















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
	1/004	1004025
	VOZ I	1004030
	V024 V026	1004030
	V020 V027	1004037
3 HIGH FRESSORE VALVE	V027	1004030
3⁄4" & 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
	1///21	1084025
1 1/4" & 1 1/2" ISOLATED BONNET VALVES	V4421 \///2/	1084025
2" & 2-1/2" ISOLATED BONNET VALVE	V4424 \/4426	1084028
3" ISOLATED BONNET VALVES	V4420 V/4427	1084020
4" ISOLATED BONNET VALVES	V4428	1084030
	V-1-120	100-1000
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	1206159
2" STAINLESS STEEL VALVES	V465	1078668



Composite

Description	Series	Drawing Number
DIAPHRAGM VALVE CONFIGURATIONS	K52	1078147
END CONNECTOR PARTS	K520,K521,K524	1078140
END CONNECTOR PARTS	K524,K526	1078150
½" 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	108/013
1" ISOLATED BONNET VALVES	K5521	1084014
1-1/2" ISOLATED BONNET VALVES	K5524	1084015
SOLENOID OPERATED VALVES	K52	1078160
		4004000
SERIES 530 DIAPHRAGM VALVES	K53	1084006
	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 SERIES 58 & 59 STAGERS	51 58 & 59	107770
SERIES 96 STAGERS	96	1078010

Stager Controls

ELECTROMECHANICAL TIMERS SERIES 962 STAGER CONTROLLER A100, A200 E9



Suggested Piping Arrangements

Description	Stager Program	Drawing Number
	40.00	4070074
4 POSITION SUFTENER	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



Water & Process Technologies





GE 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.

GE 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 GE 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:



- Center Pivot Irrigation Systems
- 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.







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 GE 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.





Composite



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, BSPT	V42B	11.5	10.0
1	25	NPT, BSPT	V42C	13.0	11.2
1-1/4	32	NPT, BSPT	V42D	26.5	22.9
1-1/2	40	NPT, BSPT	V42E	32.5	28.1
2	50	NPT, BSPT	V42F	56.0	48.4
2	50	NPT, BSPT	V42G	68.0	58.8
2-1/2	65	NPT, BSPT	V42H	84.0	72.7
3	80	NPT, BSPT	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, BSPT	V82B	11.5	10.0
1	25	NPT, BSPT	V82C	13.0	11.2
1-1/4	32	NPT, BSPT	V82D	26.5	22.9
1-1/2	40	NPT, BSPT	V82E	32.5	28.1
2	50	NPT, BSPT	V82G	68.0	58.8
2-1/2	65	NPT, BSPT	V82H	84.0	72.7
3	80	NPT, BSPT	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.



Model Number	Body Material	Number of Ports	Typical Applications
48	Brass	6	Filters and softeners
51	Brass	8	More complex softener systems and sequential filter systems
58 59	PVC Brass	16 16	Twin alternating systems and de-ionizers and sequential filter systems
96	Brass	8	High pressure systems, up to 250 psi (17 BAR)

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

Controlo	Model	Description
Controis	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.

<u>Stager Controls</u>



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.



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





V46 Series

Stainless Steel Valves

The AquaMatic V46 valves have the same operational characteristics, and are constructed of 316 Stainless Steel material. These valves are available in 1-inch, 1-1/2-inch and 2-inch sizes, in either threaded or flanged ends. Flanged valves are rated for 150 PSI (10 bar) and threaded valves are rated for 250 PSI (17 bar). With all stainless steel internals and no internal threads, this series is ideal for corrosion resistance applications.

Pipe Size Inches	Pipe Size Millimeter, DN	Valve Model	Cv (1)	Cv (2)
1	25	V46C	13	11.3
1-1/2	40	V42E	32	27.8
2	50	V46F	54	47

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 GE customer, we created a valve especially for irrigation applications.





