASS	1074096 (421-CB)	1
13 ⊦	HEX SCREW 1/4-2		0	1080720 (SCS-0142)	4	
14 C	DIAPHRAGM		BUNA N	1074119	1	
15 H	HEX NUT 1/4-20			1071649 (NUS-0007)	4	
16 C	0-RING		AFLAS	1071661 (ORA-110)	1	
17 S	SHAFT	(NORMA	LLY (OPEN)	1075591 (821007)	1

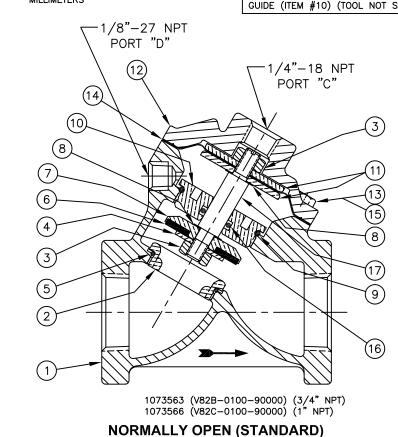
NOTE:

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

2. VALVES AVAILABLE WITH B.S.P. OR J.I.S. END CONNECTIONS.

SEE REVERSE SIDE FOR CONFIGURATION OPTIONS





PRINTED IN U.S.A.

30

-MA	
(V82B-0101-90000) (V82C-0101-90000)	

USED WITH NORMALLY

CLOSED VALVES ONLY

(18

1077458 (V82B-0110-90000) (3/4" NPT)

1073569 (V82C-0110-90000) (1" NPT) LIMIT STOP

8

19)

(20)

(21)

-(1/4" NPT)

(23

(1/8" NPT)

26

SPRING ASSIST OPEN

REPAIR PARTS KITS					
DESCRIPTION	PART NO.				
INT. PARTS KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 18,19,20	1074154 (421–LS)				
INT. PARTS KIT (NORM. CLOSED) CONSISTS OF ITEM NO'S 4,7,10,11(2),23	1075584 (821–RG)				
INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO'S 24,27,28	1074176 (421–SC)				
INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO'S 8,30,31	1074178 (421–S0)				

(1/8" NPT)

-(1/4" NPT)

22

1073564 (V82B-0130-90000) (3/4" NPT)

1073570 (V82C-0130-90000) (1" NPT)

NORMALLY CLOSED

NT. PARTS KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 18,19,20	1074154 (421–LS)
NT. PARTS KIT (NORM. CLOSED) CONSISTS OF ITEM NO'S \$,7,10,11(2),23	1075584 (821–RG)
NT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO'S 24,27,28	1074176 (421–SC)
NT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO'S 8,30,31	1074178 (421–S0)

CONVERSION KITS					
DESCRIPTION	PART NO.				
CONVERSION KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 18 THRU 21	1075582 (821-LSC)				
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO'S 24 THRU 29	1075585 (821-SCC)				
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO'S 8,30,31	1074178 (421–SO)				

LIMIT STOP MODEL						
SCREW		1072361 (SCS-0030)	1			
0-RING		1071668 (ORB-012)	1			
HEX NUT		1077534 (400-H)	1			
CAP	CAST BRASS	1074104 (421-CCCB)	1			
NORMALLY CLOSED MODEL						
PIPE PLUG (1/4" N.P.T.)	BRASS	1071904 (PLB-0009)	1			
SHAFT (NORMALLY CLOSED)		1075592 (821013)	1			
SPRING ASSIST CLOSED MODEL						
CENTERING NUT		1074185 (421-X)	1			
RETAINER NUT	BRASS	1074183 (421–∏)	1			
PIPE PLUG (1/8" N.P.T.)	BRASS	1071903 (PLB-0007)	1			

PART NO.

1074180 (421-SS)

1071674 (ORB-020)

1074175 (421-SB)

CAST BRASS | 1074100 (421-CCB)

COPPER 1073948 (200-GG)

1

1

1

1

DESCRIPTION

NOTE:

NO.

18 19

20

21

22

23

24

25

26

27 SPRING

28 0-RING

8 GASKET

31 SPRING

29 CAP

USED WITH NORMALLY

CLOSED VALVES ONLY

27

28

(26)

1077457 (V82B-0102-90000) (3/4" NPT)

1073568 (V82C-0102-90000) (1" NPT)

SPRING ASSIST CLOSED

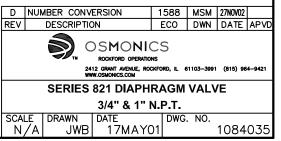
1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP MODEL.

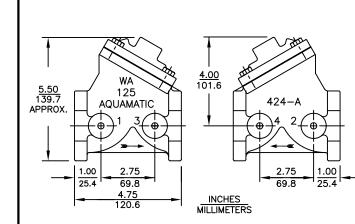
SPRING ASSIST OPEN MODEL 30 CENTERING WASHER | BRASS | 1074147 (421-K)

2. VALVES AVAILABLE WITH B.S.P. OR J.I.S. END CONNECTIONS.

SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL

FORM NO. 1077620

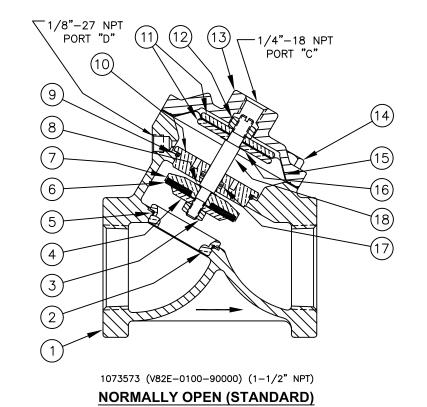




REPAIR PARTS KITS					
DESCRIPTION	PART NO.				
DIAPHRAGM & SEALS KIT CONSISTS OF ITEM NO'S 3,5,6,8,9,12,15,16,17	1075594 (824–RA)				
INT. PARTS KIT (NORM. OPEN) CONSISTS OF ITEM NO'S 4,7,10,11(2),18	1075595 (824–RF)				
SEAT (ITEM NO. 2)	1074245 (424-MO)				

ASSEMBLY TOOLS				
DESCRIPTION	PART NO.			
FOR INSTALLATION & REMOVAL OF SEAT (ITEM #2) (TOOL NOT SHOWN)	1074247 (424-MT)			
FOR INSTALLATION & REMOVAL OF SHAFT GUIDE (ITEM #10) (TOOL NOT SHOWN)	1074227 (424–GT)			

NO.	DESCRIPTIC	NC	PART NO.	QTY.
1	BODY CAST BRASS	1-1/2" NPT	1075601 (824006)	1
2	SEAT (REQ'S ASSY TOOL)	BRASS	1074245 (424-MO)	1
3	HEX LOCK NUT (1/4–28)	1071650 (NUS-0010)	1
4	DISC PLATE	BRASS	1075605 (824009)	1
5	O-RING	FKM	1071793 (ORV-028)	1
6	DISC	HYCAR	1074234 (424–JH)	1
7	DISC HOLDER	BRASS	1074229 (424-H)	1
8	GASKET	COPPER	1073948 (200-GG)	1
9	O-RING	FKM	1071806 (ORV-132)	1
10	SHAFT GUIDE (REQ'S ASSY TOOL)	BRASS	1074225 (424–GGO)	1
11	DIAPHRAGM PLATE	BRASS	1075604 (824008)	2
12	HEX LOCK NUT (5/16-24)	1071651 (NUS-0013)	1
13	CAP CAS	ST BRASS	1075603 (824007)	1
14	HEX SCREW 5/16	-18	1072356 (SCS-0012)	4
15	DIAPHRAGM	BUNA N	1074222 (424-FB)	1
16	GASKET	COPPER	1074252 (424-R)	1
17	O-RING	AFLAS	1071661 (ORA-110)	1
18	SHAFT (NORMALLY	OPEN)	1075606 (824010)	1





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

NOTE:

PRINTED IN U.S.A.

32	

1073574 (V82E-0101-90000) (1-1/2" NPT)

SPRING ASSIST OPEN

1077459 (V82E-0110-90000) (1-1/2" NPT) LIMIT STOP

(16)

22 23

(21)

(1/4" NPT)

USED WITH NORMALLY CLOSED VALVES ONLY (1/8" NPT) (20

28

NORMALLY CLOSED

1073575 (V82E-0102-90000) (1-1/2" NPT) SPRING ASSIST CLOSED

√(1/4" NPT)	(1/8" NPT) - CLOSED WITH NORMALLY CLOSED VALVES ONLY
1073576 (V82E-0130-90000) (1-1/2" NPT)	1073575 (V82E-0102-90000) (1-1/2" NPT)

20	SCREW			1072362 (SCS-0031)	1
21	0-RING			1071668 (ORB-012)	
22	HEX NUT			1077534 (400-H)	1
23	CAP	CAS	ST BRASS	1075608 (824012)	1
	NORMA	LLY	CLOSE	D MODEL	
24	PIPE PLUG (1/4" N.P.T.)		BRASS	1071904 (PLB-0009)	1
25	SHAFT (NORMA	LLY	CLOSED)	1075610 (824015)	1
	SPRING A	SSI	ST CLOS	ED MODEL	
26	CENTERING NU	T		1074276 (424-X)	1
27	RETAINER NUT		BRASS	1074274 (424-TT)	1
28	PIPE PLUG (1/8" N.P.T.)		BRASS	1071903 (PLB-0007)	1
29	SPRING			1074270 (424–SS)	1
30	0-RING			1071674 (ORB-020)	1
31	CAP	CAS	ST BRASS	1075607 (824011)	1
	SPRING	ASS	SIST OPE	N MODEL	
32	CENTERING WAS	HER	BRASS	1074083 (421-AH)	1
16	GASKET		COPPER	1074252 (424-R)	1
33	SPRING			1074264 (424–S)	1

PART NO.

NOTE:

NO.

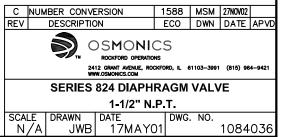
DESCRIPTION

LIMIT STOP MODEL

1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP MODEL.

SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL

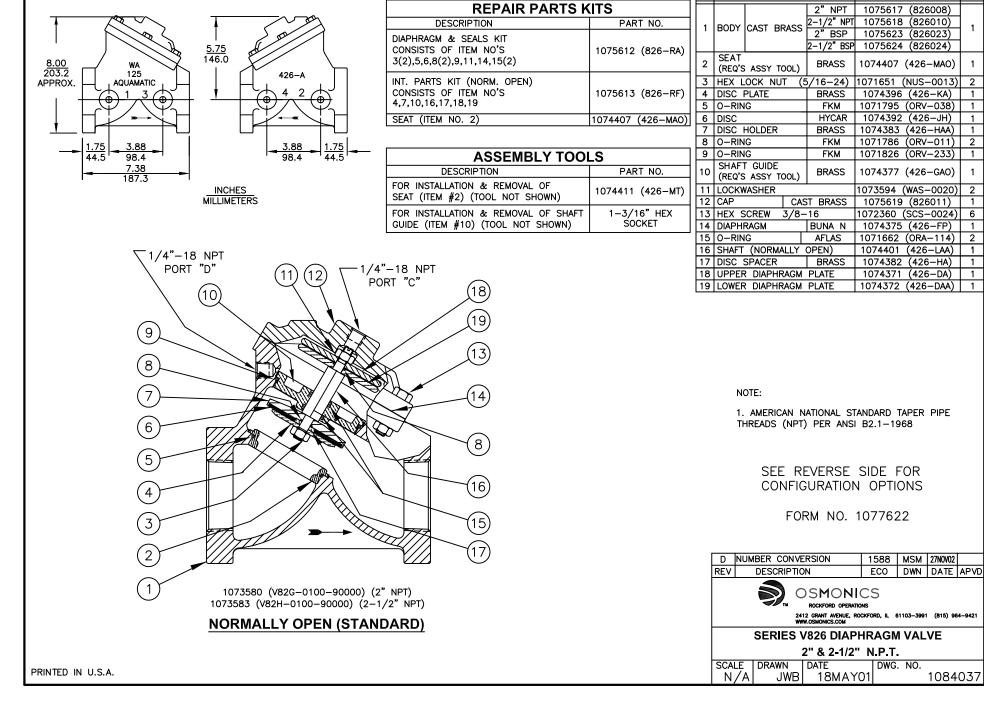
FORM NO. 1077621



QTY. 2" HIGH PRESSURE VALVE - OPTIONAL MODE S

REPAIR PARTS KITS					
DESCRIPTION	PART NO.				
INT. PARTS KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 20,21,22	1074242 (424–LS)				
INT. PARTS KIT (NORM. CLOSED) CONSISTS OF ITEM NO'S 4,7,10,11(2),25	1075596 (824–RG)				
INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO'S 26,29,30	1074265 (424–SC)				
INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO'S 16,32,33	1074268 (424–SO)				

CONVERSION KITS				
DESCRIPTION	PART NO.			
CONVERSION KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 20 THRU 23	1075593 (824–LSC)			
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO'S 26 THRU 31	1075597 (824–SCC)			
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO'S 16,32,33	1074268 (424–SO)			



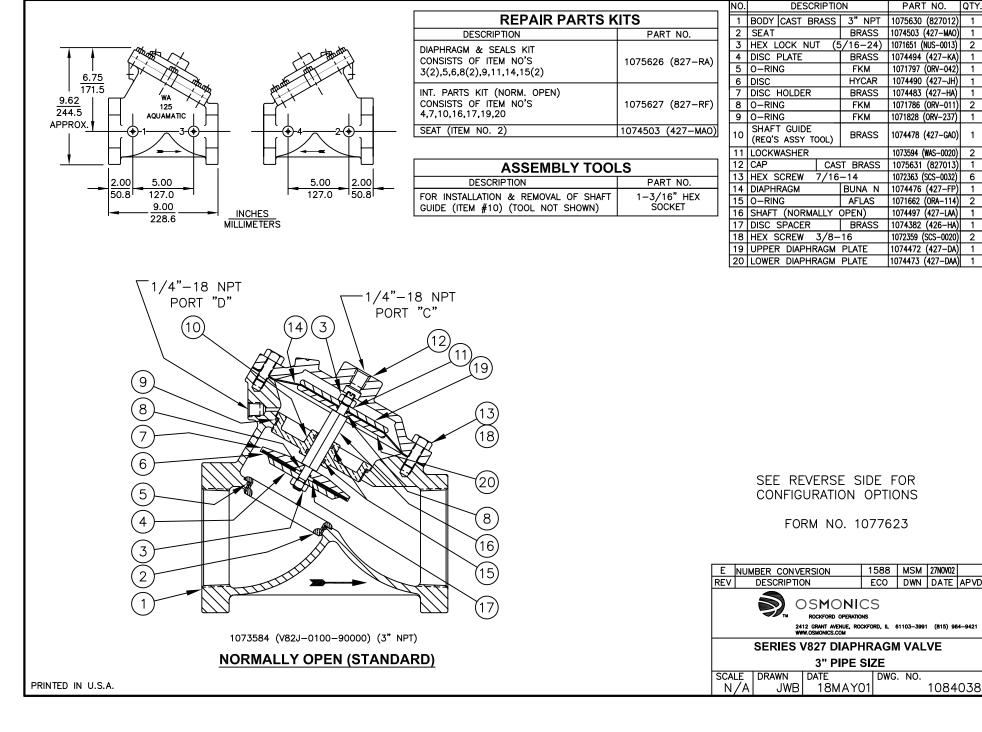
NO.

DESCRIPTION

PART NO.

QTY.

			NO. DESCRIPTION PART NO. Q	TY.
			LIMIT STOP MODEL	
			20 SCREW 1072364 (SCS-0042)	1
V USED WITH NORMALLY	√(1/4" NPT)	(USED WITH NORMALLY	21 O-RING 1071690 (ORB-112) 22 HEX NUT 1074434 (426-U)	1
CLOSED VALVES ONLY (1/8" NPT)		CLOSED VALVES UNLT)	23 CAP CAST BRASS 1075622 (826018)	1
			NORMALLY CLOSED MODEL	1
			/8" NPT) 24 PIPE PLUG BRASS 1071904 (PLB-0009)	1
$X \qquad \frown \qquad \checkmark$		(27)	25 SHAFT (NORMALLY CLOSED) 1074403 (426–LLA)	<u>.</u>
			SPRING ASSIST CLOSED MODEL	<u> </u>
		(26)	26 RETAINER NUT BRASS 1074431 (426-TTA)	1
	(24)		27 (127 HER KIGT BRASS 1071903 (PLB-0007)	<u>_</u>
		(29)	[[(1/8" N.P.I.)] · · · · · · · · · · · · · · · · · ·	<u> </u>
		(28)	28 SPRING 1074429 (426–SSB) 29 O–RING 1071677 (ORB–025)	1
			30 CAP CAST BRASS 1075621 (826017)	1
		30	SPRING ASSIST OPEN MODEL	
KANA KANA			31 SPRING 1074423 (426-S)	1
	25			
1077461 (V82G-0110-90000) (2" NPT) 1077	7462 (V82G-0130-90000) (2" NPT)	V82G-0102-90000 (2" NPT)		1 1 1
	50 (V82H-0130-90000) (2-1/2" NPT)	V82H-0102-90000 (2-1/2" NPT)		
	ORMALLY CLOSED	SPRING ASSIST CLOSED		
(1 /4" NPT)		IR PARTS KITS		
(1/4" NPT)	DESCRIPTION	PART NO.	NOTE	
(1/4" NPT)		PART NO.	NOTE:	
(1/4" NPT)	DESCRIPTION INT. PARTS KIT (LIMIT STOI CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (NORM. CL	P) 20,21,22 LOSED)	NOTE: 1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP	
	DESCRIPTION INT. PARTS KIT (LIMIT STO CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (NORM. CL CONSISTS OF ITEM NO'S	P) 1074406 (426–LS) 20,21,22	1. SPRING ASSIST CLOSED MODEL	
(1/4" NPT)	DESCRIPTION INT. PARTS KIT (LIMIT STO CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (NORM. CL CONSISTS OF ITEM NO'S 4,7,10,16,17,18,19,25	PART NO. P) 1074406 (426–LS) 20,21,22 1075614 (826–RG) LOSED) 1075614 (826–RG)	1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP	
	DESCRIPTION INT. PARTS KIT (LIMIT STOI CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (NORM. CL CONSISTS OF ITEM NO'S 4,7,10,16,17,18,19,25 INT. PARTS KIT (SPRING A	PART NO. P) 1074406 (426–LS) 20,21,22 1075614 (826–RG) .OSED) 1075614 (826–RG) .SSIST CLOSED) 1070513 (AV6–SC)	1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP MODEL.	
	DESCRIPTION INT. PARTS KIT (LIMIT STOL CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (NORM. CL CONSISTS OF ITEM NO'S 4,7,10,16,17,18,19,25 INT. PARTS KIT (SPRING A CONSISTS OF ITEM NO'S 2	PART NO. P) 1074406 (426–LS) 20,21,22 1075614 (826–RG) LOSED) 1075614 (826–RG) SSIST CLOSED) 1070513 (AV6–SC) 26,28,29 200514 (826–RG)	1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP MODEL. SEE REVERSE SIDE FOR	
	DESCRIPTION INT. PARTS KIT (LIMIT STOI CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (NORM. CL CONSISTS OF ITEM NO'S 4,7,10,16,17,18,19,25 INT. PARTS KIT (SPRING A	PART NO. P) 1074406 (426–LS) 20,21,22 1075614 (826–RG) .OSED) 1075614 (826–RG) .SSIST CLOSED) 1070513 (AV6–SC) 26,28,29 1075616 (826 - SC)	1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP MODEL.	
	DESCRIPTION INT. PARTS KIT (LIMIT STOI CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (NORM. CL CONSISTS OF ITEM NO'S 4,7,10,16,17,18,19,25 INT. PARTS KIT (SPRING A CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (SPRING A	PART NO. P) 1074406 (426–LS) 20,21,22 1075614 (826–RG) .OSED) 1075614 (826–RG) .SSIST CLOSED) 1070513 (AV6–SC) 26,28,29 1075616 (826 - SC)	1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP MODEL. SEE REVERSE SIDE FOR	
	DESCRIPTION INT. PARTS KIT (LIMIT STOI CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (NORM. CL CONSISTS OF ITEM NO'S 4,7,10,16,17,18,19,25 INT. PARTS KIT (SPRING A CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (SPRING A	PART NO. P) 1074406 (426–LS) 20,21,22 1075614 (826–RG) .OSED) 1075614 (826–RG) .SSIST CLOSED) 1070513 (AV6–SC) 26,28,29 1075616 (826 - SC)	1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP MODEL. SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL	
	DESCRIPTION INT. PARTS KIT (LIMIT STO CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (NORM. CL CONSISTS OF ITEM NO'S 4,7,10,16,17,18,19,25 INT. PARTS KIT (SPRING A: CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (SPRING A: CONSISTS OF ITEM NO. 31	PART NO. P) 1074406 (426–LS) 20,21,22 1075614 (826–RG) .OSED) 1075614 (826–RG) .SSIST CLOSED) 1070513 (AV6–SC) 26,28,29 1075616 (826 - SC)	1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP MODEL. SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL FORM NO. 1077622	
	DESCRIPTION INT. PARTS KIT (LIMIT STO CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (NORM. CL CONSISTS OF ITEM NO'S 4,7,10,16,17,18,19,25 INT. PARTS KIT (SPRING A: CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (SPRING A: CONSISTS OF ITEM NO. 31	PART NO. P) 1074406 (426–LS) 20,21,22 1075614 (826–RG) LOSED) 1075614 (826–RG) SSIST CLOSED) 1070513 (AV6–SC) 26,28,29 1075616 (826–SO) NVERSION KITS	1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP MODEL. SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL	
	DESCRIPTION INT. PARTS KIT (LIMIT STOI CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (NORM. CL CONSISTS OF ITEM NO'S 4,7,10,16,17,18,19,25 INT. PARTS KIT (SPRING A: CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (SPRING A: CONSISTS OF ITEM NO. 31 CONSISTS OF ITEM NO. 31 DESCRIPTI CONVERSION KIT (LIMIT ST	PART NO. P) 1074406 (426–LS) 20,21,22 1075614 (826–RG) LOSED) 1075614 (826–RG) SSIST CLOSED) 1070513 (AV6–SC) 26,28,29 1075616 (826–SO) SSIST OPEN) 1075616 (826–SO) NVERSION KITS 100 ION PART NO. OP) 1075611 (826–I SC)	1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP MODEL. SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL FORM NO. 1077622 D NUMBER CONVERSION 1588 MSM 27N0W2 REV DESCRIPTION ECO DWN DATE AF	- - - VD
1073581 (V826-0101-90000) (2" NPT) V82H-0101-90000 (2-1/2" NPT)	DESCRIPTION INT. PARTS KIT (LIMIT STOI CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (NORM. CL CONSISTS OF ITEM NO'S 4,7,10,16,17,18,19,25 INT. PARTS KIT (SPRING A: CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (SPRING A: CONSISTS OF ITEM NO. 31 DESCRIPTI CONVERSION KIT (LIMIT STI CONSISTS OF ITEM NO'S 2	PART NO. P) 1074406 (426–LS) 20,21,22 1075614 (826–RG) LOSED) 1075614 (826–RG) SSIST CLOSED) 1070513 (AV6–SC) 26,28,29 1070513 (AV6–SC) SSIST OPEN) 1075616 (826–SO) IVERSION KITS ION ION PART NO. OP) 1075611 (826–LSC)	1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP MODEL. SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL FORM NO. 1077622 D NUMBER CONVERSION 1588 MSM REV DESCRIPTION ECO DWN	- - - VD
1073581 (V826-0101-90000) (2" NPT)	DESCRIPTION INT. PARTS KIT (LIMIT STOI CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (NORM. CL CONSISTS OF ITEM NO'S 4,7,10,16,17,18,19,25 INT. PARTS KIT (SPRING A: CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (SPRING A: CONSISTS OF ITEM NO. 31 DESCRIPTI CONVERSION KIT (LIMIT ST CONSISTS OF ITEM NO'S 2 CONVERSION KIT (SPRING	PART NO. P) 1074406 (426–LS) 20,21,22 1075614 (826–RG) LOSED) 1075614 (826–RG) SSIST CLOSED) 1070513 (AV6–SC) 26,28,29 1070513 (AV6–SC) SSIST OPEN) 1075616 (826–SO) NVERSION KITS 100 ION PART NO. IOP 1075611 (826–LSC) ASSIST CLOSED) 1075615 (826–SCC)	1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP MODEL. SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL FORM NO. 1077622 D NUMBER CONVERSION 1588 MSM 27N0W2 REV DESCRIPTION ECO DWN DATE AF	- 2VD
1073581 (V826-0101-90000) (2" NPT) V82H-0101-90000 (2-1/2" NPT)	DESCRIPTION INT. PARTS KIT (LIMIT STOI CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (NORM. CL CONSISTS OF ITEM NO'S 4,7,10,16,17,18,19,25 INT. PARTS KIT (SPRING A: CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (SPRING A: CONSISTS OF ITEM NO. 31 DESCRIPTI CONVERSION KIT (LIMIT STI CONSISTS OF ITEM NO'S 2 CONVERSION KIT (SPRING CONSISTS OF ITEM NO'S 2	PART NO. P) 1074406 (426–LS) 20,21,22 1075614 (826–RG) .OSED) 1075614 (826–RG) .SSIST CLOSED) 1070513 (AV6–SC) 26,28,29 1070513 (AV6–SC) .SSIST OPEN) 1075616 (826–SO) INVERSION KITS 1075616 (826–LSC) .OSP) 1075611 (826–LSC) .ASSIST CLOSED) 1075615 (826–SCC) .ASSIST OPEN) 1075615 (826–SCC)	1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP MODEL. SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL FORM NO. 1077622 DIVENTION 1588 MSM 27N0W2 REV DESCRIPTION 1588 MSM 27N0W2 REV DESCRIPTION ECO DWN DATE AF	- -
1073581 (V82G-0101-90000) (2" NPT) V82H-0101-90000 (2-1/2" NPT)	DESCRIPTION INT. PARTS KIT (LIMIT STOI CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (NORM. CL CONSISTS OF ITEM NO'S 4,7,10,16,17,18,19,25 INT. PARTS KIT (SPRING A: CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (SPRING A: CONSISTS OF ITEM NO. 31 DESCRIPTI CONVERSION KIT (LIMIT ST CONSISTS OF ITEM NO'S 2 CONVERSION KIT (SPRING	PART NO. P) 1074406 (426–LS) 20,21,22 1075614 (826–RG) LOSED) 1075614 (826–RG) SSIST CLOSED) 1070513 (AV6–SC) 26,28,29 1070513 (AV6–SC) SSIST OPEN) 1075616 (826–SO) NVERSION KITS 1075616 (826–SO) ION PART NO. OP) 1075611 (826–LSC) ASSIST CLOSED) 1075615 (826–SCC) ASSIST OPEN) 1075615 (826–SCC)	1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP MODEL. SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL FORM NO. 1077622 D NUMBER CONVERSION 1588 MSM 27N0V02 REV DESCRIPTION ECO DWN DATE AF OCKFORD OPENITONS 2412 GRMT AVENUE, ROCKFORD, IL 61103-3991 (615) 964-94 WWW.OSMONICS COM	- - - VD
1073581 (V82C-0101-90000) (2" NPT) V82H-0101-90000 (2-1/2" NPT)	DESCRIPTION INT. PARTS KIT (LIMIT STOI CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (NORM. CL CONSISTS OF ITEM NO'S 4,7,10,16,17,18,19,25 INT. PARTS KIT (SPRING A: CONSISTS OF ITEM NO'S 2 INT. PARTS KIT (SPRING A: CONSISTS OF ITEM NO. 31 DESCRIPTI CONVERSION KIT (LIMIT STI CONVERSION KIT (LIMIT STI CONVERSION KIT (SPRING CONSISTS OF ITEM NO'S 2 CONVERSION KIT (SPRING CONSISTS OF ITEM NO'S 2	PART NO. P) 1074406 (426–LS) 20,21,22 1075614 (826–RG) LOSED) 1075614 (826–RG) SSIST CLOSED) 1070513 (AV6–SC) 26,28,29 1070513 (AV6–SC) SSIST OPEN) 1075616 (826–SO) NVERSION KITS 1075616 (826–SO) ION PART NO. OP) 1075611 (826–LSC) ASSIST CLOSED) 1075615 (826–SCC) ASSIST OPEN) 1075615 (826–SCC)	1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP MODEL. SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL FORM NO. 1077622 DIVENTION 1588 MSM 27N0V02 REV DESCRIPTION 1588 MSM 27N0V02 REV DESCRIPTION ECO DWN DATE AF CONTORED OPERATIONS 2412 CONTA VEDUCE ROCKTORD, IL 61103-3991 (615) 964-94 WWW.OSMONICS.COM	



QTY. ധ G. U U Π **USS** JRE VALVE I. STANDARD MOE

			LIMIT STOP MODEL	
	(1/4" NPT) (1/8" NPT	(USED WITH NORMALLY CLOSED VALVES ONLY)	20 SCREW 1072365 (SCS-0043) 1 21 O-RING 1071690 (ORB-112) 1 22 HEX NUT 1074434 (426-U) 1 23 CAP CAST BRASS 1075633 (827019) 1	HIGH
	24 26 29 26 29 29 29 29 29 29 29 29 29 29 29 29 29	27 28 30	NORMALLY CLOSED MODEL 24 PIPE PLUG (1/4" N.P.T.) BRASS 1071904 (PLB-0009) 1 25 SHAFT (NORMALLY CLOSED) 1074500 (427-LLA) 1 SPRING ASSIST CLOSED MODEL 26 RETAINER NUT BRASS 1071903 (PLB-0007) 1 27 PIPE PLUG (1/8" N.P.T.) BRASS 1071903 (PLB-0007) 1 28 SPRING 1071677 (ORB-025) 1 30 CAP CAST BRASS 1075632 (827018) 1 SPRING ASSIST OPEN MODEL 31 CENTERING WASHER BRASS 1074423 (426-V) 1 32 SPRING 1074423 (426-S) 1	H PRESSURE
•		90000 (3" NPT) SIST CLOSED	NOTE: 1. SPRING ASSIST CLOSED MODEL	: VALVE -
	INT. PARTS KIT (LIMI STOP) CONSISTS OF ITEM NO'S 20,21,22 INT. PARTS KIT (NORM. CLOSED) CONSISTS OF ITEM NO'S 4,7,10,17,19,20,25 INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO'S 28,29 INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO'S 31,32	1074501 (427–LS) 1075628 (827–RG) AV7–SC 1070520 (AV7–S0)	CANNOT BE COMBINED WITH LIMIT STOP MODEL. SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL FORM NO. 1077623	OPTION
	CONVERSION KIT DESCRIPTION CONVERSION KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 20 THRU 23 CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO'S 26 THRU 30	PART NO. 1075625 (827–LSC) 1075629 (827–SCC)	E NUMBER CONVERSION 1588 MSM 27N0V02 REV DESCRIPTION ECO DWN DATE APVD OSMONICS 2412 GRWT AVENUE, ROCKFORD, IL 61103-3991 (815) 964-9421 WWW.GSMINGSCOM	OPTIONAL MODEL
	CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO'S 31,32	1070520 (AV7-S0)	SERIES 827 DIAPHRAGM VALVE 3" N.P.T. SCALE DRAWN DATE DVA JWB 18MAY01 1084038	ELS

NO.

DESCRIPTION

PART NO.

(1/4" NPT) 31 32

1081151 (V82J-0110-90000) (3" NPT)

LIMIT STOP

USED WITH NORMALLY CLOSED VALVES ONLY

(20)

(22)

(21)

(1/8" NPT)

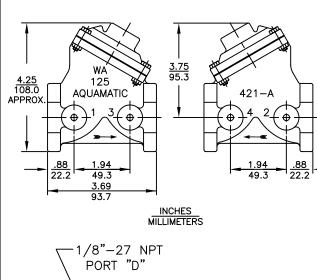
(27

1077463 (V82J-0101-90000) (3" NPT)

SPRING ASSIST OPEN

PRINTED IN U.S.A.

QTY.



			١	N
REPAIR P	ARTS KITS		F	1
DESCRIPTION	PAR	T NO.	L	
DIAPHRAGM & SEALS KIT CONSISTS OF ITEM NO'S	1070106 (AV1-RA) INCLUDES	1070498 (AV1-RAHT) INCLUDES		2
3(2),5,6,8(2),9,14,16	DISC 1074144 (421-JH), DIAPHRAGM	DISC 1074145 (421–JT), DIAPHRAGM	E	3 4
	1074119	1074120	Γ	5
INT. PARTS KIT (NORM. OPEN) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),17	1070118	(421–RF)		6
SEAT (ITEM NO. 2)	1074158	(421-MO)		7
			1	•

ASSEMBLY TOOLS				
DESCRIPTION	PART NO.			
FOR INSTALLATION & REMOVAL OF SEAT (ITEM #2) (TOOL NOT SHOWN)	1074161 (421-MT)			
FOR INSTALLATION & REMOVAL OF SHAFT GUIDE (ITEM #10) (TOOL NOT SHOWN)	1074124 (421-GT)			

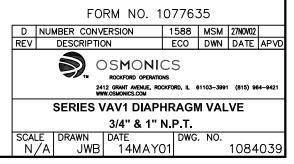
,	NO.	DESCRIPTION			STD	PART NO.	QTY.		
		1 BODY CAST IRON		~	3/4" NPT	*	1074085 (421-A3)	1	
1			UN	1" NPT	*	1074088 (421-A4)			
	2	SEAT (REQ'S ASSY TOOL)		OL)	BRASS	*	1074158 (421-MO)	1	
	3	HEX L	OCK NUT	· (1	/4–28)	*	1071650 (NUS-0010)	2	
	4	DISC F	PLATE		BRASS	*	1074147 (421–K)	1	
	5	0-RIN	G		FKM	*	1071791 (ORV-024)	1	
				HYC.	AR	*	1074144 (421–JH)		
	6	DISC		AFL	AS		1074141 (421–JA)	1	
			GLASS	FILLE	D TEFLON		1074145 (421–JT)		
1	7	DISC F	IOLDER		BRASS	*	1074126 (421-H)	1	
1	8 9 10	GASKET O-RING SHAFT GUIDE (REQ'S ASSY TOOL)			COPPER	*	1073948 (200-GG)	2	
					FKM	*	1071803 (ORV-125)	1	
				OL)	BRASS	*	1074122 (421–GGO)	1	
	11	DIAPHF	RAGM PLA	λΤΕ	BRASS	*	1074117 (421-D)	2	
	12	CAP		CA	ST IRON	*	1074093 (421-C)	1	
	13	HEX S 1/4"-		PLA	TED STEEL	*	1072398 (SCZ-0004)	4	
	14 15	DIAPHE	ACM		BUNA N	*	1074119	1	
		DIAFHI	AGINI		FKM		1074120		
		HEX N 1/4"-			TED STEEL	*	1071656 (NUZ-0008)	4	
	16	0-RIN	G	- T	AFLAS	*	1071661 (ORA-110)	1	
	17	SHAFT	(NORMA	LY	OPEN)	*	1074150 (421-L)	1	

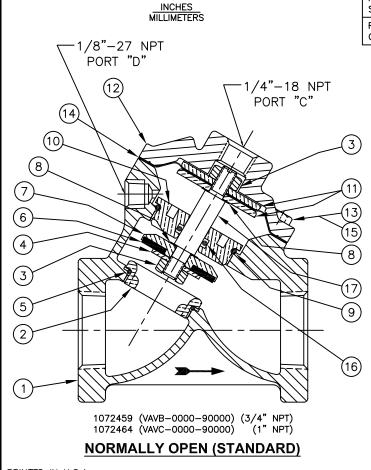
NOTE:

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

2. VALVES AVAILABLE WITH B.S.P. OR J.I.S. END CONNECTIONS.

SEE REVERSE SIDE FOR CONFIGURATION OPTIONS

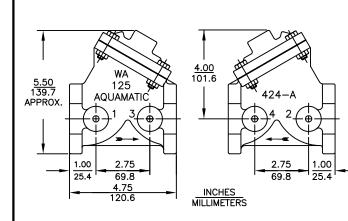




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3/4" & 1" AIR VALVE STANDARD MO

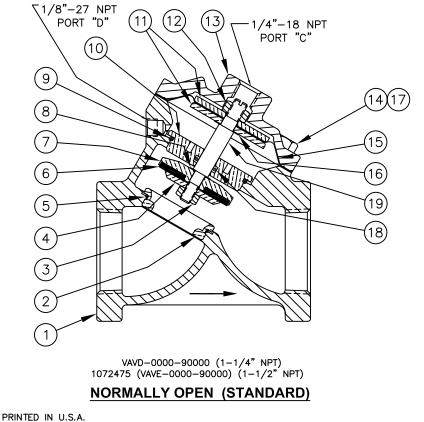
		NO.	DESCRIPTION STD PART NO.	
<u> </u>			NORMALLY CLOSED MODEL	
(1/8" NPT)			IPE PLUG /4" N.P.T.) PLATED STEEL * 1071918 (PLZ-0008)	4
			AFT (NORMALLY CLOSED) * 1074153 (421–LL)	1
			SPRING ASSIST CLOSED MODEL	
			NTERING NUT * 1074185 (421–X)	1
		P	FAINER NUT BRASS * 1074183 (421-TT) IPE PLUG PRASS * 1074183 (421-TT)	
(1/8" NPT)	USED WITH NORMALLY CLOSED VALVES ONLY	26 (1/	/8" N.P.T.) BRASS * 10/1903 (PLB-0007)	1 🗧
V+Letter S		27 SPF		
23 25	\mathcal{L}	28 O-F 29 CAP		
			SPRING ASSIST OPEN MODEL	
			C PLATE BRASS * 1074147 (421–K)	
		8 GAS		
		31 SPR	RING * 1074175 (421–SB)	└- <
		(1/4" NPT)		
1072462 (VAVB-0030-90000) (3/4" NPT)				
1072402 (WVB-0030-90000) (3/4 WT)		\backslash		
NORMALLY CLOSED				
		7 \		
(1/8" NPT)				
		$\langle \Sigma \rangle$		
1072461 (VAVB-000	-90000) (3/4" NPT)	\sim		
1072467 (VAVC-000	-90000) (1" NPT)	»{/		
SPRING ASS	IST CLOSED			
		y		$ \subseteq$
	(1/8" NPT)			P
	1070056 (VAVB-0001-90000) (3/4" N	NPT)		
	1070060 (VAVC-0001-90000) (1" N	NPT)		
	SPRING ASSIST OPE	EN		
			SEE REVERSE SIDE FOR	
			STANDARD NORMALLY OPEN MODE	
			FORM NO. 1077635	1.
			D NUMBER CONVERSION 1588 MSM 27N0V02	
	REPAIR PARTS KITS		REV DESCRIPTION ECO DWN DATE	
		PART NO.		
CONVERSION KITS	INT. PARTS KIT (NORM. CLOSED)	70129 (421-RG)		
DESCRIPTION PAR			2412 GRANT AVENUE, ROCKFORD, IL 61103-3991 (815) 96 WWW.OSMONICS.COM	4-9421
CONVERSION KIT (SPRING ASSIST CLOSED)	INT. PARTS KIT (SPRING ASSIST CLOSED)	74176 (421–SC)	SERIES VAV1 DIAPHRAGM VALVE	
CONSISTS OF STANDARD ITEM NO'S 24 THRU 29	CONSISTS OF STANDARD ITEM NO'S 24,27,28	(+21-30)	3/4" & 1" N.P.T.	
CONVERSION KIT (SPRING ASSIST OPEN) 1074179 (4	1-SOC) INT. PARTS KIT (SPRING ASSIST OPEN) 1074	74178 (421–SO)	SCALE DRAWN DATE DWG. NO.	039
CONSISTS OF STANDARD ITEM NO'S 4,8,10,31	CONSISTS OF STANDARD ITEM NO'S 4,8,31	. /	N/A JWB 14MAY01 1084	728 01



		N			
REPAIR PARTS KITS					
DESCRIPTION	PART NO.				
DIAPHRAGM & SEALS KIT CONSISTS OF ITEM NO'S 3,5,6,8,9,12,15,16,18	1070107 (AV4-RA) 1070502 (AV4-RAHT) INCLUDES DISC 1074234 (424-JH), DISC 1074235 (424-JT), DIAPHRAGM 1074222 (424-FB) 1074224 (424-FV)				
INT. PARTS KIT (NORM. OPEN) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),19	1070119 (424–RF)	e			
SEAT (ITEM NO. 2)	1074245 (424-MO)				

ASSEMBLY TOOLS				
DESCRIPTION PART NO.				
FOR INSTALLATION & REMOVAL OF SEAT (ITEM #2) (TOOL NOT SHOWN)	1074247 (424-MT)			
FOR INSTALLATION & REMOVAL OF SHAFT GUIDE (ITEM #10) (TOOL NOT SHOWN)	1074227 (424–GT)			

_	NO.		DESCR	IPTIC	DN	STD	PART NO.	QTY.
	1	BODY	CAST IF	ON	1-1/4" NPT		1074196 (424-A5)	1
				0/101 111011		*	1074199 (424–A6)	
HT)	2	SEAT (REQ'S	ASSY TO	0L)	BRASS	*	1074245 (424-MO)	1
JT),	3	HEX L	OCK NUT	• (1	/4–28)	*	1071650 (NUS-0010)	1
	4	DISC F	PLATE		BRASS	*	1074237 (424-K)	1
FV)	5	0-RIN	G		FKM	*	1071793 (ORV-028)	1
				HYC.	AR	*	1074234 (424-JH)	
	6	DISC		AFL	AS			1
			GLASS	D TEFLON		1074235 (424-JT)		
	7	DISC F	IOLDER	BRASS	*	1074229 (424-H)	1	
	8	GASKE	Т		COPPER	*	1073948 (200-GG)	1
	9	0-RIN	G		FKM	*	1071806 (ORV-132)	1
1	10		GUIDE		BRASS	*	1074225 (424-GGO)	1
-		(REQ'S	ASSY TO	OL)				-
-	11	DIAPHF	RAGM PL	ATE	BRASS	*	1074220 (424-D)	
	12	HEX L	OCK NUT	· (5	5/16-24)	*	1071651 (NUS-0013)	1
1	13	CAP		CA	ST IRON	*	1074202 (424–C)	1
	14	HEX S 1/4"-		PLA	TED STEEL	*	1072399 (SCZ-0007)	4
-	15	DIAPHE			BUNA N	*	1074222 (424-FB)	1
	15	DIAPHT	(AGM		FKM		1074224 (424-FV)	
	16	GASKE	Т		COPPER	*	1074252 (424-R)	1
	17	HEX N 1/4"-		TED STEEL		1071656 (NUZ-0008)	4	
	18	0-RIN	G	AFLAS	*	1071661 (ORA-110)	1	
	19	SHAFT	(NORMA	LLY	OPEN)	*	1074239 (424-L)	1
	[19	SHAFT			UPEN)	*	10/4239 (424-L)	

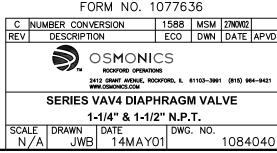


NOTE:

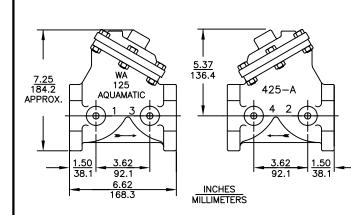
1. AMERICAN NATIONAL STANDARD TAPER PIPE THREADS (NPT) PER ANSI B2.1-1968

2. VALVES AVAILABLE WITH B.S.P. OR J.I.S. END CONNECTIONS.

SEE REVERSE SIDE FOR CONFIGURATION OPTIONS



	NO. DESCRIPTION STD PART NO. QTY.
(1/8" NPT) (1/4" NPT)	24 PIPE PLUG PLATED STEEL * 1071918 (PLZ-0008) 1
	24 (1/4" N.P.T.) PLATED STEEL * 1071918 (PLZ-0008) 1 25 SHAFT (NORMALLY CLOSED) * 1074241 (424-LL) 1 SPRING ASSIST CLOSED MODEL * 1074241 1
(24)	SPRING ASSIST CLOSED MODEL
	26 CENTERING NUT * 1074276 (424–X) 1 27 RETAINER NUT RPASS * 1074276 (424–T) 1
	27 RETAINER NUT BRASS * 1074274 (424-TT) 1
	28 PIPE PLUG (1/8" N.P.T.) BRASS * 1071903 (PLB-0007) 1
(1/8" NPT) CLOSED VALVES ONLY	29 SPRING * 1074270 (424–SS) 1
	30 O-RING * 1071674 (ORB-020) 1
	31 CAP CAST IRON * 1074208 (424-CC) 1 SPRING ASSIST OPEN MODEL
	16 GASKET COPPER * 1074252 (424-R) 1
∇	32 SPRING * 1074264 (424–S) 1
	33 CENTERING WASHER BRASS * 1074382 (426-HA) 1
	(1/4" NPT)
VAVD-0030-90000 (1-1/4" NPT) 1072479 (VAVE-0030-90000) (1-1/2" NPT)	33 CENTERING WASHER BRASS * 1074382 (426-HÁ) 1 (1/4" NPT) 16 16 16 16 16 1074382 (426-HÁ) 1 16 16 16 16 16 16 16 16 16 1
NORMALLY CLOSED	
(32) (32)	
1072472 (VAVD-0002-90000) (1-1/4" NPT)	
1072477 (VAVE-0002-90000) (1-1/2" NPT)	
SPRING ASSIST CLOSED	
∠ (1/8" NPT)	
1072471 (VAVD-0001-	90000) (1-1/4" NPT)
1070064 (VAVE-0001-	90000) (1-1/2" NPT)
SPRING AS	
	SEE REVERSE SIDE FOR
	STANDARD NORMALLY OPEN MODEL
REPAIR PARTS	C NUMBER CONVERSION 1588 MSM 27N0/02 REV DESCRIPTION ECO DWN DATE APVD
DESCRIPTION	PART NO.
CONVERSION KITS INT. PARTS KIT (NORM. CLOSED)	
CONVERSION KITS CONSISTS OF STANDARD DESCRIPTION PART NO. ITEM NO'S 4,7,10,11(2),25	1070130 (424-RG) 2412 GRANT AVENUE, ROCKFORD DEPERATIONS 2412 GRANT AVENUE, ROCKFORD DEPERATIONS
CONVERSION KIT (SPRING ASSIST CLOSED)	SED) SERIES VAVA DIAPHRAGM VALVE
CONSISTS OF STANDARD ITEM NO'S 26 THRU 31 1074266 (424-SCC) CONSISTS OF STANDARD ITEM NO'S	
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 10.16.32.33	
CONSISTS OF STANDARD ITEM NO'S 10,16,32,33	16,32,33 10/4268 (424-30) N/A JWB 14MAY01 1084040



			N	0.			
	REPAIR PARTS KITS						
	DESCRIPTION	PART NO.		2			
	DIAPHRAGM & SEALS KII	1070108 (AV5-RA) 1070503 (AV5-RAHT)	Ľ	-	(
		INCLUDES INCLUDES		3	ŀ		
		DISC 1074310 (425-JH), DISC 1074311 (425-JT),		4	C		
		DIAPHRAGM DIAPHRAGM 1074296 (425-FB) 1074297 (425-FV)	5	5	C		
		10/4296 (425-FB) 10/4297 (425-FV)					
	INT. PARTS KIT (NORM. OPEN)		6	3	C		
	CONSISTS OF STANDARD	1070120 (425-RF)					
	ITEM NO'S 4,7,10,11,17,18,19,20			<u>/</u>	۵		
	SEAT (ITEM NO. 2)	1074321 (425-MO)	1	3	C		

ASSEMBLY TOOLS					
DESCRIPTION	PART NO.				
FOR INSTALLATION & REMOVAL OF SEAT (ITEM #2) (TOOL NOT SHOWN)	1074411 (426-MT)				
FOR INSTALLATION & REMOVAL OF SHAFT GUIDE (ITEM #10) (TOOL NOT SHOWN)	1074299 (425–GAT)				

,	NO.	DESCRIPTION					PART NO.	QTY.	
	1	BODY CAST IRON		2" NPT	*	1074277 (425-A)	1	N	
	2	SEAT (REQ'S	ASSY TO	BRASS	*	1074321 (425-MO)) 1		
1	3	HEX LC	OCK NUT	(!	5/16-24)	*	1071651 (NUS-0013)	2	
	4	DISC P	LATE		BRASS	*	1074313 (425-KA)	1	•
	5	0-RING	;		FKM	*	1071794 (ORV-035)) 1	
				HYC	AR	*	1074310 (425–JH)		
	6	DISC		AFL] 1	
			GLASS I	FILLE	ED TEFLON		1074311 (425–JT))	
	7	DISC H	OLDER		BRASS	*	1074304 (425-HA)) 1	
1	8	0-RING	;		VITON	*	1071786 (ORV-011) 2	
	9	0-RING	;		VITON	*	1071795 (ORV-038)) 1	$\boldsymbol{<}$
	10	SHAFT (REQ'S	GUIDE ASSY TO	OL)	BRASS	*	1074298 (425–GAO)) 1	IR VALV
	11	LOCKWA	ASHER			*	1073594 (WAS-0020)	2	
	12	CAP		CA	ST IRON	*	1074281 (425-C)	1	
	13	HEX SC 5/16"-		PLA	TED STEEL	*	1072400 (SCZ-0013)) 6	.<
	14	DIAPHR	AGM		BUNA N FKM	*	1074296 (425-FB) 1074297 (425-FV)		П
	15		HEX NUT 5/16"-18 PLA		TED STEEL	*	1071657 (NUZ-0011)) 6	• •
	16	0-RING	;	AFLAS	*	1071664 (ORA-206)	2		
	17	SHAFT (NORMALLY			OPEN)	*	1074315 (425-LAA) 1	
	18	DISC SPACER			BRASS	*	1074382 (426-HA)) 1	
	19	UPPER	DIAPHRA	٨GM	PLATE	*	1074294 (425-DA) 1	
	20	LOWER	DIAPHRA	٨GM	PLATE	*	1074295 (425-DAA)) 1	

√1/4"-18 NPT 1/4"-18 NPT PORT "C" 11 PORT "D" (12) 10 19 (20) (9) (13)(15) 8 7 14` 6 8 (5) (17) 4 (3) (16) (18) 2 1 1072482 (VAVF-0000-90000) (2" NPT) NORMALLY OPEN (STANDARD)

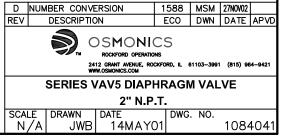
NOTE:

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

2. VALVES AVAILABLE WITH B.S.P. OR J.I.S. END CONNECTIONS.

SEE REVERSE SIDE FOR CONFIGURATION OPTIONS

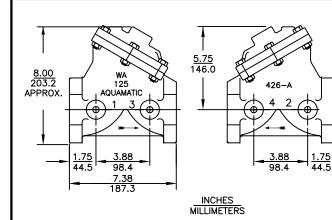
FORM NO. 1077637



- STANDARD MODE

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(1/4" NPT) (1/8" NPT) (US CLC	SED WITH NORMALLY OSED VALVES ONLY)	23 PIPE PLUG (1/4" N.P.T.) PLATED STEEL * 1071918 (PLZ-0008) 1 24 SHAFT (NORMALLY CLOSED) * 1074318 (425-LLA) 1 SPRING ASSIST CLOSED MODEL 25 CENTERING WASHER * 1074083 (421-AH) 1	2" AIR \
29 25 30 1072486 (VAVF-0030-90000) (2" NPT) NORMALLY CLOSED	27 -26 28 -(1/4" NPT)	29 O-RING * 1071677 (ORB-025) 1 30 CAP CAST IRON * 1074284 (425-CA) 1 SPRING ASSIST OPEN MODEL 31 SPRING * 1074423 (426-S) 1 32 CENTERING WASHER BRASS * 1074436 (426-V) 1	ALVE -
(1/4" NPT) 1072485 (VAVF-0002-90000) SPRING ASSIST CL			OPTIONAL M
	SPRING ASSIST OPEN	SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL	AL
	REPAIR PARTS KITS	D NUMBER CONVERSION 1588 MSM 27N0002	MO
CONVERSION KITS DESCRIPTION PART NO.	DESCRIPTION PART N INT. PARTS KIT (NORM. CLOSED)	REV DESCRIPTION ECO DWN DATE APVD NO. SMONICS SMONICS SMONICS 2412 GRANT WENUE, ROCKFORD, IL 61103-3991 (815) 964-9421	Ď
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 25 THRU 30	CONSISTS OF STANDARD TIEM NO S 25,28,29	6 (AV5-SC) SERIES VAV5 DIAPHRAGM VALVE 2" N.P.T.	S
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 31,321070508 (AV5-S0)	INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 31,32	B (AV5-SO) SCALE DRAWN DATE DWG. NO. N/A JWB 14MAY01 1084041	



REPAIR PARTS KITS					
DESCRIPTION	PART NO.				
DIAPHRAGM & SEALS KIT	1070109 (AV6-RA) 1070510 (AV6-RAHT)				
CONSISTS OF ITEM NO'S 3(2),5,6,8(2),9,14,16(2)	INCLUDES INCLUDES DISC 1074392 (426-JH), DISC 1074393 (426-JT), DIAPHRAGM DIAPHRAGM 1074374 (426-FB) 1074376 (426-FV)				
INT. PARTS KIT (NORM. OPEN) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11,17,18,19,20	1070511 (AV6-RF)				
SEAT (ITEM NO. 2)	1074407 (426-MAO)				

ASSEMBLY TOOLS					
DESCRIPTION	PART NO.				
FOR INSTALLATION & REMOVAL OF SEAT (ITEM #2) (TOOL NOT SHOWN)	1074411 (426-MT)				
FOR INSTALLATION & REMOVAL OF SHAFT GUIDE (ITEM #10) (TOOL NOT SHOWN)	1–3/16"HEX SOCKET				

	NO.		DESCR	RIPTIC	NC	STD	PART NO.	QTY.	
	1	DODY			2" NPT	*	1074343 (426-A8)	1	
	L 1	BODY	CAST IF	ON	2-1/2" NPT	*	1081559 (426-A10)		
NHT)	2	SEAT (REQ'S	ASSY TO)OL)	BRASS	*	1074407 (426-MAO)	1	∞
-л),	3	HEX LO	OCK NUT	<u>۲</u> (؛	5/16-24)	*	1071651 (NUS-0013)	2	
	4	DISC F	PLATE		BRASS	*	1074396 (426-KA)	1	N- N-
-FV)	5	0-RIN	3		FKM	*	1071795 (ORV-038)	1	
				HYC	AR	*	1074392 (426-JH)		
	6	DISC		AFL	AS			1	1/2
			GLASS	FILLE	ED TEFLON		1074393 (426-JT)		
	7	DISC +	IOLDER		BRASS	*	1074383 (426-HAA)	1	N)
	8	0-RIN	3		FKM	*	1071786 (ORV-011)	2	
	9	0-RIN	3		FKM	*	1071826 (ORV-233)	1	
	10		GUIDE ASSY TO) OL)	BRASS	*	1074377 (426–GAO)	1	\mathbf{r}
-	11	LOCKW	ASHER		•	*	1073594 (WAS-0020)	2	
	12	CAP		CA	ST IRON	*	1081560 (426-C)	1	
	13	HEX S 5/16"-		PLA	TED STEEL	*	1072401 (SCZ-0015)	6	AIR VALV
	14				BUNA N	*	1074374 (426-FB)	1	
_	14		AGM		FKM		1074376 (426-FV)		
	15	HEX N 5/16"-		PLA	TED STEEL	*	1071657 (NUZ-0011)	6	\geq
	16	0-RIN	3		AFLAS	*	1071662 (ORA-114)	2	
	17	SHAFT (NORMALLY			OPEN)	*	1074401 (426-LAA)	1	
	18	DISC SPACER			BRASS	*	1074382 (426-HA)	1	
	19	UPPER DIAPHRAGM PLATE				*	1074371 (426-DA)	1	
	20	LOWER	DIAPHR	AGM	PLATE	*	1074372 (426-DAA)	1	

NOTE:

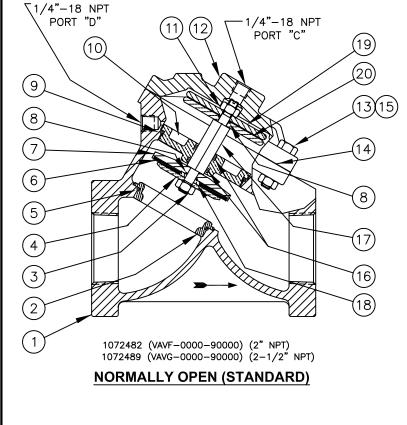
1. AMERICAN NATIONAL STANDARD TAPER PIPE THREADS (NPT) PER ANSI B2.1-1968

2. VALVES AVAILABLE WITH B.S.P. OR J.I.S. END CONNECTIONS.

> SEE REVERSE SIDE FOR CONFIGURATION OPTIONS

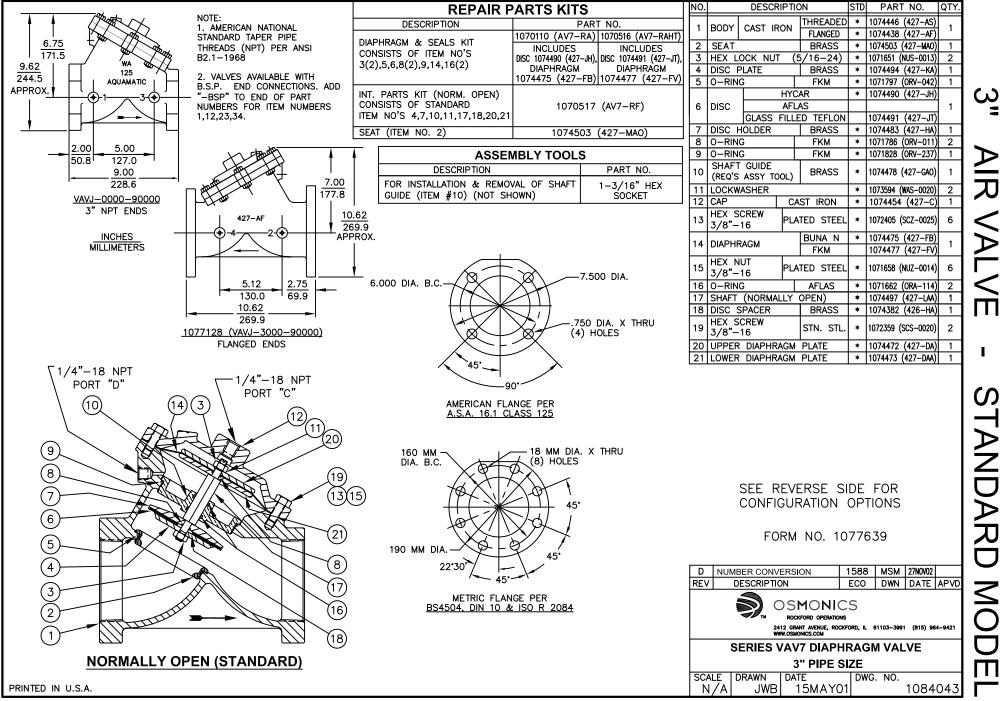
> > FORM NO. 1077638



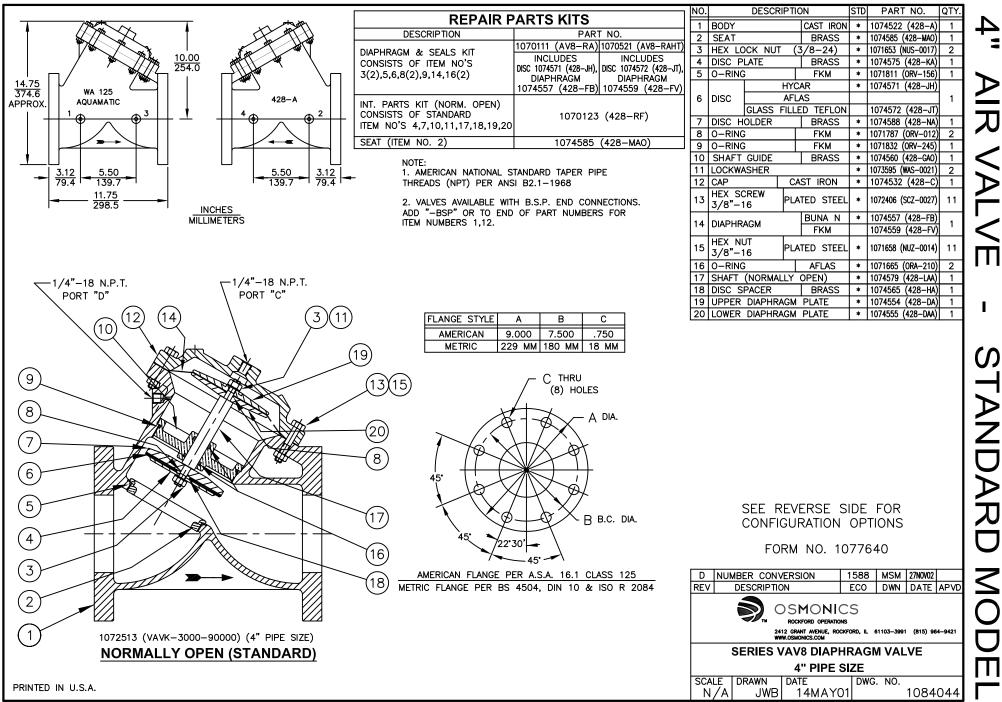


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	Li contra la con	NO. DESCRIPTION STD PART NO. QTY. NORMALLY CLOSED MODEL	
√ (1/4" NPT)		23 PIPE PLUG (1/4" N.P.T.) PLATED STEEL * 1071918 (PLZ-0008) 1	8
	t	24 SHAFT (NORMALLY CLOSED) * 1074403 (426-LLA) 1	
	Г	SPRING ASSIST CLOSED MODEL	Ņ
		26 RETAINER NUT BRASS * 1074431 (426-TTA) 1	<u> </u>
	— (USED WITH NORMALLY	27 PIPE PLUG (1/8" N.P.T.) BRASS * 1071903 (PLB-0007) 1	2
	CLOSED VALVES ONLY)	28 SPRING * 1074429 (426-SSB) 1	
		29 O-RING * 1071677 (ORB-025) 1 30 CAP CAST IRON * 1074352 (426-CC) 1	
		SPRING ASSIST OPEN MODEL	\geq
		31 SPRING * 1074423 (426-S) 1 32 CENTERING WASHER BRASS * 1074436 (426-V) 1	AIR
	\frown		VALV
L (1/4" NPT) VAVG-0030-90000 (2" NPT)	(28) (1/4" N	РТ)	
1080794 (VAVH-0030-90000) (2-1/2" NPT)			
NORMALLY CLOSED	(30)		
			Ē
(1/4" NPT)			' ' '
1077120 (VAVG-0002-90000)) (2" NPT)		
VAVH-0002-90000 (2-1/	/2" NPT)		
SPRING ASSIST CL	<u>.OSED</u>		
	(1/4" NPT)		Ū
	1072491 (VAVG-0001-90000) (2" NPT)		–
	1072497 (VAVH-0001-90000) (2-1/2" NPT)		TIONAL
	SPRING ASSIST OPEN		
		SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL	Z
			\geq
		FORM NO. 1077638	
		D NUMBER CONVERSION 1588 MSM 27N0V02	
	REPAIR PARTS KITS	REV DESCRIPTION ECO DWN DATE APVD	\leq
	DESCRIPTION PART NO. INT. PARTS KIT (NORM. CLOSED)		
CONVERSION KITS	CONSISTS OF STANDARD 1070512 (AV6-RG)	2412 GRANT AVENUE, ROCKFORD, IL 61103-3991 (815) 964-9421	Ū
DESCRIPTION PART NO. CONVERSION KIT (SPRING ASSIST CLOSED) 1070514 (AVG. 500)	INT PARTS KIT (SPRING ASSIST CLOSED)		
CONSISTS OF STANDARD ITEM NO'S 26 THRU 30 1070514 (AV6-SCC)	CONSISTS OF STANDARD ITEM NO'S 28,29	2" & 2-1/2" N.P.T.	
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 31,32 1070515 (AV6-S0)	INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 31.32		പ് പ



(1/4" NPT)	NO. DESCRIPTION STD PART NO. QTY. NORMALLY CLOSED MODEL 24 PIPE PLUG (1/4" N.P.T.) PLATED STEEL * 1071918 (PLZ-0008) 1 1 25 SHAFT (NORMALLY CLOSED) * 1074500 (427-LLA) 1 1 SPRING ASSIST CLOSED MODEL 27 RETAINER NUT BRASS * 1074431 (426-TTA) 1 00 PIPE PLUG DDLCO + 1074003 (FLD D0037) 1
(1/8" NPT) (USED WITH NORMALLY CLOSED VALVES ONLY) (1/8" NPT) (USED WITH NORMALLY CLOSED VALVES ONLY) (27 (30) (28)	28 PIPE PLUG (1/8" N.P.T.) BRASS * 1071903 (PLB-0007) 1 29 SPRING * 1074429 (426-SSB) 1 30 O-RING * 1071677 (ORB-025) 1 31 CAP CAST IRON * 1074420 (426-SSB) 1 SPRING ASSIST OPEN MODEL 32 SPRING * 1074423 (426-S) 1 33 CENTERING WASHER BRASS * 1074436 (426-V) 1
(1/4" NPT) VAVJ-0030-90000 (THREADED) VAVJ-3030-90000 (FLANGED) NORMALLY CLOSED	(1/4" NPT)
(1/4" NPT) VAVJ-0002-90000 (THREADED) 1080797 (VAVJ-3002-90000) (FLANGED) SPRING ASSIST CLOSED	O (THREADED) 90000) (FLANGED) SIST OPEN SEE REVERSE SIDE FOR
VAVJ-0001-9000	(THREADED)
1072509 (VAVJ-3001- SPRING ASS	90000) (FLANGED)
	SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL
	FORM NO. 1077639
REPAIR PART DESCRIPTION INT. PARTS KIT (NORM, CLOSED)	S KITS D NUMBER CONVERSION 1588 MSM 27N002 O PART NO. PART NO. O SMONICS O
CONVERSION KITS CONSISTS OF STANDARD DESCRIPTION PART NO.	1070518 (AV7-RG)
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 27 THRU 31 1070519 (AV7–SCC)	OSED) SERIES VAV7 DIAPHRAGM VALVE
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 32,331070520 (AV7-SO)INT. PARTS KIT (SPRING ASSIST OP CONSISTS OF STANDARD ITEM NO'S	EN) 1070520 (AV7-SO) SCALE DRAWN DATE DWG. NO.



FANDARD

NO.	DESCRIPTION			PART NO.	QTY.
NORMALLY CLOSED MODEL					
24	PIPE PLUG (1/4" N.P.T.)	PLATED STEEL	*	1071918 (PLZ-0008)	1
25	SHAFT (NORMA	LY CLOSED)	*	1074582 (428–LLA)	1
	SPRING	ASSIST CLC	SE	D MODEL	
27	RETAINER NUT	BRASS	*	1074609 (428-TT)	1
28	PIPE PLUG (1/8" N.P.T.)	BRASS	*	1071903 (PLB-0007)	1
29	SPRING		*	1074601 (428-SB)	1
30	0-RING		*	1071677 (ORB-025)	1
31	CAP	CAST IRON	*	1074540 (428–CC)	1
SPRING ASSIST OPEN MODEL					
32	SPRING		*	1074605 (428-SOA)	1

(1/8" NPT) (1/8" NPT) (24) (2) (2) (2) (2) (2) (2) (2) (2	(1/8" NPT) USED WITH NORMALLY CLOSED VALVES ONLY (27) (30) (27) (30) (27) (30) (27) (30) (27) (30) (27) (30) (27) (30) (27) (30) (27) (30) (27) (30) (27) (30) (27) (30) (27) (30) (27) (30) (30) (30) (30) (1/4" NPT) (32) (32) (32) (32) (32) (32) (32) (32
	(1/4" NPT)
	1072514 (VAVK-3001-90000)

SPRING ASSIST OPEN

SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL

FORM NO. 1077640

D	NUM	BER CONVE	RSION	1588	MSM	27N0V02	
REV		DESCRIPTIC	N	ECO	DWN	DATE	APVD
OSMONICS ROCKFORD OPERATIONS 2412 GRANT AVENUE, ROCKFORD, IL 61103-3991 (815) 964-9421 WWW.OSMONICS.COM							
SERIES VAV8 DIAPHRAGM VALVE							
4" N.P.T.							
SCALE DRAWN DATE DWG. NO.							
l N	/A	JWB	15MAY0 ⁻	11		1084	044

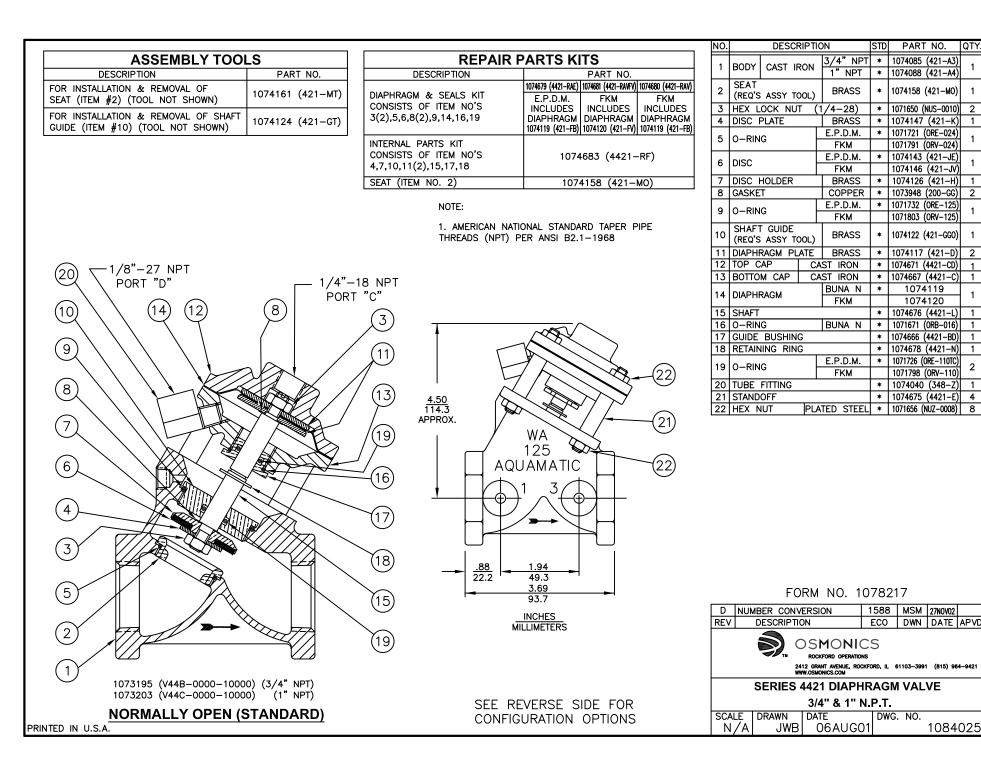
CONVERSION KITS	;	1	INT. PA
DESCRIPTION	PART NO.	1	ITEM NO
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 27 THRU 31	1070525 (AV8-SCC)		INT. PA
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO. 32	1070526 (AV8–SO)		INT. PA

__(1/4" NPT)

REPAIR PARTS KITS					
DESCRIPTION	PART NO.				
INT. PARTS KIT (NORM. CLOSED) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11,18,19,20,25	1070523 (AV8–RG)				
INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 29,30	1070524 (AV8-SC)				
INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO. 32	1070526 (AV8-SO)				

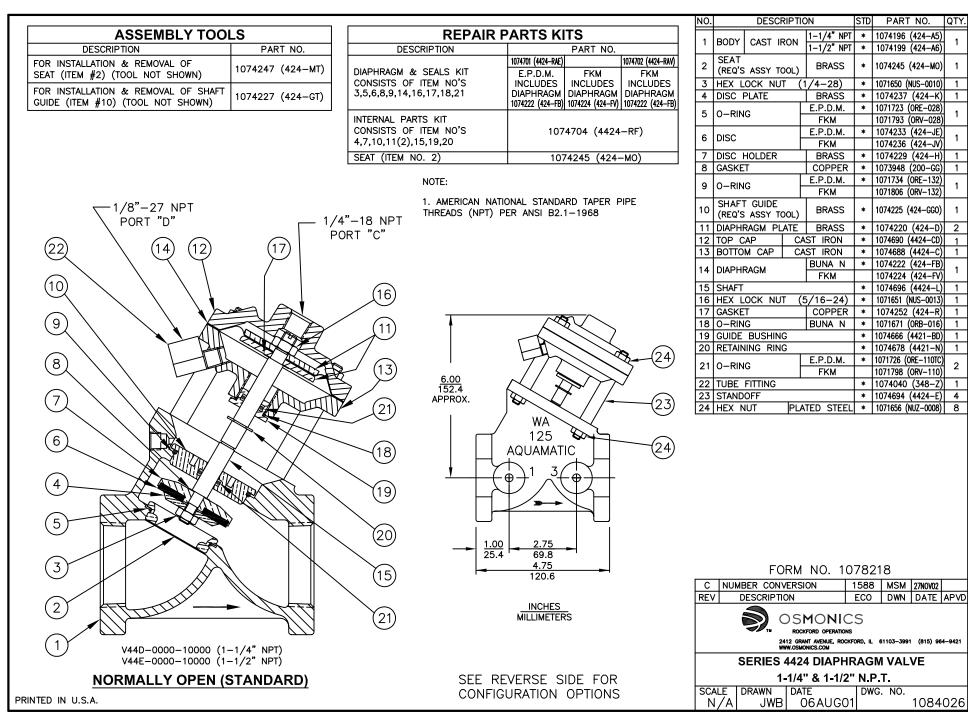
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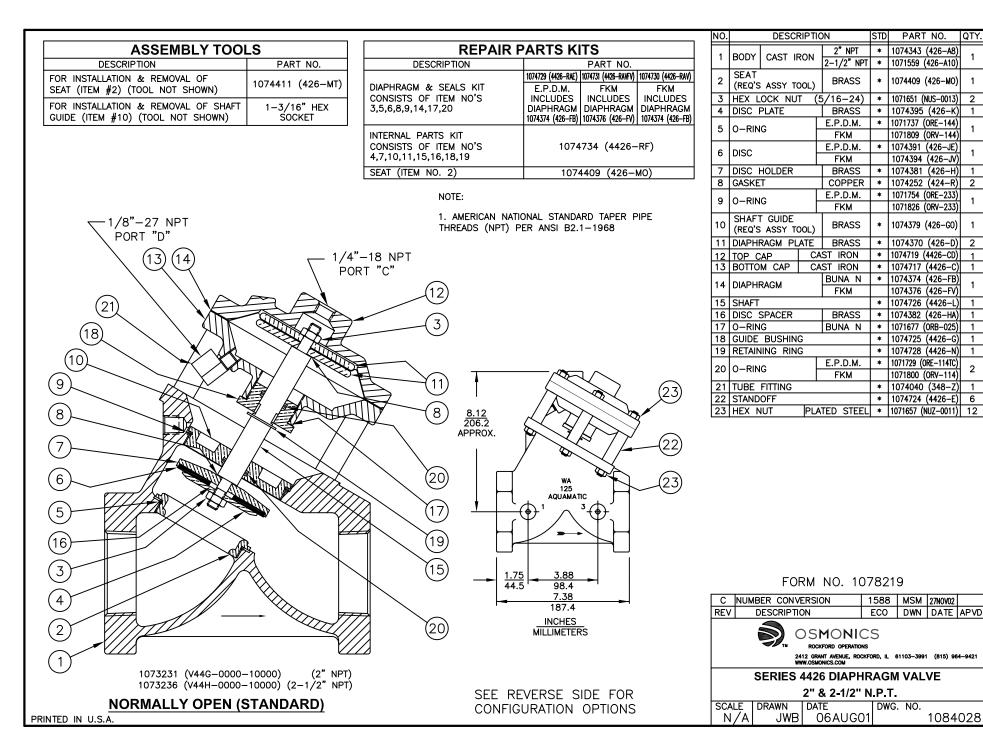
1084025

Image: constraint of the state of							DESCRIPTION	STD PART NO.	QTY.	
1000000000000000000000000000000000000						NO.				
1000000000000000000000000000000000000						2750			1	
¹ <td <td<="" td=""><td></td><td>$\overline{23}$</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td>	<td></td> <td>$\overline{23}$</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		$\overline{23}$							
Image: Constraint of State State Constraints Sector State State Constraints Sector State State Constraints Sector State State Constraints Sector State Sta										
Vi4B-0002-10000 (3/t* NPT) 109128 (V48-0010-10000) (3/t* NPT) 109128 (V48-0001-10000) (3/t* NPT)										
							SPRING ASSIST C	LOSED MODEL		
Image: Non-Section Control (A)) 1	
						28 SF			1	
							SPRING ASSIST			
NITE: 107729 (1446-0010-10000) (3/4", 1971) 109110B (1446-0010-10000) (1", 1971) 107729 (1446-0010-10000) (1", 1971) 107729 (1446-0002-10000) (1", 1971) 1072007 (1440-0002-10000) (1", 1971) 1072007 (1440-0002-10000) (1", 1971) 1072007 (1440-0002-10000) (1", 1971) 1072007 (1440-0002-10000) (1", 1971) 1072007 (1440-0002-10000) (1", 1971) 1072007 (1440-0002-10000) (1", 1971) 1072007 (1440-0002-10000) (1", 1971) 1072007 (1440-0002-10000) (1", 1971) 1072007 (1440-0002-10000) (1", 1971) 1072007 (1440-0001-10000) (34", 1971) 1072007 (1440-0001-10000) (34", 1971) 1072007 (1440-0001-10000) (34", 1971) 1072007 (1440-0001-10000) (34", 1971) 1072007 (1440-0001-10000) (14", 1971) 1072007 (1440-0001-10000)	11									
	11			\sim		29 5	PRING	* 10/41/5 (421–SB)	1	
				$\langle \rangle$			NOTE			
	(NOTE:			
			(28)				RING (ITEM 18) SHOU GROOVE ON SHAFT	ULD BE LOCATED IN UPPER		
1081108 (V44C-0010-10000) (1" NPT) 1081108 (V44C-0010-10000) (1" NPT) 1073207 (V44C-0002-10000) (1" NPT) 1073207 (V44C-0002-10000) (1" NPT) SPRING ASSIST CLOSED (107427 (V44B-0001-10000) 1077427 (V44C-0001-10000) (1" NPT) 1073206 (V44C-0001-10000) (1" NPT) SPRING ASSIST CLOSED (107427 (V44B-0001-10000) 1077427 (V44B-0001-10000) (1" NPT) SPRING ASSIST OPEN SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL FORM NO. 1078217 Noversion KrT (MIT STOP) CONSISTS OF STANDARD ITEM NOS 23 THRU 28 1074677 (4421-450) CONSISTS OF STANDARD ITEM NOS 23.24,25 1074154 (421-45) Noversion KrT (SPRING ASSIST CLOSED) NT-PARTS KIT (SPRING ASSIST CLOSED) Noversion KrT (SPRING ASSIST CLOSED) NT-PARTS KIT (SPRING ASSIST CLOSED) Noversion KrT (SPRING ASSIST CLOSED) NT-PARTS KIT (SPRING ASSIST CLOSED) Noversion KrT (SPRING ASSIST CLOSED) NT-PARTS KIT (SPRING ASSIST CLOSED) Noversion KrT (SPRING ASSIST CLOSED) NT-PARTS KIT (SPRING ASSIST CLOSED) Noversion KrT (SPRING ASSIST CLOSED) NT-PARTS KIT (SPRING ASSIST CLOSED) Noversion KrT (SPRING ASSIST CLOSED) NT-PARTS KIT (SPRING ASSIST CLOSED) Noversion KrT (SPRING ASSIST CLOSED) NT-PARTS KIT (SPRIN						\sim	MODELS, IT SHOULD	BE IN LOWER GROOVE.		
1081108 (V44C-0010-10000) (1" NPT) 1081107 (V44C-0002-10000) (3/4" NPT) 1073207 (V44C-0002-10000) (1" NPT) SPRING ASSIST CLOSED (1" NPT) 1077427 (V44B-0001-10000) (3/4" NPT) 1077427 (V44C-0001-10000) (1" NPT) SPRING ASSIST CLOSED (107427 (V44B-0001-10000) 1077427 (V44C-0001-10000) (1" NPT) SPRING ASSIST OPEN SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL FORM NO. 1078217 (1" PART NO. CONVERSION KIT (MIT STOP) CONSISTS OF STANDARD ITEM NOS 23 THRU 2 1074677 (4421-450) (1" PARTS KIT (MIT STOP) CONSISTS OF STANDARD ITEM NOS 23.1HRU 2 1074677 (4421-450) CONVERSION KIT (SPRING ASSIST CLOSED) 1074677 (4421-450) (1" PARTS KIT (SPRING ASSIST CLOSED) NETTOR TOP 1074677 (4421-450) (1" PARTS KIT SPRING ASSIST CLOSED) (1" PARTS KIT SPRING ASSIST CLOSED) NETTOR TOP 1074677 (4421-450) (1" PARTS KIT SPRING ASSIST CLOSED) (1" PARTS KIT SPRING ASSIST CLOSED) NETTOR TOP 1074676 (4421-450) (1" PARTS KIT SPRING ASSIST CLOSED) (1" PARTS KIT SPRING ASSIST CLOSED) CONVERSION KIT (MIT STOP) 1074676 (4421-450) (1" PARTS KIT SPRING ASSIST CLOSED) (1" PARTS KIT SPRING ASSIST CLOSED) CONVERSION KIT (MIT							\backslash			
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Imit Original (18) Ref. (14) Ref. V44B-0002-10000 (3/4* NPT) 1073207 (V44C-0002-10000) (1* NPT) (1*) NPT SPRING ASSIST CLOSED (1) T7427 (V44B-0001-10000) (3/4* NPT) 1077427 (V44B-0001-10000) (3/4* NPT) 1077427 (V44B-0001-10000) (3/4* NPT) 1077427 (V44B-0001-10000) (1* NPT) (1*) NPT SPRING ASSIST OPEN (1) T7427 (V44B-0001-10000) (1* NPT) SPRING ASSIST OPEN SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL FORM NO. 1078217 (1) TARTS KIT (LMIT STOP) CONSISTS OF STANDARD ITEM NO'S 23.7 HRU 22 1074677 (4421-450) CONVERSION KIT (LMIT STOP) CONSISTS OF STANDARD ITEM NO'S 23.7 HRU 22 1074677 (4421-450) (1) T. PARTS KIT (LMIT STOP) CONSISTS OF STANDARD ITEM NO'S 23.728 1074684 (4421-50) CONVERSION KIT (LMIT STOP) CONSISTS OF STANDARD ITEM NO'S 27.28 1074684 (4421-50) (1) TARATS KIT (SPRING ASSIST CLOSED) CONVERSION KIT (LMIT STOP) CONSISTS OF STANDARD ITEM NO'S 27.28 1074684 (4421-50) (1) TARATS KIT (SPRING ASSIST CLOSED) Math Description 1074677 (4421-450) (1) TARATS KIT (SPRING ASSIST CLOSED) CONVERSION KIT (LMIT STOP) CONSISTS OF STANDARD ITEM NO'S 27.28 1074684 (4421-50) (1) TARATS KIT (SPRING ASSIST CLOSED) CONVERSION KIT (LMIT STOP) CONSISTS OF STANDARD ITEM NO'S 27.28 1074684 (4421-50) (1) TARATS KIT (SPRING ASSIST CLOSED)	10	. , , , ,			1 - 16					
VH4B-0002-10000 (3/4" NPT) 1073207 (V44C-0002-10000) (1" NPT) SPRING ASSIST CLOSED V17427 (V44B-0001-10000) (3/4" NPT) 1073206 (V44C-0001-10000) (3/4" NPT) 1073206 (V44C-0001-10000) (1" NPT) DIT/427 (V44B-0001-10000) (3/4" NPT) 1073206 (V44C-0001-10000) (1" NPT) SPRING ASSIST CLOSED Normalization (11 Net) Discorregistion (11 Net) Discorregistion (11 Net) Normalization (11 Net) Discorregistion (11 Net) Normalization (11 Net) Normalization (11 Net) Discorregistion (11 Net) Discorregistion (11 Net) Normalization (11 Net) Normalizatio		LIMIT STOP (18)								
W4B-0002-10000 (3/4" NPT) 1073207 (V44C-0002-10000) (1" NPT) SPRING ASSIST CLOSED W17427 (V44B-0001-10000) (3/4" NPT) 1073206 (V44C-0001-10000) (1" NPT) D177427 (V44B-0001-10000) (1" NPT) D177427 (V44B-0001-10000) (1" NPT) BRING ASSIST CLOSED W17427 (V44B-001-10000) (1" NPT) D177427 (V44B-001-10000) (1" NPT) BRING ASSIST OPEN SEE REVERSE SIDE FOR STANDARD INC. NT. PARTS KIT (UMIT STOP) CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 23 THRU 26 1074677 (421-LSO) CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (4421-SO) NT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (4421-SO)							-			
V4B-0002-10000 (3/4" NPT) 1073207 (V44C-0002-10000) (1" NPT) SPRING ASSIST CLOSED V17427 (V44B-0001-10000) (3/4" NPT) 1073206 (V44C-0001-10000) (3/4" NPT) 1073206 (V44C-0001-10000) (1" NPT) SPRING ASSIST OPEN SPRING ASSIST CLOSED V107427 (V44B-001-10000) (1" NPT) DESCRIPTION V107427 (V44B-001-10000) (1" NPT) SPRING ASSIST OPEN SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL FORM NO. 1078217 V107427 (V421-LSC) V1074284 (4421-SC) V1074287 (V1074896 (4421-SC)				KZA			$(\overline{27})$			
1073207 (V44C-0002-10000) (I" NPT) SPRING ASSIST CLOSED 1077427 (V44B-0001-10000) (3/4" NPT) 1077427 (V44B-0001-10000) (3/4" NPT) 1077427 (V44B-0001-10000) (3/4" NPT) 1077427 (V44B-0001-10000) (1" NPT) SPRING ASSIST OPEN SEE REVERSE SIDE FOR STANDARD ITEM NO'S 23 THRU 26 1074677 (4421-LS0) Image: Normal Distance of standard Item No'S 27,28 Image:										
1073207 (V44C-0002-10000) (I" NPT) SPRING ASSIST CLOSED 1077427 (V448-0001-10000) (3/4" NPT) 1077427 (V448-0001-10000) (3/4" NPT) 1077427 (V448-0001-10000) (3/4" NPT) 1077427 (V448-0001-10000) (1" NPT) SPRING ASSIST OPEN SEE REVERSE SIDE FOR STANDARD ITEM NO'S 23.24,25 Normersion kritering Description Part NO. CONVERSION kritering Description Part NO. CONVERSION kritering Assist closeD) CONVERSION kritering Assist c			V44B-0002-	10000 (3/4" NPT)			(29)			
Image: Conversion kit (spring Assist closed) (1074677 (4421-sc)) Conversion kit (spring Assist closed) (1074684 (4421-sc))			1073207 (V44C-00	002–10000) (1" NPT)						
Image: Conversion kit (spring Assist closed) Image: Conversion kit (spring Assist closed)			SPRING AS	SIST CLOSED		ADIT				
1073206 (v44c-0001-10000) (1" NPT) SPRING ASSIST OPEN SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL FORM NO. 1078217 NUMBER CONVERSION KITS DESCRIPTION			<u></u>							
1073206 (v44c-0001-10000) (1" NPT) SPRING ASSIST OPEN SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL FORM NO. 1078217 NUMBER CONVERSION KITS DESCRIPTION										
1073206 (v44c-0001-10000) (1" NPT) SPRING ASSIST OPEN SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL FORM NO. 1078217 NUMBER CONVERSION KITS DESCRIPTION										
1073206 (v44c-0001-10000) (1" NPT) SPRING ASSIST OPEN SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL FORM NO. 1078217 NUMBER CONVERSION KITS DESCRIPTION							"··· ·			
Spring Assist Open Sering Assist Closed) Conversion kit (Spring Assist Closed) Series 4421 Diaphragm Valve										
SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL DESCRIPTION PART NO. DESCRIPTION PART NO. DESCRIPTION PART NO. CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 23 THRU 26 1074677 (4421–LSC) INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (4421–SC) INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (4421–SC) INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (4421–SC)					•		•			
STANDARD NORMALLY OPEN MODEL STANDARD NORMALLY OPEN MODEL OCNVERSION KITS DESCRIPTION PART NO. INT. PARTS KIT (LIMIT STOP) CONVERSION KIT (SPRING ASSIST CLOSED) IO74154 (421-LSC) CONVERSION KIT (SPRING ASSIST CLOSED) IO74684 (4421-SC) STANDARD ITEM NO'S 27,28 IO74684 (4421-SC) CONVERSION KIT (SPRING ASSIST CLOSED) IO74684 (4421-SC) SERIES 4421 DIAPHRAGM VALVE 3/4" & 1" N.P.T.					SPRING	ASSIST UPEN	<u>l</u>			
STANDARD NORMALLY OPEN MODEL STANDARD NORMALLY OPEN MODEL DESCRIPTION PART NO. DESCRIPTION PART NO. DESCRIPTION PART NO. CONVERSION KIT STOP) CONVERSION KIT (LIMIT STOP) CONVERSION KIT (SPRING ASSIST CLOSED) ID74677 (4421-LSC) CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 23,24,25 1074154 (421-LSC) CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 23,24,25 1074154 (421-LSC) CONVERSION KIT (SPRING ASSIST CLOSED) ID74684 (4421-SC) INT. PARTS KIT (SPRING ASSIST CLOSED) ID74684 (4421-SC) SERIES 4421 DIAPHRAGM VALVE 3/4" & 1" N.P.T.										
DESCRIPTION PART NO. ONVERSION KIT PART NO. DESCRIPTION PART NO. DESCRIPTION PART NO. ONVERSION KIT Discription Part NO. CONVERSION KIT Discription Part NO. Discription Part NO. INT. PARTS KIT Discription Sists of Standard Item No'S 23,24,25 Dot4154 (421-LS) Orderations Part Sist of Standard Item No'S 27,28 Part Mole RookFord, L e1103-3991 (815) 984-9421 Series 4421 DIAPHRAGM VALVE 3/4" & 1" N.P.T.)EI	
Description Part NO. CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 23 THRU 26 1074677 (4421-LSC) OCNVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (4421-SC) Description Part NO. INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (4421-SC) 1074684 (4421-SC)							STANDARD N	UNWALLI UFEN MUL		
CONVERSION KITS REPAIR PARTS KITS DESCRIPTION PART NO. DESCRIPTION PART NO. CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 23 THRU 26 IO74677 (4421–LSC) CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 27,28 IO74684 (4421–SC) INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (4421–SC) IO74684 (4421–SC) INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (4421–SC) IO74684 (4421–SC)										
CONVERSION KITS REPAIR PARTS KITS DESCRIPTION PART NO. DESCRIPTION PART NO. CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 23 THRU 26 IO74677 (4421–LSC) CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 27,28 IO74684 (4421–SC) INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (4421–SC) IO74684 (4421–SC) INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (4421–SC) IO74684 (4421–SC)							FORM NO.	1078217		
REPARTS KITS REPARTS KITS DESCRIPTION PART NO. DESCRIPTION PART NO. CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 23 THRU 26 IO74677 (4421–LSC) CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 27,28 IO74684 (4421–SC) INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (4421–SC) IO74684 (4421–SC) SERIES 4421 DIAPHRAGM VALVE 3/4" & 1" N.P.T.									02	
CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 23 THRU 26 1074677 (4421-LSC) INT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 23,24,25 1074154 (421-LS) INT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 23,24,25 1074154 (421-LS) INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (4421-SC) INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (4421-SC) INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (4421-SC) SERIES 4421 DIAPHRAGM VALVE 3/4" & 1" N.P.T.	Г						D NUMBER CONVERS	ON 1588 MSM 27N0V	02 E APVD	
CONVERSION KIT (LIMIT STOF) 1074677 (4421-LSC)	Ę						D NUMBER CONVERSI REV DESCRIPTION	ON 1588 MSM 27N0V ECO DWN DAT	02 E APVD	
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (4421-SC) INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (4421-SC) SERIES 4421 DIAPHRAGM VALVE 3/4" & 1" N.P.T.		DESCRIPTION		DESCRIPTIO	N	PART NO.	D NUMBER CONVERSE REV DESCRIPTION	ON 1588 MSM 27NOV ECO DWN DAT	02 E APVD	
CONSISTS OF STANDARD ITEM NO'S 27,28 10/4684 (4421-SC) CONSISTS OF STANDARD ITEM NO'S 27,28 3/4" & 1" N.P.T.		DESCRIPTION CONVERSION KIT (LIMIT STOP)	PART NO.	DESCRIPTION	N FOP)		D NUMBER CONVERSI REV DESCRIPTION	ION 1588 MSM 27NOV ECO DWN DAT	E APVD	
		DESCRIPTION CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 23 THRU 26	PART NO. 1074677 (4421–LSC)	DESCRIPTION INT. PARTS KIT (LIMIT ST CONSISTS OF STANDARD	N ГОР) ITEM NO'S 23,24,25	1074154 (421–LS)	D NUMBER CONVERSE REV DESCRIPTION CONVERSE REV OSSI CONVERSE REV OSSI CONVERSE CONVERSE REV OSSI CONVERSE CONVERSE REV OSSI CONVERSE CONVERSE CONVERSE REV OSSI CONVERSE CONVER CONVERSE CONVERSE CONVERSE CO	ON 1588 MSM 27N0V ECO DWN DAT MONICS KFORD OPERATIONS WIT AVENUE, ROCKFORD, IL 61103-3991 (815) ONICS.COM	E APVD	
CONVERSION KIT (SPRING ASSIST OPEN)		DESCRIPTION CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 23 THRU 26 CONVERSION KIT (SPRING ASSIST CLOSED)	PART NO. 1074677 (4421–LSC)	DESCRIPTION INT. PARTS KIT (LIMIT ST CONSISTS OF STANDARD INT. PARTS KIT (SPRING	N TOP) ITEM NO'S 23,24,25 ASSIST CLOSED)	1074154 (421–LS)	D NUMBER CONVERSI REV DESCRIPTION CONVERSION DESCRIPTION CONVERSION CONVE	ION 1588 MSM 27N0V ECO DWN DAT MONICS KFORD OPERATIONS INT AVENUE, ROCKFORD, IL 61103-3991 (815) ONICS.COM	E APVD	
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 10,29,31 1074685 (4421-S0) INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 10,29,31 1074685 (4421-S0) SCALE DRAWN DATE DWG. NO. N/A JWB 06AUG01 1084025	-	DESCRIPTION CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 23 THRU 26 CONVERSION KIT (SPRING ASSIST CLOSED)	PART NO. 1074677 (4421–LSC) 1074684 (4421–SC)	DESCRIPTION INT. PARTS KIT (LIMIT ST CONSISTS OF STANDARD INT. PARTS KIT (SPRING CONSISTS OF STANDARD	N TOP) ITEM NO'S 23,24,25 ASSIST CLOSED) ITEM NO'S 27,28	1074154 (421–LS) 1074 6 84 (4421–SC)	D NUMBER CONVERSI REV DESCRIPTION CONVERSION DESCRIPTION CONVERSION CONVE	ION 1588 MSM 27N0V ECO DWN DAT MONICS KFORD OPERATIONS MIT AVENUE, ROCKFORD, IL 61103-3991 (815) ONICSCOM 1 DIAPHRAGM VALVE 4" & 1" N.P.T.	E APVD	