For More Information: Contact the Residential and Commercial Group at (815) 964-9421 or (800) 245-9421 or visit www.gewater.com

GE Water & Process Technologies

North American Sales

2412 Grant Avenue Rockford, IL 61103-3991 USA (815) 964-9421 Phone (815) 964-4449 Fax Euro/Africa Operations 230 rue Robert Schurman ZA des Uselles F-77350 Le Mée sur Seine FRANCE +33 1 64 10 2000 Phone +33 1 64 10 3747 Fax

Asia/Pacific Operations 1044/8 SOI 44/2 Sukhumvit Road Parkanog Bangkok 10110 THAILAND +66 2 38 14213 Phone +66 2 39 18183 Fax



GE Water & Process Technologies

AquaMatic® Product Specifications – Metal Diaphragm Valves

Features and Options

Low Pressure Loss	The AquaMa large seat op at a lower pre	tic Y-pattern diaphragm valve features a ening and high lift-disc for higher flow rates essure loss than other comparable valves	
Positive Control	A separate v positive seali assist open f self-draining	alve flow and control chambers permits ng without springs. The optional spring- eature is available for low pressure and applications.	
Cost Effective	The AquaMa cost, as well	tic is a cost-effective solution both in initial as lifetime maintenance expenses.	
Long Diaphragm Life	Separate dial. from the flov serviced in-li	ohragm chambers protects the diaphragm v stream, while allowing the valve to be ne.	
Durable Construction	The valve is constructed of cast iron, brass, stainless steel and Nitrile elastomer components, giving an unparalleled service life of three years or longer depending on the application's environment.		
Design and application engineering se	rvice	Optional adjustable flow rate control	
Optional seal and diaphragm materials	for	Optional spring assist	

- special applications
- Handles liquid and gases
- Adaptable to wide variety of control devices

Principles of Operation



Drip-Tight Closing: Closure is obtained by directing line pressure or equivalent independent pressure into the upper chamber. This pressure on the large diaphragm area causes the valve disc to seal against the seat. (Ratio of diaphragm to disc area is 1.3 or greater.)



Optional position indication

Optional all stainless internals

(3" and 4" sizes only)

Full Open Operation: When closing pressure in upper chamber is relieved by venting the pilot line, the valve opens, positively, by line pressure on the disc

Applications

- In addition to the water treatment process systems, the valves are used in a wide variety of applications. Some of the typical applications are:
- Concrete Additive
- Agricultural Irrigation
- Turf Irrigation
- Air Dryers
- Pump Controls
- Fuel Handling
- Level Control Systems
 - Sand Blasting
 - Car Wash Systems
 - Process Water Systems Machinery
 - Laundry Equipment
- Conveyor Systems
- Air Control Systems
- Dust Suppression
- Plastic Molding
- - Nitrogen Handling
- Vacuum Control
- Systems
 - Machine Hydraulic
- Cooling Control
- Street Cleaning Vehicles
- Centrifugal Separators
- HVAC Systems

Cooling Towers

Series 420 Valves

Standard valves are normally open. Body and cap are of cast iron. Preformed stress-relieved diaphragm of Nitrile (Buna N) on Polyamide, and static seals are Nitrile, stainless steel and brass internal parts.

Pipe sizes are 3/4 to 3-inch threaded (N.P.T. or B.S.P.); 3-inch through 6-inch flanged drilled in accordance with ASA16.1 class 125, or BSP4504.

Options

Normally closed, spring assist closed, spring assist open, limit stop, position indicator, high temperature service, brass body and cap (3/4 to 3-inch only), optional seal and diaphragm materials for special application, stainless steel internal parts.

Operating Specifications

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Working Pressure......125 PSI (8.6 bar)
Maximum Temperature ......150°F (65°C)
250°F (120°C) – Optional
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Flow Thru Metal Diaphragm Valves

Series VAV Air Valves

Standard valves are normally open. Body and cap are of cast iron. Preformed stress-relieved diaphragm of Nitrile (Buna N) on Nylon, and static seals are FKM & Hycar, stainless steel and brass internal parts.

Pipe sizes are 3/4 to 3-inch threaded (N.P.T. or B.S.P.); 3 to 4-inch flanged drilled in accordance with ASA16.1 class 125, or BSP4504.

Options

Normally closed, spring assist closed, spring assist open, FKM diaphragm for high temperature service.