Ι, 14" & 1-1/2" DIAPHRAGM VALVE - ISOLATED BONNET MODE

			-
	NO.	DESCRIPTION STD PART NO. QTY	4 ┓
		LIMIT STOP MODEL	
		SCREW * 1072362 (SCS-0031) 1 O-RING * 1071668 (ORB-012) 1	4
(26)		O-RING * 1071668 (ORB-012) 1 HEX NUT * 1077534 (400-H) 1	
		TOP CAP CAST IRON * 1074692 (4424–CE) 1	2
		SPRING ASSIST CLOSED MODEL	1
	29	CENTERING PLATE * 1074674 (4421-BA) 1	1 1
	30	SPRING * 1075122 (524–S) 1	2
		SPRING ASSIST OPEN MODEL	
		CENTERING PLATE * 1074664 (4421-BA) 1	_
		SPRING * 1074264 (424–S) 1	
	A BANG		
		NOTE:	
	(20) REF.	1. FOR SPRING ASSIST OPEN VALVES, RETAINING RING (ITEM 20) SHOULD BE LOCATED IN UPPER	1
	7 A FN X A	GROOVE ON SHAFT. FOR ALL OTHER VALVE	
		MODELS, IT SHOULD BE IN LOWER GROOVE.	
V44D-0010-10000 (1-1/4" NPT)			
1073225 (V44E-0010-10000) (1-1/2" NPT)		the l	
LIMIT STOP		段 \	١×
LIMIT STOP (20) REF.			$ \geq$
		-(29)	BONNE
	10000 (1-1/4" NPT)	\smile	111
V44E-0002-	10000 (1-1/2" NPT)		1 -
SPRING A	SSIST CLOSED		
			VALVE
	V44D-0001-10000 (1-1/4" I		
	1077442 (V44E-0001-10000) (1-1		1
	SPRING ASSIST OPE		
	SFRING ASSIST OFE	.14	
		SEE REVERSE SIDE FOR	
		STANDARD NORMALLY OPEN MODEL	
		FORM NO. 1078218	
		C NUMBNER CONVERSION 1588 MSM 27N0V02	┤
		REV DESCRIPTION ECO DWN DATE APVI	₫ 🖊
CONVERSION KITS DESCRIPTION PART NO.	REPAIR PARTS KITS DESCRIPTION PART NO.		
CONVERSION KIT (LIMIT STOP)	DESCRIPTION PART NO.		$ \leq$
CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 25 THRU 28	CONSISTS OF STANDARD ITEM NO'S 25,26,27	2412 GRANT AVENUE, ROCKFORD, IL 61103-3991 (815) 964-9421 WWW.CSMONICS.COM	
	INT. PARTS KIT (SPRING ASSIST CLOSED)	SERIES 4424 DIAPHRAGM VALVE	12
CONVERSION KIT (SPRING ASSIST CLOSED) 1074706 (4424–SC) CONSISTS OF STANDARD ITEM NO'S 29,30	CONSISTS OF STANDARD ITEM NO'S 29,30	1-1/4" & 1-1/2" N.P.T.	
CONVERSION KIT (SPRING ASSIST OPEN)	INT. PARTS KIT (SPRING ASSIST OPEN)	SCALE DRAWN DATE DWG. NO.	┤┢
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 10,31,32	CONSISTS OF STANDARD ITEM NO'S 10,31,32	N/A JWB 06AUG01 1084026	



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			MODE				\sim
		*	107473		26–V)	1	\mathbf{N}
		*	107519		6-S)	1	-
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2412 G	RANT AVE	NUE, RO	CKFORD, IL (61103-399	1 (815) 964	-9421	\mathbf{O}
	MONICS.C		IRAGN	1 \/ ^ I			\Box
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		1/2"	N.P.T.				
	ATE 06 A	1100	DWG	. NO.	10840	าวค	S
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	REPAIR PARTS KITS	
).	DESCRIPTION	PART NO.
SC)	INT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 24,25,26	1074405 (426–LS)
SC)	INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 28,29	1074735 (4426–SC)
50)	INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 30,31	1074736 (4426–SO)

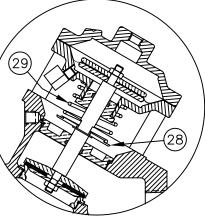
CONVERSION KITS				
DESCRIPTION	PART NO.			
CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 24 THRU 27	1074727 (4426-LSC)			
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 28,29	1074735 (4426–SC)			
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 30,31	1074736 (4426–S0)			

		REPAIR PARTS KITS	
PART NO.		DESCRIPTION	PART
074727 (4426-LSC)		INT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 24,25,26	107440
	1 1		

0002–10000) (2"NPT) 0000 (2–1/2"NPT)	
SIST CLOSED	
	1077447 (V44G-0001-10000) (2" NPT) V44H-0001-10000 (2-1/2" NPT)
	SPRING ASSIST OPEN

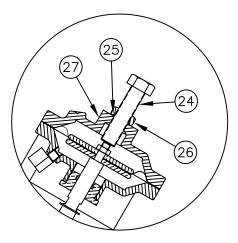
SPRING AS

1073235 (V44G-00 V44H-0002-100



LIMIT STOP

1077448 (V44G-0010-10000) (2" NPT) V44H-0010-10000 (2-1/2" NPT)



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31	31

24 SCREW * 1072364 (SCS-0042) 1 25 O-RING * 1071690 (ORB-112) 1 26 HEX NUT * 1074434 (426-U) 1 27 TOP CAP CAST IRON * 1074721 (4426-CE) 1 SPRING ASSIST CLOSED WODEL 28 CENTERING PLATE * 1074737 (4426-V) 1 29 SPRING * 1075198 (526-S) 1 SPRING ASSIST OPEN WODEL 30 CENTERING PLATE * 1074738 (4426-VA) 1 30 SPRING * 1074738 (4426-VA) 1 31 SPRING * 1074423 (426-S) 1	LIMIT STOP MODEL						
26 HEX_NUT * 1074434 (426-U) 1 27 TOP_CAP CAST_IRON * 1074721 (4426-CE) 1 SPRING ASSIST CLOSED MODEL 28 CENTERING_PLATE * 1074737 (4426-V) 1 29 SPRING * 1075198 (526-S) 1 SPRING ASSIST OPEN MODEL 30 CENTERING_PLATE * 1074738 (4426-VA) 1	24	SCREW		*	1072364 (SCS-0042)	1	
27 TOP CAP CAST IRON * 1074721 (4426-CÉ) 1 SPRING ASSIST CLOSED MODEL 28 CENTERING PLATE * 1074737 (4426-V) 1 29 SPRING * 1075198 (526-S) 1 SPRING ASSIST OPEN MODEL 30 CENTERING PLATE * 1074738 (4426-VA) 1	25	0-RING		*	1071690 (ORB-112)	1	
SPRING ASSIST CLOSED MODEL 28 CENTERING PLATE * 1074737 (4426–V) 1 29 SPRING * 1075198 (526–S) 1 SPRING ASSIST OPEN MODEL 30 CENTERING PLATE * 1074738 (4426–VA) 1	26	HEX NUT		*	1074434 (426–U)	1	
28 CENTERING PLATE * 1074737 (4426-V) 1 29 SPRING * 1075198 (526-S) 1 SPRING ASSIST OPEN MODEL 30 CENTERING PLATE * 1074738 (4426-VA) 1	27	TOP CAP	CAST IRON	*	1074721 (4426-CE)	1	
29 SPRING * 1075198 (526-S) 1 SPRING ASSIST OPEN MODEL 30 CENTERING PLATE * 1074738 (4426-VA) 1	SPRING ASSIST CLOSED MODEL						
SPRING ASSIST OPEN MODEL 30 CENTERING PLATE * 1074738 (4426-VA) 1	28	CENTERING PL	ATE	*	1074737 (4426–V)	1	
30 CENTERING PLATE * 1074738 (4426-VA) 1	29	SPRING		*	1075198 (526-S)	1	
	SPRING ASSIST OPEN MODEL						
31 SPRING * 1074423 (426–S) 1	30	CENTERING PL	ATE	*	1074738 (4426-VA)	1	
	31	SPRING		*	1074423 (426–S)	1	

DESCRIPTION

NO.

SEE REVERSE SIDE FOR

FORM NO. 1078219

C NUMBER CONVERSION

-1

SCALE DRAWN DATE

DESCRIPTION

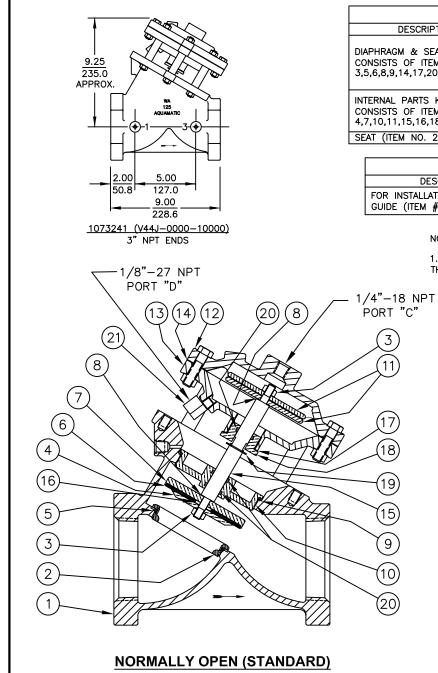
REV

N/A

STANDARD NORMALLY OPEN MODEL

JWB 06AUG01

SERIES 4426 DIAPHRAGM VALVE 2" & 2-1/2" N.P.T.



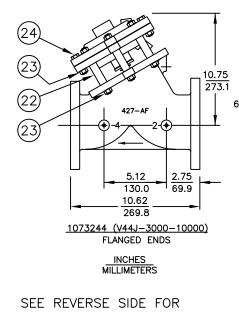
PRINTED IN U.S.A.

REPAIR PARTS KITS					
DESCRIPTION	PART NO.				
	1074747 (4427-RAE) 1074749 (4427-RAVFV) 1074748 (4427-RA				
DIAPHRAGM & SEALS KIT CONSISTS OF ITEM NO'S 3,5,6,8,9,14,17,20	E.P.D.M. FKM FKM INCLUDES INCLUDES INCLUDES DIAPHRAGM DIAPHRAGM DIAPHRAGM 1074475 (427-FB) 1074477				
INTERNAL PARTS KIT CONSISTS OF ITEM NO'S 4,7,10,11,15,16,18,19	1074752 (4427–RF)				
SEAT (ITEM NO. 2)	1074505 (427-MO)				

ASSEMBLY TOOLS				
DESCRIPTION PART NO.				
R INSTALLATION & REMOVAL OF SHAFT DE (ITEM #10) (TOOL NOT SHOWN)	1–3/16"HEX SOCKET			

NOTE:

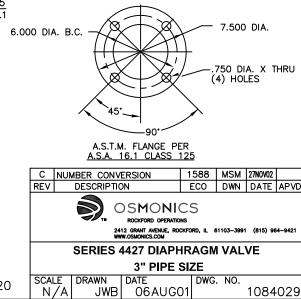
1. AMERICAN NATIONAL STANDARD TAPER PIPE THREADS (NPT) PER ANSI B2.1-1968



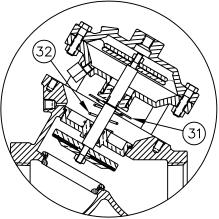
SEE	REVERSE	SIDE	FUR
CON	FIGURATION	I OPT	IONS

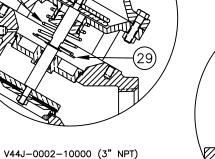
FORM	NO.	107822

NO.	DESCRIPTION		STD	PART NO.	QTY.		
1	BODY CAST IRON			THREADED	*	1074446 (427-AS)	1
	BODI	BODT CAST IRON		FLANGED	*	1074438 (427-AF)	
2	SEAT			BRASS	*	1074505 (427-MO)	1
3	HEX L	OCK NU	OCK NUT (5/16-24) * 1071651 (NUS-00		1071651 (NUS-0013)	2	
4	DISC	PLATE		BRASS	*	1074493 (427-K)	1
5		<u> </u>		E.P.D.M.	*	1071754 (ORE-233)	1
5		G	Γ	FKM		1071826 (ORV-233)	1
6	DISC			E.P.D.M.	*	1074489 (427-JE)	1
0	DISC		Γ	FKM		1074492 (427-JV)	1
7	DISC	HOLDER	-	BRASS	*	1074485 (427-HO)	1
8	GASKE	Т		COPPER	*	1074252 (424-R)	2
9		<u> </u>		E.P.D.M.	*	1071755 (ORE-237)	1
l a		G	Γ	FKM		1071828 (ORV-237)	1
10	SHAFT GUIDE (REQ'S ASSY TOOL) BRASS		*	1074478 (427–GAO)	1		
11	DIAPH	RAGM PL	ATE	BRASS	*	1074471 (427-D)	2
12	TOP C	AP	CA	ST IRON	*	1074740 (4427-CD)	1
13	ΒΟΤΤΟ	M CAP	CA	ST IRON	*	1074739 (4427-C)	1
14	DIAPH			BUNA N	*	1074475 (427-FB)	1
14		KAGM		FKM		1074477 (427–FV)	1
15	SHAFT				*	1074744 (4427-L)	1
16	DISC :	SPACER		BRASS	*	1074382 (426-HA)	1
17	0-RIN	G		BUNA N	*	1071677 (ORB-025)	1
18	GUIDE	BUSHIN	3		*	1074725 (4426-G)	1
19	RETAINING RING		RETAINING RING * 1074728 (4		1074728 (4426-N)	1	
20		<u> </u>		E.P.D.M.	*	1071729 (ORE-114TC)	3
20	20 O-RING			FKM		1071800 (ORV-114)	5
21	TUBE FITTING		*	1074040 (348-Z)	1		
22	STAND	OFF			*	1074743 (4427-E)	6
23	HEX N	IUT	PLA	TED STEEL	*	1071658 (NUZ-0014)	14
24	HEX S	SCREW			*	1072405 (SCZ-0025)	2



NO.	DESCRIPTION		STD	PART NO.	QTY.		
	LIMIT STOP MODEL						
25	SCREW		*	1072365 (SCS-0043)	1		
26	0-RING		*	1071690 (ORB-112)	1		
27	HEX NUT		*	1074434 (426–U)	1		
28	TOP CAP	CAST IRON	*	1074741 (4427–CE)	1		
	SPRING	ASSIST CLC	DSE	D MODEL			
29	CENTERING PL	ATE	*	1074737 (4426-V)	1		
30	SPRING		*	1075198 (526–S)	1		
SPRING ASSIST OPEN MODEL							
31	CENTERING PL	ATE	*	1074738 (4426–VA)	1		
32	SPRING		*	1074423 (426-S)	1		
				· · · · · ·			

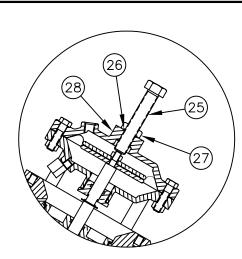




SPRING ASSIST CLOSED

(30)



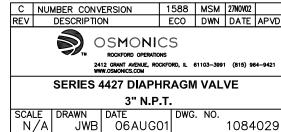


1077450 (V44J-0001-10000) (3" NPT)

SPRING ASSIST OPEN

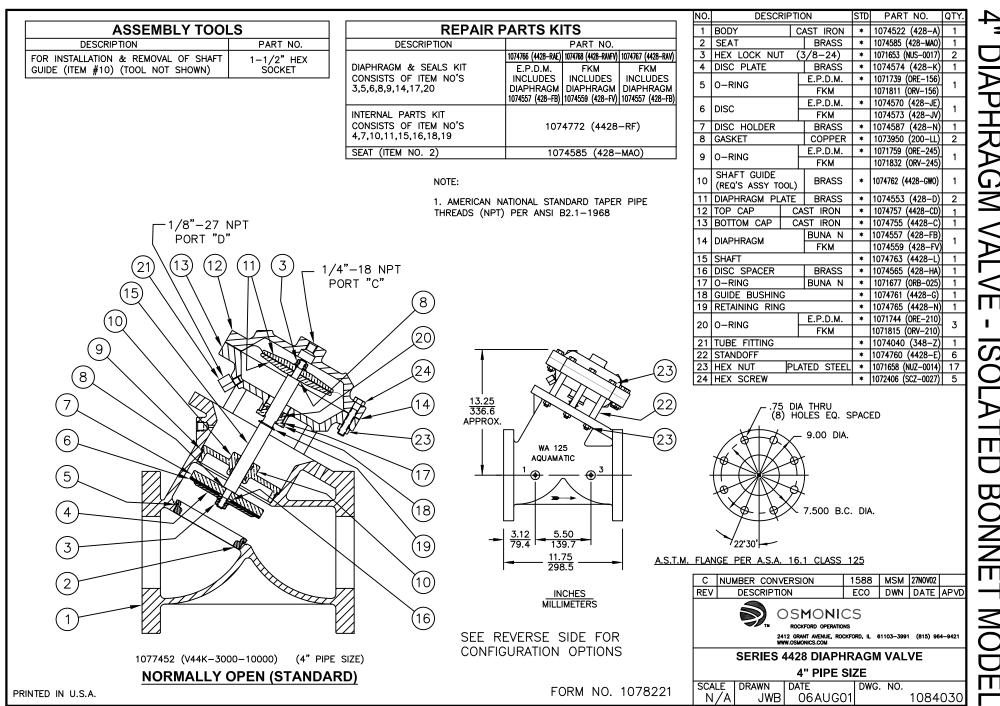
SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL

FORM NO. 1078220



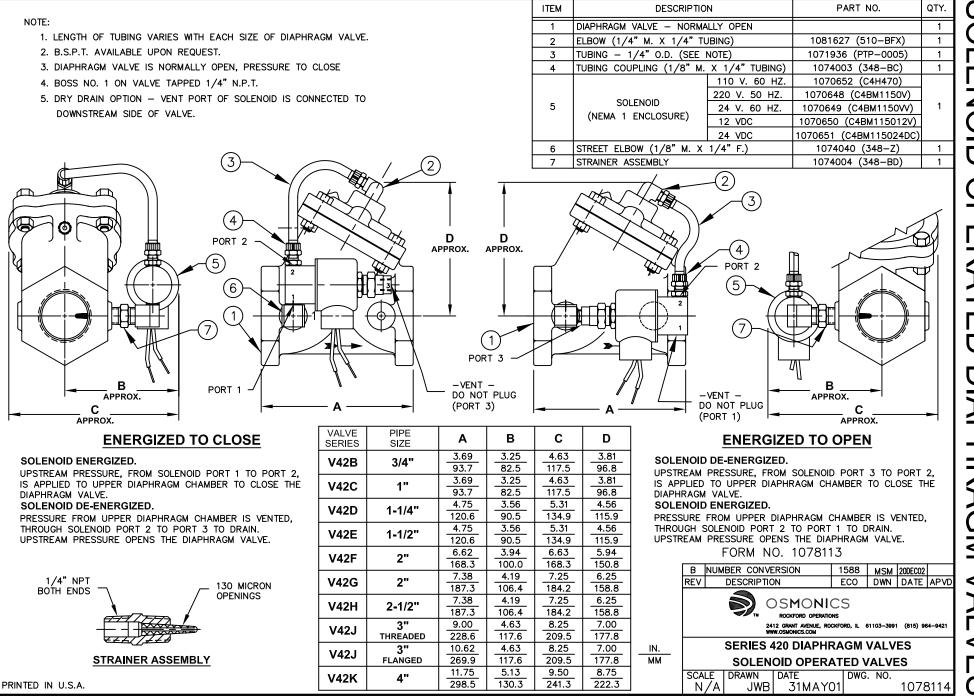
REPAIR PARTS KITS					
DESCRIPTION	PART NO.				
INT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 25,26,27	1074501 (427–LS)				
INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 29,30	1074753 (4427–SC)				
INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 31,32	1074754 (4427–S0)				

CONVERSION KITS						
DESCRIPTION	PART NO.					
CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 25 THRU 28	1074745 (4427-LSC)					
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 29,30	1074753 (4427–SC)					
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 31,32	1074754 (4427–S0)					

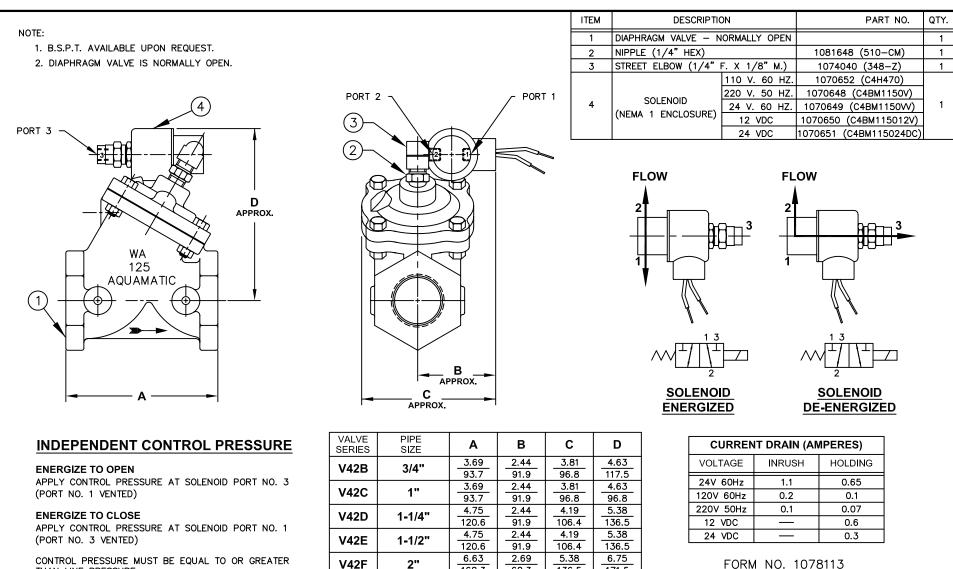


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			NO. DESCRIPTION STD PART NO.
			LIMIT STOP MODEL 25 SCREW * 1072365 (SCS-0043)
			26 O-RING * 1072363 (SCS-0043)
			27 HEX NUT * 1074434 (426–U)
			28 TOP CAP CAST IRON * 1074758 (4428-CE)
(26)			SPRING ASSIST OPEN OR CLOSED MODEL
(28) (28) (25)			29 CENTERING PLATE * 1074774 (4428-V) 30 SPRING * 1075198 (526-S)
		In man	
	AUN		
	K/ SE		
	29		
1073250 (V44K-3010-10000) (3" NPT)			XXXX
LIMIT STOP			
	× L	* (<u>30</u>)	
	all?		
	V44K-3002-	–10000 (3" NPT)	
	SPRING AS	SIST CLOSED	
		30 JULY	(29)
		1073249 (V44K-3001-	
		SPRING ASSI	ST OPEN
			SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODI
			FORM NO. 1078221
			C NUMBER CONVERSION 1588 MSM 27N0V02
		REPAIR PARTS KITS	REV DESCRIPTION ECO DWN DATE
CONVERSION KITS	S		
DESCRIPTION	S PART NO.	DESCRIPTION PART I	
DESCRIPTION CONVERSION KIT (LIMIT STOP)	PART NO.	DESCRIPTION PART I INT. PARTS KIT (LIMIT STOP)	
DESCRIPTION CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 25 THRU 28	PART NO.	DESCRIPTION PART I INT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 25,26,27	(428-LS) ROCKFORD OPERATIONS 2412 GRANT AVENUE, ROCKFORD, IL 61103-3991 (815) 91 WWW.OSMONICS.COM
DESCRIPTION CONVERSION KIT (LIMIT STOP)	PART NO.	DESCRIPTION PART I INT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 25,26,27	(428-LS) ROCKFORD OPERATIONS 2412 GRANT AVENUE, ROCKFORD, IL 61103-3991 (815) 90 (4428-S0) SERIES 4428 DIAPHRAGM VALVE
DESCRIPTION CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 25 THRU 28 CONVERSION KIT (SPRING ASSIST CLOSED)	PART NO. 3 1074764 (4428–LSC)	DESCRIPTION PART I INT. PARTS KIT (LIMIT STOP) 1074583 CONSISTS OF STANDARD ITEM NO'S 25,26,27 1074583 INT. PARTS KIT (SPRING ASSIST CLOSED) 1074773 CONSISTS OF STANDARD ITEM NO'S 29,30 1074773	(428-LS) ROCKFORD OPERATIONS 2412 GRANT AVENUE, ROCKFORD, IL 61103-3991 (615) 90 WWW.05800NICS.COM SERVICE A4/28 DIADHDAGM VALVE



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V42K

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DIAPHRAGM

FORM NO. 1078113

DATE

JWBL

OSMONICS

ROCKFORD OPERATIONS

SERIES 420 DIAPHRAGM VALVES

SOLENOID OPERATED VALVES

31MAY01

1588 MSM 20DEC02

2412 GRANT AVENUE, ROCKFORD, IL 61103-3991 (815) 964-9421 WWW.OSMONICS.COM

DWG. NO.

ECO DWN DATE APVD

1078114

B NUMBER CONVERSION

SCALE DRAWN

N/A

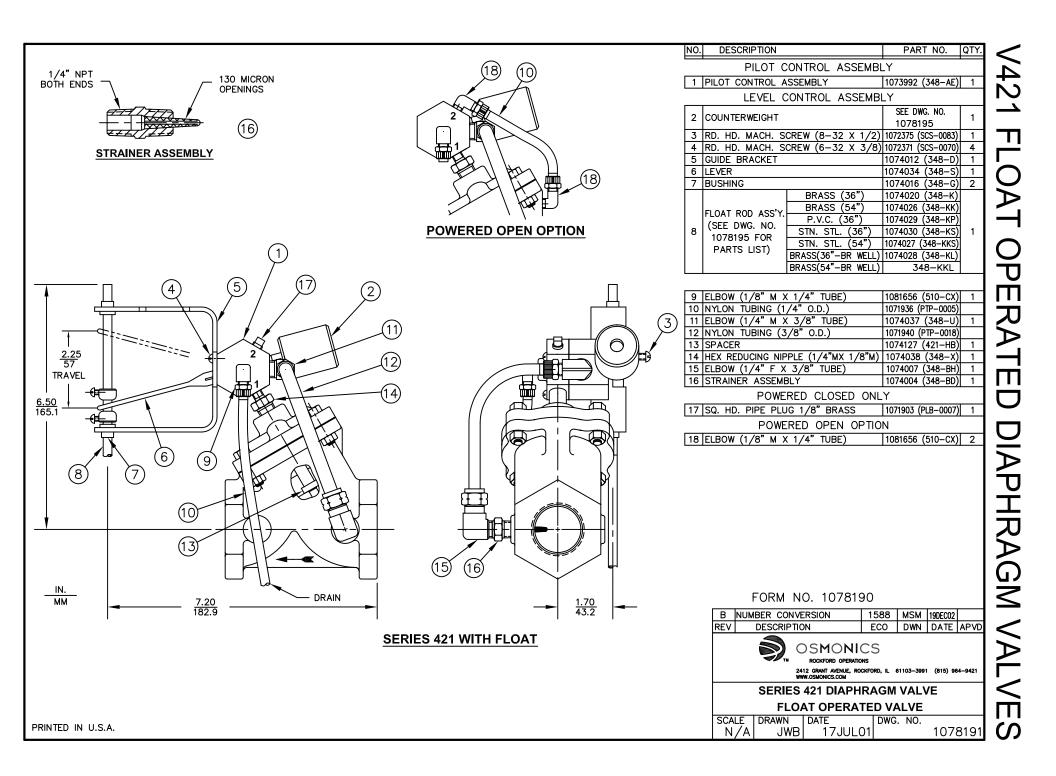
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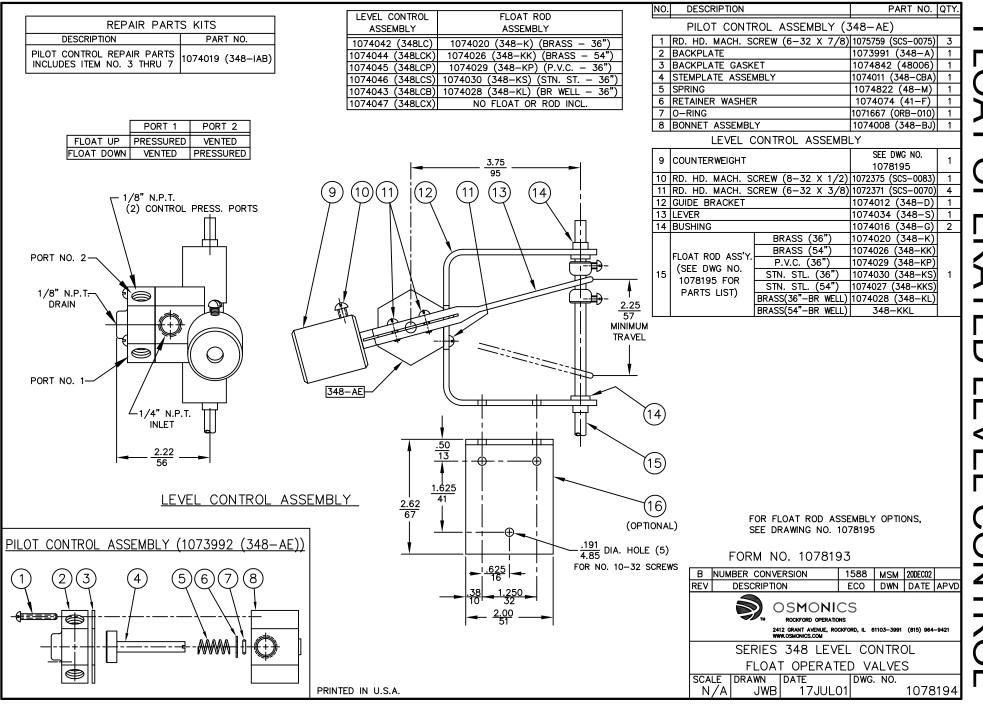
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DESCRIPTION

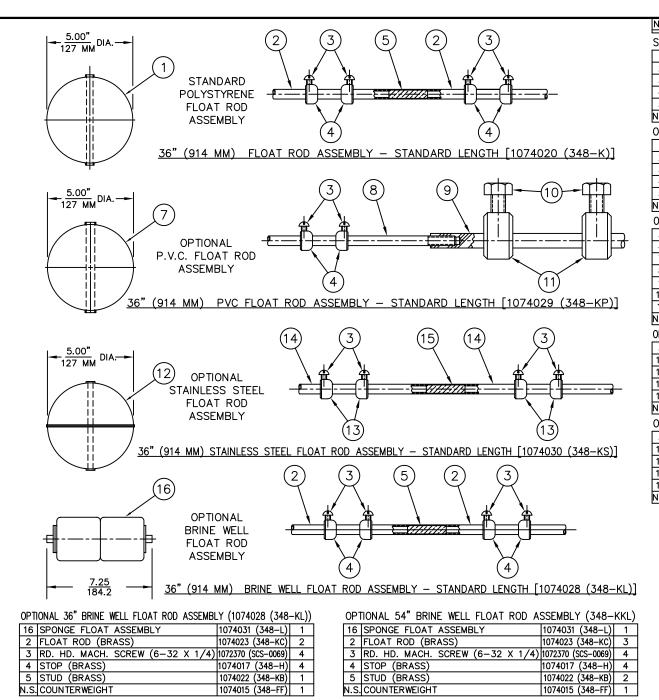
CONTROL PRESSURE MUST BE EQUAL TO OR GREATER THAN LINE PRESSURE.



		NO. DESCRIPTION PART NO. QTY.
1/4" NPT 130 MICRON	(18)	NO. DESCRIPTION PART NO. QTY. PILOT CONTROL ASSEMBLY 1073992 (348-AE) 1 LEVEL CONTROL ASSEMBLY 1073992 (348-AE) 1 LEVEL CONTROL ASSEMBLY 1078195 1 3 RD. HD. MACH. SCREW (8-32 X 1/2) 1072375 (SCS-0083) 1 4 RD. HD. MACH. SCREW (6-32 X 3/8) 1074012 (348-0) 1 6 LEVER 1074034 (348-C) 1
BOTH ENDS / ISO MICRON OPENINGS		1 PILOT CONTROL ASSEMBLY 1073992 (348-AE) 1 LEVEL CONTROL ASSEMBLY NO NO
		2 COUNTERWEIGHT SEE DWG NO. 1 1078195 1
		3 RD. HD. MACH. SCREW (8-32 X 1/2) 1072375 (SCS-0083) 1
STRAINER ASSEMBLY		4 RD. HD. MACH. SCREW (6-32 X 3/8) 1072371 (SCS-0070) 4 5 GUIDE BRACKET 1074012 (348-D)
		6 LEVER 1074034 (348–S) 1
(1)		
		BRASS (36") 1074020 (348-K) BRASS (54") 1074026 (348-KK)
		PLOAT ROD ASS T. P.V.C. (36") 1074029 (348-KP)
		8 (3EE DWG NO. 1078195 FOR STN. STL. (36") 1074030 (348–KS) 1 STN. STL. (54") 1074027 (348–KKS) 1
	\sim (3)	STN. STL. (54") 1074027 (348-KKS) PARTS LIST) BRASS(36"-BR WELL) 1074028 (348-KL)
		BRASS(54"-BR WELL) 348-KKL
$\begin{array}{c c} 2.25 \\ \overline{57} \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 1$		9 ELBOW (1/8" M X 1/4" TUBE) 1081656 (510-CX) 1 10 NYLON TUBING (1/4" O.D.) 1071936 (PTP-0005)
	<u>∖</u> ∰ <u>}</u> _ <u></u>	
		12 NYLON TUBING (3/8" O.D.) 1071940 (PTP-0018)
		424 1074230 (424–HB)
		13 SPACER 425 1074305 (425-HB) 1
		428 1074567 (428–HB)
		14 ELBOW (1/4" F X 3/8" TUBE) 1074007 (348-BH) 1 15 STRAINER ASSEMBLY 1074004 (348-BD) 1
		16 NIPPLF 1/4" M X 2" 424 1071905 (PLB-0028) 16 NIPPLF 1/4" M X 3" 425 426 1071905 (PLB-0029)
		1/4" M X 4" 427, 428 1071907 (PLB-0030) POWERED CLOSED ONLY Image: Closed only Image: Closed only
		POWERED CLOSED ONLT [17] SQ. HD. PIPE PLUG 1/8" BRASS [1071903 (PLB-0007)] 1
		18 ELBOW (1/8" M X 1/4" TUBE) 1081656 (510-CX) 2
	(15) (14)	
	C	
		U_
	U 428 WITH FLOAT	
VALVE 424 425 426 427 428		17 SQ. HD. PIPE PLUG 1/8" BRASS 1071903 (PLB-0007) 1 POWERED OPEN OPTION 1081656 (510-CX) 2 18 ELBOW (1/8" M X 1/4" TUBE) 1081656 (510-CX) 2 FORM NO. 1078190 B NUMBER CONVERSION 1588 MSM [190EC02]
SERIES 424 425 420 421 428		B NUMBER CONVERSION 1388 MSM Iguetuz REV DESCRIPTION ECO DWN DATE APVD
SIZE 1-1/4 ,1-1/2 2 2 3 4		
$A \qquad \frac{8.29}{210.6} \qquad \frac{9.29}{132.1} \qquad \frac{9.87}{236.0} \qquad \frac{10.80}{274.3} \qquad \frac{12.80}{325.1}$		SERIES 424 thru 428 DIAPHRAGM VALVES
P 7.81 8.37 9.56 10.56 13.81		
198.4 212.6 242.8 268.2 350.8		SERIES 424 thru 428 DIAPHRAGM VALVES
C $\frac{4.20}{106.7}$ $\frac{5.20}{132.1}$ $\frac{5.20}{132.1}$ $\frac{6.20}{157.5}$		FLOAT OPERATED VALVE SCALE DRAWN DATE DWG. NO.
		N/A JWB 17JUL01 1078191



Π Π C C **N** N T R



۷0.	DESCRIPTION		PAF	RT NO.	QTY.
STA	NDARD 36" FLOAT ROD ASSEME	3LY (1	074020) (348	3–K))
	FLOAT (POLYSTYRENE)		073996 (
	FLOAT ROD (BRASS)	1	074023 (348-KC)) 2
	RD. HD. MACH. SCREW (6-32 X	1/4)1	072370 (S	CS-0069) 4
	STOP (BRASS)		074017		
5	STUD (BRASS)	1	074022 (348-KB)) 1
۱.S.	COUNTERWEIGHT	1	074014	(348-F) 1
DPT	IONAL 54" FLOAT ROD ASSEMBL	Y (10	74026	(348-	-KK))
	FLOAT (POLYSTYRENE)	1	073996 (348-AQ) 1
2	FLOAT ROD (BRASS)	1	074023 (348-KC)	
3	RD. HD. MACH. SCREW (6-32 X	1/4)1	072370 (S	CS-0069) 4
4	STOP (BRASS)	1	074017	(348–H)) 4
	STUD (BRASS)		074022 (
۱.S.	COUNTERWEIGHT	1	074015 (348-FF)) 1
OPTI	IONAL 36" PVC FLOAT ROD ASSEM	IBLY (1	074029) (348-	-KP))
	RD. HD. MACH. SCREW (6-32 X				
	STOP (PVC)	<u> </u>	074017		_
	FLOAT (PVC)		073997 (<u> </u>	
	UPPER FLOAT ROD (PVC)		073999 (/
	LOWER FLOAT ROD (PVC)		073995 (_
	HEX HD. CAP SCREW (3/8-16 X		072352 (5		-
	COLLAR		073993 (-
	COUNTERWEIGHT		074014		
	ONAL 36" STN. STL. FLOAT ROD ASS				-
	RD. HD. MACH. SCREW (6-32 X				
	FLOAT (STN. STL.)		073998 (
_	STOP		074018 (<u> </u>
	FLOAT ROD (STN. STL.)		074024 (
	STUD (STN. STL.)		074025 (
_	COUNTERWEIGHT		074014		<u> </u>
	IONAL 54" STN. STL. FLOAT ROI			· · · ·	/I
	RD. HD. MACH. SCREW (6-32 X				
	FLOAT (STN. STL.)		073998 (
	STOP		074018 (
۱.S.	COUNTERWEIGHT	1	0/4014	<u>(</u> 348–F) 1
15	FLOAT ROD (STN. STL.) STUD (STN. STL.) COUNTERWEIGHT	1	074024(074025(074014	(348–KE)) 2
	FORM NO. 107819			2005002	
	B NUMBER CONVERSION	1588		20DEC02	
	REV DESCRIPTION	ECO	DWN	DATE	APVD

OSMONICS

ROCKFORD OPERATIONS

JWB 17JUL01

SCALE DRAWN DATE

N/A

SERIES 420 DIAPHRAGM VALVES

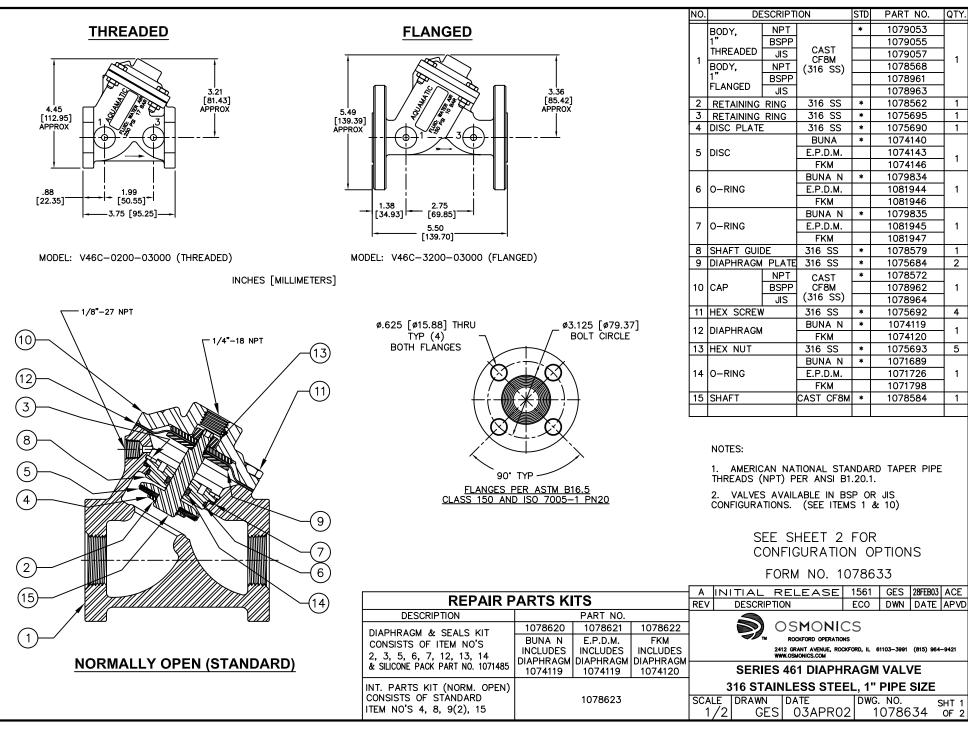
FLOAT ROD ASSEMBLIES

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DWG. NO.

1078194

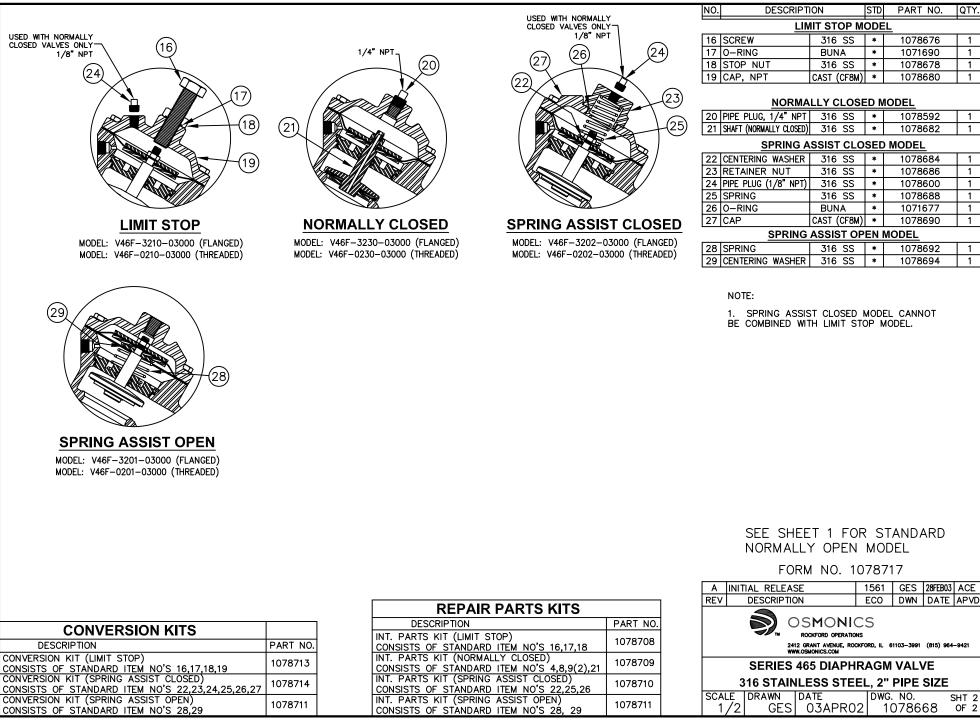
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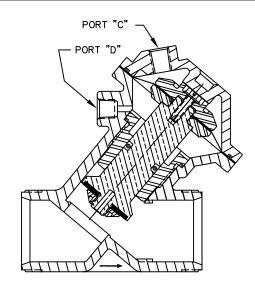
IAPHRAGM STAINLES S ഗ

USED WITH NORMALLY CLOSED VALVES ONLY (1/8" NPT) (1/8"		USED WITH NORMALLY CLOSED VALVES ONLY 23 22 23 25 26 26 27	NO. DESCRIPTION STD PART NO. QTY. LIMIT STOP MODEL	1" DIAPHRAGM
LIMIT STOP MODEL: V46C-3210-03000 (FLANGED) MODEL: V46C-0210-03000 (THREADED)	NORMALLY CLOSED MODEL: V46C-3230-03000 (FLANGED) MODEL: V46C-0230-03000 (THREADED)	SPRING ASSIST CLOSED MODEL: V46C-3202-03000 (FLANGED) MODEL: V46C-0202-03000 (THREADED)	SPRING ASSIST OPEN MODEL 4 DISC PLATE 316 SS * 1075690 1 28 SPRING 316 SS * 1078608 1 NOTE: 1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP MODEL.	1 VALVE - STAIN
SPRING ASSIST OP MODEL: V46C-3201-03000 (FLA MODEL: V46C-0201-03000 (THRE DESCRIPTION CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 16,17,18,19 CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 22,23,24,25 CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 4,8,28	NGED) ADED) DESC INT. PARTS ONSISTS O INT. PARTS CONSISTS O INT. PARTS CONSISTS O INT. PARTS CONSISTS O INT. PARTS INT. PARTS	REPAIR PARTS KITSCRIPTIONPART NO.KIT (LIMIT STOP)1078624F STANDARD ITEM NO'S 16,17,181078624KIT (NORMALLY CLOSED)1078625F STANDARD ITEM NO'S 4,8,9(2),211078625KIT (SPRING ASSIST CLOSED)1078626F STANDARD ITEM NO'S 22,25,261078626KIT (SPRING ASSIST OPEN)1078627F STANDARD ITEM NO'S 4,281078627	SEE SHEET 1 FOR STANDARD NORMALLY OPEN MODEL FORM NO. 1078633 A INITIAL RELEASE 1561 GES 28FEB03 ACE REV DESCRIPTION ECO DWN DATE APVD CONCORD OPERATIONS 2412 GRANT AKENUE, ROOKFORD, IL 61103-3991 (815) 964-9421 WWN.OSMONICS.COM SERIES 461 DIAPHRAGM VALVE 316 STAINLESS STEEL, 1" PIPE SIZE SCALE DRAWN DATE DWG. NO. SHT 2 1/2 GES 03APR02 1078634 OF 2	LESS STEEI

THREADED	FLANGED	NO. DESCRIPTION STD PART NO. QTY. BODY, NPT + 1079059 2" PSPD + 1070060
7.28 [185.04] APPROX 1.50 [38.10] 6.63 [168.28] 5.34 [135.54] APPROX 2.15 4.20	8.17 [207.40] APPROX [54.56] [106.78] 	1 THREADED JJS CAST 1079060 BODY, NPT CF8M 1079061 1 BODY, NPT (316 SS) 1078965 1 Z" BSPP JIS 1078965 1 Z RETAINING RING 316 SS * 1078566 1 3 RETAINING RING 316 SS * 1078654 1 4 DISC PLATE 316 SS * 1078654 1 5 DISC FKM 1074309 1 6 O-RING E.P.D.M. 1079836 1 FKM 1081948 1 1 1 6 O-RING E.P.D.M. 1081948 1 7 O-RING E.P.D.M. 1081949 1
MODEL: V46F-0200-03000 (THREADED)	MODEL: V46F-3200-03000 (FLANGED)	FKM * 1071796 8 SHAFT GUIDE 316 SS * 1078666 1 9 DIAPHRAGM PLATE 316 SS 1078664 2 10 CAP BSPP CF8M 1078966 1 10 CAP BSPP CF8M 1078966 1 11 HEX SCREW 316 SS * 1078652 6 12 DIAPHRAGM BUNA N * 1074296 1
1/8"-27 NPT 10 12 13	Ø.750 [Ø19.050] THRU TYP (4) BOTH FLANGES	13 HEX_NUT 316 SS * 1078650 7 14 O-RING E.P.D.M. 1071742 1 15 SHAFT CAST_CF8M * 1078670 1
	90. TYP (4)	NOTES: 1. AMERICAN NATIONAL STANDARD TAPER PIPE THREADS (NPT) PER ANSI B1.20.1. 2. VALVES AVAILABLE IN BSP OR JIS CONFIGURATIONS. (SEE ITEMS 1 & 10) SEE SHEET 2 FOR
	FLANGES PER ASTM B16.5 CLASS 150 AND ISO 7005-1 PN20 REPAIR PARTS KITS DESCRIPTION PART NO.	CONFIGURATION OPTIONS FORM NO. 1078717 A INITIAL RELEASE 1561 GES 28FEB03 ACE REV DESCRIPTION ECO DWN DATE APVD
NORMALLY OPEN (STANDARD)	DIAPHRAGM & SEALS KIT 1078704 1078705 1078705 CONSISTS OF ITEM NO'S BUNA N E.P.D.M. FKM 2, 3, 5, 6, 7, 12, 13, 14, 17, 26 INCLUDES INCLUDES INCLUDES BUICONE PACK PART NO. 1071485 1074296 1074296 1074296	Image: Second operations 2412 GRANT AVENUE, ROCKFORD, IL 61103-3991 (815) 964-9421 GM 7 SERIES 465 DIAPHRAGM VALVE
	INT. PARTS KIT (NORM. OPEN) CONSISTS OF STANDARD 1078707 ITEM NO'S 4, 8, 9(2), 15	316 STAINLESS STEEL, 2" PIPE SIZE SCALE DRAWN DATE DWG. NO. SHT 1 1/2 GES 03APR02 1078668 OF 2

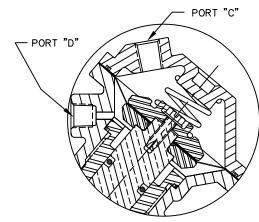


APHRAGM VALVE S TAINLES Ś ഗ ПП



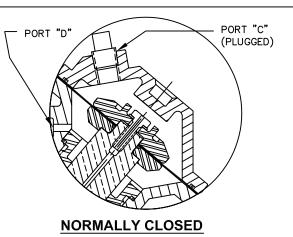
NORMALLY OPEN

LINE PRESSURE/FLOW AGAINST THE VALVE SEATING DISC WILL OPEN THE VALVE. CONTROL PRESSURE APPLIED TO THE TOP OF THE DIAPHRAGM (PORT "C") WILL CLOSE THE VALVE.



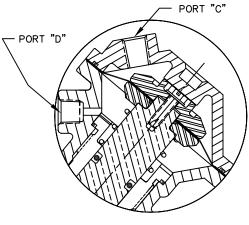
SPRING ASSIST CLOSED

SPRING SERVES AS AN ASSIST TO ASSURE FULL VALVE CLOSURE IN THE ABSENCE OF LINE AND CONTROL PRESSURES.



LINE PRESSURE AGAINST THE DISC, TRANSFERRED THRU THE VALVE'S HOLLOW SHAFT TO THE TOP OF THE DIAPHRAGM, WILL CLOSE THE VALVE. CONTROL PRESSURE AT PORT "D" WILL OPEN THE VALVE. ADDITION OF "SPRING ASSIST CLOSED" FEATURE IS RECOMMENDED FOR THE FOLLOWING CONDITIONS: 1. LOW PRESSURE AND/OR FLOW. 2. VALVE DISCHARGES TO ATMOSPHERE.

NORMALLY CLOSED FEATURE NOT RECOMMENDED FOR LINE MEDIA CONTAINING SOLIDS, HIGH TEMPERATURES OR OTHER MEDIA CONDITIONS WHICH MAY DAMAGE THE DIAPHRAGM.



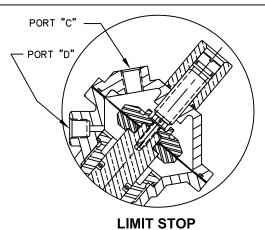
SPRING ASSIST OPEN

SPRING SERVES AS AN ASSIST TO ASSURE FULL VALVE OPENING IN THE ABSENCE OF LINE AND CONTROL PRESSURES. (STANDARD ON SERIES 520 VALVES.) FORM NO. 1081310

REV

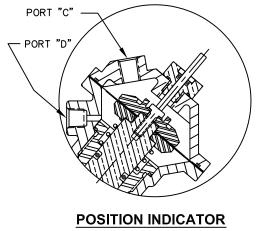
A RELEASE NEW DESIGN

DESCRIPTION



INCLUDES AN ADJUSTMENT SCREW WHICH

LIMITS THE VALVE STROKE. MAY BE USED TO CONTROL FLOW RATE, HOWEVER, FLOW RATE WILL VARY WITH CHANGES IN PRESSURE.



INDICATOR ROD IS ATTACHED TO MAIN VALVE STEM TO SHOW POSITION OF VALVE. ONLY AVAILABLE WITH SPRING ASSIST OPEN OPTION.



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						DIAPHRAGM			FLOW	RATE	PRESSU	RE DROP
SERIES	PIPE SIZE	SEAT DIAMETER	SEAT AREA	DIAPHRAGM AREA	TOTAL STROKE	CHAMBER (VOLUME)	* Cv	** Kv	@ 10 FT./SEC. (3 M./SEC.) NOTE 1	@ 20 FT./SEC. (6 M./SEC.) NOTE 2	@ 10 FT./SEC. (3 M./SEC.) NOTE 1	@ 20 FT./SEC. (6 M./SEC.) NOTE 2
	SIZE	<u>IN.</u> CM.	SQ. IN. SQ. CM.	SQ. IN. SQ. CM.	IN. CM.	CUBIC IN. CUBIC CM.			GAL./MIN. CU.M/HR	GAL./MIN. CU.M/HR	P.S.I. bar	P.S.I. bar
520	1/2"	.507	.20	52_	28	.55	4.0	3.4	6.2	12.4	2.4	9.6
020	1/2	1.28	1.30	3.35	.71	9.00	1.0	T.0 0.7	1.4	2.8	0.16	0.66
521	1"	.996	.77	2.07	.56	3.05	15.0	13.0	24	48	2.5	10.2
521		2.52	4.96	13.35	1.42	49.90	15.0	15.0	5.4	10.8	0.17	0.7
524	1 1/2"	1.62	2.06	3.86	1.00	7.32	79.0	307	64	128	2.8	11.3
524	' '/2	4.11	13.28	24.89	2.54	119	38.0	38.0 32.7	14.4	28.8	0.19	0.78
526	0 1 /0"	2.37	4.40	8.32	1.62	12.20	100.0	00.0 86.0	136	272	1.8	7.4
520	2 1/2"	6.01	28.38	53.66	4.11	200	100.0		31.0	62.0	0.12	0.51

PLASTIC DIAPHRAGM VALVES (520 THRU 526)

Cv - FLOWRATE (GAL./MIN.) OF WATER AT 60° F. AT 1 P.S.I. PRESSURE DROP

** Kv - FLOWRATE (CU. M./HR) OF WATER AT 15.5° C. AT 1 BAR PRESSURE DROP

NOTE 1: MAXIMUM CONTINUOUS VELOCITY THROUGH THE VALVE.

NOTE 2: MAXIMUM CONTINUOUS VELOCITY. EXTENDED SERVICE AT THIS VELOCITY MAY CAUSE CAVITATION.

TO DETERMINE FLOWRATE AT ANY GIVEN PRESSURE DROP, THE FOLLOWING FORMULAS CAN BE USED.

FOR WATER AND LIQUIDS:	FOR AIR AN	ID GAS:
	<u>WHEN P2 < .5P1</u>	<u>WHEN P2 > .5P1</u>
$Q = \frac{Cv \sqrt{\Delta P}}{\sqrt{e}}$	$Cv = \frac{CFM\sqrt{e}}{.5P1}$	$Cv = \frac{CFM\sqrt{e}}{\sqrt{\Delta P P2}}$
Q – FLOWRATE IN GAL./MIN. ΔP – PRESSURE DROP (LB./SQ. IN.) e – SPECIFIC GRAVITY (WATER = 1.00)	P1 - INLET PRES	/IN. FLOW AVITY (AIR = 1.00) SURE (LB./SQ. IN.) ESSURE (LB./SQ. IN.)

THE DATA PRESENTED HERE IS BELIEVED TO BE RELIABLE AND OFFERED AS SUGGESTION ONLY. ACTUAL RESULTS MAY VARY DEPENDING UPON APPLICATION.

FORM NO. 1081310



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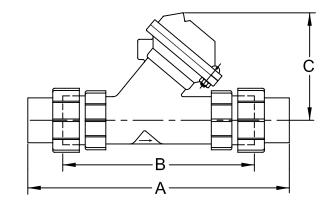
SERIES 520 DIAPHRAGM VALVES

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	A	RELEASE NEW DESIGN	1416	JWB	25JUL01	VP		DRAWN		DWG. NO.		
PRINTED IN U.S.A.	REV	DESCRIPTION	ECO	DWN	DATE	APVD] N/A	JWB	25JUL01		1078147	Г

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	- B - (INSIDE)

FEMALE SOCKET WELD END CONNECTOR

VALVE SERIES	STANDARD	DIAMETER A	DEPTH B	TAPER C
	A.S.T.M. 1/2"	.848/.856"	.875"	0', 24'
520	I.S.O. NW-15	20.1/20.3 MM	22.2 MM	0°, 15'
	J.I.S. 16	21.9/22.3 MM	22.2 MM	0°, 19'
	A.S.T.M. 1"	1.325/1.335"	1.125"	0°, 23'
521	I.S.O. NW-25	32.1/32.3 MM	28.6 MM	0°, 15'
	J.I.S. 25	31.9/32.4 MM	28.6 MM	0°, 16'
	A.S.T.M. 1-1/2"	1.912/1.924"	1.375"	0°, 23'
524	I.S.O. NW-40	50.1/50.3 MM	34.9 MM	0°, 15'
	J.I.S. 40	47.9/48.5 MM	34.9 MM	0°, 16'

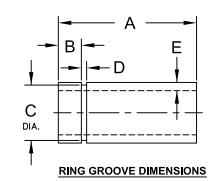


VALVE SERIES	UNITS	LENGTH A	LENGTH B	HEIGHT C
520	INCHES MM	7.00 177.8	<u>4.87</u> 123.7	<u>2.62</u> 66.5
521	INCHES MM	9.00	<u>6.31</u> 160.3	4.06
524	INCHES MM	<u>12.50</u> 317.5	9.31 23.5	<u>5.06</u> 128.5

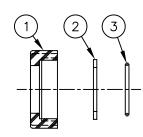
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SERIES 520 UNION END ADAPTOR KITS A.S.T.M. 1/2" E.P.D.M. 0-RING 1070184 + K520100 INCLUDES BUTYL 0-RING 1070185 + K520101 ITEMS 1,2,3,4,5 FKM 0-RING 1070186 K520102 I.S.O. NW-15 E.P.D.M. 0-RING 1070190 K520103 INCLUDES BUTYL 0-RING 1070191 K520104 ITEMS 1.2.3.4.5 FKM 0-RING 1070192 K520105 E.P.D.M. 0-RING 1070193 K520106 J.I.S. - 16 INCLUDES BUTYL 0-RING 1070194 + K520107 ITEMS 1,2,3,4,5 FKM 0-RING 1070195 K520108 **SERIES 521 UNION END ADAPTOR KITS** A.S.T.M. 1" E.P.D.M. 0-RING 1070202 K521100 INCLUDES BUTYL O-RING 1070153 - K521101 ITEMS 1,2,3,4,5 FKM 0-RING 1070154 K521102 E.P.D.M. 0-RING 1070204 K521103 I.S.O. NW-25 INCLUDES BUTYL 0-RING 1071155 K521104 ITEMS 1,2,3,4,5 FKM 0-RING 1071156 K521105 E.P.D.M. 0-RING 1070205 K521106 J.I.S. - 25 INCLUDES BUTYL 0-RING 1071157 K521107 ITEMS 1,2,3,4,5 FKM 0-RING 1071158 K521108 **SERIES 524 UNION END ADAPTOR KITS** E.P.D.M. 0-RING 1070208 K524100 A.S.T.M. 1-1/2" BUTYL 0-RING 1071220 INCLUDES - K524101 ITEMS 1,2,3,4,5 FKM O-RING 1070209 K524102 E.P.D.M. 0-RING 1070212 K524103 I.S.O. NW-40 INCLUDES BUTYL 0-RING 1071221 K524104 ITEMS 1,2,3,4,5 FKM O-RING 1070213 K524105 E.P.D.M. 0-RING 1070214 J.I.S. - 40 K524106 INCLUDES BUTYL 0-RING 1071222 K524107 ITEMS 1,2,3,4,5 FKM 0-RING 1070215 K524108 NOTE: ALL ADAPTOR KITS CONTAIN (2) ADAPTORS, (ONE KIT REQ'D PER VALVE)

NO.	DESCRI	PTION			PART	NO.			
	SERIES 520 UNION END ADAPTOR								
1									
-		A.S.T.	M. 1/2"		74991 -				
2	FEMALE SOCKET WELD		NW-15		74992 -				
	END CONNECTOR	J.I.	S. 16	107	74993 -{	20009			
			E.P.D.M	I. 107	1730 -0	RE-117			
3	0-RING		BUTYL	107	1766 -0	rj-117			
			FKM	107	'1801 - 0	RV-117			
4	TAILPIECE			107	4996 -5	20011K			
			E.P.D.M		1731 O				
5	O-RING		BUTYL		1767 -0				
			FKM	107	1802 0	RV-120			
	SERIES 521	UNION	END AD	ΑΡΤΟ	R				
1	TAILPIECE NUT			107	5067 -5	21010K			
		A.S.	T.M. 1"	10	75061 -	21007			
2	FEMALE SOCKET WELD		NW-25	10	75063 –	521008			
	END CONNECTOR	J.I.	S. 25		75065 -	521009			
			E.P.D.M	I. 107	1732 O	RE-125			
3	O-RING		BUTYL	107	1768 -0				
			FKM		1803 O				
4	TAILPIECE				5068 -5				
			E.P.D.M		1733 O				
5	O-RING		BUTYL		1769 -0				
			FKM	107	1804 0	RV-128			
	SERIES 524	UNION	END AD	ΑΡΤΟ	R				
1	TAILPIECE NUT			107	'5150 -5	24010K			
		A.S.T.N	1. 1 1/2"	10	75144 -	24007			
2	FEMALE SOCKET WELD	I.S.O.	NW-40	10	75146 -	24008			
	END CONNECTOR	J.I.S	6. 40	10	75148 -	24009			
			E.P.D.M	I. 107	1735 0	re-137			
3	O-RING		BUTYL	107	1771 0	rj-137			
			FKM		1807 0				
4	TAILPIECE				75151 -5				
			E.P.D.M		1736 0				
5	O-RING		BUTYL		<u>1772 0</u>				
			FKM	107	1808 -0	RV-138			
	SEE FORM 1078152 FOR SOCKET WELD & FLANGED ADAPTORS								
Г	FORM NO		309	IWR	25JUL01	VP			
R	REV DESCRIPTION		EC0						
	REV DESCRIPTION ECO DWN DATE APVD Image: Construct of the second operations 0 SMONICS Rockrond operations 2412 GRANT AVENUE, ROCKFORD, IL 61103-3991 (815) 964-9421								
⊢		05MONICS.COM		ACM		·c			
	SERIES 520,52					<u>د</u>			
L	END CON				15				
1		DATE		. NO.	1070	., <u>,</u> , , , ,			
	N/A JWB	25JU	LUIJ		1078	5140			



[VALVE SERIES	UNITS	LENGTH A	LOCATION B	DIA. C	WIDTH D	WALL THK E
	520	INCHES	2.25	0.500	0.730	0.115	0.147
	520	MM	57.2	12.7	18.5	2.9	3.7
	521	INCHES	3.00	0.500	1.200	0.115	0.179
	5Z I	MM	76.2	12.7	30.5	2.9	4.55
	524	INCHES	4.00	0.875	1.800	0.115	0.200
	524	MM	57.2	22.2	45.7	2.9	5.1

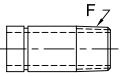


RETAINER NUT/SPLIT RING CONNECTOR

	VALVE SE	ERIES	52	20	52	21	52	24
1	RETAINER	NUT	1074974	-520-MK	1075041	-521-MK	1075112	-524-MK
2	SPLIT RIN	IG	1074975	-520 N	1075042	-521 N	1075113	-524-N
		E.P.D.M.	1071730	-ORE 117	1071732	ORE-125	107173 4	-ORE 132
3	0-RING	BUTYL	1071766	- 0RJ-117	1071768	-ORJ 125	1071770	- ORJ - 132
	FKM		1071801	-0RV-117	1071803	- 0RV - 125	1071806	- ORV-132

G

GROOVED ADAPTOR KITS

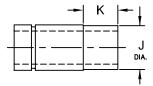


MALE PIPE THREAD

VALVE SERIES	520	521	524		VALVE SERIES	52	20	52	21	
PART NO.		1070227 - K521 - P	1070233 - K524 - P		PART NO.	1070222	- K520 PA	1070228	- K521 PA	1070234
DIM. F	1/2"NPT	1" NPT	1-1/2"NPT		DIM. G	3/8"	NPT	3/4"	NPT	1-1/
	 MALE SO		↓ Ha. T			M				K
VALVE SERIES	520	521	524			ALVE ERIES	52	20	52	21
PART NO.	1070220 - K520 - PC	1070226 - K521 PC	1070232 - K524 - PC		PA	RT NO.	1071057	K520-PE	1071091	- K521 - P
DIM. H	0.840 IN.	<u>1.315 IN.</u>	1.900 IN.			DIM. J	20.2	ММ	32.2	MM
	21.3 MM	33.4 MM	48.3 MM		D	IM. K	15.9	ММ	25.4	MM
N	OTE: ALL A	DAPTOR KI	S CONTAIN	(2) A[DAPTORS,	(ONE	ε κιτ	REQ'	D PEF	R VAL

FEMALE PIPE THREAD

VALVE SERIES	520	521	524		
PART NO.	1070222 - K520 - PA	1070228 - K521 - PA	1070234 K524-PA K524	-PF	
DIM. G	3/8"NPT	3/4" NPT	1-1/4" NPT 1-1/4	'BSP	

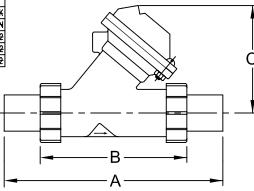


ETRIC)

VALVE SERIES	520	521	524					
PART NO.	1071057 K520-PE	1071091 K521-PE	1071162 K524 PE					
DIM. J	20.2 MM	32.2 MM	50.2 MM					
DIM. K	15.9 MM	25.4 MM	30.0 MM					
RS, (ONE KIT REQ'D PER VALVE)								

RETAINER N	RETAINER NUT/SPLIT RING CONNECTOR KITS										
SERIES 520	E.P.D.M. O-RING	1070238	-K520109								
INCLUDES	BUTYL O-RING	1070239	- K520110								
ITEMS 1,2,3	FKM O-RING	1070240	- K520111								
SERIES 521	E.P.D.M. O-RING	1070244	- K521109 -								
INCLUDES	BUTYL O-RING	1071159	- K521110 -								
ITEMS 1,2,3	FKM O-RING	1071160	- K521111								
SERIES 524	E.P.D.M. O-RING	1070246	-K524109								
INCLUDES	BUTYL O-RING	1071223	- K524110-								
ITEMS 1,2,3	FKM O-RING	1070247	- K524111								

NOTE: ALL CONNECTOR KITS CONTAIN (2) CONNECTORS, (ONE KIT REQ'D PER VALVE)

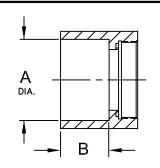


VALVE SERIES	UNITS	LENGTH	LENG B	тн	HEIGH ⁻ C	Г			
520	INCHES	7.00	3.9	<u> </u>	2.62	-			
	MM	177.8	99.8	-	66.5	_			
521	INCHES	9.00	4.50	_	4.06	-			
	ММ	228.6	114.	3	103.1				
524	INCHES	13.25	7.75	5	5.06				
524	MM	336.5	196.	9	128.5	-			
-	SEE FORM 1078152 FOR SOCKET WELD & FLANGED ADAPTORS FORM NO. 1081309								
A	RELEASE N	EW DESIGN	1	416	JB	25JUL01	VP		
REV	DESCRIP	TION		ECO	DWN	DATE	APVD		
	OSMONICS ROCKFORD OPERATIONS 2412 GRANT AVENUE, ROCKFORD, IL 61103-3991 (615) 964-9421 WWW.OSMOWCS.COM								
SE	SERIES 520, 521 & 524 DIAPHRAGM VALVE								
	END C	ONNECT	OR P	ART	5 & KI	TS			
SCAL	E DRAWN	DATE		DWG	. NO.				
N/	'A JW	B 25.	JUL01			1078	3140		
		•							

1/2", 1 I", 1-1/2" END CONNECTOR PARTS & KITS

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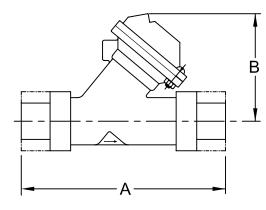




FEMALE SOCKET WELD END CONNECTOR KITS

VALVE SERIES	STANDARD	PART NO. *	DIAMETER A	DEPTH B
	A.S.T.M. 2"	K524-UF08U_P	2.376/2.384"	1.50"
524	I.S.O. NW-50	K524-UF50M_P	2.484/2.492"	1.50"
	J.I.S. 50	K524-UF50J_P	2.359/2.383"	1.50"
	A.S.T.M. 2-1/2"	K526-UF10U_P	2.875"	1.81"
526	I.S.O. NW-65	K526-UF65M_P	2.956/2.964"	1.81"
	J.I.S. 65	K526-UF65J_P	3.008"	1.81"

NOTE: ALL CONNECTOR KITS CONTAIN (2) CONNECTORS AND (2) O-RINGS* (ONE KIT REQ'D. PER VALVE)



VALVE SERIES	PIPE SIZE	UNITS	LENGTH A	HEIGHT B
524	2"	INCHES MM	<u>10.50</u> 266.7	<u>5.06</u> 128.5
526	2-1/2"	INCHES	15.00	7.31
J20	2=1/2	MM	381.0	185.7



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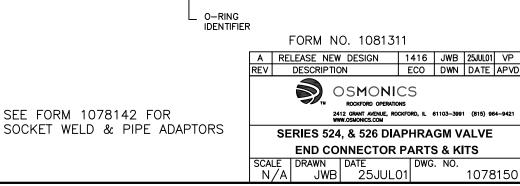
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VALVE SERIES	STANDARD	PART NO. *	DIAMETER A	LENGTH B		
	A.S.T.M. 2"	K524-UM08U_P	2.375/2.370"	1.50"		
524	I.S.O. NW-50	K524-UM50M_P	2.490/2.486"	1.50"		
	J.I.S. 50	K524-UM50J_P	2.384/2.364"	1.00"		
	A.S.T.M. 2-1/2"	K526-UM10U_P	2.882/2.868"	1.69"		
526	I.S.O. NW-65	K526-UM65M_P	2.965/2.953"	1.69"		
	J.I.S. 65	K526-UM65J_P	3.017/2.997"	1.38"		

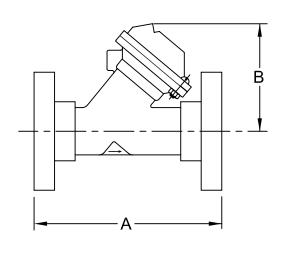
O-RING FOR SOCKET WELD END CONNECTORS

VALVE SERIES	MATERIAL	PART NO.	O-RING IDENTIFIER			
	E.P.D.M.	1071750 ORE-226	E			
524	BUTYL	1079844 ORJ-226	J			
	FKM	1071821 ORV-226	V			
	E.P.D.M.	1071753 - ORE - 232	E			
526	BUTYL	1071783 - ORJ - 232	J			
	FKM	1071825 ORV-232	V			

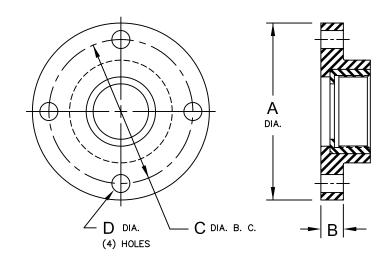
*WHEN ORDERING KITS, INSERT O-RING IDENTIFIER INTO PART NUMBER AS SHOWN BELOW EXAMPLE: K524-UF08UEP (2" FEMALE SOCKET WELD WITH E.P.D.M. O-RING)



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VALVE SERIES	PIPE SIZE	UNITS	LENGTH A	HEIGHT B
524	2"	INCHES MM	<u>9.00</u> 228.6	<u>5.06</u> 128.5
526	2-1/2"	INCHES MM	<u>11.37</u> 288.8	7.31 185.7
526	3"	INCHES MM	<u>12.37</u> 314.2	7.31 185.7



FLANGED END CONNECTOR KITS

VALVE SERIES	STANDARD	PART NO.	DIAMETER A	THICKNESS B	DIAMETER C	DIAMETER D
524	A.S.T.M. 2"	1070250 K524	- V 6.00"	.75"	4.750"	.688"
526	A.S.T.M. 2-1/2"	1070251 - K526	-L 6.94"	.94"	5.500"	.688"
520	A.S.T.M. 3"	1070252 - K526	-T 7.38	1.81"	6.000"	.750"

NOTE: ALL CONNECTOR KITS CONTAIN (2) CONNECTORS, (ONE KIT REQ'D PER VALVE)

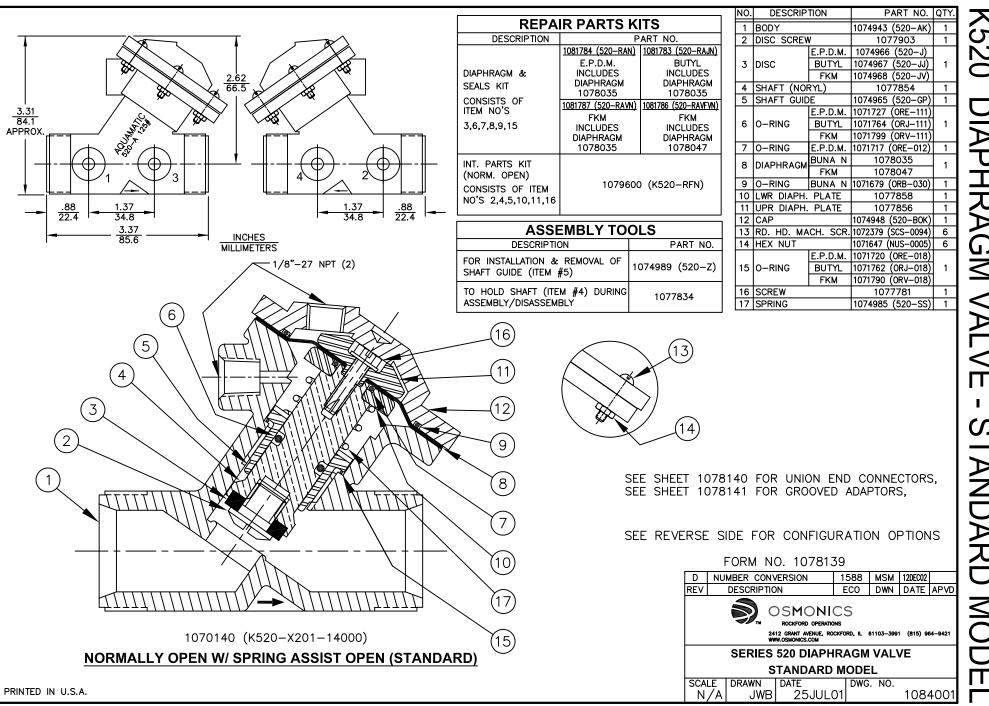
60	SEE FORM 1078142 FOROCKET WELD END CONNECTORSSOCKET WELD & PIPE ADAPTORS									
Т					FORM N	0. 108131	1			
	MATERIAL	PART NO.	Α	RE	LEASE NEW	DESIGN	1416	JWB	25JUL01	VP
t	E.P.D.M.	1071750 -ORE -226	REV		DESCRIPTIC	N	ECO	DWN	DATE	APVD
İ	BUTYL	1079844 ORJ-226					5			
	FKM	1071821 ORV-226				SMONIC ROCKFORD OPERATION				
Ţ	E.P.D.M.	1071753 ORE-232			24	12 GRANT AVENUE, ROCK W.OSMONICS.COM	FORD, IL (61103-399	I (815) 96	4-9421
l	BUTYL	1071783 ORJ 232		SE	PIES 524	. & 526 DIAI				
	FKM	1071825 ORV-232		JL						
	END CONNECTOR PARTS & KITS									
	SCALE DRAWN DATE DWG. NO.									
			N,	/Α	JWB	25JUL0	1		1078	3150

O-RING FOR SC

VALVE SERIES

524

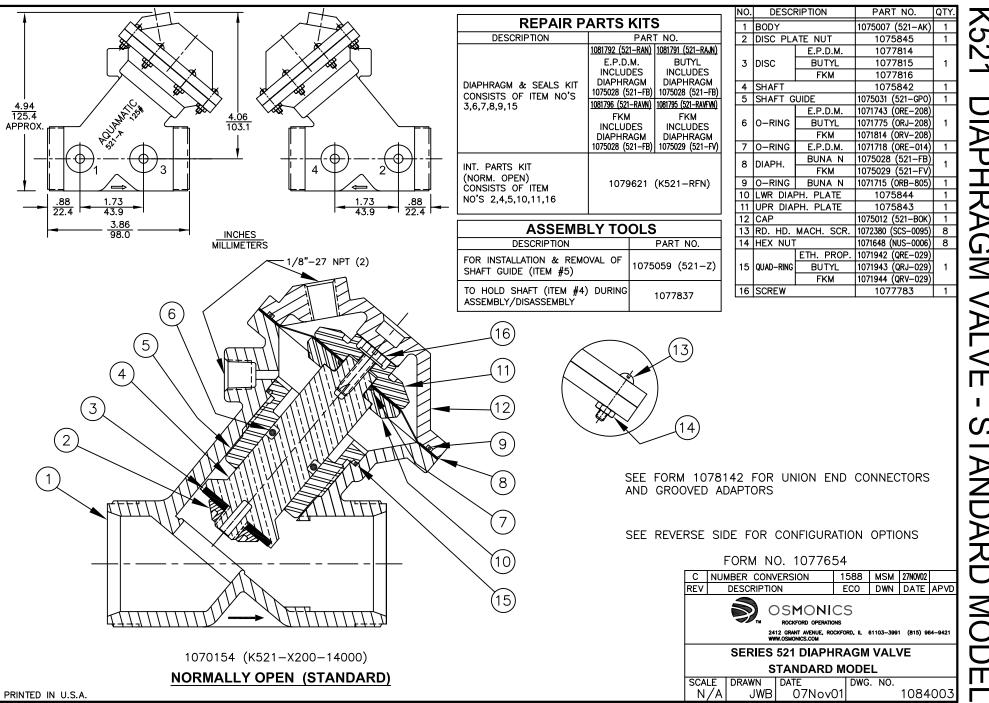
526



K520 IAPHRAGM VALVE STANDARD MOD Π

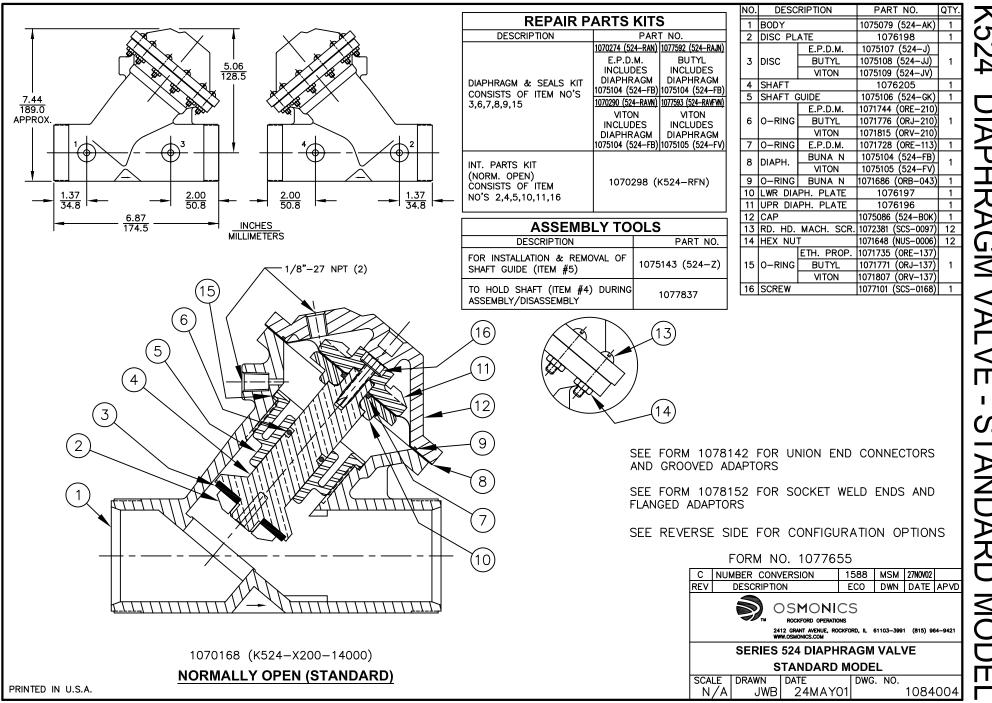
				NO.	DESCRIPTION	PART NO.	QT
	(LIMIT STOP MOI	DEL	
USED WITH NORMALLY	(SHOWN OUT OF			18 /	ADJUSTING SCREW	1074988 (520-Y)	T
CLOSED VALVES ONLY)	INSTALLS IN POR (1/8" NPT)				D-RING (BUNA)	1071667 (ORB-010)	
(1/8" NPT)	(1/8 NFT)	_ (25)			IMIT STOP HOUSING	1074987 (520-X)	
					D-RING (BUNA)	1071669 (ORB-013)	
		26) (3		22 0		1074946 (520-BBOK	
	(23)		(34)		NORMALLY CLOSED		4
(20)		(33)		23 6	PIPE PLUG (1/8" NPT)	1071912 (PLP-0006)	<u>л</u> 1
					6HAFT (N.C.)	1077905	
(19)			A water and a		SCREW	1077818	
					VASHER	1078037	ti
					DISC SCREW	1078324	1
			30		SPRING ASSIST CLOSI		-
					PRING RETAINER	1074986 (520-T)	
		(24) /	(31) /		-RING (BUNA)	1071669 (ORB-013)	
					PRING (ASSIST CLOSED)	1074981 (520–S)	+
		-(27) / XX	(32)		CREW	1074981 (520-5)	+
					VASHER	1078037	+
					SHAFT	1077907	+
		-		34 (1074946 (520-BBOK	
1070141 (K520-X211-1400	0) 1071084 (K520-)	(231–14000) 1070143	(K520-X202-14000)	54 (•	4
LIMIT STOP			G ASSIST CLOSED		POSITION INDICATOR		
					SCREW	1077826	
					VASHER	1078037	
					-RING (BUNA)	1071669 (ORB-013) 1075037 (521-KA)	
		NOTE			GUIDE HOUSING ASSY	1075037 (521–KA) 1077907	
(40) (38)		NOTE:		40 0		1077907 1074946 (520–BBOK	
		1. NORMALLY CLOSED COMBINED WITH SPRING 2. LIMIT STOP MODEL	G ASSIST CLOSED.				
37		COMBINED WITH SPRING OPTION.	G ASSIST CLOSED				
35	/	3. POSITION INDICATOR FURNISHED WITH NORM SPRING ASSIST OPEN	IALLY OPEN, OPTION ONLY.	FT 10	78140 FOR UNION E		5
(36)					78141 FOR GROOVE		.,
1071079(K520-X221-1400 POSITION INDICATOR	0)				SEE REVERSE SIDE STANDARD NORMAL		ΞL
		REPAIR PAR			FORM NO. 10781	39	
		DESCRIPTION	PART NO.	D	NUMBER CONVERSION	1588 MSM 12DEC02	<u> </u>
	KITS	INT. PARTS KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 18 THRU	J 21 1074973 (520–LS)	REV		ECO DWN DATE	
DESCRIPTION CONVERSION KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 18 THRU 22	PART NO. 1071056 (K520–LSC)	INT. PARTS KIT (NORM. CLOSED) CONSISTS OF ITEM NO'S 5,10,11,24,25,26,27	1079601 (K520-RGN)		SMONI ROCKFORD OPERAT 2412 GRANT AVENUE, R WWW.OSMONICS.COM		64-942
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO'S 28 THRU 34	1079602 (K520-SCCN)	INT. PARTS KIT (SPRING ASSIST CONSISTS OF ITEM NO'S 29 THR			SERIES 520 DIAPH OPTIONAL		
CONVERSION KIT (POSITION INDICATOR) CONSISTS OF ITEM NO'S 35 THRU 40	1079599 (K520-PICN)	INT. PARTS KIT (POSITION INDICA CONSISTS OF ITEM NO'S 35 THR		SCAL N		01 DWG. NO. 1084	400

K520 QTY. 1 1 1 1 1 1 1 1 1 **RAGM VALVE** 1 1 1 1 1 1 1 1 1 1 1 1 י כ PTIONAL MODEL MALLY OPEN MODEL ECO DWN DATE APVD 'ENUE, ROCKFORD, IL 61103-3991 (815) 964-9421 COM S 1084001



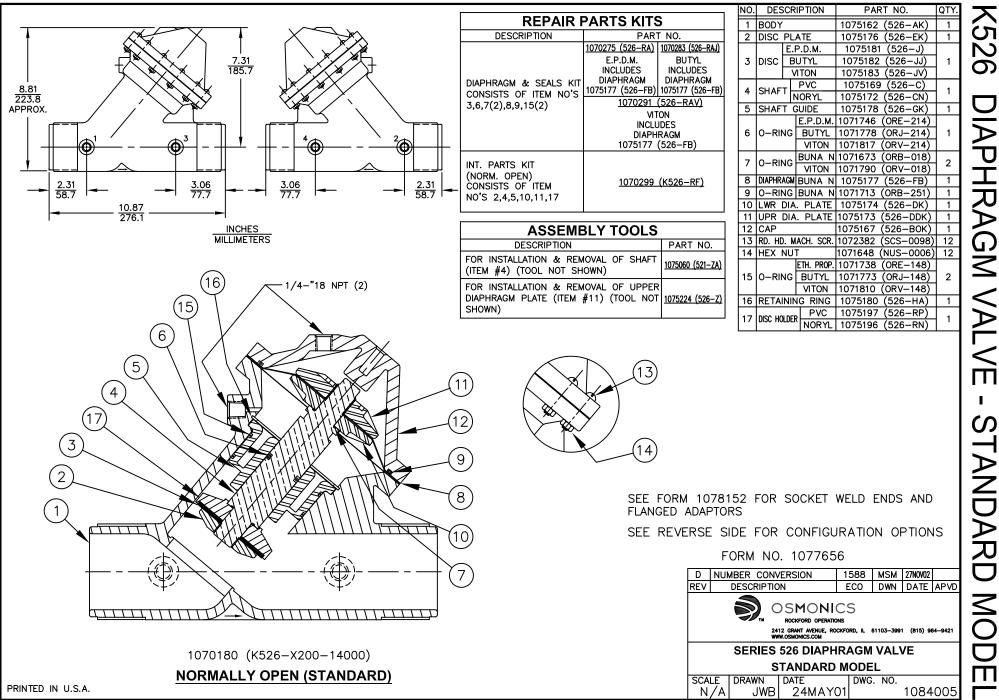
入52 2 APHRAGM VALVE STANDARD MOD

(USED WITH NORMALLY CLOSED VALVES ONLY) (1/8" NPT) (1/8" NPT) (1/8	25 26 24		(USED WITH NORM. CLOSED VALVES O (1/8" NPT)	Imit stop model 18 ADJUSTING SCREW 1075058 (521-Y) 1 19 O-RING BUNA N 1071668 (0RB-012) 1 20 LIMIT STOP HOUSING 1075057 (521-X) 1 21 O-RING BUNA N 1071671 (0RB-016) 1 22 CAP 1075010 (521-BB0K) 1 NORMALLY CLOSED MODEL 23 PIPE PLUG (1/8" NPT) 1071912 (PLP-0006) 1 24 SHAFT (N.C.) 1077909 1 25 SCREW 1077830 1 26 WASHER 1078066 1 SPRING ASSIST CLOSED MODEL 27 SPRING (ASSIST CLOSED) 1075051 (521-S) 1 SPRING ASSIST OPEN MODEL 28 SPRING (ASSIST OPEN) 1074264 (424-S) 1 POSITION INDICATOR MODEL	K521 DIAPHRAGM
1070155 (K521–X210–14000) 1070159 (K521– LIMIT STOP NORMALLY	•	1070157 (K521–X202–14 SPRING ASSIST CLO		29 SCREW 1077832 1 30 WASHER 1078066 1 31 O-RING BUNA N 1071671 (ORB-016) 1	
1070158 (K521-X201-14000)	•	NOTE: 1. POSITION INDICATOR MOD BE COMBINED WITH NORMAL OR LIMIT STOP OPTIONS. 2. POSITION INDICATOR MOD FURNISHED WITH SPRING AS OPTION.	EL CANNOT LY CLOSED SIST OPEN SEE FORM	32 GUIDE HOUSING ASSY 1075037 (521-KA) 1 33 INDICATOR SHAFT 1078062 1 34 SHAFT 1077911 1 35 RETAINING RING 1076200 1 36 CAP 1075010 (521-BB0K) 1 1078142 FOR UNION END CONNECTORS DVED ADAPTORS SEE SHEET K521-1F FOR	VALVE - OPTIONAL
SPRING ASSIST OPEN POSITION INDIC		REPAIR PARTS KI DESCRIPTION	TS PART NO.	STANDARD NORMALLY OPEN MODEL	\overline{A}
CONVERSION KITS		RTS KIT (LIMIT STOP) IS OF ITEM NO'S 18 THRU 21	1075040 (521–LS)	FORM NO. 1077654	
DESCRIPTION PART NO		RTS KIT (NORM. CLOSED)		C NUMBER CONVERSION 1588 MSM 27N0V02 REV DESCRIPTION ECO DWN DATE APVD	~
CONVERSION KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 18 THRU 22 1071090 (K521-	CONSIS		1079622 (K521-RGN)		0
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO. 27 1075054 (521-		RTS KIT (SPRING ASSIST CLOSED) IS OF ITEM NO. 27	1075054 (521–SC)	VI ROCKFORD OPERATIONS 2412 GRANT AVENUE, ROCKFORD, IL 61103-3991 (815) 964-9421 WWW.OSMONDES.COM	Ū
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 28 1075055 (521-	SO) INT. PAI CONSIST	RTS KIT (SPRING ASSIST OPEN) IS OF ITEM NO. 28	1075055 (521–S0)	SERIES 521 DIAPHRAGM VALVE OPTIONAL MODELS	
CONVERSION KIT (POSITION INDICATOR) CONSISTS OF ITEM NO'S 29 THRU 36 1079620 (K521-		RTS KIT (POSITION INDICATOR) IS OF ITEM NO'S 29 THRU 35	1081790 (521-PIN)	SCALE DRAWN DATE DWG. NO. N/A JWB 07Nov01 1084003	S.