Operating Specifications

Metal Body Valves



	Pine	Mo	del Num	ber		Dimensions (Approximate)								
	Size	420 Series	VAV Series	CV (3)	Unit	A ^s	A ^f	B ^s	B ^f	Cs	Cf	D	E(1)	F(2)
	3/4"	V42B	VAVB	11.4	in.	3.69	\ /	4.25	\ /	3.75	\ /	2.75	\backslash	
	1"	V42C	VAVC	12.8	mm	94	\setminus /	108	\setminus /	95	\setminus /	70		
	1-1/4"	V42D	N/A	26.5	in.	4.75		5.37		4.00		3.50		
þ	1-1/2"	V42E	VAVE	32.5	mm	121	\setminus	137	\setminus	102	$\langle \rangle$	89		
ade	2"	\//2E		56	in.	6.62	V V	7.25	V	5.37	V	4.87		
ĩ		V4ZI	VAVI	50	mm	168		184	\square	137		124		
Ч	2"	V42G	VAVG	68	in.	7.37		8.00		5.75		5.50		
	2-1/2"	V42H	VAVH	84	mm	187		203		146		140		
	3"	V42J	VAVJ	134	in. mm	9.00 229	$/ \dots \setminus$	9.75 248	$/ \setminus$	6.75 171	$/ \setminus$	7.25 184	/	
d	3"	V42J	VAVJ	134	in. mm	\setminus /	10.62 270	\setminus /	10.75 273	\setminus /	7.00 178	7.25 184	6.00 152	0.75 19
ange	4"	V42K	VAVK	275	in. mm	X	11.75 298	X	14.75 375	X	10.00 254	8.75 222	7.50 191	0.75 19
Ξ	6"	V42L	N/A	680	in. mm		17.00 432		19.00 483		13.50 343	15.75 402	9.50 241	0.87 2

(1) Bolt circle diameter

(2) Bolt hole diameter

(3) CV = Flow rate in gpm of water at 60°F @ 1psi pressure drop

For More Information: Contact the Residential and Commercial Group at (815) 964-9421 or (800) 245-9421 or visit www.gewater.com

GE Water & Process Technologies





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	С		
ASSURE FULL VALVE OPENING IN			
THE ABSENCE OF LINE AND			
CONTROL PRESSURES.			
	FORM	NO.	1078116

в

REV

INITIAL RELEASE

DESCRIPTION

- PORT "D"

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

						-	-	- (- /		
									FLOW	RATE	PRESSU	RE DROP
SERIES	PIPE	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
	OIZE	IN. 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>
V42C	1"	<u>0.97</u> 2.5	<u>0.74</u> 4.8	<u>2.10</u> 13.0	0.47	2.06 33.8	12.8	11.0	<u>23</u> 5	<u>46</u> 10	<u> </u>	<u> </u>
V42D	1 1/4"	<u>1.34</u> <u>3.4</u>	<u> 1.41 </u> 9.1	<u>6.49</u> 41.9	0.61	<u>5.20</u> 85.2	26.5	23	<u>44</u> 10	<u>- 88</u> 20	<u>2.8</u> 0.2	<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	0.61	<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	<u> </u>	<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	<u>4.19</u> 27.0	<u>15.03</u> 97.0	0.99 2.5	<u>16.34</u> 267.8	68	59	<u>130</u> 29	<u>260</u> 58	<u> </u>	<u> </u>
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	<u>78.83</u> 1292.0	275	238	<u> </u>	<u>720</u> 166	<u> </u>	<u>6.9</u> 0.47
V42L	6"	6.06	<u>28.84</u> 186.1	<u>120.28</u> 776.0	<u>1.70</u> 4.3	296.52 4860.0	680	588	<u>899</u> 204	<u>1798</u> 408	<u> </u>	7.0