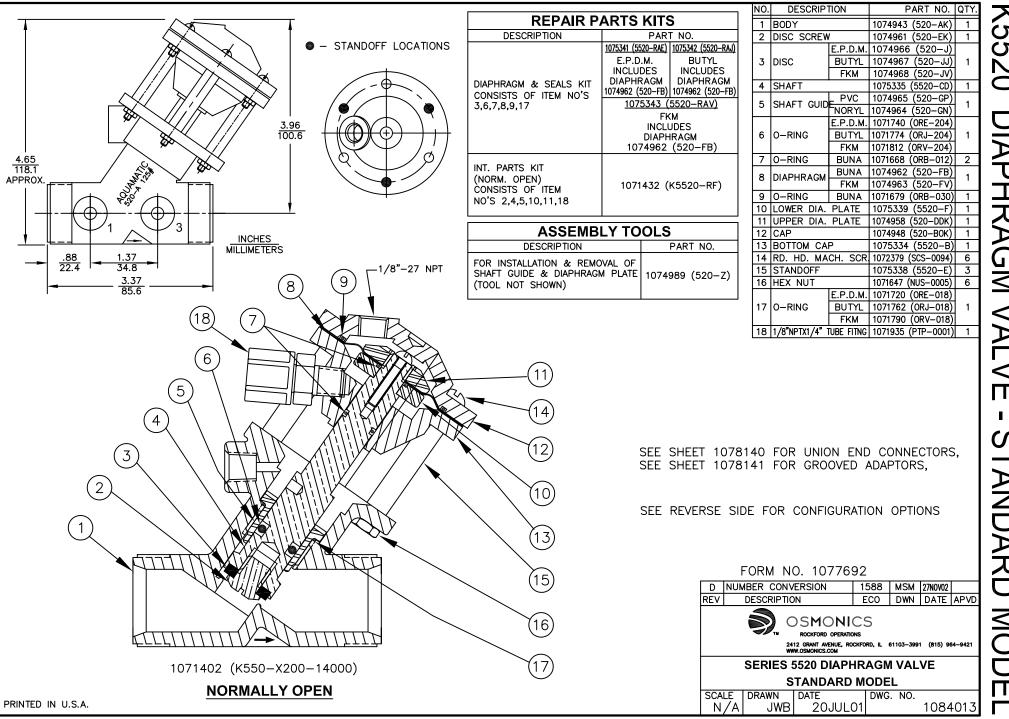


K524 IAPHRAGM VALVE L STANDARD MOD Π

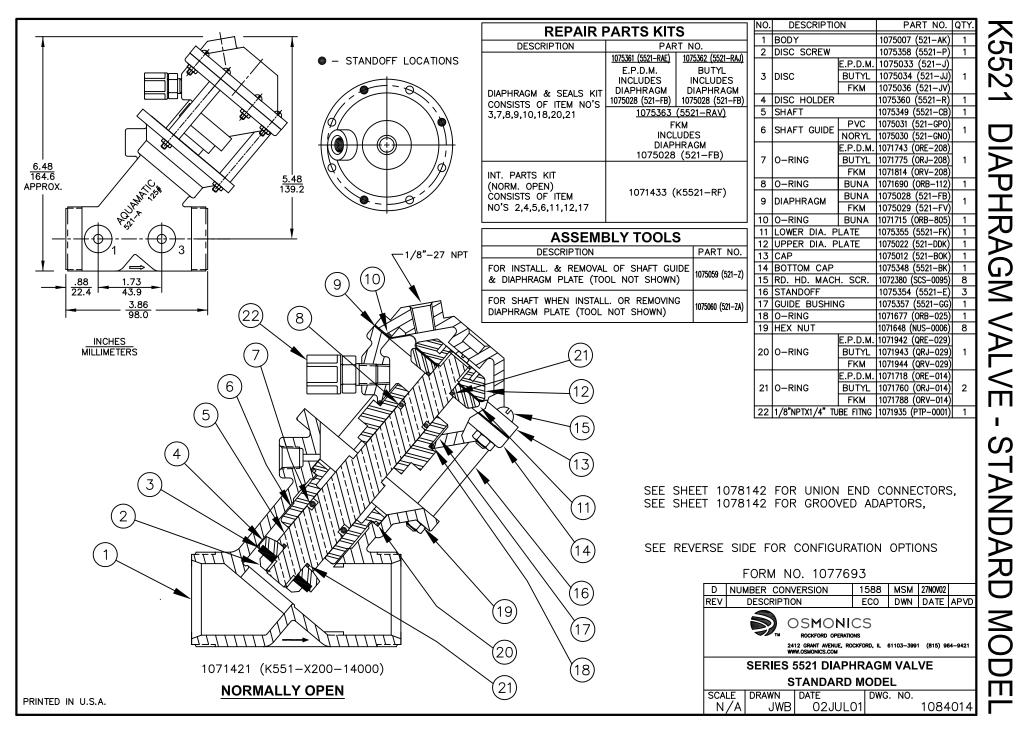
Coordination Conversion Conv	(USED WITH NORMALLY					NO. DESCRIPTION PART NO.	
1000000000000000000000000000000000000	CLOSED VALVES ONLY)	(23) (23)	5)				
1000000000000000000000000000000000000							
Vision		AHA	\sim			20 LIMIT STOP HOUSING 1075141 (524-X)	4
NORMALLY CLOSED MODEL NORMALLY CLOSED NORMALLY CLOSED NORMALLY CLOSED NORMALLY CLOSED NORMALLY CLOSED NORMALLY CLOSED NORMALLY CLOSED <td></td> <td></td> <td></td> <td>(in the second /td> <td>\backslash</td> <td></td> <td>) 1</td>				(in the second	\backslash) 1
Image: Construction of the state of the			\angle		\backslash		
LIMIT STOP NOTKINALLET CLOSED SPRING ASSIST CLOSED Image: Close of the clo			\times	1 RT SIA		23 PIPE PLUG (1/8" NPT) 1071912 (PLP-0006	
LIMIT STOP NOTKINALLET CLOSED SPRING ASSIST CLOSED ID7507 (271-KA) II VIEW					$\overline{\mathbf{a}}$		
LIMIT STOP NOTKINALLET CLOSED SPRING ASSIST CLOSED ID7507 (271-KA) II VIEW							
LIMIT STOP NOTKINALLET CLOSED SPRING ASSIST CLOSED Image: Close of the clo							
LIMIT STOP NOTKINALLET CLOSED SPRING ASSIST CLOSED Image: Close of the clo							上山 刀
LIMIT STOP NOTKINALLET CLOSED SPRING ASSIST CLOSED ID7507 (271-KA) II VIEW				$(26) \qquad			
LIMIT STOP NOTKINALLET CLOSED SPRING ASSIST CLOSED ID7507 (271-KA) II VIEW							10
LIMIT STOP NOTKINALLET CLOSED SPRING ASSIST CLOSED ID7507 (271-KA) II VIEW					((0 0 0)	29 SCREW 1076203	
Immodule Instructure Outwink							$\frac{1}{1} \leq \frac{1}{1}$
Note: Intermediate Note: Note: Intermediate Intermediate </td <td></td> <td>NORMALLICLO</td> <td>SLD</td> <td>SPRING ASSIST CLUS</td> <td>SED</td> <td>32 GUIDE HOUSING ASSY 1075037 (521-KA)</td> <td></td>		NORMALLICLO	SLD	SPRING ASSIST CLUS	SED	32 GUIDE HOUSING ASSY 1075037 (521-KA)	
Note: Intermediate Note: Note: Intermediate Intermediate </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>$+\frac{1}{1}$</td>							$+\frac{1}{1}$
Note: Intermediate Note: Note: Intermediate Intermediate </td <td></td> <td>$\overline{(32)}$</td> <td></td> <td></td> <td></td> <td>35 SHAFT 1076239</td> <td></td>		$\overline{(32)}$				35 SHAFT 1076239	
Note: Intermediate Note: Note: Intermediate Intermediate </td <td></td> <td></td> <td>\checkmark</td> <td></td> <td></td> <td>[36]CAP 1075083 (524–BBO</td> <td></td>			\checkmark			[36]CAP 1075083 (524–BBO	
Note: Intermediate Note: Note: Intermediate Intermediate </td <td></td> <td></td> <td>(33)</td> <td>Λ</td> <td></td> <td></td> <td> <</td>			(33)	Λ			<
Image: Second secon		TANK		NOTE:			
OR LIMIT STOP OPTIONS. SEE FORM 1078142 FOR UNION END CONNECTORS AND GROOVED ADAPTORS SPRING ASSIST OPEN DOTITION INDICATOR POSITION INDICATOR NEEPAIR PARTS KITS CONVERSION KITS (LIMIT STOP) CONSISTS OF ITEM NO'S 18 THRU 22 INT. PARTS KIT (SPRING ASSIST OPEN) INT. PARTS KIT (SPRING ASSIST CLOSED) INT. PARTS KIT (SPRING ASSIST CLOSED) CONVERSION KIT (SPRING ASSIST OPEN) INT. PARTS KIT (SPRING ASSIST CLOSED) INT. PARTS KIT (SPRING ASSIST CLOSED) INT. PARTS KIT (SPRING ASSIST OPEN)			(36	1. POSITION INDICATOR MODEL			
PORNSHED with Spring ASSIST OPEN PORNSHED with Spring ASSIST OPEN 1070169 (K524-X201-14000) SPRING ASSIST OPEN 1071209 (K524-X221-14000) SEE FORM 1078152 FOR SOCKET WELD ENDS AND FLANGED ADAPTORS SEE FORM 1078152 FOR SOCKET WELD ENDS AND FLANGED ADAPTORS SPRING ASSIST OPEN 1071209 (K524-X221-14000) Sector Prion PART NO. Socket Mello Ends And GROOVED ADAPTORS Sector Prion PART NO. CONVERSION KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 18 THRU 22 1071161 (K524-LSC) CONVERSION KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 18 THRU 22 1071161 (K524-LSC) CONVERSION KIT (SPRING ASSIST CLOSED) 1075124 (524-SC) CONVERSION KIT (SPRING ASSIST OPEN) 1075125 (524-SO) CONVERSION KIT (SPRING ASSIST OPEN) 1075125 (524-SO) CONSISTS OF ITEM NO. 28 1075125 (524-SO) CONSISTS OF ITEM NO. 27 1075125 (524-SO) CONSISTS OF ITEM NO. 27 1075125 (524-SO) CONSISTS OF ITEM NO. 28 1075125 (524-SO) <td< td=""><td></td><td>E E A X -</td><td></td><td>OR LIMIT STOP OPTIONS.</td><td>OLOGED</td><td></td><td></td></td<>		E E A X -		OR LIMIT STOP OPTIONS.	OLOGED		
PORNSHED with Spring ASSIST OPEN PORNSHED with Spring ASSIST OPEN 1070169 (K524-X201-14000) SPRING ASSIST OPEN 1071209 (K524-X221-14000) SEE FORM 1078152 FOR SOCKET WELD ENDS AND FLANGED ADAPTORS SEE FORM 1078152 FOR SOCKET WELD ENDS AND FLANGED ADAPTORS SPRING ASSIST OPEN 1071209 (K524-X221-14000) Sector Prion PART NO. Socket Mello Ends And GROOVED ADAPTORS Sector Prion PART NO. CONVERSION KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 18 THRU 22 1071161 (K524-LSC) CONVERSION KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 18 THRU 22 1071161 (K524-LSC) CONVERSION KIT (SPRING ASSIST CLOSED) 1075124 (524-SC) CONVERSION KIT (SPRING ASSIST OPEN) 1075125 (524-SO) CONVERSION KIT (SPRING ASSIST OPEN) 1075125 (524-SO) CONSISTS OF ITEM NO. 28 1075125 (524-SO) CONSISTS OF ITEM NO. 27 1075125 (524-SO) CONSISTS OF ITEM NO. 27 1075125 (524-SO) CONSISTS OF ITEM NO. 28 1075125 (524-SO) <td< td=""><td></td><td></td><td>-(34)</td><td></td><td></td><td></td><td></td></td<>			-(34)				
CONVERSION KITS DESCRIPTION PART NO. CONVERSION KIT (LIMIT STOP) OT1161 (K524-LSC) CONVERSION KIT (SPRING ASSIST CLOSED) 1071161 (K524-LSC) CONVERSION KIT (SPRING ASSIST CLOSED) 1075124 (524-SC) CONVERSION KIT (SPRING ASSIST OPEN) 1075125 (524-SO) CONVERSION KIT (POSITION INDICATOR) 1075125 (524-SO) CONVERSION KIT (POSITION INDICATOR) 1075125 (524-SO)	ANTIKI K		\sim				
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CONVERSION KITS DESCRIPTION PART NO. CONVERSION KIT (LIMIT STOP) OT1161 (K524-LSC) CONVERSION KIT (SPRING ASSIST CLOSED) 1071161 (K524-LSC) CONVERSION KIT (SPRING ASSIST CLOSED) 1075124 (524-SC) CONVERSION KIT (SPRING ASSIST OPEN) 1075125 (524-SO) CONVERSION KIT (POSITION INDICATOR) 1075125 (524-SO) CONVERSION KIT (POSITION INDICATOR) 1075125 (524-SO)	SPRING ASSIST OPEN	POSITION INDICA					
CONVERSION KITS CONVERSION KITS CONSISTS OF ITEM NO'S 18 THRU 21 IO/STIT (524-LS) CONVERSION KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 18 THRU 22 IO/TI161 (K524-LSC) CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO. 27 IO/TI161 (K524-LSC) CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO. 27 IO/TI125 (524-SC) CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 27 IO/TI125 (524-SC) INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 27 IO/TI25 (524-SC) INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 28 IO/TI25 (524-SC) INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 28 IO/TI25 (524-SC) INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 28 IO/TI25 (524-SC) SERIES 524 DIAPHRAGM VALVE OPTIONAL MODELS OPTIONAL MODELS			ŀ			EOPM NO 1077655	
DESCRIPTION PART NU. CONVERSION KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 18 THRU 22 1071161 (K524-LSC) CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO. 27 1075124 (524-SC) CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 27 1075125 (524-SC) INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 28 1075125 (524-SC) INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 28 1075125 (524-SC) INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 28 1075125 (524-SC) INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 28 1075125 (524-SC) INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 28 1075125 (524-SC) INT. PARTS KIT (POSITION INDICATOR) 1075125 (524-SC)		KITS			1075111 (524–LS)		02
CONSISTS OF ITEM NO'S 18 THRU 22 10/1161 (K524-LSC) CONVERSION KIT (SPRING ASSIST CLOSED) 1075124 (524-SC) CONVERSION KIT (SPRING ASSIST CLOSED) 1075124 (524-SC) CONVERSION KIT (SPRING ASSIST OPEN) 1075125 (524-SO) INT. PARTS KIT (SPRING ASSIST OPEN) 1075125 (524-SO) INT. PARTS KIT (POSITION INDICATOR) SERIES 524 DIAPHRAGM VALVE OPTIONAL MODELS OPTIONAL MODELS		PART NO.			4070707 (VC04 D0V)	REV DESCRIPTION FCO DWN DATI	
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO. 27 1075124 (524-SC) INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO. 27 1075124 (524-SC) INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO. 27 1075124 (524-SC) INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO. 28 1075125 (524-SO) INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 28 1075125 (524-SO) INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 28 1075125 (524-SO) INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 28 1075125 (524-SO) INT. PARTS KIT (POSITION INDICATOR) INT. PARTS KIT (POSITION INDICATOR)		1071161 (K524–LSC)			1076307 (K524-KGN)		
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 28 1075125 (524-S0) CONVERSION KIT (POSITION INDICATOR) 1075125 (524-S0)) 1075124 (524-50)			1075124 (524 50)	ROCKFORD OPERATIONS	
CONSISTS OF ITEM NO. 28 10/5125 (524-50) CONSISTS OF ITEM NO. 28 00 OPTIONAL MODELS		10/5124 (524-50)		CONSISTS OF ITEM NO. 27	10/5124 (524-50)	WWW.OSMONICS.COM	$- \simeq$
		1075125 (524-S0)			1075125 (524–S0)		
CONSISTS OF ITEM NO'S 29 THRU 36 1079643 (K524-PICN) CONSISTS OF ITEM NO'S 29 THRU 36 1077591 (524-PIN) N/A JWB 24MAY01 1084004			ŀ		4077504 (554 533)		
		1079643 (K524–PICN)			1077591 (524–PIN)	N/A JWB 24MAY01 108	34004 ()



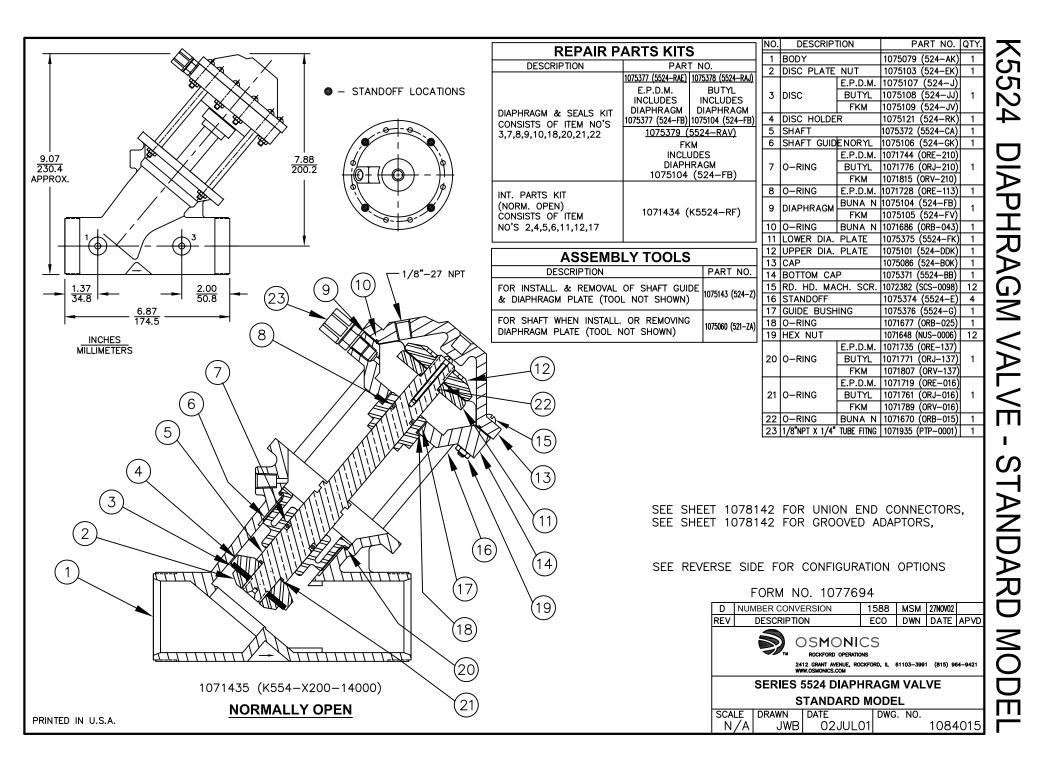
	_ (USED WITH NORMALLY					NO. DESCRIPTION PART NO. QTY.
	CLOSED VALVES ONLY)					LIMIT STOP MODEL
	(1/4" NPT)					18 ADJUSTING SCREW 1075223 (526-Y) 1
	(19)					19 O-RING BUNA N 1071668 (ORB-012) 1
X		(23)	\backslash		\backslash	20 LIMIT STOP HOUSING 1075222 (526-X) 1 21 O-RING BUNA N 1071671 (ORB-016) 1
	(23)				\backslash	21 O-RING BUNA N 1071671 (ORB-016) 1 22 CAP 1075165 (526-BB0K) 1
					\backslash	NORMALLY CLOSED MODEL
			/			23 PIPE PLUG (1/4" NPT) 1071913 (PLP-0010) 1
	21			25		24 SHAFT (N.C.) 1075170 (526–CC) 1
			24)			SPRING ASSIST CLOSED MODEL
					1	25 SPRING (ASSIST CLOSED) 1075202 (526–SS) 1
					/	SPRING ASSIST OPEN MODEL
						26 SPRING (ASSIST OPEN) 1075198 (526–S) 1
				XILLING		POSITION INDICATOR MODEL
\sim						27 O-RING BUNA N 1071671 (ORB-016) 1
	(22)					28 GUIDE HOUSING ASSY 1075038 (521–KB) 1
						29 INDICATOR SHAFT 1075184 (526-KD) 1
10701		71256 (K526-X230-14		•		30 SHAFT 1075171 (526-CD) 1
	LIMIT STOP	NORMALLY CLOSE	D	SPRING ASSIST CLOS	<u>SED</u>	31 CAP 1075165 (526-BBOK) 1
			29 31 30	NOTE: 1. POSITION INDICATOR MODEL BE COMBINED WITH NORMALLY OR LIMIT STOP OPTIONS. 2. POSITION INDICATOR MODEL FURNISHED WITH SPRING ASSI OPTION.	r Closed - St open	I 1078152 FOR SOCKET WELD ENDS AND ADAPTORS
	· · · · · · · · · · · · · · · · · · ·	71255 (K526–X221–1 POSITION INDICATO	,			SEE REVERSE SIDE FOR
<u>3</u>	RING ASSIST OPEN		∽∟	REPAIR PARTS K		STANDARD NORMALLY OPEN MODEL
				DESCRIPTION	PART NO.	
Γ	CONVERSION I	KITS		NT. PARTS KIT (LIMIT STOP) ONSISTS OF ITEM NO'S 18 THRU 21	1075191 (526–LS)	FORM NO. 1077656
	DESCRIPTION	PART NO.		NT. PARTS KIT (NORM. CLOSED)		D NUMBER CONVERSION 1588 MSM 27N0V02
·	CONVERSION KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 18 THRU 22	1071225 (K526–LSC)		ONSISTS OF ITEM NO'S ,5,10,11,24	1071226 (K526–RG)	REV DESCRIPTION ECO DWN DATE APVD
	CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO. 27	1075200 (526–SC)		IT. PARTS KIT (SPRING ASSIST CLOSED) ONSISTS OF ITEM NO. 25	1075200 (526–SC)	ROCKFORD OPERATIONS 2412 ORANT AVENUE, ROCKFORD, IL 61103-3991 (815) 964-9421 WWW.OSMONCE.COM
	CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 28	1071227 (K526–SO)		IT. PARTS KIT (SPRING ASSIST OPEN) ONSISTS OF ITEM NO. 26	1071227 (K526–S0)	SERIES 526 DIAPHRAGM VALVE OPTIONAL MODELS
	CONVERSION KIT (POSITION INDICATOR) CONSISTS OF ITEM NO'S 27 THRU 31	1079674 (K526–PIC)		IT. PARTS KIT (POSITION INDICATOR) ONSISTS OF ITEM NO'S 27 THRU 30	1081804 (526–PI)	SCALE DRAWN DATE DWG. NO. N/A JWB 24MAY01 1084005



		NO. DESCRIPTION PART NO. QTY. LIMIT STOP MODEL 20 ADJUSTING SCREW 1074988 (520-Y) 1 21 O-RING BUNA N 1071667 (0RB-010) 1 22 LIMIT STOP HOUSING 1074987 (520-X) 1 23 O-RING BUNA N 1071669 (ORB-013) 1 24 CAP 1074946 (520-BBOK) 1 24 CAP 1075344 (5520-RK) 1 25 LOWER SPRING RETAINER 1075345 (5520-SA) 1 26 SPRING 1075053 (521-SB) 1 7 LOWER SPRING RETAINER 10750344 (5520-RK) 1 28 SPRING 1075053 (521-SB) 1 FAILSAFE SPRING CLOSED - 100 PSI 1 1 29 LOWER SPRING RETAINER 10750344 (5520-RK) 1 30 SPRING 1075053 (521-SB) 1 31 UPPER SPRING RETAINER 1075337 (5520-D) 1
1071406 (K550–X203–14000) <u>FAILSAFE</u> SPRING CLOSED 30 PSI	1071409 (K550–X204–14000) 10714125 (K550–X205–14000) <u>FAILSAFE</u> <u>FAILSAFE</u> SPRING CLOSED 60 PSI SPRING CLOSED 100 PSI	NOTE: 1. LIMIT STOP OPTION ONLY OFFERED ON
SPRING CLOSED 30 P31	SPRING CLOSED 60 PSI	
		1. LIMIT STOP OPTION ONLY OFFERED ON FAIL SAFE SPRING CLOSED MODELS.
22		2. FAILSAFE OPTION NOT OFFERED IN CONVERSION KIT FORM DUE TO SPECIAL ASSEMBLY REQUIREMENTS.
	SEE	SHEET 1078140 FOR UNION END CONNECTORS,
		SHEET 1078141 FOR GROOVED ADAPTORS,
24		SHEET 1078141 FOR GROOVED ADAPTORS, SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL
	REPAIR PARTS KITS	FORM NO. 1077692
NO ES	DESCRIPTION PART NO.	D NUMBER CONVERSION 1588 MSM 27N002 REV DESCRIPTION ECO DWN DATE APVD
1071414 (K550-X214-14000)	CONSISTS OF ITEM NO'S 20 THRU 23 10/49/3 (320-L3)	
LIMIT STOP	CONVERSION KITS	Tu ROCKFORD OPERATIONS 2412 GRANT AVENUE, ROCKFORD, IL 61103-3991 WWW.OSMONICS.COM U
	DESCRIPTION PART NO.	SERIES 5520 DIAPHRAGM VALVE
	CONVERSION PARTS KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 20 THRU 24	OPTIONAL MODELS
PRINTED IN U.S.A.		



			NO. DESCRIPTION PART NO. QTY.	_
			LIMIT STOP MODEL	K552
			23 ADJUSTING SCREW 1075058 (521-Y) 1	1 G
(29) (3	(33)		24 O-RING BUNA N 1071668 (ORB-012) 1 25 LIMIT STOP HOUSING 1075057 (521-X) 1	ĬŇ
			26 O-RING BUNA N 1071671 (ORB-016) 1	<u> </u>
			27 CAP 1075010 (521–BBOK) 1 FAILSAFE SPRING CLOSED - 30 PSI	
			28 LWR SPRING RETAINER 1075351 (5521–D) 1	ーて
			29 SPRING 1075366 (5521–SÁ) 1	
			FAILSAFE SPRING CLOSED - 60 PSI 30 LWR SPRING RETAINER 1075351 (5521-D) 1	AP
			30 LWR SPRING RETAINER 1075351 (5521-D) 1 31 SPRING 1075370 (5521-SC60) 1	
			FAILSAFE SPRING CLOSED - 100 PSI	Ī
			32 LWR SPRING RETAINER 1075351 (5521-D) 1 33 SPRING 1075365 (5521-S) 1	
			35 3- Ring 1073565 (3521-3) 1	≫
				\Box
				RAGM
		(K551-X205-14000)		$ \geq$
FAILSAFE	FAILSAFE	FAILSAFE		<
SPRING CLOSED 30 PSI SP	RING CLOSED 60 PSI SPRING	<u>G CLOSED 100 PSI</u>		$ \Sigma$
			NOTE	VALVI
			NOTE:	
			1. LIMIT STOP OPTION ONLY OFFERED ON FAIL SAFE SPRING CLOSED MODELS.	
			2. FAILSAFE OPTION NOT OFFERED IN	
(25)			CONVERSION KIT FORM DUE TO SPECIAL ASSEMBLY REQUIREMENTS.	
				O
				ΙŤ
		SEE SHEE	T 1078142 FOR UNION END CONNECTORS,	
(1) (26)			T 1078142 FOR GROOVED ADAPTORS,	
				OPTIONAL
			SEE REVERSE SIDE FOR	
			STANDARD NORMALLY OPEN MODEL	
	REPAIR PARTS KITS	s	FORM NO. 1077693	
	DESCRIPTION	PART NO.	D NUMBER CONVERSION 1588 MSM 27N0/02	-
	INT. PARTS KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 23 THRU 26	75040 (521–LS)	REV DESCRIPTION ECO DWN DATE APVD	\leq
1076708 (K551-X214-14000)	CONSISTS OF THEM ING 3 23 THRO 20			
LIMIT STOP		·]	ROCKFORD OPERATIONS	
		PART NO.	2412 GRNAT AVENUE, ROCKFORD, IL 61103-3991 (815) 964-9421 WWW.OSMONICS.COM SERIES 5521 DIAPHRAGM VALVE	
	CONVERSION PARTS KIT (LIMIT STOP)	1090 (K521–LSC)	OPTIONAL MODELS	
PRINTED IN U.S.A.	CONSISTS OF ITEM NO'S 23 THRU 27		SCALE DRAWN DATE DWG. NO.	
			N/A JWB 20NOV01 1084014]



		NO. DESCRIPTION PART NO. QTY.
		25 O-RING (BUNA N) 1075162 (524-1) 1 25 O-RING (BUNA N) 1071668 (ORB-012) 1
(25)		26 LIMIT STOP HOUSING 1075141 (524-X) 1
/(28)		27 O-RING (BUNA N) 1071671 (ORB-016) 1
		28 CAP (LIMIT STOP) 1075083 (524–BB0K) 1
		FAILSAFE SPRING CLOSED - 30 PSI
		31 SPRING 1077981 1
	\square	32 LOWER SPRING RETAINER 1075373 (5524-DD) 1
(27)		FAILSAFE SPRING CLOSED - 60 PSI
		32 LOWER SPRING RETAINER 1075373 (5524-DD) 1
	(32)	33 SPRING 1074705 (4424–S) 1
	RINK R	FAILSAFE SPRING CLOSED - 100 PSI
		34 LOWER SPRING RETAINER 1075373 (5524-DD) 1
		34 LOWER SPRING RETAINER 1075373 (5524-DD) 1 35 SPRING 1077983 1
1079768 (K554-X210-14000)	1071438 (K554-X203-14000)	
LIMIT STOP	FAILSAFE	
	SPRING CLOSED 30 PSI	
		NATE
		I. LIMIT STOP OPTION UNLY OFFERED ON
	(37)	
		2. FAILSAFE OPTION NOT OFFERED IN
		CONVERSION KIT FORM DUE TO SPECIAL ASSEMBLY REQUIREMENTS.
		ASSEMBLY REQUIREMENTS.
		3. LIMIT STOP CONVERSION KITS NOT
		OFFERED DUE TO FAILSAFE OPTION
		ASSEMBLY REQUIREMENTS.
P		
		SEE SHEET 1078142 FOR UNION END CONNECTORS,
	(35)	SEE SHEET 1078142 FOR GROOVED ADAPTORS,
		SEE SHEET 1078142 FOR GROOVED ADAPTORS,
	(34)	
		SEE REVERSE SIDE FOR
1071439 (K554-X204-14000)	1071442 (K554-X205-14000)	STANDARD NORMALLY OPEN MODEL
· · · · ·		SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL FORM NO. 1077694
FAILSAFE	FAILSAFE	D NUMBER CONVERSION 1588 MSM 27N0W02
SPRING CLOSED 60 PSI	SPRING CLOSED 100 PSI	REV DESCRIPTION ECO DWN DATE APVD
		₩ ROCKFORD OPERATIONS 2412 GRANT AVENUE, ROCKFORD, IL 61103-3991 (815) 964-9421
	REPAIR PAR	
	DESCRIPTION	PART NO. SERIES 5524 DIAPHRAGM VALVE
	INT. PARTS KIT (LIMIT STOP)	OPTIONAL MODELS
	CONSISTS OF ITEM NO'S 24 THRU	
U.S.A.		N/A JWB 02JUL01 1084015

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		NO. DESCRIPTION		PART NO.	QTY.
NOTE:		1 DIAPHRAGM VAL	/E - NORMALLY OPEN		1
1. LENGTH OF TUBING VARIES WITH EACH SIZE OF DIAPHRAGM VAL	.VE.	3 WAY SOLENOI	110 V. 60 HZ.	1075637 8360A71	
2. DIAPHRAGM VALVE IS NORMALLY OPEN, PRESSURE TO CLOSE			UY) 220 V. 50 HZ.	1075638 8360A71V	1
3. BOSS NO. 1 ON VALVE TAPPED 1/8" N.P.T. (520,521,524) 1/4"	N.P.T. (526)	3 SOLENOID MOUNT	24 V. 60 HZ.	1075639 8360A71VV 1074783 4500−A	
4. DRY DRAIN OPTION - VENT PORT OF SOLENOID IS CONNECTED	то		SCREW (8-32 X 1 1/4")	1074783 4500-A	1 2
DOWNSTREAM SIDE OF VALVE.		5 HEX NUT (8-32)		1079811 NUB-0004	2
		6 NUT AND SLEEVE	ASSEMBLY (1/4" TUBE)	1071939 PTP-0009	3
		7 90° FLBOW 1/8"	M. X $1/4"$ TUBE 520 - 524	1071937 PTP-0006	2
	DODT 0	1/4	M. X 1/4 IUBE 526	1071938 PTP-0008	
	PORT 2	8 NYLON TUBING -	BLACK (1/4" O.D.) (NOTE 1)		N/A
			Approx.	PORT 3 6 7 8	7)
B APPROX. B ENERGIZED TO CLOSE	"	BB		· · ·	
SOLENOID ENERGIZED.		S	OLENOID DE-ENERGIZED.		
UPSTREAM PRESSURE, FROM SOLENOID PORT 2 TO PORT 1,		UF	STREAM PRESSURE, FROM SOL		
IS APPLIED TO UPPER DIAPHRAGM CHAMBER TO CLOSE THE	VALVE PIPE		APPLIED TO UPPER DIAPHRAG	M CHAMBER TO CLOSE TH	E
DIAPHRAGM VALVE. SOLENOID DE-ENERGIZED.	SERIES SIZE		APHRAGM VALVE. OLENOID ENERGIZED.		
PRESSURE FROM UPPER DIAPHRAGM CHAMBER IS VENTED,	520 3/8",1/2"	<u>5.87</u> <u>4.12</u> PF	RESSURE FROM UPPER DIAPHRA	AGM CHAMBER IS VENTED.	
THROUGH SOLENOID PORT 1 TO PORT 3 TO DRAIN.	320 370 ; 172	149.1 104.6 TH	ROUGH SOLENOID PORT 1 TO	PORT 2 TO DRAIN.	
UPSTREAM PRESSURE OPENS THE DIAPHRAGM VALVE.	521 3/4" ,1 "	6.52 5.12 UF	STREAM PRESSURE OPENS TH	E DIAPHRAGM VALVE.	
		7.62 6.25			
	524 1-1/2", 2"	193.5 158.75	A INITIAL RELEASE	1434 JWB 25JUL01	
	526 2-1/2", 3"	$\begin{array}{c c} 9.62 & 7.87 \\ \hline 244.3 & 200.0 \end{array}$		<u> </u>	APVD
			TH ROCKFORD	OPERATIONS	
		-	2412 GRANT AV WWW.OSMONICS.0	'ENUE, ROCKFORD, IL 61103-3991 (815) 964 COM	4-9421
	MILLIMEI		SERIES 520 DI	APHRAGM VALVES	

QTY. S E N O DID OPERATED DIAPHRAGM VA С С

SOLENOID OPERATED VALVES

DWG. NO.

1078160

SCALE DRAWN DATE N/A JWB 25JUL01

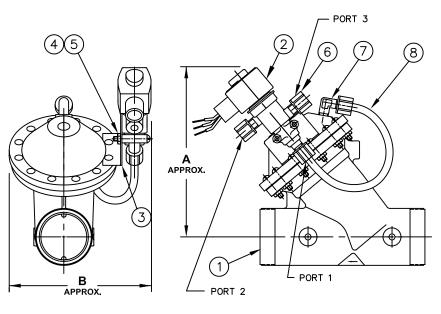
PRINTED IN U.S.A.

FORM NO. 1081312

NOTE:

1. LENGTH OF TUBING VARIES WITH EACH SIZE OF DIAPHRAGM VALVE.

2. DIAPHRAGM VALVE IS NORMALLY OPEN



INDEPENDENT CONTROL PRESSURE

ENERGIZE TO OPEN

APPLY CONTROL PRESSURE AT SOLENOID PORT NO. 3 (PORT NO. 2 VENTED)

ENERGIZE TO CLOSE

APPLY CONTROL PRESSURE AT SOLENOID PORT NO. 2 (PORT NO. 3 VENTED)

CONTROL PRESSURE MUST BE EQUAL TO OR GREATER THAN LINE PRESSURE.

VALVE SERIES	PIPE SIZE	Α	В
520	3/8",1/2"	5.87	4.12
	,	149.1	104.6
521	3/4", 1 "	6.52	5.12
521	5/4,1	165.6	130.0
524	1-1/2", 2"	7.62	6.25
524	1-1/2 , 2	193.5	158.75
526	2 4/2" 2"	9.62	7.87
520	2-1/2", 3"	244.3	200.0

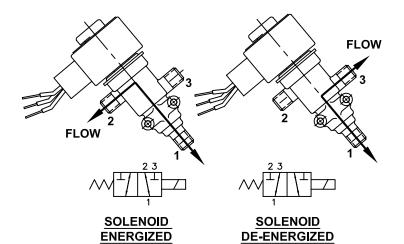
	INCHE	S
MIL	LIMET	ĒRS

NO.	DESCRIPTION		PAF	RT NO.	QTY.	
1	DIAPHRAGM VALVE - NORMALLY OPEN				1	
	2 3 WAY SOLENOID VALVE (NEMA 4 ONLY)) V. 60 HZ.	1075637	′ 8360A71	
2			V. 50 HZ.	1075638	8360A71V	1
	(NEMA 4 ONLT)	24	V. 60 HZ.	1075639	8360A71VV	
3	SOLENOID MOUNTING BRACKET			1074783	3 4500 A	1
4	RD. HD. MACH. SCREW (8-32 X 1 1/4")		1/4")	1072377	- SCS0086	2
5	HEX NUT (8-32)			1079811	-NUB-0004	2
6	NUT AND SLEEVE ASSEMBLY (1/4" TUBE)			1071939	-PTP-0009 -	3
7	90° ELBOW 1/8" M. X 1/4"	TUBE	520 - 524	1071937	-PTP-0006 -	1
<u> </u>	90 ELBOW 1/4" M. X 1/4"	TUBE	526	1071938	-PTP-0008	
8	NYLON TUBING - BLACK (1/	4"0.	D.) (NOTE 1)	1071936	-PTP-0005	N/A

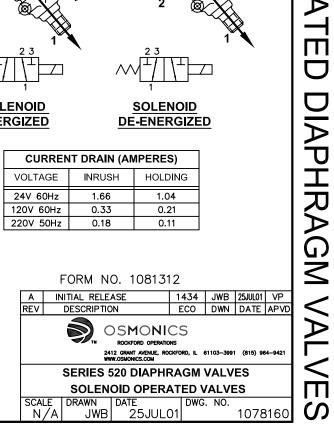
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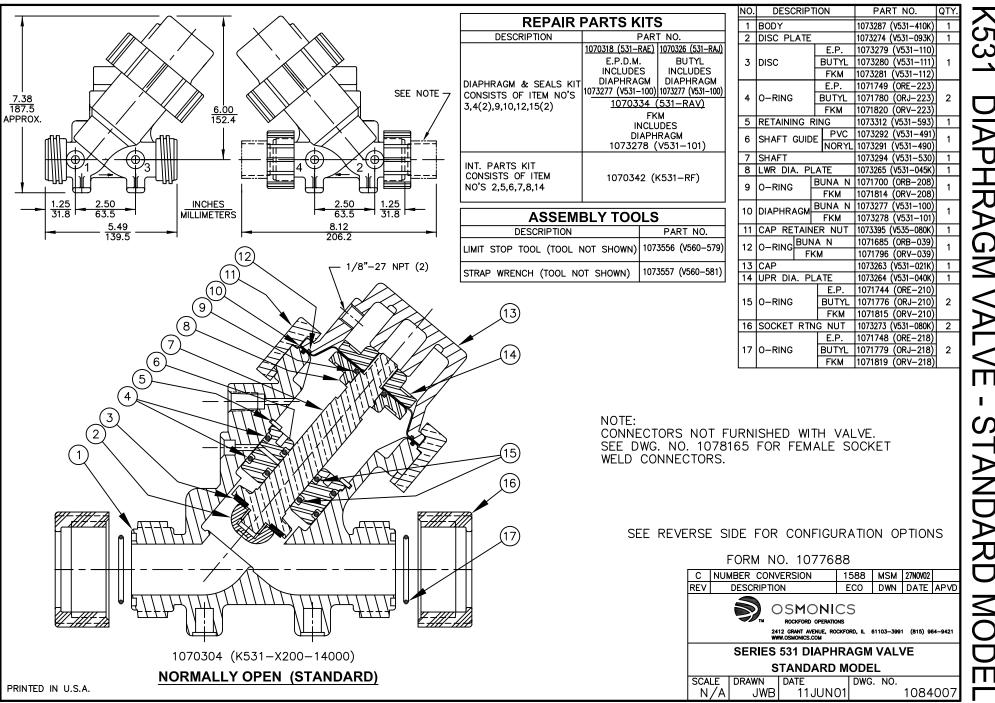
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OPER



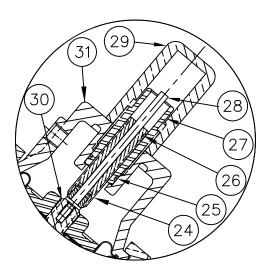
CURRENT DRAIN (AMPERES)				
VOLTAGE	INRUSH	HOLDING		
24V 60Hz	1.66	1.04		
120V 60Hz	0.33	0.21		
220V 50Hz 0.18 0.11				





入53 IAPHRAGM VALVE STANDARD MOD Π

	NO. DESCRIPTION PART NO. QTY
	LIMIT STOP MODEL
√ 1/8-27 NPT (2)	18 ADJUSTING SCREW 1073308 (V531-576) 1
	19 O-RING BUNA N 1071668 (ORB-012) FKM 1071787 (ORV-012) 1
	20 LS GUIDE PVC 1073304 (V531-571) CPVC 1073306 (V531-573) 1
	21 O-RING BUNA N 1071671 (ORB-016) FKM 1071789 (ORV-016) 1
	22 CAP 1073288 (V531-421K) 1
	SPRING ASSIST CLOSED MODEL & SPRING ASSIST OPEN MODEL
	23 SPRING 1073283 (V531-170) 1
	LIMIT STOP/ POSITION INDICATOR MODEL
	24 SCREW ASSY 1073315 (V531-700) 1
	25 O-RING BUNA N 1071671 (ORB-016) 1 FKM 1071789 (ORV-016) 1
	26 O-RING BUNA N 1071668 (ORB-012) 1 FKM 1071787 (ORV-012) 1
1070305 (K531-X210-14000) 1071286 (K531-X202-14000) 1071282 (K531-X201-14000) 27 LS/PI GUIDE PVC 1073303 (V531-570) 1 CPVC 1073305 (V531-572) 1
LIMIT STOP SPRING ASSIST CLOSED SPRING ASSIST OPEN	28 INDICATOR SHAFT 1073298 (V531-555) 1
	29 PI CLEAR CAP 1073297 (V531-550) 1
	30 SHAFT 1073295 (V531-531) 1



K531-X221-14000 LIMIT STOP/ **POSITION INDICATOR**

REPAIR PARTS KITS DESCRIPTION PART NO. INT. PARTS KIT (LIMIT STOP) 1075226 (531-LS) CONSISTS OF ITEM NO'S 18 THRU 21 INT. PARTS KIT (SPRING ASSIST CLOSED) 1075229 (531-S) CONSISTS OF ITEM NO. 23 INT. PARTS KIT (SPRING ASSIST OPEN) 1075229 (531-S) CONSISTS OF ITEM NO. 23 INT. PARTS KIT (LIMIT STOP/POS INDICATOR) 1075227 (531-PI) CONSISTS OF ITEM NO'S 24 THRU 30

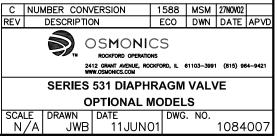
CONVERSION KITS				
DESCRIPTION	PART NO.			
CONVERSION KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 18 THRU 22	1071265 (K531–LSC)			
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO. 23	1075229 (531–S)			
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 23	1075229 (531–S)			
CONVERSION KIT (LIMIT STOP/POS. INDICATOR) CONSISTS OF ITEM NO'S 24 THRU 31	1071266 (K531–PIC)			

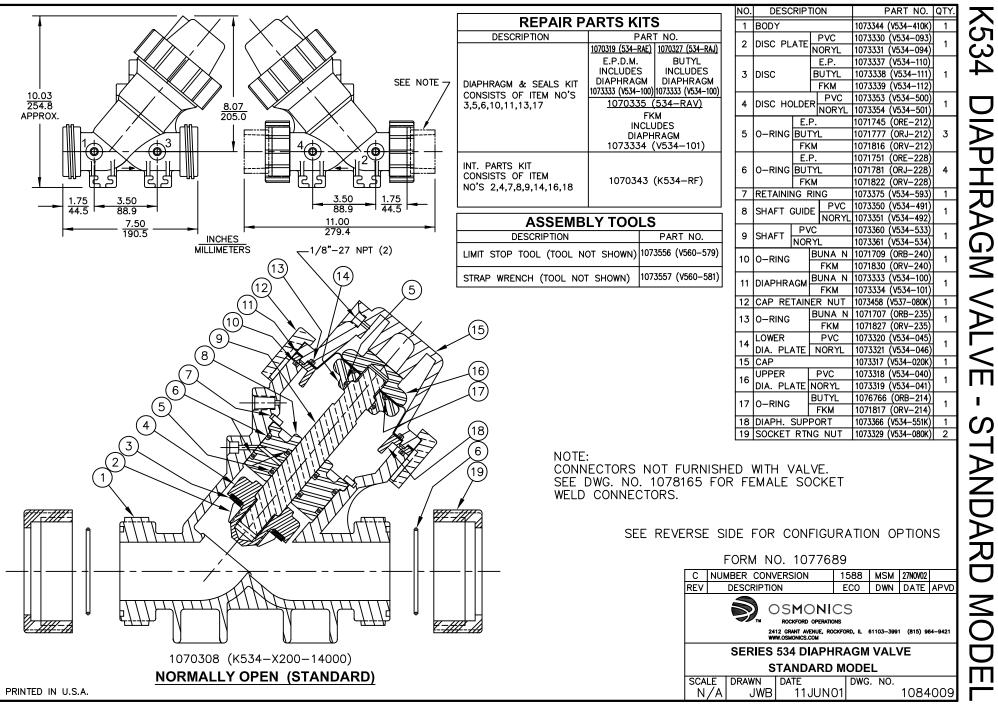
SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL

1073288 (V531-421K)

FORM NO. 1077688

31 CAP

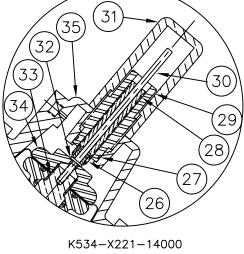




IAPHRAGM VALVE STANDARD MOD

	1/8-27 NPT (2)	25
1070309(K534-X210-14000) <u>LIMIT STOP</u>	1071332(K534-X202-14000) SPRING ASSIST CLOSED	1071329(K534-X201-14000) SPRING ASSIST OPEN

NO. DESCRIPTION			PART NO.	QTY.					
LIMIT STOP MODEL									
20 ADJUSTING SCREW		REW	1073373 (V534-576)	1					
21	0-RING	BUNA N	1071668 (ORB-012)	1					
21		FKM	1071787 (ORV-012)	1'					
~~	LS GUIDE	PVC	1073369 (V534-571)	1					
22	LS GUIDE	CPVC	1073371 (V534–573)						
22	0-RING	BUNA N	1071673 (ORB-018)	1					
25		FKM	1071790 (ORV-018)						
24	CAP		1073345 (V534-420K)	1					
S	SPRING ASS	IST CLOSE	D MODEL &						
	SPRING A	SSIST OPE	N MODEL						
25	SPRING		1073340 (V534–170)	1					
	I	IMIT STOP	· · · · · · · · · · · · · · · · · · ·						
26 SCREW ASSY									
20	SCREW ASSY		1081128 (V534-700)	1					
		BUNA N	1081128 (V534-700) 1071673 (ORB-018)	<u> </u>					
27	O-RING	BUNA N FKM		1					
27	O-RING		1071673 (ORB-018)	1					
27		FKM	1071673 (ORB-018) 1071790 (ORV-018)	<u> </u>					
27 28	O-RING O-RING	FKM BUNA N	1071673 (ORB-018) 1071790 (ORV-018) 1071668 (ORB-012)	1					
27 28	O-RING	FKM BUNA N FKM	1071673 (ORB-018) 1071790 (ORV-018) 1071668 (ORB-012) 1071787 (ORV-012)	1					
27 28 29	O-RING O-RING	FKM BUNA N FKM PVC CPVC	1071673 (ORB-018) 1071790 (ORV-018) 1071668 (ORB-012) 1071787 (ORV-012) 1073368 (V534-570)	1					
27 28 29	0-ring 0-ring Ls/Pi guide	FKM BUNA N FKM PVC CPVC AFT	1071673 (ORB-018) 1071790 (ORV-018) 1071668 (ORB-012) 1071787 (ORV-012) 1073368 (V534-570) 1073370 (V534-572)	1 1 1					
27 28 29 30	0-RING 0-RING LS/PI GUIDE INDICATOR SH	FKM BUNA N FKM PVC CPVC AFT	1071673 (ORB-018) 1071790 (ORV-018) 1071668 (ORB-012) 1071787 (ORV-012) 1073368 (V534-570) 1073367 (V534-575) 1073365 (V534-555) 1071366 (ORB-006)	1 1 1					
27 28 29 <u>30</u> 31 32	O-RING O-RING LS/PI GUIDE INDICATOR SH PI CLEAR CAF O-RING	FKM BUNA N FKM PVC CPVC AFT PVC	1071673 (ORB-018) 1071790 (ORV-018) 1071790 (ORV-018) 1071787 (ORV-012) 1073368 (V534-570) 1073367 (V534-555) 1073365 (V534-555) 1071666 (ORB-006) 1073362 (V534-535)	1 1 1 1 1 1					
27 28 29 30 31	O-RING O-RING LS/PI GUIDE INDICATOR SH PI CLEAR CAP O-RING SHAFT	FKM BUNA N FKM PVC CPVC AFT PVC NORYL	1071673 (ORB-018) 1071790 (ORV-018) 1071790 (ORV-018) 1071787 (ORV-012) 1071386 (V534-570) 1073370 (V534-572) 1073365 (V534-555) 1073365 (V534-555) 1071666 (ORB-006) 1073362 (V534-535) 1073363 (V534-536)	1 1 1 1 1					
27 28 29 <u>30</u> <u>31</u> 32 33	O-RING O-RING LS/PI GUIDE INDICATOR SH PI CLEAR CAF O-RING SHAFT UPPER	FKM BUNA N FKM PVC CPVC AFT PVC	1071673 (ORB-018) 1071790 (ORV-018) 1071787 (ORV-012) 1071388 (V534-570) 1073370 (V534-572) 1073367 (V534-555) 1073365 (V534-555) 1071666 (ORB-006) 1073362 (V534-535) 1073363 (V534-536) 1073346 (V534-442)	1 1 1 1 1 1 1					
27 28 29 <u>30</u> 31 32	O-RING O-RING LS/PI GUIDE INDICATOR SH PI CLEAR CAP O-RING SHAFT	FKM BUNA N FKM PVC CPVC AFT PVC NORYL	1071673 (ORB-018) 1071790 (ORV-018) 1071790 (ORV-018) 1071787 (ORV-012) 1071386 (V534-570) 1073370 (V534-572) 1073365 (V534-555) 1073365 (V534-555) 1071666 (ORB-006) 1073362 (V534-535) 1073363 (V534-536)	1 1 1 1 1 1					



K534-X221-14000 LIMIT STOP/ POSITION INDICATOR
 REPAIR PARTS KITS

 DESCRIPTION
 PART NO.