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 = 1.00) P1 – INLET PRESSURE (LB./SQ. IN.) P2 – OUTLET PRESSURE (LB./SQ. IN.)										OSMONIC ROCKFORD OPERATIONS 412 GRANT AVENUE, ROCKFO WW.OSMONICS.COM	S 0RD, IL 61103-3991	(815) 964–9421
				FOF	RM N	0. 10	07811	6		SERIES	420 DIAPHRA	GM VALV	ES
		В	INITIAL RELEASE		1429	JWB	21JUN01	VKP	SCALE	DRAWN	DATE	DWG. NO.	
	a	REV	DESCRIPTION		EC0	DWN	DATE	APVD	N/A	JWB	25APR01		1078117

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REPAIR PARTS KITS								
DESCRIPTION PART NO.								
DIAPHRAGM & SEALS KIT 1070068 (421-RA) 1070081 (421-RAE) 107009	(421–RAV)							
CONSISTS OF ITEM NO'S 3(2), 5, 6, 8(2), 9, 14, 16 UIAPHRAGM DIAPHRAGM DIAPHRAGM DIAPHRAGM DIAP 1074119 (421-FB) 1074119 (421-FB) 107412	KM LUDES HRAGM D (421-FV)							
INT. PARTS KIT (NORM. OPEN) CONSISTS OF STANDARD ITEM NO'S 4, 7, 10, 11(2), 17		!						
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)						

NOTE:

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

SEE REVERSE SIDE FOR CONFIGURATION OPTIONS

_	NO.		DESC	RIPTI	NC	STD	PART NO.	QTY.		
					3/4" NPT	*	1074085 (421-A3)			
		DODY		RON	1" NPT	*	1074088 (421-A4)			
Ν	1	BODY	OLOT D		3/4" NPT		1074077 (421-AB3)	1		
4			CAST BI	RASS	1" NPT		1074080 (421-AB4)			
	2	SEAT -	- BRASS (REQ'S	ASSY TOOL)	*	1074158 (421-MO)	1		
!	3	HEX N	NUT (1/	/4-2	8)	*	1263852	2		
2	4	DISC	PLATE -	BRA	SS	*	1074147 (421-K)	1		
					BUNA N	*	1071676 (ORB-024)			
	5	0-RIN	IG		E.P.D.M.		1071721 (ORE-024)	1		
					FKM		1071791 (ORV-024)			
					BUNA	*	1074140 (421–J)			
-	6			Г	E.P.D.M.		1074143 (421–JE)	4		
	0	DISC			FKM		1074146 (421-JV)	1 '		
				Г	HYCAR		1074144 (421–JH)			
	7	DISC	HOLDER	- B	RASS	*	1074126 (421-H)	1		
	8	GASKE	T – CO	PPER		*	1073948 (200-GG)	2		
			BUNA N		*	1071693 (ORB-125)				
	9	0-RIN	IG	Г	E.P.D.M.		1071732 (ORE-125)	1		
				Г	FKM		1071803 (ORV-125)			
	10	SHAFT G	Suide – Bra	SS (RE	q's assy tool)	*	1074122 (421-GGO)	1		
	11	DIAPH	RAGM PL	ATE	 BRASS 	*	1074117 (421-D)	2		
	4.0			CA	CAST IRON		1074093 (421-C)			
	12	CAP		CAS	ST BRASS		1074096 (421-CB)	1		
	17		CODEW	PLA	PLATED STEEL		1072398 (SCZ-0004)	4		
	13		DOREW	9	STN. STL.		1080720 (SCS-0142)	4		
	14		PACM		BUNA N	*	1074119	1		
	17	DIAFTI			FKM		1074120			
	15		шт	PL/	TED STEEL	*	1071656 (NUZ-0008)	4		
			101	9	STN. STL.		1071649 (NUS-0007)	Ŧ		
					BUNA N	*	1071689 (ORB-110TC)			
	16	0-RING		L	E.P.D.M.		1071726 (ORE-110TC)	1		
					FKM		1239021 (ORV-110)			
	17	SHAFT	(NORMA	LLY	OPEN)	*	1074150 (421-L)	1		