 INT. PARTS KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 20 THRU 23
 1075230 (534–LS)

 INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO. 25
 1075233 (534–S)

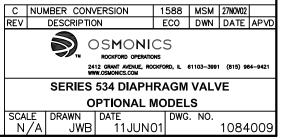
 INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 25
 1075233 (534–S)

 INT. PARTS KIT (LIMIT STOP/POS INDICATOR) CONSISTS OF ITEM NO'S 26 THRU 34
 1075231 (534–PI)

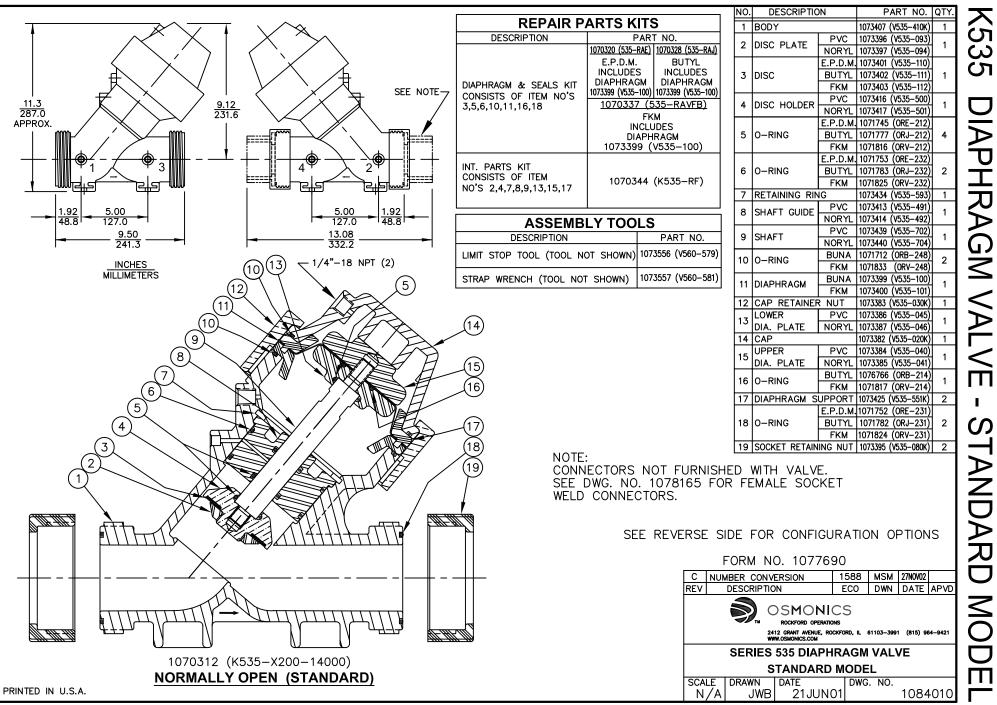
CONVERSION KITS				
DESCRIPTION	PART NO.			
CONVERSION KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 20 THRU 24	1071308 (K534–LSC)			
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO. 25	1075233 (534–S)			
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 25	1075233 (534–S)			
CONVERSION KIT (POSITION INDICATOR) CONSISTS OF ITEM NO'S 26 THRU 35	1071309 (K534–PIC)			

SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL

FORM NO. 1077689

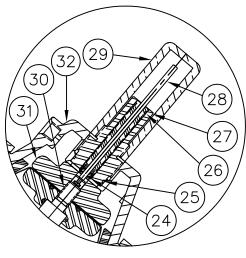


K534 DIAPHRAGM VALVE ı O PTIONAL MOD Ē ഗ



HAPHRAGM VALVE STANDARD MOD

			NO. DESCRI	PTION	PART NO.	Q
			LIMI	Т STOP MO	DEL	
			18 ADJUSTING S	CREW	1073432 (V535-576	5)
			19 O-RING	BUNA N FKM	1071668 (ORB-012) 1071787 (ORV-012)	<u> </u>
			20 LS GUIDE	PVC CPVC	1073428 (V535-571 1073430 (V535-573	Ú)
	2	3	21 O-RING	BUNA N FKM	1071676 (ORB-024) 1071791 (ORV-024)	Ĺ
			22 CAP		1073408 (V535-420	
			SPRING ASS SPRING A	SIST CLOSE SSIST OPE		
			23 SPRING		1073404 (V535-170))
H_{-22}				IMIT STOP		
			24 SCREW ASSY		1073437 (V535-700))
X' ALL			25 O-RING	BUNA N FKM	1071676 (ORB-024) 1071791 (ORV-024)	<u> </u>
			26 O-RING	BUNA N FKM	1071668 (ORB-012) 1071787 (ORV-012)	
070313 (K535-X210-14000)	1071367 (K535-X202-14000)	1071365 (K535-X201-14000)	27 LS/PI GUIDE	PVC	1073427 (V535-570	<u>)</u>
			,	CPVC	1073429 (V535-572	
	SPRING ASSIST CLOSED	SPRING ASSIST OPEN	28 INDICATOR SH		1073426 (V535-555	<u> </u>
			29 PI CLEAR CA		1073424 (V535-550	
			30 SHAFT	PVC	1073438 (V535-701	
				NORYL	1073441 (V535-706	21



K535-X221-14000 LIMIT STOP/ **POSITION INDICATOR**

REPAIR PARTS KITS DESCRIPTION PART NO. INT. PARTS KIT (LIMIT STOP) 1075234 (535-LS) CONSISTS OF ITEM NO'S 18 THRU 21 INT. PARTS KIT (SPRING ASSIST CLOSED) 1075233 (535-S) CONSISTS OF ITEM NO. 23 INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 23 1075233 (535-S) INT. PARTS KIT (LIMIT STOP/POS INDICATOR) 1075235 (535-PI) CONSISTS OF ITEM NO'S 24 THRU 31

CONVERSION KITS				
PART NO.				
1071343 (K535–LSC)				
1075233 (535–S)				
1075233 (535–S)				
1071344 (K535–PIC)				

SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL

1073409 (V535-442)

1073410 (V535-443)

1073408 (V535-420K)

FORM NO. 1077690

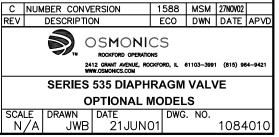
PVC

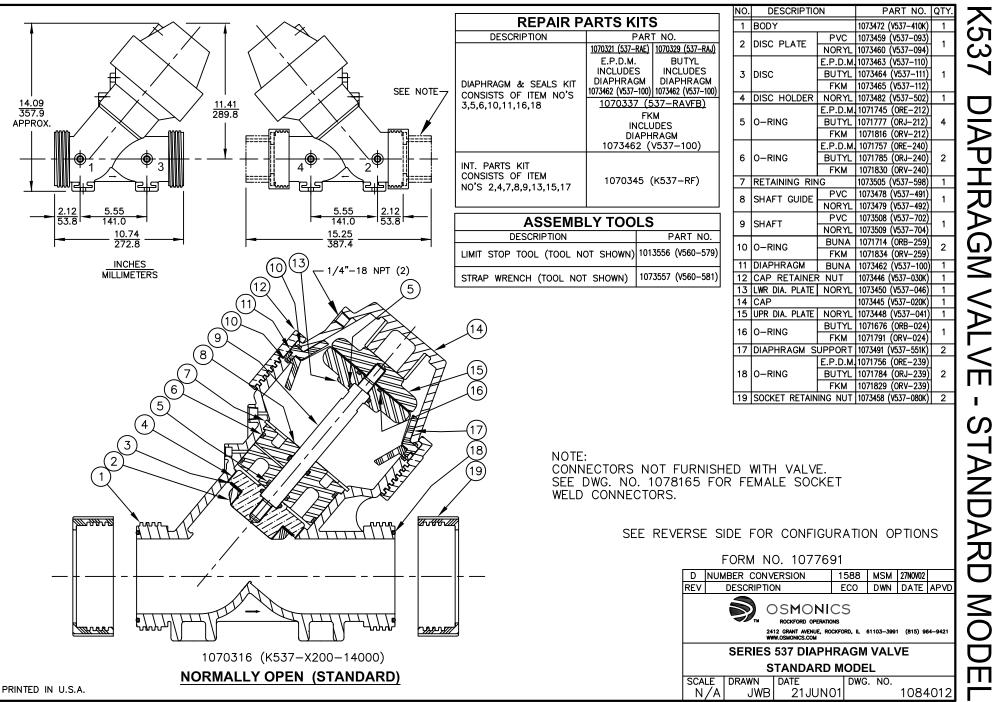
NORYL

UPPER

32 CAP

31 DIA. PLATE





NAPHRAGM VALVE STANDARD MOD

	NO. DESCRIPTION	PART NO. Q
↓ 1/4-18 NPT (2)		/ODEL
	18 ADJUSTING SCREW	1073498 (V537-576)
	19 O-RING BUNA I	
	FKM	1071787 (ORV-012)
	20 LS GUIDE PVC	1073494 (V537-571)
		1073496 (V537-573)
		N 1071676 (ORB-024) 1071791 (ORV-024)
	22 CAP	1073473 (V537-420K)
	SPRING ASSIST CLO SPRING ASSIST O	PEN MODEL
	23 SPRING	1073467 (V537–170)
	LIMIT STO	
$ \langle \rangle = \langle 22 \rangle \langle 22 \rangle $	POSITION INDICAT	OR MODEL
	24 SCREW ASSY	1073506 (V537-700)
	25 O-RING BUNA I	
	FKM	1071791 (ORV-024)
	26 O-RING BUNA I	N 1071668 (ORB-012) 1071787 (ORV-012)
	FKM	1073493 (V537-570)
1070317 (K537-X210-14000) 1071391 (K537-X202-14000) 1071390 (K537-X201-14000)		1073495 (V537-572)
LIMIT STOP SPRING ASSIST CLOSED SPRING ASSIST OPEN	28 INDICATOR SHAFT	1073492 (V537-555)
	29 PI CLEAR CAP	1073489 (V537-550)
	30 SHAFT PVC	1073507 (V537-701)
	NORYL	1077454 (V537-706)
	31 UPR DIA. PLATE NORYL	
	32 CAP	1073473 (V537-420K)
REPAIR PARTS KITS		
CONSISTS OF ITEM NO'S 18 THRU 21 10/3237 (337-LS)		
(31) INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO. 23 1075239 (537–S)		
(27) INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 23 1075239 (537–S)		
(26)/ INT. PARTS KIT (LIMIT STOP/POS INDICATOR) 1081805 (537–PI) CONSISTS OF ITEM NO'S 24 THRU 31	SEE REVERSE S	
		MALLY OPEN MODEL
(25) CONVERSION KITS	STANDARD NOR	WALLI OFEN WODEL
DESCRIPTION PART NO.	FORM NO. 10)77691
CONVERSION KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 18 THRU 22 1071377 (K537–LSC)	D NUMBER CONVERSION	
	REV DESCRIPTION	ECO DWN DATE AP

CONVERSION KIT (SPRING ASSIST CLOSED)

CONVERSION KIT (SPRING ASSIST OPEN)

CONVERSION KIT (POSITION INDICATOR)

CONSISTS OF ITEM NO'S 24 THRU 32

CONSISTS OF ITEM NO. 23

CONSISTS OF ITEM NO. 23

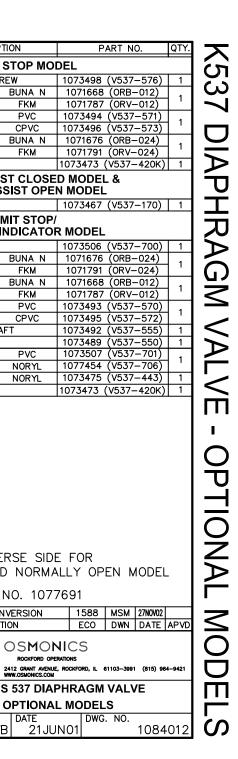
1075239 (537-S)

1075239 (537-S)

1071378 (K537-PIC)

K537-X221-14000 LIMIT STOP/ **POSITION INDICATOR**

PRINTED IN U.S.A.



OSMONICS

ROCKFORD OPERATIONS

SERIES 537 DIAPHRAGM VALVE

OPTIONAL MODELS

21JUN01

DWG. NO.

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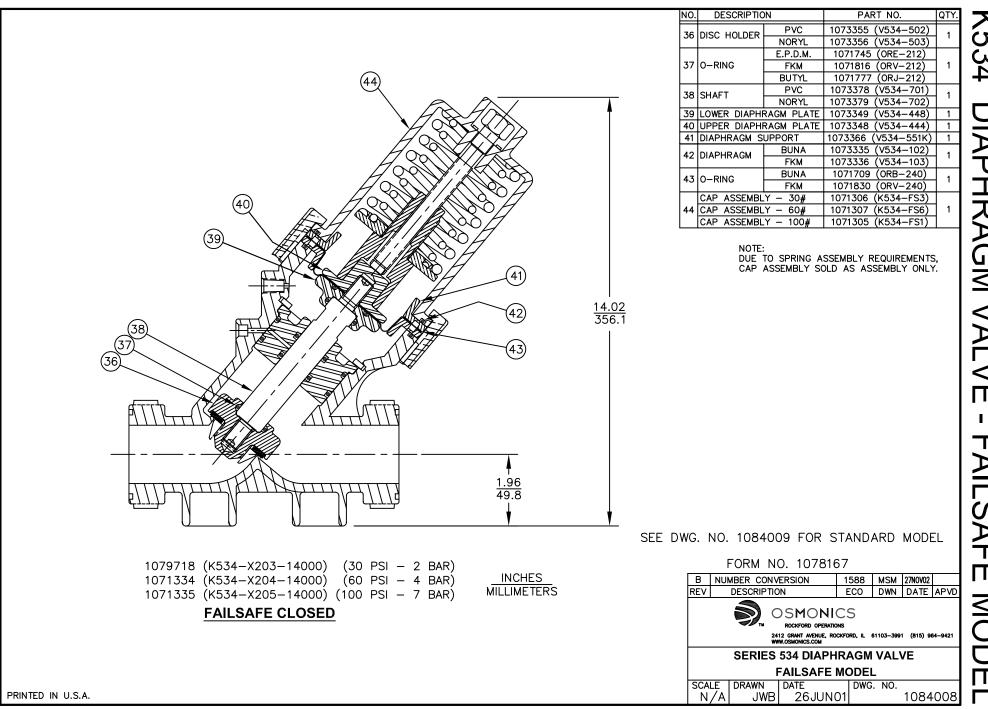
SCALE DRAWN DATE

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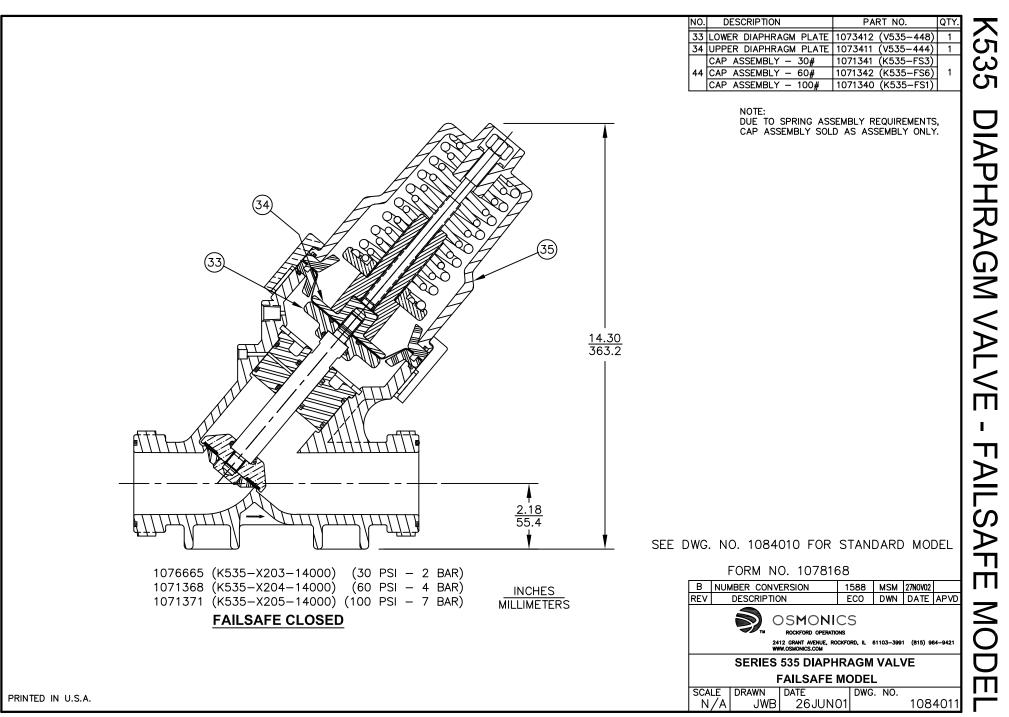
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8.86 225.0		NO. DESCRIPTION PART NO. QTY. 32 SSHAFT 1073296 (V531-532) 1 33 LOWER DIAPHRAGM PLATE 1073290 (V531-446) 1 34 O-RING BUNA N 1071700 (ORB-208) 1 35 UPPER DIAPHRAGM PLATE 1073289 (V531-446) 1 35 UPPER DIAPHRAGM PLATE 1073289 (V531-446) 1 36 CAP ASSEMBLY - 30# 1071263 (K531-F53) 1 36 CAP ASSEMBLY - 100# 1071262 (K531-F53) 1 DUE TO SPRING ASSEMBLY REQUIREMENTS, CAP ASSEMBLY SOLD AS ASSEMBLY ONLY.
INCHES MILLIMETERS PRINTED IN U.S.A.	(32) 1079700 (K531–X203–14000) (30 PSI – 2 BAR) 1071291 (K531–X204–14000) (60 PSI – 4 BAR) 1071294 (K531–X205–14000) (100 PSI – 7 BAR) FAILSAFE CLOSED	SEE DWG. NO. 1084007 FOR STANDARD MODEL FORM NO. 1078167 B NUMBER CONVERSION 1588 MSM 27N0V02 REV DESCRIPTION ECO DWN DATE APVD VMCONDO OPERATIONS 242 GRAVT AVENUS, ROCKTORD, LL 61103-3991 (815) 984-9421 SERIES 531 DIAPHRAGM VALVE FAILSAFE MODEL SCALE DRAWN DATE DWG. NO. 1084008



人534 APHRAGM VALVE - FAILSAFE MOD



3 3 3 3 4 3 4 4 4 4 4 4 4 7 5 6 17.61 4 4 4 7.5	CAP ASSEMBLY - 30# 1071375 (K537-FS3) 36 CAP ASSEMBLY - 60# 1071376 (K535-FS6) 1 CAP ASSEMBLY - 100# 1071374 (K535-FS6) 1 NOTE: DUE TO SPRING ASSEMBLY REQUIREMENTS, CAP ASSEMBLY SOLD AS ASSEMBLY ONLY.	K537 DIAPHRAGM VALVE - FAILS/
1071392 (K537-X203-14000) (30 PSI - 2 BAR) 1071393 (K537-X204-14000) (60 PSI - 4 BAR) 1071396 (K537-X205-14000) (100 PSI - 7 BAR) MILLIMETERS FAILSAFE CLOSED	SEE DWG. NO. 1084012 FOR STANDARD MODEL FORM NO. 1078168 B NUMBER CONVERSION 1588 MSM 27N0V02 REV DESCRIPTION ECO DWN DATE APVD OSMONICS ROCKFORD OPERATIONS 2412 GRANT AVENUE, ROCKFORD, IL 61103-3991 (615) 964-9421 WWW.OSMONICS.COM SERIES 537 DIAPHRAGM VALVE	SAFE MODEL

NOTE: 1. LENGTH OF TUBING VARIES WITH EACH SIZE OF DIAPHRAOM VALVE. 2. DIAPHRAGM VALVE IS NORMALLY OPEN, PRESSURE TO CLOSE 3. WAY SOLENOID VALVE 3. BOSS NO.1 DN VALVE TAPPED 1/8 ^A N.F.T. (53:53) 1/4 ^A N.F.T. (53:55:37) 3. COUPLING 1/8 ^A M.F.T. (53:55:37) 4. DRY DRAIN OPTION - VENT PORT OF SOLENOID IS CONNECTED TO DOWNSTREAM SIDE OF VALVE. 3. COUPLING 1/8 ^A M.F.T. (43:74) 1/4 ^A M.F.T. (44:76) 1/4 ^A M.F.T. (43:76) 1/4 ^A M.F.T. (44:76) 1/4 ^A M.F.T. (44:76) 1/4 ^A M.F.T. (45:76) 1				
 1. LENGTH OF TUBING VARIES WITH EACH SIZE OF DIAPHRAGM VALVE. 2. DIAPHRAGM VALVE IS NORMALLY OPEN, PRESSURE TO CLOSE 3. BOSS NO. 1 ON VALVE TAPPED 1/8" N.P.T. (S31,534) 1/4" N.P.T. (535,537) 3. DRY DRAIN OPTION - VENT PORT OF SOLENOID IS CONNECTED TO DOWNSTREAM SIDE OF VALVE. QUIPLING 1/6" M.X.1/4" QUIPLING 1/6				
 2. DIAPHRAGM VALVE IS NORMALLY OPEN, PRESSURE TO CLOSE 3. BOSS NO. 1 ON VALVE TAPPED 1/8" N.P.T. (\$33,534) 1/4" N.P.T. (\$35,537) 4. DRY DRAIN OPTION - VENT PORT OF SOLENOID IS CONNECTED TO DOWNSTREAM SIDE OF VALVE. 2 SNUT AND SLEEVE ASSEMBLE OF VALVE. 2 NUT AND SLEEVE ASSEMBLE OF VALVE. 3 COUPLING [1/4" M. X.1/4" M.			1	DIAPHRAGM VALVE - NORM
 BOSS NO. 1 ON VALVE TAPPED 1/8" N.P.T. (531,534) 1/4" N.P.T. (535,537) DRY DRAIN OPTION - VENT PORT OF SOLENOID IS CONNECTED TO DOWNSTREAM SIDE OF VALVE. COUPLING 1/3" M.X. 1/4" NYLON TUBING - BLACK (1/2) COUPLING 1/3" M.X. 1/4" NYLON TUBING - BLACK (1/2) COUPLING 1/3" M.X. 1/4" NYLON TUBING - BLACK (1/2) COUPLING 1/3" M.X. 1/4" NYLON TUBING - BLACK (1/2) COUPLING 1/3" M.X. 1/4" NYLON TUBING - BLACK (1/2) COUPLING 1/3" M.X. 1/4" NYLON TUBING - BLACK (1/2) SOLENOID MOUNTING BRACK SOLENOID FORT 2 OKACH SCREW (8-10) COUPLING (1/2) COUPLING (1/2) COUPLING 1/3" M.X. 1/4" COUPLING (1/2) SOLENOID PORT 2 COUPLING (1/2) /ul>				3 WAY SOLENOID VALVE
 A. DRY DRAIN OPTION - VENT PORT OF SOLENOID IS CONNECTED TO DOWNSTREAM SIDE OF VALVE. A. DRY DRAIN OPTION - VENT PORT OF SOLENOID IS CONNECTED TO DOWNSTREAM SIDE OF VALVE. A. NUTAN UBING - BLACK (1/4/10/10/10/10/10/10/10/10/10/10/10/10/10/		`	2	(NEMA 4 ONLY)
A, DRY DRAIN OPTION - VENT PORT OF SOLENOID IS CONNECTED TO DOWNSTREAM SIDE OF VALVE.		535,537)	7	1/8" M. X 1/4"
Solenoid Solenoid <td< td=""><td></td><td></td><td></td><td>1/4" M. X 1/4</td></td<>				1/4" M. X 1/4
$\begin{array}{c} \hline 6 & 0^{\circ} \text{ ELBOW} \\ \hline 1/4^{\circ} \text{ M. X } 1/4^{\circ} \\ \hline 7 & \text{RO. HO. MACH. SCREW (B-1) \\ \hline 8 & \text{HEX. NUT (B-32) \\ \hline 9 & \text{SOLENOID MOUNTING BRACK } \\ \hline 9 & \text{SOLENOID MOUNTING BRACK \\ \hline 9 & \text{SOLENOID MOUNTING BRACK } \\ \hline 9 & \text{SOLENOID MOUNTING BRACK \\ \hline 0 & \text{UPUT A }	DOWNSTREAM SIDE OF VALVE.			
$\frac{7 \text{ RD} \text{ HD} \text{ MACH. SCREW (B-3)}{9 \text{ SOLENOD MOUNTING BRACK (B-3)}}$				INUT AND SLEEVE ASSEMBL
$\frac{ }{ } \frac{ }{ } \frac{ }{ } \frac{ }{ }$			6	90° ELBOW 1/4" M. X 1/4"
$\begin{array}{c} \hline 9 & \hline SOLENOID & MOUNTING BRACK \\ \hline 9 & \hline SOLENOID & MOUNTING BRACK \\ \hline 9 & \hline SOLENOID & MOUNTING BRACK \\ \hline 9 & \hline 9 & \hline 0 &$				
Image: Solution of the solution				
Image: Solution pressure in the solution of the			9	SOLENOID MOUNTING BRACK
$\begin{array}{c} \hline \\ \hline $	0 (3) (3)	4	0	(3)
$\begin{array}{c} \hline \\ \hline $		4		
$\begin{array}{c} \hline \\ \hline $		PORT 2		\checkmark
$\begin{array}{c} \hline \\ \hline $		_		\sim
$\begin{array}{c} \hline \\ \hline $		<u>(4)</u>		(2)
$\begin{array}{c} \hline & & & & \\ \hline \hline & & & \\ \hline \hline \\ \hline & & & \\ \hline \hline \\ \hline & & & \\ \hline \hline \\ \hline \hline & & & \\$		+		
$\begin{array}{c} \hline & & & & \\ \hline \hline & & & \\ \hline \hline & & & \\ \hline \hline & & & \\ \hline \hline \\ \hline & & & \\ \hline \hline & & & \\ \hline \hline \\ \hline & & & \\ \hline \hline \\ \hline \hline & & & \\$		\mathbb{N}		$M \rightarrow M$
$\begin{array}{c} \hline & & & & & & \\ \hline & & & & & \\ \hline & & & &$		+(5)		
$\begin{array}{c} \hline & & & & & & \\ \hline & & & & & \\ \hline & & & &$		\sim 11^{-1}		
$\begin{array}{c} \hline \\ \hline $		\mathcal{X}_{\sim}		
Image: Sole Noid Energized. Upstream Pressure, FROM Sole Noid Port 2 to Port 1, Is applied to upper Diapphragm Val vertice Value PIPE Image: Value Value Vertice Value Image: Value Value Vertice Value Value PIPE Image: Value Value Value PIPE		\sim (6)		
A B A B A B YENT - DO NOT PLUG (PORT 3) VENT - DO NOT PLUG (PORT 3) B VENT - DO NOT PLUG (PORT 3) C B A B YENT - DO NOT PLUG (PORT 3) C B C <tr< td=""><td>▕╚╡(᠆┟᠆)┉╢┈╵╎ ╴┼╶╼═╂┨──╟┵╦╧╬╝╬═╦╖</td><td>· + -</td><td>│<u>₩</u>{ ())d</td><td></td></tr<>	▕╚╡ (᠆┟ ᠆)┉ ╢┈╵╎ ╴┼╶╼═╂┨──╟┵╦╧╬╝╬═╦╖	· + -	│ <u>₩</u> { ()) d	
A B A B A B YENT - DO NOT PLUG (PORT 3) VENT - DO NOT PLUG (PORT 3) B VENT - DO NOT PLUG (PORT 3) C B A B YENT - DO NOT PLUG (PORT 3) C B C <tr< td=""><td></td><td></td><td></td><td></td></tr<>				
A B A B A B VENT - DO NOT PLUG (PORT 3) 7 8 5 A B A B VENT - DO NOT PLUG (PORT 3) 7 8 5 A B A B A B A B VENT - DO NOT PLUG (PORT 3) 7 8 5 A B SOLENOID ENERGIZED. SOLENOID PORT 2 TO PORT 1, IS APPLIED TO UPPER DIAPHRAGM CHAMBER TO CLOSE THE DIAPHRAGM VALVE VALVE PIPE SIZE A B				
APPROX. APPROX. APPROX. APPROX. APPROX. APPROX. ENERGIZED TO CLOSE ENERGIZED. ENERGIZED. ENERGIZED. UPSTREAM PRESSURE, FROM SOLENOID PORT 2 TO PORT 1, IS APPLIED TO UPPER DIAPHRAGM CHAMBER TO CLOSE THE VALVE PIPE SIZE A B			ц щ.	
ENERGIZED TO CLOSE SOLENOID ENERGIZED. UPSTREAM PRESSURE, FROM SOLENOID PORT 2 TO PORT 1, IS APPLIED TO UPPER DIAPHRAGM CHAMBER TO CLOSE THE VALVE PIPE A B SOLENOID DIAPHRAGM VALVE SERIES SIZE A B		7,8,5		
SOLENOID ENERGIZED. UPSTREAM PRESSURE, FROM SOLENOID PORT 2 TO PORT 1, IS APPLIED TO UPPER DIAPHRAGM CHAMBER TO CLOSE THE DIAPHRAGM VALVE SERIES SIZE A B SIZE A B SOLENOID DE- UPSTREAM PRESS SIZE A B	APPROX. APPROX. VENT – DO NOT PLUG (PORT 3) Δ		APPROX. APPRO	VEN
SOLENOID ENERGIZED. UPSTREAM PRESSURE, FROM SOLENOID PORT 2 TO PORT 1, IS APPLIED TO UPPER DIAPHRAGM CHAMBER TO CLOSE THE DIAPHRAGM VALVE SERIES SIZE A B SIZE A B SOLENOID DE- UPSTREAM PRESS SIZE A B	ENERGIZED TO CLOSE			F
UPSTREAM PRESSURE, FROM SOLENOID PORT 2 TO PORT 1, IS APPLIED TO UPPER DIAPHRAGM CHAMBER TO CLOSE THE DIAPHRAGM VALVE SERIES SIZE A B UPSTREAM PRES SIZE A B				
IS APPLIED TO UPPER DIAPHRAGM CHAMBER TO CLOSE THE VALVE PIPE A B IS APPLIED TO DIAPHRAGM VALVE			· · · · · · · · · · · · · · · · · · ·	
DIAPHRAGM VALVE DIAPHRAGM VAL				
	DIAPHRAGM VALVE.		2.04 3.00	

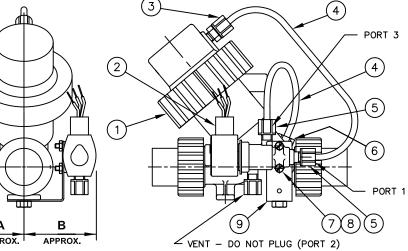
SOLENOID DE-ENERGIZED.

PRESSURE FROM UPPER DIAPHRAGM CHAMBER IS VENTED, THROUGH SOLENOID PORT 1 TO PORT 3 TO DRAIN. UPSTREAM PRESSURE OPENS THE DIAPHRAGM VALVE.

VALVE SERIES	PIPE SIZE	A	В
531	3/4", 1"	<u>2.04</u> 51.8	<u>3.00</u> 76.2
534	1-1/2"	<u>2.62</u> 66.5	<u>4.00</u> 101.6
535	2"	<u>3.18</u> 80.8	<u>4.12</u> 104.6
537	3"	<u>3.79</u> 96.3	<u>4.12</u> 104.6

INCHES MILLIMETERS

L L	٧٥.	DESCRIP	TION			PART NO.	QTY.
Γ	1	DIAPHRAGM	VALVE - NORMA	LLY C	OPEN		1
	2		ENOID VALVE 4 ONLY)	110 220 24		1075637 (8360A71) 1075638 (8360A71V) 1075639 (8360A71VV)	1
	3	COUPLING	1/8" M. X 1/4" 1/4" M. X 1/4"	TUBE TUBE		1071935 (PTP-0001) 1071941 (PTP-0019)	1
Γ	4	NYLON TUB	ING – BLACK (1/	′4 " 0.	D.) (NOTE 1)	1071936 (PTP-0005)	N/A
	5	NUT AND S	LEEVE ASSEMBLY	(1/4'	* TUBE)	1071939 (PTP-0009)	3
	6	90° ELBOW	.,	TUBE TUBE	531,534 535,537	1071937 (PTP-0006) 1071938 (PTP-0008)	1
Γ	7	RD. HD. MA	CH. SCREW (8-3	2 X 1	1/4")	1072377 (SCS-0086)	2
	8	HEX NUT (8	8–32)			1071646 (NUS-0004)	2
E	9	SOLENOID N	OUNTING BRACKE	T		1073272 (V531-070)	1



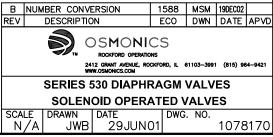
ENERGIZED TO OPEN

SOLENOID DE-ENERGIZED.

UPSTREAM PRESSURE, FROM SOLENOID PORT 3 TO PORT 1, IS APPLIED TO UPPER DIAPHRAGM CHAMBER TO CLOSE THE DIAPHRAGM VALVE.

SOLENOID ENERGIZED.

PRESSURE FROM UPPER DIAPHRAGM CHAMBER IS VENTED, THROUGH SOLENOID PORT 1 TO PORT 2 TO DRAIN. UPSTREAM PRESSURE OPENS THE DIAPHRAGM VALVE.

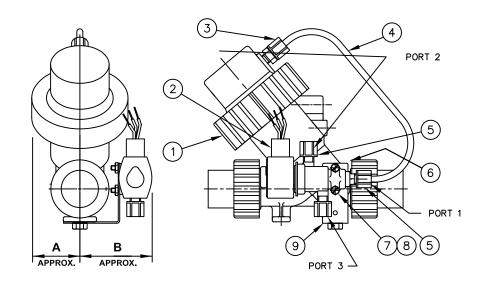


FORM NO. 1078172

NOTE:

1. LENGTH OF TUBING VARIES WITH EACH SIZE OF DIAPHRAGM VALVE.

2. DIAPHRAGM VALVE IS NORMALLY OPEN



INDEPENDENT CONTROL PRESSURE

ENERGIZE TO OPEN

APPLY CONTROL PRESSURE AT SOLENOID PORT NO. 3 (PORT NO. 2 VENTED)

ENERGIZE TO CLOSE

APPLY CONTROL PRESSURE AT SOLENOID PORT NO. 2 (PORT NO. 3 VENTED)

CONTROL PRESSURE MUST BE EQUAL TO OR GREATER THAN LINE PRESSURE.

VALVE SERIES	PIPE SIZE	A	В
531	3/4", 1"	2.04	3.00
331	3/4,1	51.8	76.2
534	1-1/2"	2.62	4.00
554	1-1/2	66.5	101.6
535	2"	3.18	4.12
555	2	80.8	104.6
537	3"	3.79	4.12
551	3	96.3	104.6

INCHES MILLIMETERS

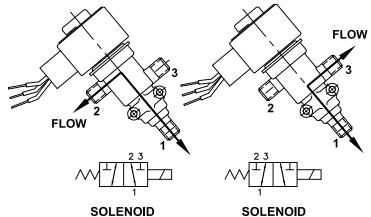
NO.	DESCRIP	TION			PART NO.		QTY.
1	DIAPHRAGM	VALVE - NORMA	LLY (DPEN			1
	3 WAY SOL	ENOID VALVE	110		1075637 (8360A71)		
2		4 ONLY)	220	V. 50 HZ.	1075638 (8360A71V)		1
	(NEMA	4 UNLT)	24	V. 60 HZ.	1075639 (8360A71VV	の	
3	COUPLING	1/8" M. X 1/4"	TUBE	531,534	1071935 (PTP-0001))	1
5	COUPLING	1/4" M. X 1/4"	TUBE	535,537	1071941 (PTP-0019))	
4	NYLON TUB	ING – BLACK (1/	' 4 " 0.	D.) (NOTE 1)	1071936 (PTP-0005)		N/A
5	NUT AND S	LEEVE ASSEMBLY	(1/4'	'TUBE)	1071939 (PTP-0009))	3
6	90° ELBOW	1/8" M. X 1/4"	TUBE	531,534	1071937 (PTP-0006))	1
0	90 ELBOW	1/4" M. X 1/4"	TUBE	535,537	1071938 (PTP-0008))	
7	RD. HD. MA	CH. SCREW (8-3	2 X 1	1/4")	1072377 (SCS-0086)	2
8	HEX NUT (8–32)			1071646 (NUS-0004) [2
9	SOLENOID N	OUNTING BRACKE	T		1073272 (V531-070))	1

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Z

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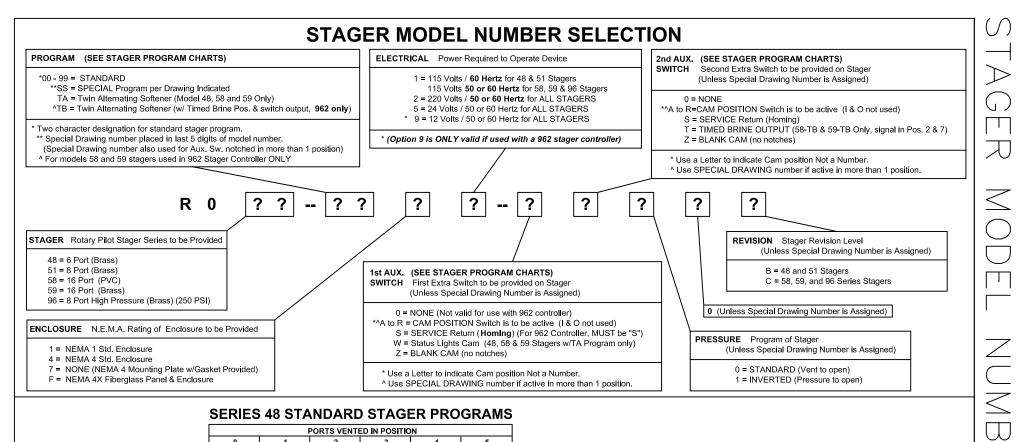
)PER



SOLENOID **ENERGIZED**

CURRENT DRAIN (AMPERES)										
VOLTAGE	INRUSH	HOLDING								
24V 60Hz	1.66	1.04								
120V 60Hz	0.33	0.21								
220V 50Hz	0.18	0.11								

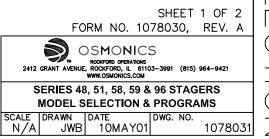
2 3 1 1 NOID 3IZED	DE		RGIZE				ED DIAPHRAGM VALV
CURREN	IT DRAIN (AN	/PERES	5)				
VOLTAGE	INRUSH	HOLD	ING				フ
24V 60Hz	1.66	1.0					$\mathbf{\Sigma}$
20V 60Hz 20V 50Hz	0.33 0.18	0.2					$\mathbf{\tilde{\mathbf{a}}}$
	ORM NO. 1						M
	ER CONVERSIO	N	1588	MSM	19DEC02		
REV D		10NI FORD OPERATIO T AVENUE, ROC IICS.COM	NS	61103-3991	(815) 96		AL
S	ERIES 530 I	DIAPHF	RAGM	VALV	ES		\leq
	SOLENOID	OPER/			S		
SCALE [N/A	JWB 2	e 9JUN(G. NO.	1078	3170	S



SERIES 48 STANDARD STAGER PROGRAMS

					PORTS VENT	ED IN POSITIO	N				
			0	1	2	3	4	5	1		
STAGER PROGRAM	# POS.		Α	в	с	D	Е	F	REF. DWG NO.	FUNCTION	
00	4	POSITION	SVC		BW		BSR	FR	4800PRGM	4 POS. SOFTENER	
00	4	PORTS VENTED	1, 2		3, 4		5, 6	1, 6	4000PKGM	4 POS. SOFTENER	
01	3	POSITION	SVC		BW			FR	4801PRGM	3 POS. FILTER	
01	3	PORTS VENTED	1, 2		3, 4			1, 6	400 IFKGW	3 FUS. FILTER	
03	4	POSITION	SVC		BW		BSR	FR	4803PRGM	4 POS. SOFTENER	
03	4	PORTS VENTED	1, 2		3, 4		5, 6	1, 6	4003F KGIW	(BUTTERFLY CAM)	
04	2	POSITION	SVC		BW				4804PRGM	2 POS. FILTER	
04	2	PORTS VENTED	1, 2		3, 4						
12	4	POSITION	SVC		BW -or- ASC	BSR -or- BW		FR		4 POS. FILTER W/ AIR SCO -OR- 4 POS. UPFLOW	
12	4	PORTS VENTED	1, 2		3, 4	4, 5		1, 6	4812PRGM	SOFTENER	
83	4	POSITION	BW2	BW3			SVC	BW1	4883PRGM 3 TANK SEQUENTI	3 TANK SEQUENTIAL FILT	
03	4	PORTS VENTED	2	3			6	1	4003FKGW	3 TANK SEQUENTIAL FIL	
84	5	POSITION	BW2	BW3	BW4		SVC	BW1	4884PRGM	4 TANK SEQUENTIAL FIL	
04	5	PORTS VENTED	2	3	4		6	1	4004PKGI/	4 TANK SEQUENTIAL FIL	
05	6	POSITION	BW2	BW3	BW4	BW5	SVC	BW1	1005DDCM	5 TANK SEQUENTIAL FIL	
85	0	PORTS VENTED	2	3	4	5	6	1	4885PRGM	5 TANK SEQUENTIAL FIL	
т۸	2	POSITION	SVCA		SVCB				48TAPRGM	2 TANK ALTERNATOR	
ТА	2	PORTS VENTED	1		2						
TD	2	POSITION	SVCA	SVCB	SVCA	SVCB	SVCA	SVCB	48TAPRGM	2 TANK ALTERNATOR	
тв	2	PORTS VENTED	1	2	1	2	1	2		2 TANK ALTERNATOR	

ASC = AIR SCOUR
BSR = BRINE / SLOW RINSE
BW = BACKWASH
FR = FAST RINSE
SVC = SERVICE
SVCA = SERVICE UNIT A
SVCB = SERVICE UNIT B



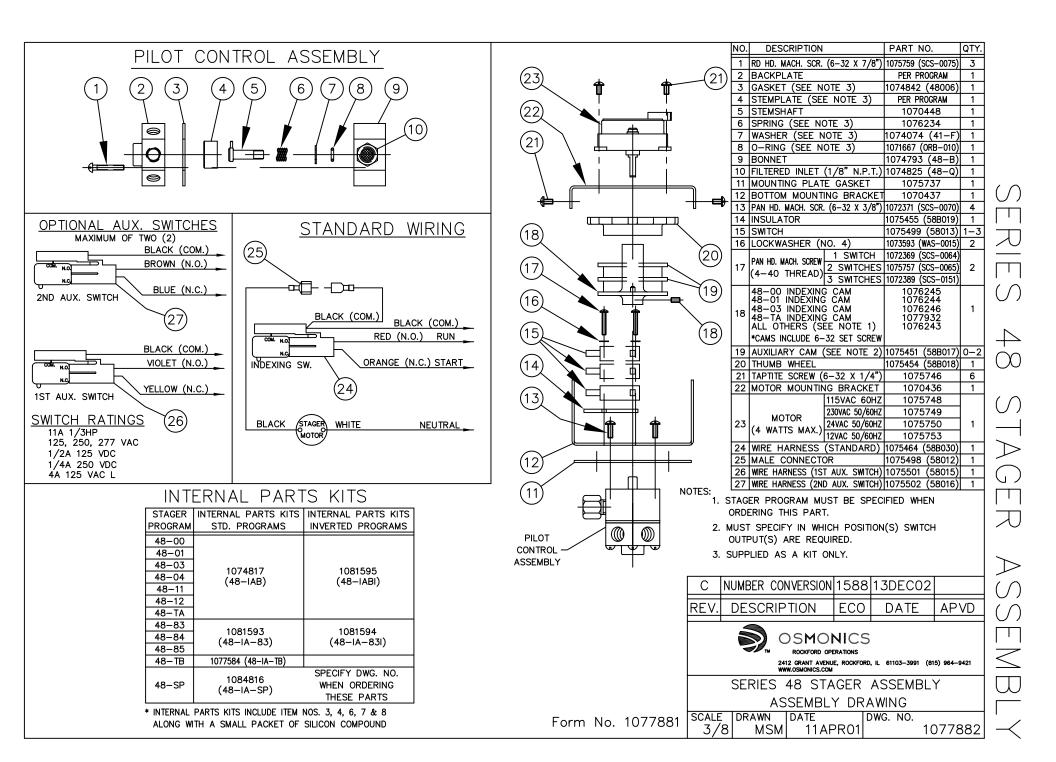
									F	ORTS VENTI	ED IN POSITIO	ON								
			0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
STAGER PROGRAM	# POS.		А	в	с	D	Е	F	G	н	J	к	L	м	N	Р	Q	R	REF DWG NO	FUNCTION
		POSITION	SVC			CBW			INJ	CSR	CFR	ABW			ADR	ASR	AFR			
00	9	PORTS VENTED	1,15,16			2,3			5,6,7	6,7	1,7	1,10			1,11,12,13	1,12,13	1,13,15		5800PRGM	2 BED DI UNIT
		POSITION	SVC										DRD	ASC		BW		FR		5 POSTION FILTER, DOUE
01	5	PORTS VENTED	3,4,5,6,7,8, 9,10										7,8,9,10,11, 12,13,14	5,8,9,10,11, 12,14,15		1,5,6,7,10, 11,12,16		2,3,5,6,7,8, 9,12	5801PRGM	ACTING VALVES
		POSITION	SVC			CBW			CDR	CSR	CFR	ABW			ADR	ASR	AFR			2 BED DI UNIT. OUTLET
02	9	PORTS VENTED	1,2,3,16			4			6,7,8	7,8	1,8	1,3,11			1,3,12,13,14	1,3,13,14	1,3,14,16		5802PRGM	VALVE ON CATION UNIT
		POSITION	SVC		BW1	FR1			BW2	FR2			BW3	FR3						3 TANK SEQUENTIAL FILTE
03	7	PORTS VENTED	2,4,6,7, 9,11		1,6,7,9,11	2,6,7,9, 11.12			2,4,5,9,11	2,4,6,9, 11,16			2,3,4,6,7	2,4,6,7,9,10						BW & FAST RINSE
		POSITION	SVC		BW1	FR1			BW2	FR2			BW3	FR3			BW4	FR4		4 TANK SEQUENTIAL FILT
04	9	PORTS VENTED	2,4,6,7,9,11, 14,15		1,6,7,9,11, 14,15	2,6,7,9, 11,12,14,15			2,4,5,9,11, 14,15	2,4,6,9, 11,14,15,16			2,3,4,6,7, 14,15	2,4,6,7,9,10, 14,15			2,4,6,7,9, 11,13	2,4,6,7,8,9, 11,14	5804PRGM	BW & FAST RINSE
		POSITION	SVC		BW		INJ	DISP	FR	DRN		AM	AMD		REF			FNR		MIXED BED DI,
07	10	PORTS VENTED	11,12		1,13		1,3,15,16	1,3,16	1,3,11	3,7		5,7	3,5,7		7,11			10,11	5807PRGM	SIMULTANEOUS REGENERATION
		POSITION	SVC		BW	SET		CDR	CSR		ADR	ASR	AFR		DRD	AM		FNR		
10	11	PORTS VENTED	15,16		1	(NONE)		4,5,9	5,9		7,8,9	8,9	9,10		9,12	12,13		14,15	5810PRGM	MIXED BED DI UNIT
		POSITION	SVCA			BWA	BSRA			FRA	SBA					BWB	BSRB	FRB		TWO UNIT ALTERNATIN
ТА	8	PORTS VENTED	1,2,8,16			6,8,11	5,7,8,11			7,8,11,16	8,11,16					2,13,16	1,2,15,16	2,8,15,16	58TAPRGM	58TAPRGM SOFTENER
A		POSITION	SVCA			BWA		BRD	SR	FRA	SBA			BWB		BRD	SR	FRA		TWO TANK ALTERNATO
TB *	10	PORTS VENTED	6,14,16			1.2.6.8		4.5.6.8	4.5.6.8	5,6.8,14	6.8.14			9,10,14,16		12,13,14,16	12.13.14.16	6,13,14,16	58TBPRGM	W/ TIMED BRINE

* TB PROGRAM FOR USE WITH SERIES 962 CONTROLLER ONLY.

SERIES 51 & 96 STANDARD STAGER PROGRAMS

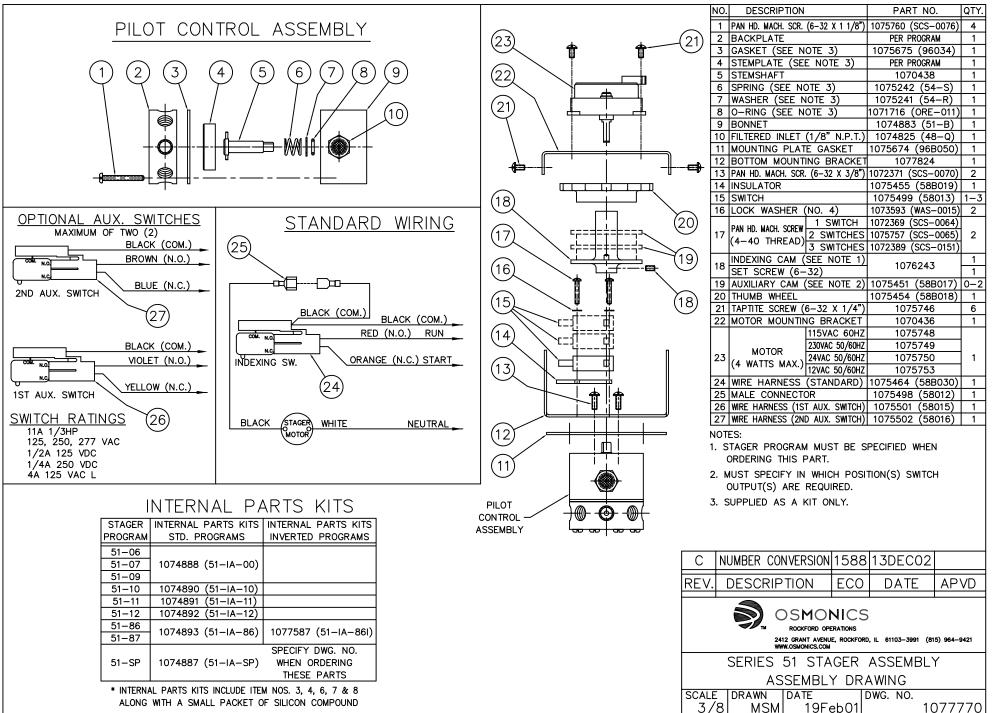
						PORTS VENT	ED IN POSITIC	N					
			0	1	2	3	4	5	6	7			
STAGER PROGRAM	# POS.		А	в	с	D	E	F	G	н	REF. DWG NO	FUNCTION	
		POSITION	SVC		BW		BRD	SR	FR	REF	5106PRGM	6 POSITION SOFTENER	
06	6	PORTS VENTED	1, 2		4		5, 6, 7	6, 7	1, 7	1, 2, 8	-or- 9606PRGM	(TIMED DRAW & REFILL)	
		POSITION	SVC		BW		BRD	SR	FR		5107PRGM	5 POSITION SOFTENER	
07	5	PORTS VENTED	1, 2		4		5, 6, 7	6, 7	1, 7		-or- 9607PRGM	(TIMED DRAW)	
		POSITION	SVC			BW	BSR		FR	REF	5109PRGM	5 POSITION SOFTENER	
09	5	PORTS VENTED	1, 3			4	5, 7		1, 7	1, 8	-or- 9609PRGM	(TIMED REFILL)	
		POSITION	SVC		BW	FRA			BW2	FRB	5110PRGM	2 TANK SEQUENTIAL FILTER	
10	5	PORTS VENTED	1, 2, 5, 6		5, 6, 7	1, 5, 6, 8			1, 2, 3	1, 2, 4, 5	-or- 9610PRGM	(D)A(8 ED)	
		POSITION	SVC		DRD		ASC	BW		FR	5111PRGM		
11	7	PORTS VENTED	2,3		1,4		4,6,7	4,7,8		1,2	-or- 9611PRGM	FILTER WITH AIR SCOUR	
		POSITION	SVC	BW		BRD	DISP	RECL	FR		5112PRGM		
12	6	PORTS VENTED	1,8	2		4,5	4,5	5,6	4,8		-or- 9612PRGM	BRINE RECYCLE SOFTENER	
		POSITION	SVC	BW1	BW2	BW3	BW4	BW5	BW6		5186PRGM		
86	7	PORTS VENTED	8	1	2	3	4	5	6		-or- 9686PRGM	6 TANK SEQUENTIAL FILTE	
		POSITION	BW1	BW2	BW3	BW4	BW5	BW6	BW7	SVC	5187PRGM		
87	8	PORTS VENTED	1	2	3	4	5	6	7	8	-or- 9687PRGM	7 TANK SEQUENTIAL FILT	

FR = FAST RINSE ABW = ANION BACKWASH FRA = FAST RINSE UNIT A ADR = ANION DRAW AM = AIR MIXFRB = FAST RINSE UNIT B FNR = FINAL RINSE AMD = AIR MIX & DRAIN DOWN INJ = INJECT ASC = AIR SCOUR RECL = RECLAIM ASR = ANION SLOW RINSE REF = REFILL AFR = ANION FAST RINSE SBA = STANDBY UNIT A BW = BACKWASH SBB = STANDBY UNIT B BWA = BACKWASH UNIT A SET = SETTLE BWB = BACKWASH UNIT B SR = SLOW RINSE BRD = BRINE DRAW SVC = SERVICE BSR = BRINE / SLOW RINSE SVCA = SERVICE UNIT A BSRA = BRINE / SLOW RINSE UNIT A SVCB = SERVICE UNIT B BSRB = BRINE / SLOW RINSE UNIT B CBW = CATION BACKWASH CDR = CATION DRAW CFR = CATION FAST RINSE CSR = CATION SLOW RINSE DRD = DRAIN DOWN SHEET 2 OF 2 DISP = DISPLACE FORM NO. 1078030, REV. A Ð OSMONICS 2412 GRANT AVENUE, ROCKFORD, IL 61103-3991 (815) 964-9421 WWW.0SMONICS.COM SERIES 48, 51, 58, 59 & 96 STAGERS **MODEL SELECTION & PROGRAMS** SCALE | DRAWN | DATE DWG. NO. N/A JWB 10MAY01 1078031



5.06 [129] 3.25 [83]	NO. DESCRIPTION PART NO. QTY.	
DRAIN PORT 1/8" N.P.T.	1 STAGER ASSEMBLY R048 B 1 NEMA 1 1075751 1	
	2 ENCLOSURE NEMA 4 1077966 NEMA 4XFG 1077969	
	3 PAN HEAD MACHINE SCREW 1075758	-
	10-32 x 1/2 LONG (310-B0)	48
	4 LOCKWASHER (NO. 10) 1073588 (WAS-0005) 2	
	NOTE:	
(6) CONTROL PORTS	1. STAGERS CAN BE MANUALLY ADVANCED BY ROTATING THE CAM CLOCKWISE.	ROGRAMS
	2. PIPING SCHEMATICS AVAILABLE UPON	A
NEMA 1 ENCLOSURE MEMA 4 ENCLOSURE	REQUEST.	$ \leq$
	3. ALL STAGERS EXCEPT 48-03 & 48-TA	
	SUPPLIED WITH NOTCHED CAM FOR PULSE OUTPUT TYPE TIMERS. 48-03 &	AND
	48-TA SUPPLIED WITH BUTTERFLY CAM	
	FOR "UP/DOWN" OUTPUT TYPE TIMERS.	MOUNTING
		\Box
SERIES PORTS VENTED IN POSITION DESCRIPTION	C NUMBER CONVERSION 1588 13DECO2	=
NO: A B C D E F	REV. DESCRIPTION ECO DATE APVD	
48-00 1,2 (SVC) - 3,4 (BW) - 5,6 (BR) 1,6 (FR) 4 POS. SOFTENER 48-01 1,2 (SVC) - 3,4 (BW) - - 1,6 (FR) 4 POS. SOFTENER		
48-03 1,2 (SVC) - 3,4 (BW) - 5,6 (BR) 1,6 (FR) 4 POS. SOFTENER (SEE NOTE 3) 48-04 1,2 (SVC) - 3,4 (BW) - - - 2 POS. FILTER		고
48-12 1,2 (SVC) - 3,4 (BW) 4,5 (BR) - 1,6 (FR) 4 POS. SOFTENER W/UPFLOW BRINE	2412 GRANT AVENUE, ROCKFORD, IL 61103–3991 (815) 964–9421 WWW.OSMONICS.COM	$ \leq$
48-83 2 (BW) 3 (BW) - - 6 (SVC) 1 (BW) 3 TANK SEQUENTIAL FILTER 48-84 2 (BW) 3 (BW) 4 (BW) - 6 (SVC) 1 (BW) 4 TANK SEQUENTIAL FILTER	SERIES 48 STAGER	
48-84 2 (BW) 3 (BW) 4 (BW) - 6 (SVC) 1 (BW) 4 TANK SEQUENTIAL FILTER 48-85 2 (BW) 3 (BW) 4 (BW) 5 (BW) 6 (SVC) 1 (BW) 5 TANK SEQUENTIAL FILTER	PROGRAMS AND MOUNTING DRAWING	
48-TA 1 - 2 2 TANK ALTERNATOR (SEE NOTE 3)	SCALE DRAWN DATE DWG. NO. N/A MSM 11Apr01 1077882	19
48-TB 1 2 1 2 1 2 2 TANK ALTERNATOR		

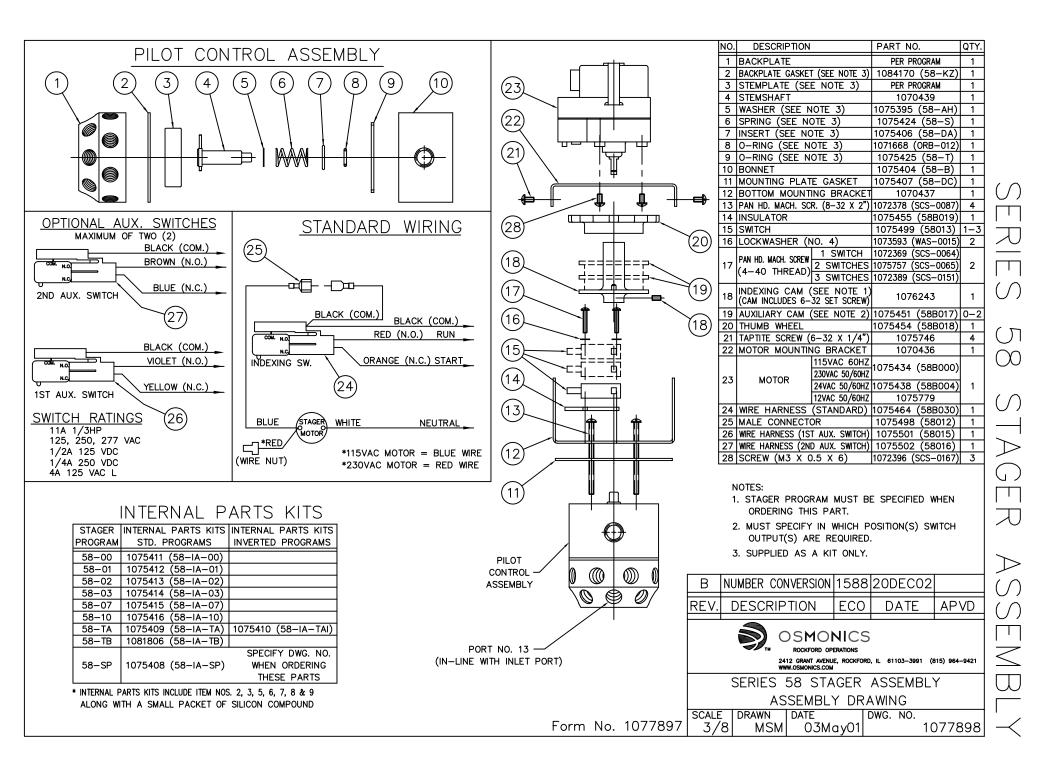
Form No. 1077803

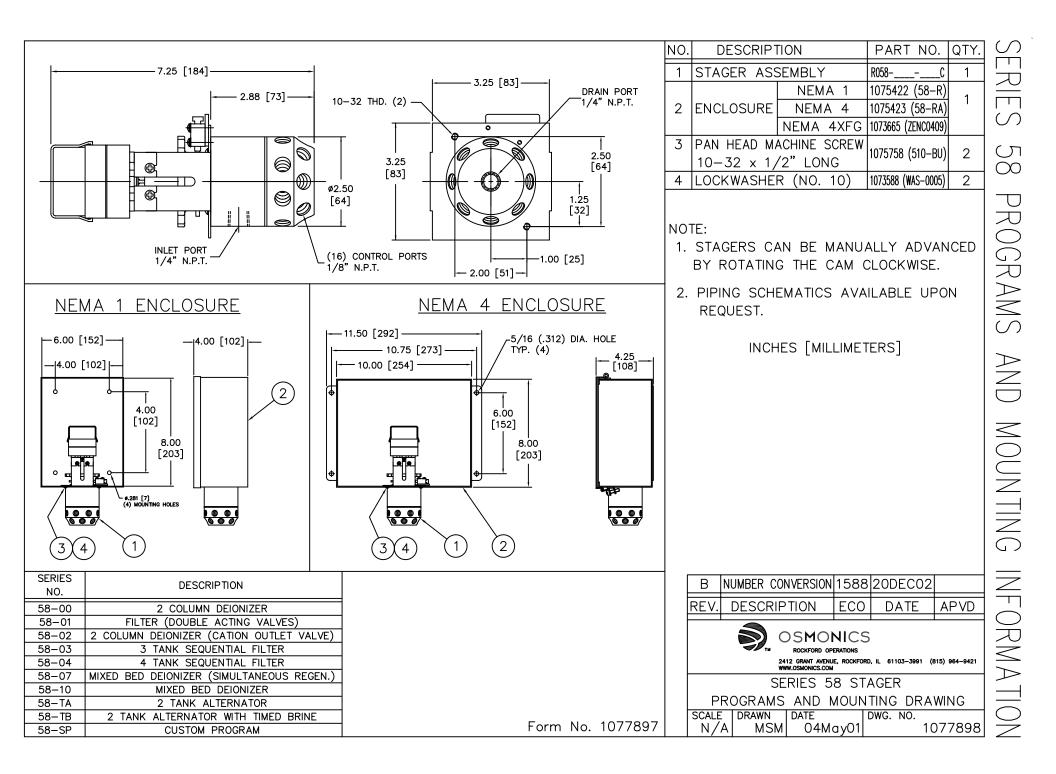


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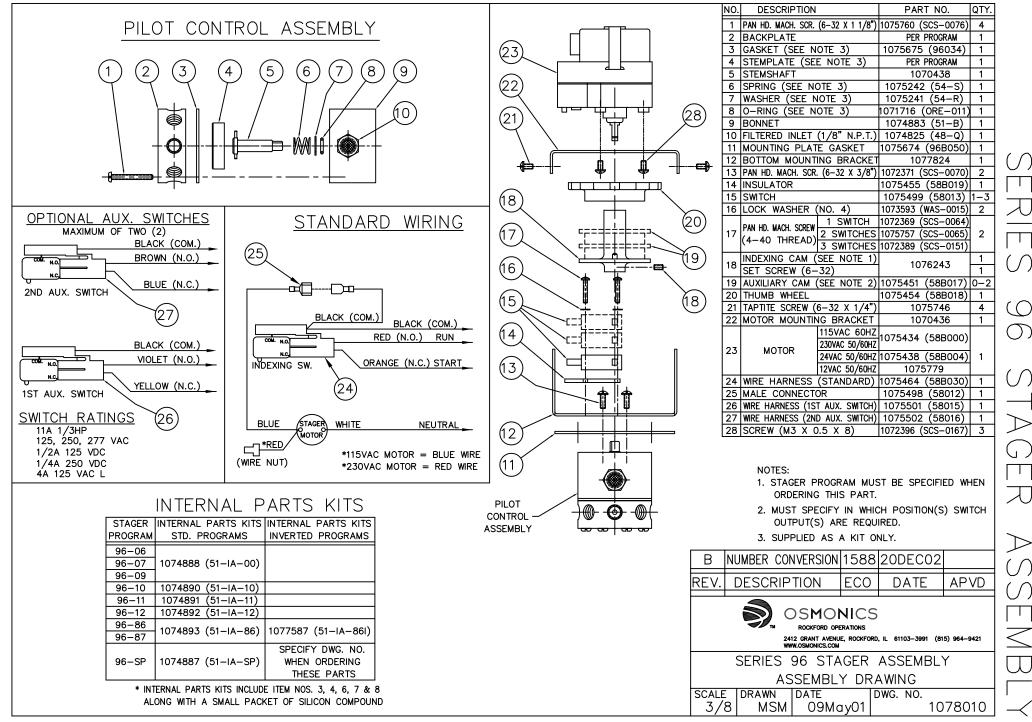
5.45 [138]	NO. DESCRIPTION PART NO. QTY. 1 STAGER ASSEMBLY R051B 1 2 ENCLOSURE NEMA 1 1075751 1 2 ENCLOSURE NEMA 4 1077967 1 3 PAN HEAD MACHINE SCREW 1075758 2 10-32 x 1/2" LONG (510-BU) 2 4 LOCKWASHER (NO. 10) 1073588 2 NOTE: 107E 10	SERIES 51 PR
FILTERED INLET PORT	 1. STAGERS CAN BE MANUALLY ADVANCED BY ROTATING THE CAM CLOCKWISE. 2. PIPING SCHEMATICS AVAILABLE UPON REQUEST. 	ROGRAMS
SERIES $PORTS VENTED IN POSITION$ $BERIES$ $BORTS VENTED IN POSITION$ $BERIES$	INCHES [MILLIMETERS]	IS AND MOUNTING
NO. A B C D E F G H DESCRIPTION $51-06$ $1,2(SVC)$ - $4(BW)$ - $5,6,7(BR)$ $6,7(SR)$ $1,7(FR)$ $1,2(BR,REF)$ TIMED BR. & REFILL SOFT. $51-07$ $1,2(SVC)$ - $4(BW)$ - $5,6,7(BR)$ $6,7(SR)$ $1,7(FR)$ - TIMED BR. & REFILL SOFT. $51-07$ $1,2(SVC)$ - $4(BW)$ - $5,6,7(BR)$ $6,7(SR)$ $1,7(FR)$ - TIMED BRINE SOFTENER $51-09$ $1,3(SVC)$ - - $4(BW)$ $5,7(BR/SR)$ - $1,7(FR)$ $1,8(REF)$ TIMED REFILL SOFTENER $51-10$ $1,25,6(SVC)$ - $5,6,7(BWI)$ $1,5,6,8(FRI)$ - $1,2,3(BW2)$ $1,2,4,5(FR2)$ 2 TANK SEQ. FILTER $51-11$ $2,3(SVC)$ - $1,4(DR)$ - $4,6,7(AS)$ $4,7,8(BW)$ - $1,2(FR)$ FILTER WITH AIR SCOUR $51-12$ $1,8(SVC)$ $2(BW)$ $ 4,5(DSP)$ $5,6(REC)$ $4,8(FR)$ - BRINE RECYCLE SOFT.	C OSMONICS ROCKFORD OPERATIONS 2412 GRANT AVENUE, ROCKFORD, IL 61103-3991 (815) 964-9421	INFORMATION

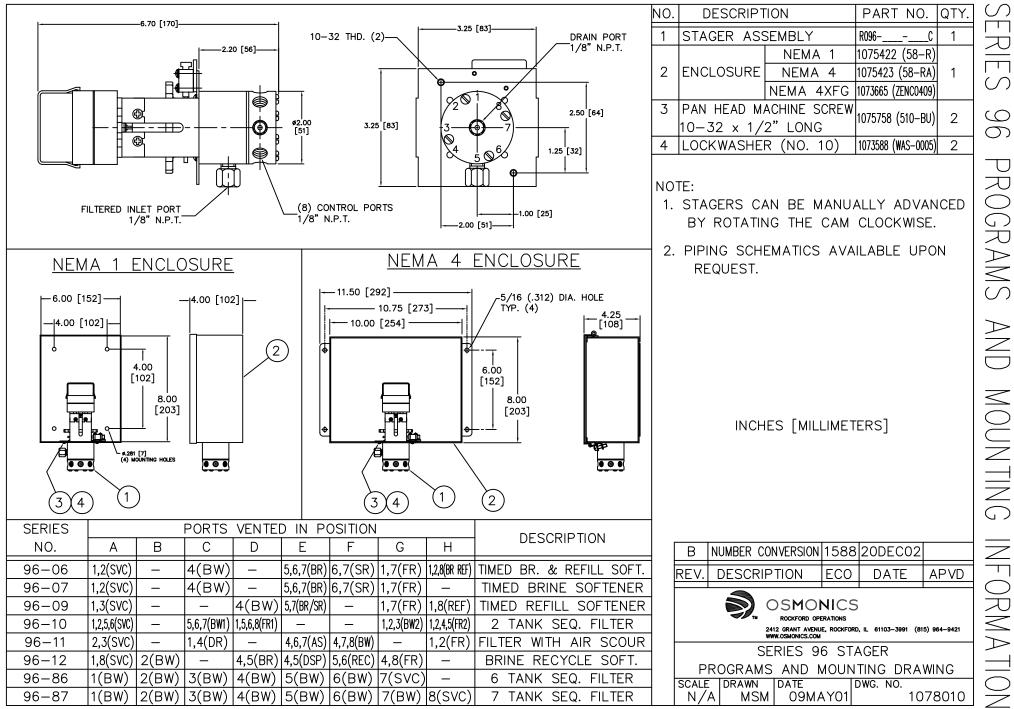
Form No. 1077803





Form No. 1078009





Form No. 1078009

AquaMatic® A100 and A200 Stager Controls

Product Information



The AquaMatic A100 and A200 stager controls combine an AquaMatic stager with a reliable OSMONICS Autotrol timer, mounted and prewired in a NEMA enclosure. The AquaMatic stager is a rotary pilot valve with multiple ports for directing fluid flows to operate various diaphragm valves installed in a process system. AquaMatic stager internal parts are constructed of durable, non-corroding, self-lubricating material for long, maintenance-free life. The A100 controls have an integral time lock, which is programmed to begin the regeneration process. The A200 control is initiated when an electrical signal is provided. Cycle times are programmable to accommodate a wide range of filter and softener applications.

Standard Features

- Homing operation Stager returns to service whenever timer is in service position
- NEMA 1 enclosure NEMA 4 and NEMA 4XFG also available
- 120 VAC/60 HZ 220 VAC/50 HZ, 220 VAC/60 HZ, and 24 VAC/50 HZ also available
- Choice of six-day or seven-day timer for A100
- Maximum of 10 cycles programmable in three minute increments
- 102 minute available

Optional Features

- External push-button for manual start (A200 Only)
- Status Lights
- Contact closure (dry or powered) can be provided during a cycle or cycles on all models

Applications

Single Unit Controls	Model Number					
Typical Softeners and Filters	i					
Time Initiated	A148					
Signal Initiated	A248					
More Complex Softeners and Filters						
Time Initiated	A151					
Signal Initiated	A251					
High Pressure (250psi/17 bar) Stagers for					
Typical and Complex Softeners and Filters						
Time Initiated	A196					
Signal Initiated	A296					

Multiple Unit Controls	trols Model Number				
Twin Alternating Softeners and Filters					
Time Initiated A158TA					
Signal Initiated	A258TA				
Sequential Filters (Backwash only)					
Time Initiated	A148				
Signal Initiated	A248				
2 Unit Sequential Filters (Backwash and Rinse)					
Time Initiated	A151				
Signal Initiated	A251				
3 or 4 Unit Sequential Filters (Backwash and Rinse)					
Time Initiated	A158				
Signal Initiated	A258				

Specifications

Power Requirements:	120VAC/60 HZ/3 WATTS 220 VAC/50 HZ/3 WATTS 220 VAC/60 HZ/3 WATTS 24 VAC/50 HZ/3 WATTS
Initiation Signal (A200 only):	Line Voltage (minimum of three-minute signal duration)
Stager Port Sizes:	All inlet, control, and drain ports 1/8 inch NPT threads (except Series 58 and 59 inlet and drain ports are 1/4 inch NPT)
Control Fluid:	Air or water (100 micron strainer recommended)
Control Pressure:	125 psi (8.6 bar)
Control Temperature:	140°F (60°C)
Enclosure Options:	NEMA 1 (metal) NEMA 4 (metal) NEMA 4XGF (fiberglass)

AquaMatic[®] 962 Series Stager Controls

Electronic Controls for Filters and Softeners



The AquaMatic 962 stager controls combine an AquaMatic stager with an Autotrol® 962 series electronic control, mounted and prewired in a NEMA-rated enclosure. The AquaMatic stager is a rotary pilot valve with multiple ports for directing fluid flows to operate various diaphragm valves installed in a water treatment system. AquaMatic stager internal parts are constructed of durable, non-corroding, self-lubricating materials for long, maintenance-free life.

The series 962 electronic controls provide sophisticated, demand-based water conditioning by combining a microprocessor with a flow meter to electronically monitor the amount of water used. Time-based and/or external signal initiation is also available as a standard feature.

This fully programmable series of controls provide the ability to fine-tune the operation to meet the application requirements.

Standard Features

- z Accepts an input from a variety of flow sensors to electronically monitor the amount of water used
- z Homing operation The control and stager automatically synchronize to the service position
- z NEMA 4XFG fiberglass enclosure
- z 115VAC 50/60Hz and 230VAC 50/60Hz
- z Up to 15 programmable timed regeneration cycles are available, programmable from 0 to 255 minutes

Optional Features

- z Battery backup (rechargeable) for monitoring time-of-day and water usage for up to eight hours during a power outage
- z A dry or powered contact closure can be provided during a cycle or cycles of operation on all models
- z A SPDT relay can be added to provide an additional signal during Service/Regeneration (SingleTank & Twin-Alternating units only)

Applications

SINGLE UNIT CONTROLS M	ODEL NUMBER	DESCRIPTION					
Typical Softeners and Filters	E948*	962 Control w/model 48, 6-port stager					
More Complex Softeners and Filters	E951*	962 Control w/model 51, 8-port stager					
MULTIPLE UNIT CONTROLS MODEL NUMBER DESCRIPTION							
Twin-Alternating Softeners & Filters	E958-TB	962 Control w/model 58-TB, 16-port stager					
(w/Timed Brine switch output)							
Twin-Alternating Softeners	E958-TA	962 Control w/model 58-TA, 16-port stager					
Sequential Filters (Backwash Only)	E948	962 Control w/model 48, 6-port stager					
2 Unit Sequential Filters (Backwash & Rinse)	E951	962 Control w/model 51, 8-port stager					
3 or 4 Unit Sequential Filters	E958	962 Control w/model 58, 16-port stager					

* Two-tank and three-tank parallel systems can be controlled by individual controls provided with lockout feature (Lockout feature is void when using the added relay output option).

Special Features

- **Z** Memory Retention During a power outage, critical operating information is stored in memory with no reprogramming required
- z Capacity Setting Lockout The control can be programmed to lock the capacity value so it cannot be altered after installation
- **Z Operating Histories** Important operating data is stored in memory and is retrievable upon demand. The historical data includes peak flow data as well as average daily usage for each day of the week
- z U.S. or Metric Units of Measure
- z Multiple Initiation Options
 - Manual regeneration A separate REGEN button is provided for manual regenerations
 - **Remote regeneration** A set of terminals (w/programmable delay) is provided to allow for a regeneration to be initiated from a remote location
 - **Calendar override** If the volume of water has not caused a regeneration, the 962 can be set to regenerate every one to thirty days
 - **Day of the week** Regeneration on a specific day or days of the week with regeneration occurring at a specific time of day (programmable)
 - Volume of water used With regeneration occurring either immediately or delayed to a specific time of day (programmable)
- z Selectable Reserve Options
 - **Fixed reserve** The reserve is fixed at a programmable percentage (30% factory preset) of the total capacity
 - **Variable reserve** The controller monitors the daily water usage and at the programmed time of regeneration, calculates the average water used for each day of the week. The reserve capacity is set to 120% of the average water usage for the next day.

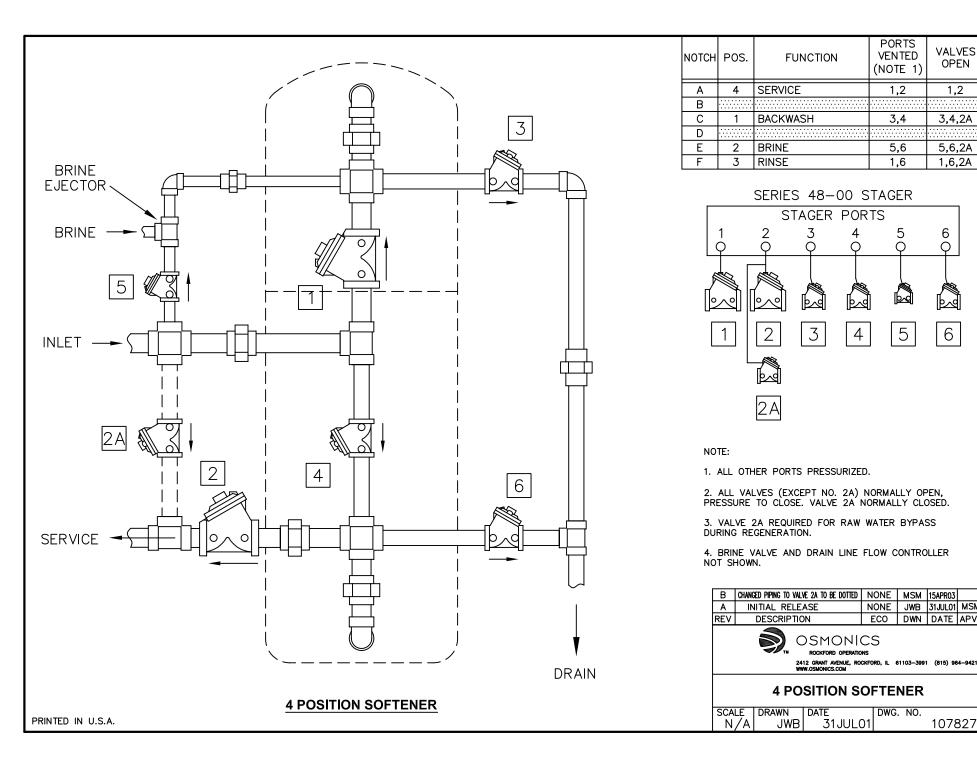
For More Information:

Call Osmonics Process Water Group at (815) 964-9421 or (800) 245-9421, or visit www.osmonics.com





North American Sales 2412 Grant Avenue Rockford, IL 61103-3991 USA (815) 964-9412 Phone (815) 964-4449 Fax Latin American Sales Rua Pastuer, 463, 13 Andar Centro Empresarial Jactoba Curitiba - PR, CP 80250-080 BRAZIL +55 41 312 1691 Phone +55 41 312 1699 Fax Euro/Africa Sales 230 rue Robert Schuman ZA des Uselles 77350 Le Mée sur Seine FRANCE +33 1 64 10 2000 Phone +33 1 64 10 3747 Fax Asia/Pacific Sales 1044/8 SOI 44/2 Sukhumvit Road Prakanong Bangkok 10110 THAILAND +66 2 38 14213 Phone +66 2 39 18183 Fax



VALVES 4 OPEN 1,2 3,4,2A 5,6,2A 1,6,2A \bigcirc OS NC 6 Q ٥٨٩ 6 ENER (48-00 ST JWB 31JUL01 MSM \triangleright ECO DWN DATE APVD G し

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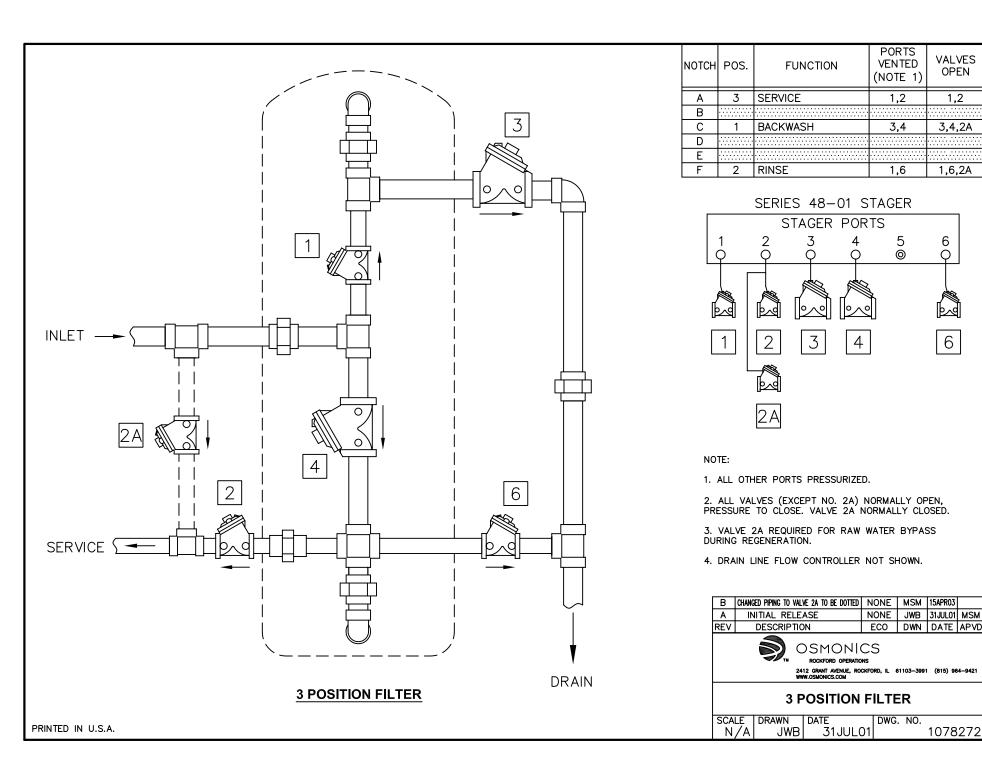
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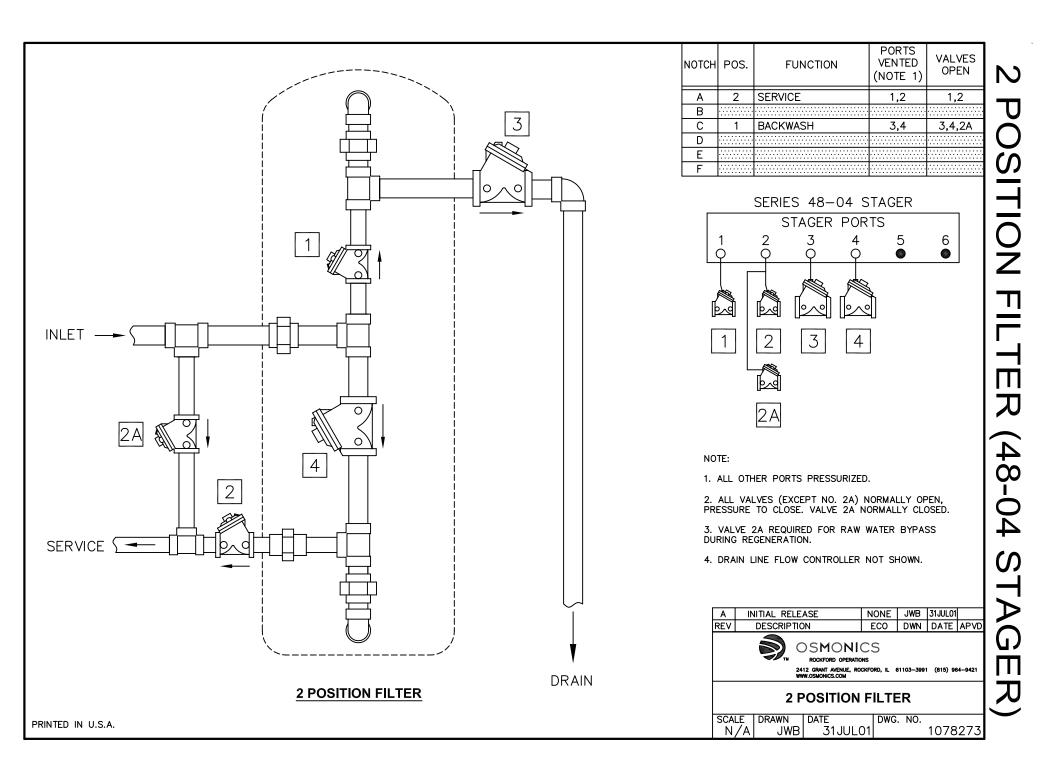
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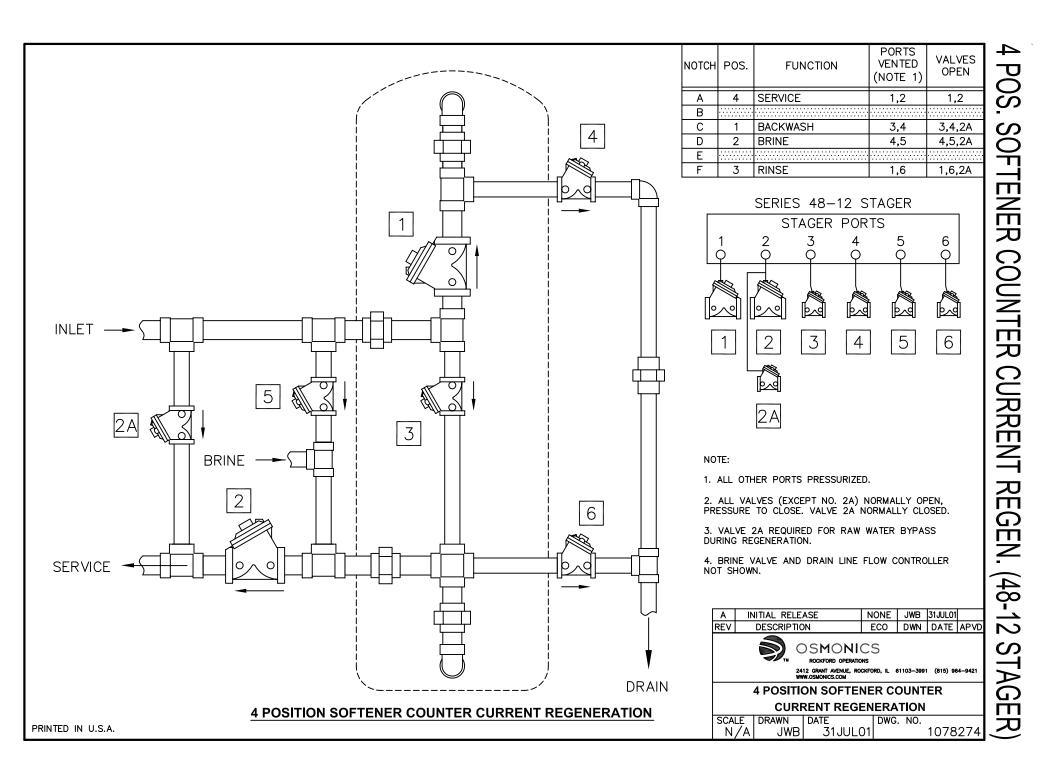


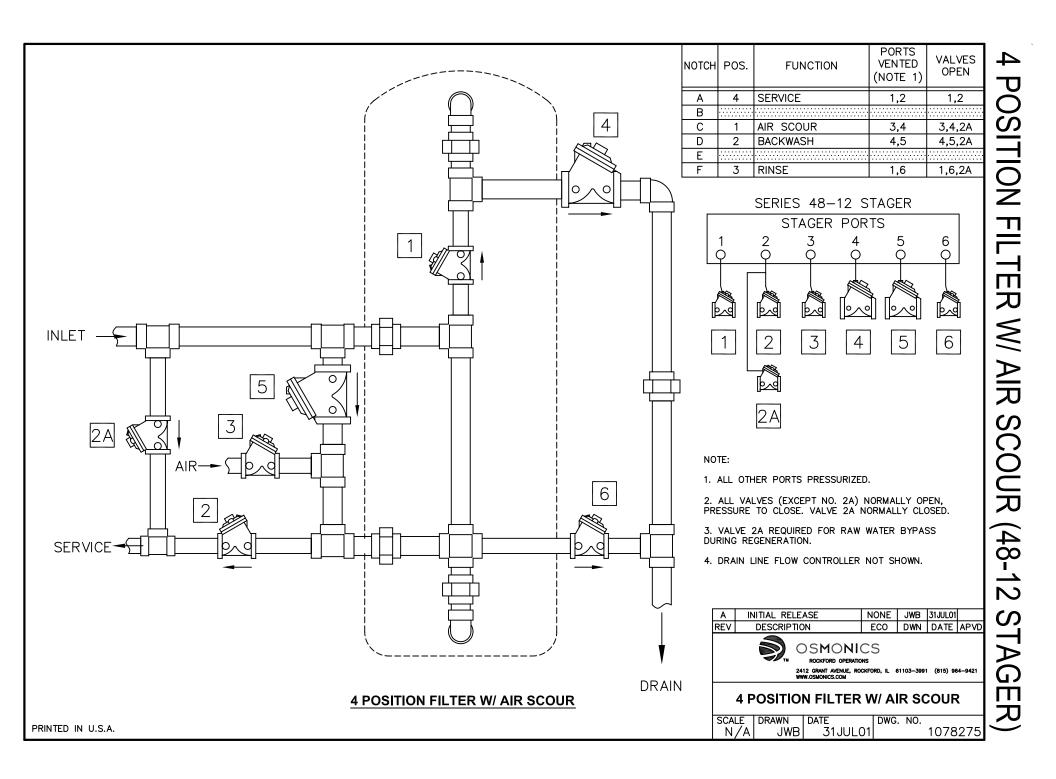
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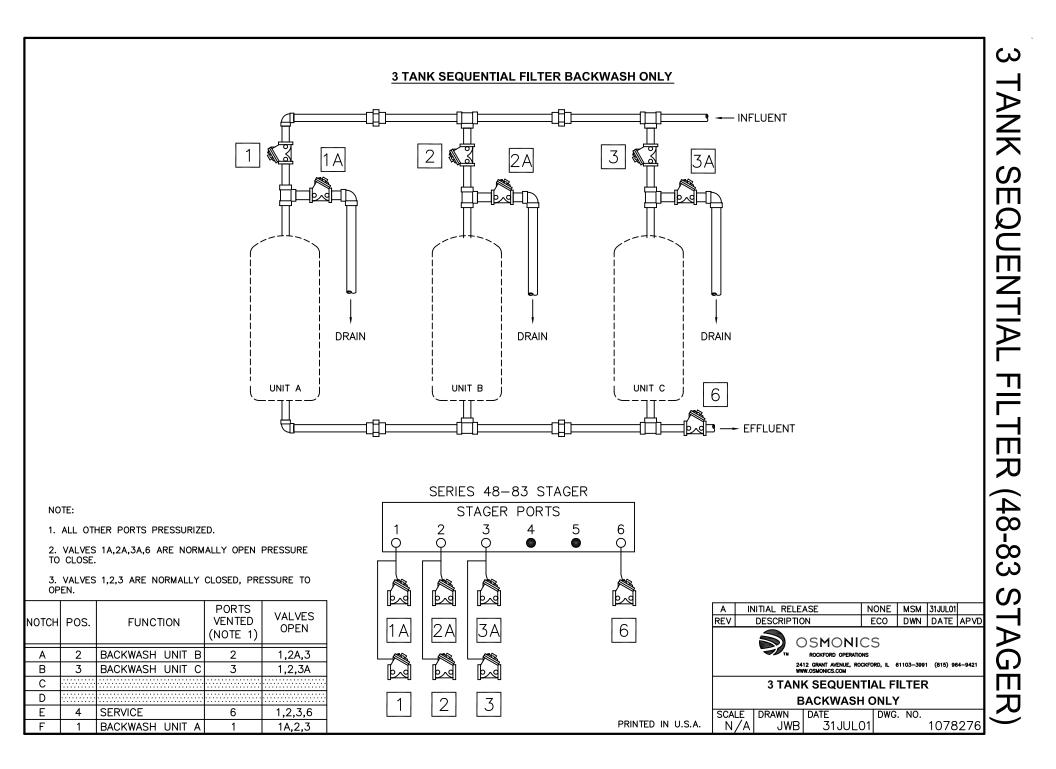
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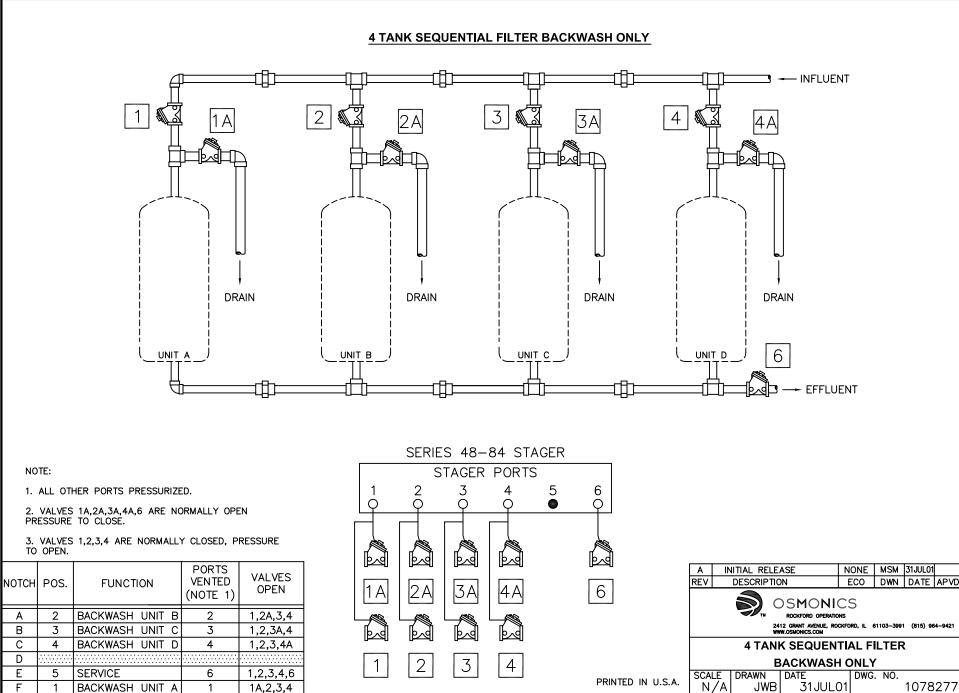
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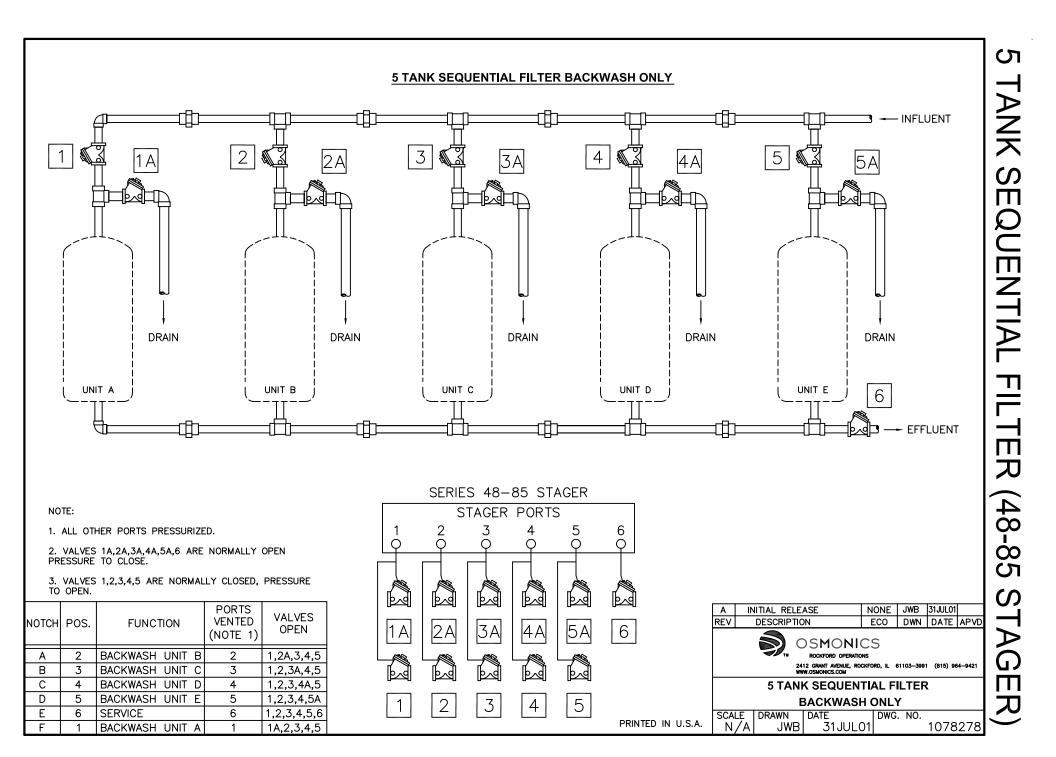


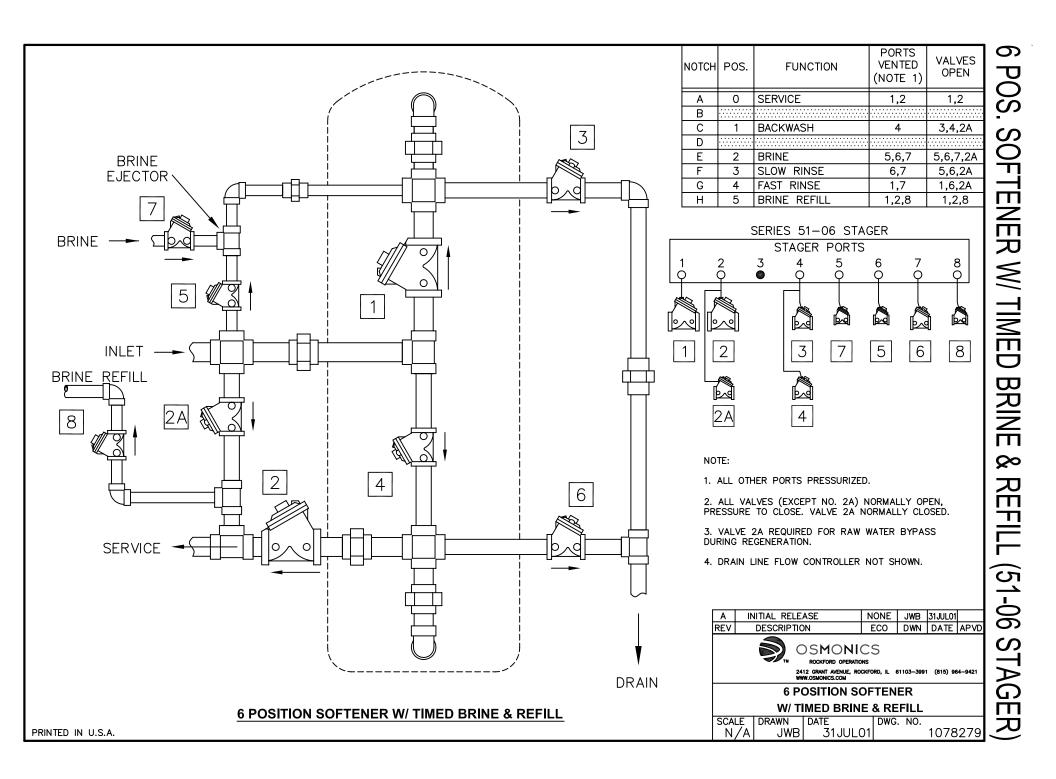


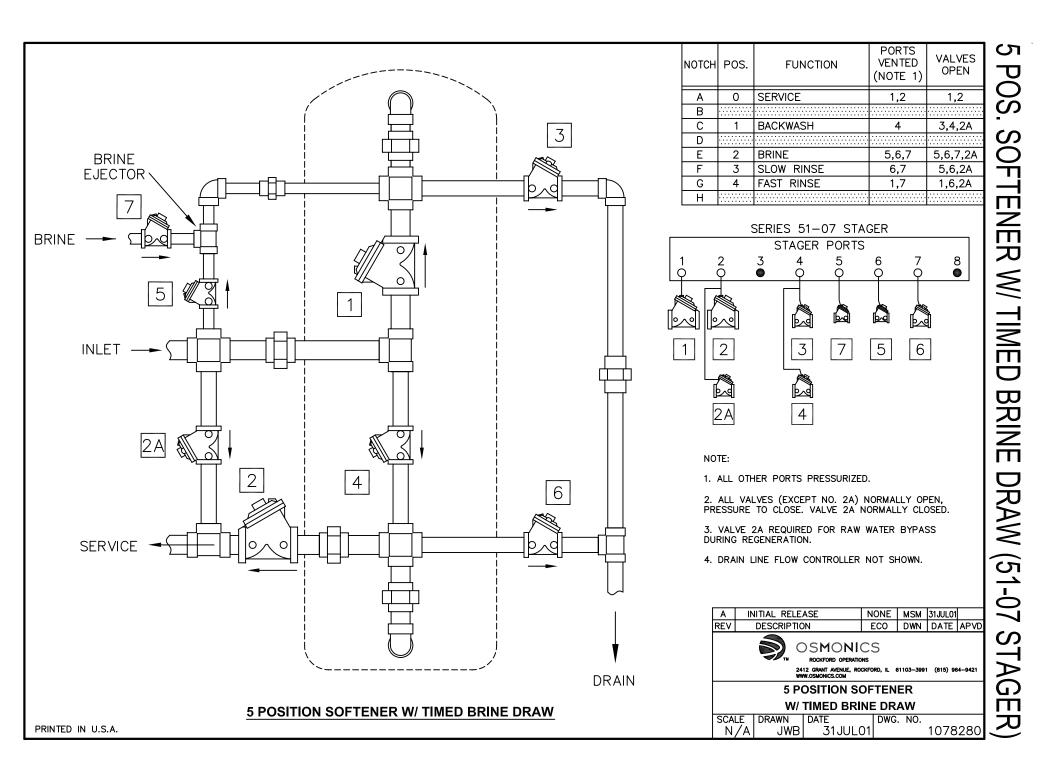


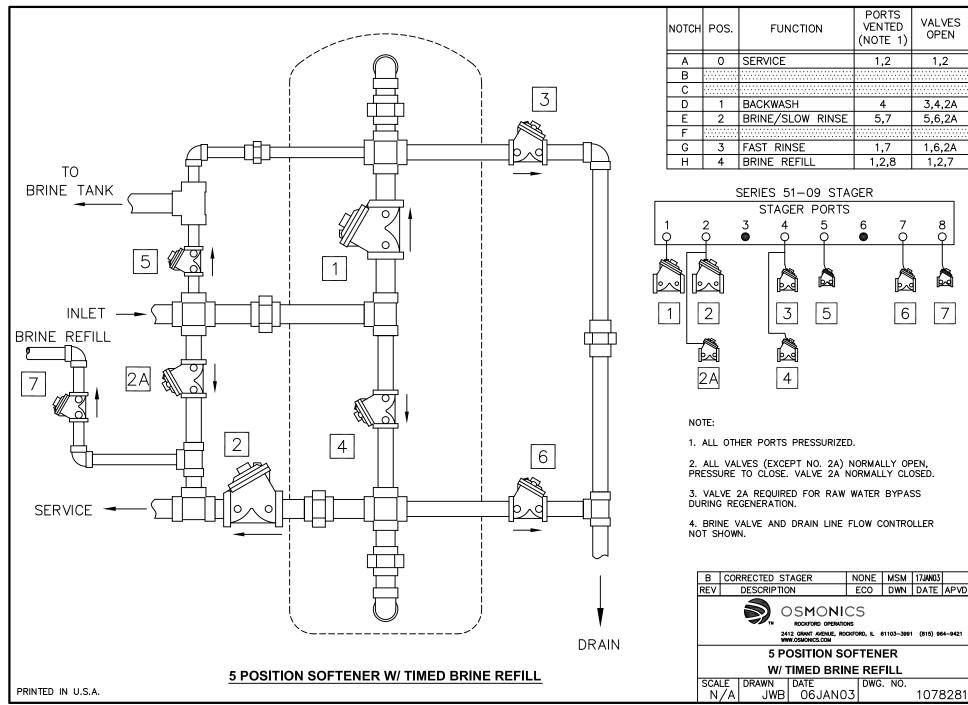


4 TANK SEQUENTIAL FIL TER (48-84 လ \triangleright G ん

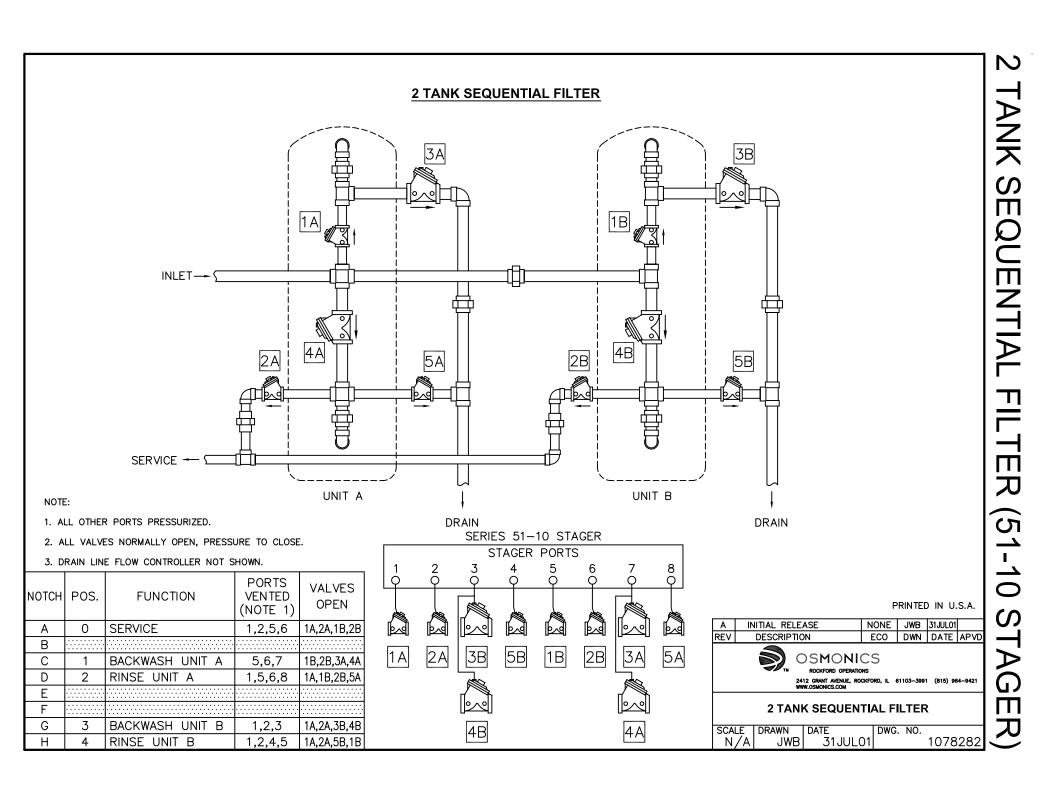


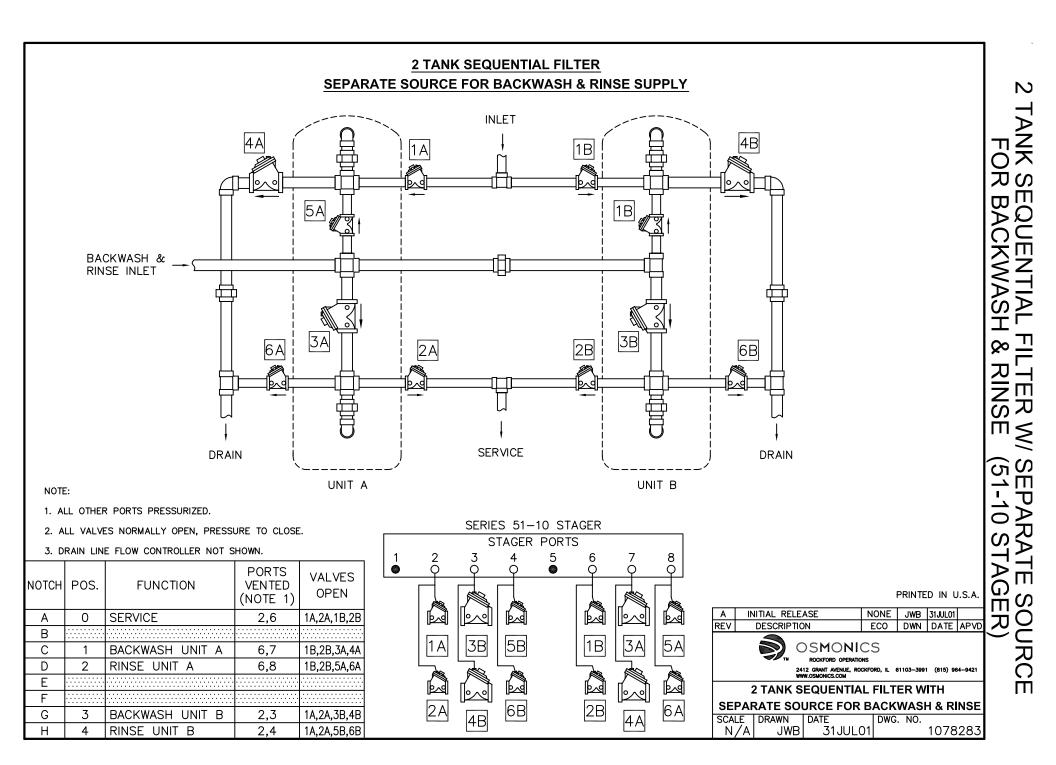


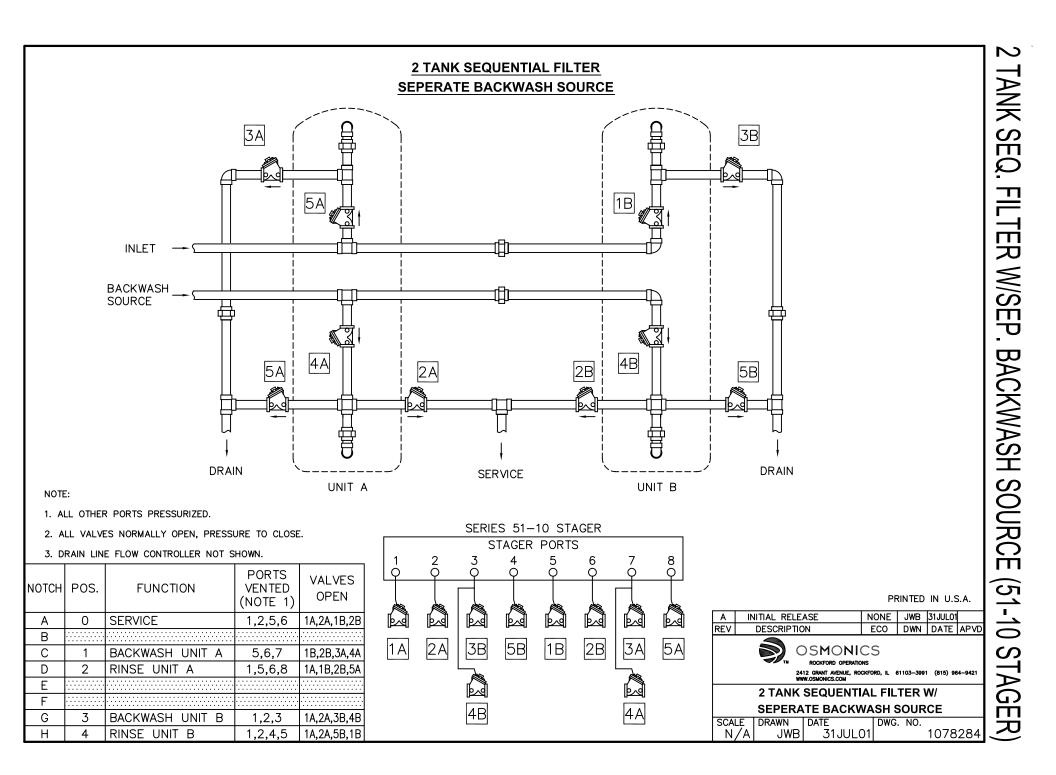


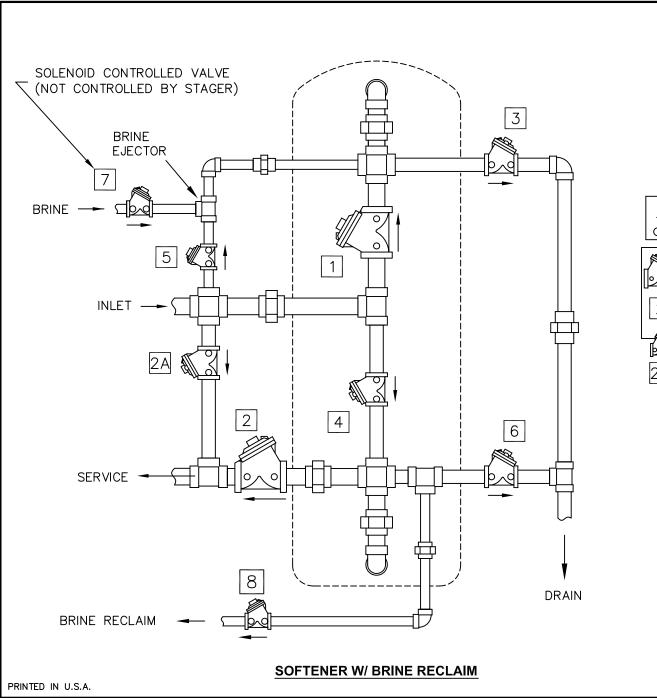


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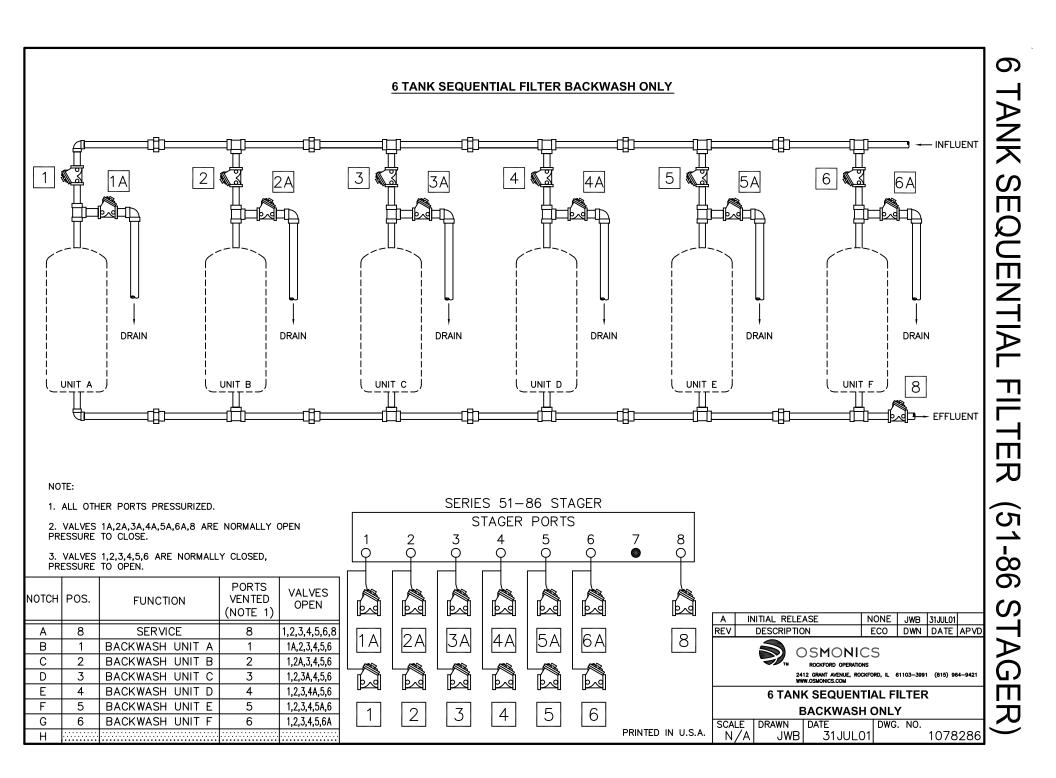




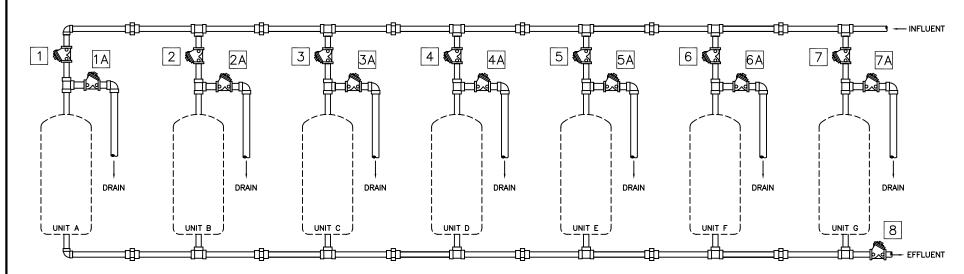


	NOTCH POS.		FUNCTION		VEN	PORTS VENTED (NOTE 1)		VALVES OPEN		
	A 0 SERVICE		1	1,8		2				
ŀ	 		1	BACKWAS	SH .		-	,0 2	1,: 3,4,	
ŀ							-	-	<u> </u>	
	D	_	2	BRINE			4		5,6,2/	
	E		- 3	DISPLACE	E		_	.5	5,6,	
ľ	F		4	RECLAIM		νE	_	,6	5,8,	
Ì	G		5	FAST RIN	N SE		4	,8		
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	l	2. PRE	ALL VAL ESSURE	VES (EXCE TO CLOSE.	VAL	0.2A) /E2A1	NORMAI	LY OF	PEN, DSED.	
	3. VALVE 2A REQUIRED FOR RAW WATER BYPASS DURING REGENERATION.									
	4. DRAIN LINE FLOW CONTROLLER NOT SHOWN.									
5. VALVE NO. 7 SOLENOID CONTROLLED (NOT CONTROLLED BY STAGER).										
		Г	A IN	IITIAL RELE	ASF		NONE	JWB	31JUL01	
		F	REV I	DESCRIPTIC			ECO		DATE	APVD
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	ROCKFORD OPERATIONS									
	2412 GRANT AVENUE, ROCKFORD, IL 61103-3991 (815) 964-9421 WWW.OSMONICS.COM						-94 21			
		SOFTENER W/ BRINE RECLAIM								
			SCALE	DRAWN	DATE			. NO.	4070	
			N/A	JWB	<u> </u> 3	1JULC	וו		1078	282

SO **OFTENER W/ BRINE RECLAIM (51-12 STAGER**



7 TANK SEQUENTIAL FILTER BACKWASH ONLY



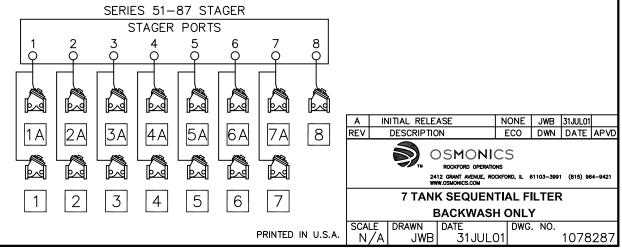
NOTE:

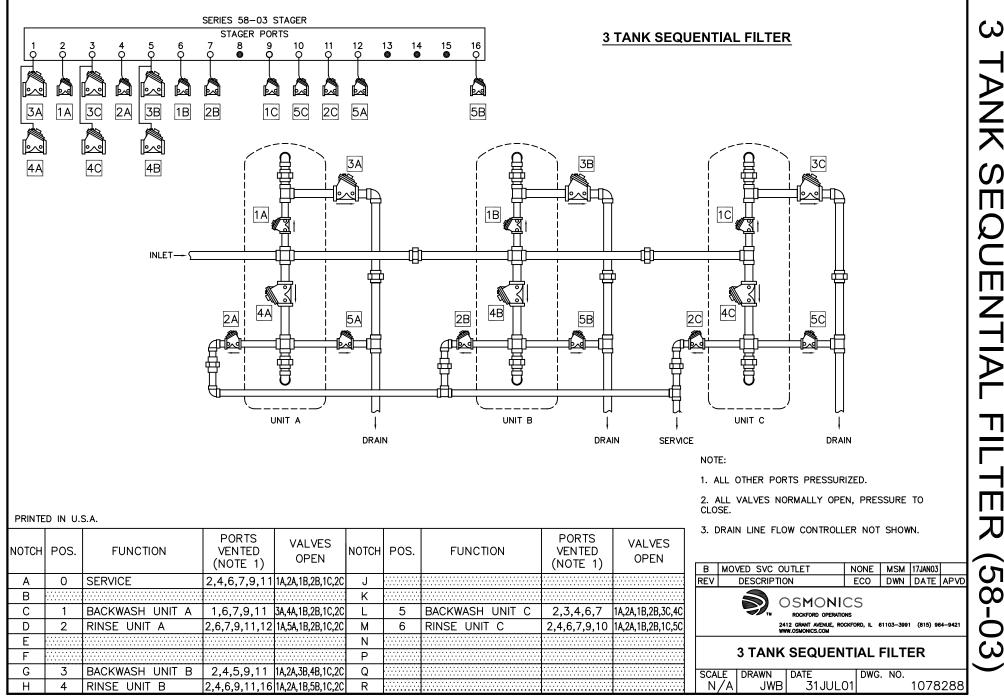
1. ALL OTHER PORTS PRESSURIZED.

2. VALVES 1A,2A,3A,4A,5A,6A,7A,8 ARE NORMALLY OPEN PRESSURE TO CLOSE.

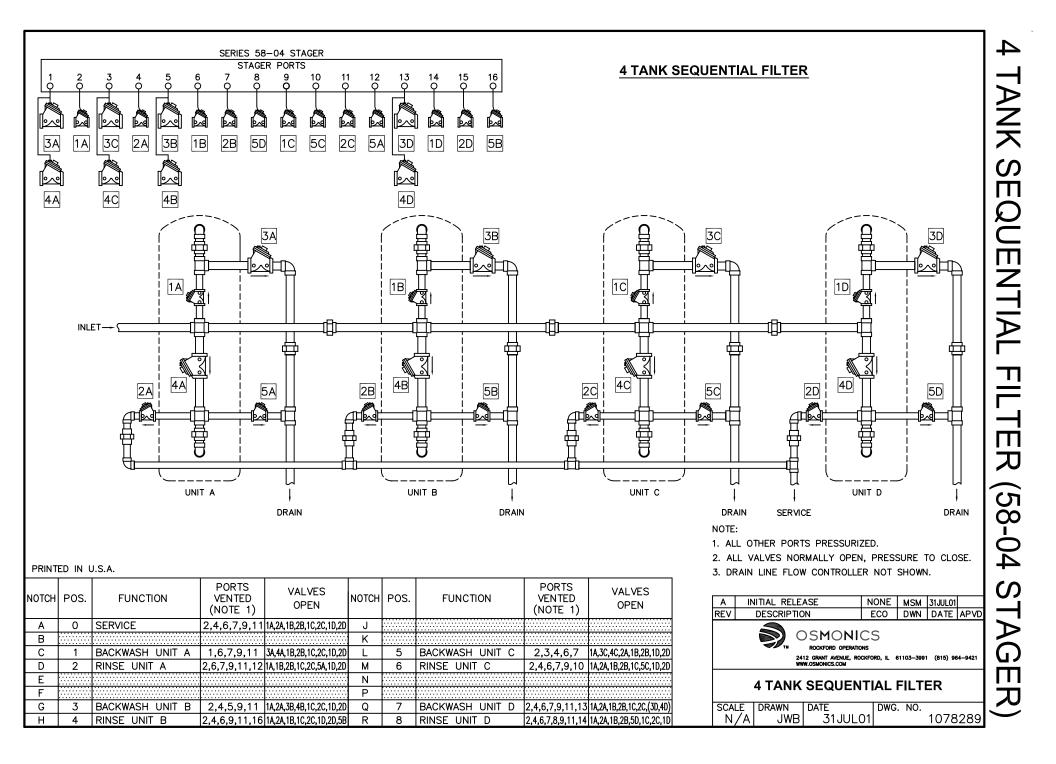
3. VALVES 1,2,3,4,5,6,7 ARE NORMALLY CLOSED, PRESSURE TO OPEN.

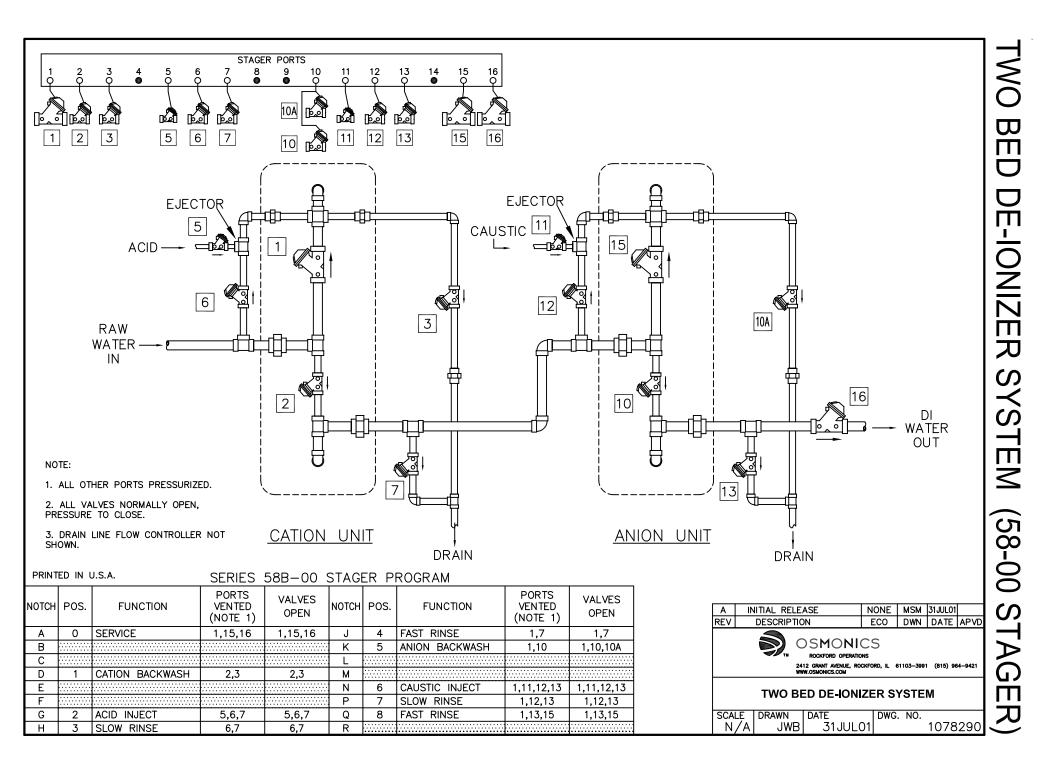
NOTCH	POS.	FUNCTION	PORTS VENTED (NOTE 1)	VALVES OPEN
A	1	BACKWASH UNIT A	1	1A,2,3,4,5,6,7
В	2	BACKWASH UNIT B	2	1,2A,3,4,5,6,7
С	3	BACKWASH UNIT C	3	1,2,3A,4,5,6,7
D	4	BACKWASH UNIT D	4	1,2,3,4A,5,6,7
E	5	BACKWASH UNIT E	5	1,2,3,4,5A,6,7
F	6	BACKWASH UNIT F	6	1,2,3,4,5,6A,7
G	7	BACKWASH UNIT G	7	1,2,3,4,5,6,7A
Н	8	SERVICE	8	1,2,3,4,5,6,7,8

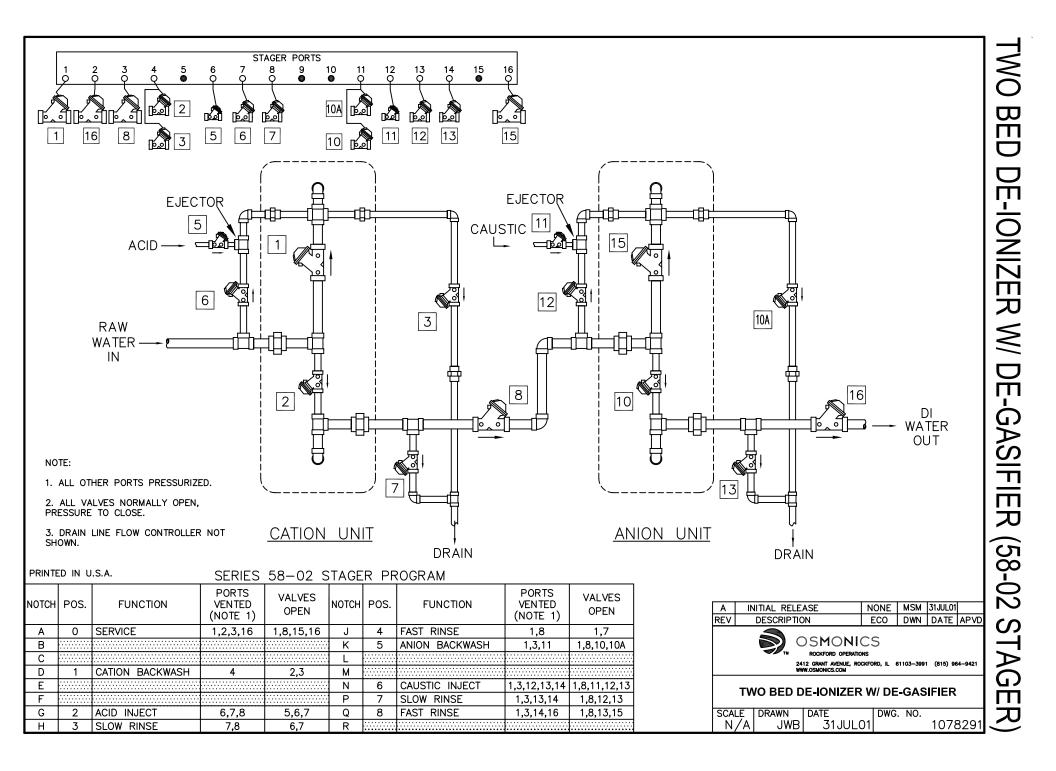


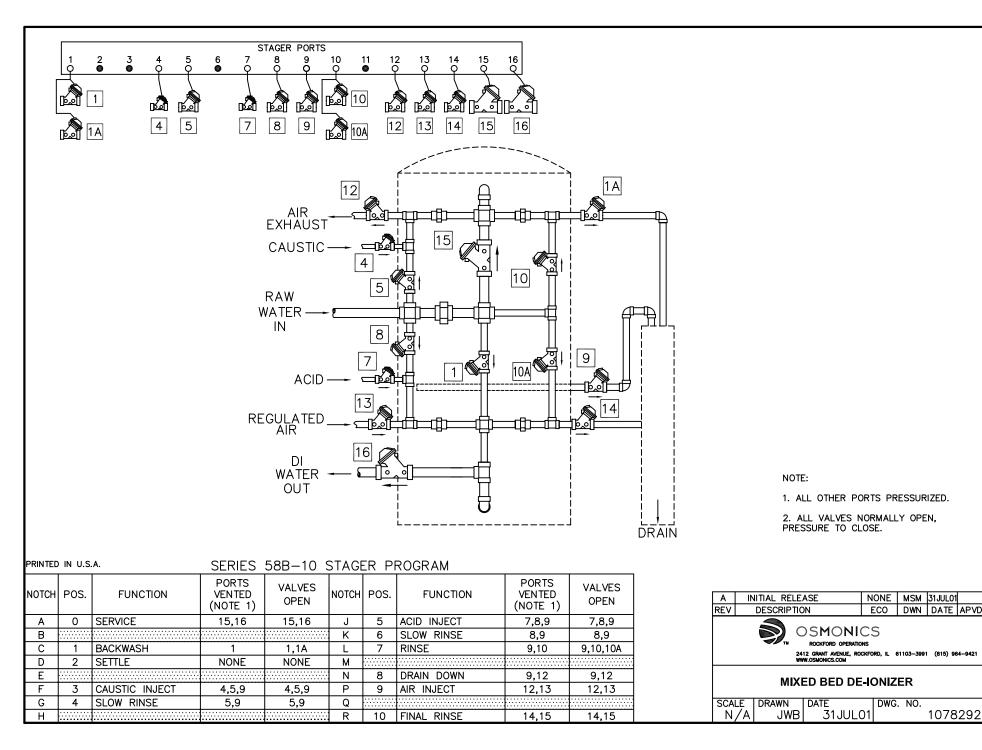


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