			FC	DRM	NO.	1077613
Н	CHANGED SHAFT NU	1635 1672	MSM	01Nov05		
REV	DESCRIF	TION	ECO	DWN	DATE	APVD
	GE Osmon SERIES 42 3/4" & 1	CREATE OF	NERATIO VENUE 61103 WWW MV	3991 <u></u>	FER.COM	
DRAV	JWB	DATE 25	Apr0′	DRA 1	wing no. 1(084018

3/4" & 1" DIAPHRAGM VALVE L STANDARD MODEI

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CONVERSION KITS	
DESCRIPTION	PART NO.
CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 18 THRU 21	1074155 (421–LSC)
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 24 THRU 29	1074177 (421–SCC)
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 4,8,10,31	1074179 (421–SOC)
CONVERSION KIT (POSITION INDICATOR) CONSISTS OF STANDARD ITEM NO'S 32 THRU 38	1074163 (421–PIC)

1070004 (V42B-0001-00000) (3/4" NPT)

1070014 (V42C-0001-00000) (1" NPT)

SPRING ASSIST OPEN

REPAIR PARTS KITS	
DESCRIPTION	PART NO.
INT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 18,19,20	1074154 (421–LS)
INT. PARTS KIT (NORM. CLOSED) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),23	1070129 (421-RG)
INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 24,27,28	1074176 (421–SC)
INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 4,8,31	1074178 (421–SO)
INT. PARTS KIT (POSITION INDICATOR) CONSISTS OF STD ITEM NO'S 33 THRU 38	1074162 (421-PI)

	Н	CHANGED SHAFT NU UPDATED O-RING P	TS & /N'S		1635 1672	MSM	01Nov05		
_	REV	DESCRIP		ECO DWN DATE APVD					
s)	Ø	GE Osmon	nics	ROCH 2412 ROCH (815)	ROCKFORD OPERATIONS 2412 GRANT AVENUE ROCKFORD, IL 61103-3991 (815) 964-9421 WWW.GEWATER.COM				
G) C)		SERIES 42 3/4" & 1	1 DIA " N.P	PHF .T. C	RAGI DR B	M V/ .S.P	ALV .T.	E	
0) 1)	DRAV	JWB	DATE	25/	Apr0′	DRA 1	wing no. 1(084018	

FORM NO. 1077613

SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL

POSITION INDICATOR MODEL								
32		CAST IRON	*	1074107 (421-CF)	1			
52	CAP	CAST BRASS		1074110 (421–CFB)				
33	0-RING		*	1071692 (ORB-116)	1			
34	SHAFT GUIDE BUSHING		*	1074121 (421–GF)	1			
35	INDICATOR SH	4FT	*	1074164 (421-PM)	1			
36	0-RING		*	1071688 (ORB-108TC)	1			
37	TOP NUT		*	1074182 (421-TB)	1			
38	LOCKWASHER		*	1073589 (WAS-0006)	1			

	SPRING ASSIST OF	'EN	MODEL	
4	DISC PLATE – BRASS	*	1074147 (421-K)	
8	GASKET – COPPER	*	1073948 (200-GG)	
31	SPRING	*	1074175 (421–SB)	1

	(1/4¨ N.P.I.)	BRASS		10/1904 (PLB-0009)					
23	SHAFT (NORMA	LLY CLOSED)	*	1074153 (421-LL)	1				
SPRING ASSIST CLOSED MODEL									
24	CENTERING NU	Т	*	1074185 (421-X)	1				
25	RETAINER NUT	 BRASS 	*	1074183 (421-TT)	1				
26	PIPE PLUG	PLATED STEEL	*	1071917 (PLZ-0005)	1				
20	(1/8" N.P.T.)	BRASS		1071903 (PLB-0007)	•				
27	SPRING		*	1078602	1				
28	0-RING		*	1071674 (ORB-020)	1				
20	040	CAST IRON	*	1074099 (421-CC)	1				
29	CAP	CAST BRASS		1074100 (421-CCB)	•				
	SPRIN	G ASSIST OF	PEN	MODEL					
4	DISC PLATE -	BRASS	*	1074147 (421-K)	1				
8	GASKET – CO	PPER	*	1073948 (200-GG)	1				
74	CODING			4074475 (404 00)	4				

20	HEX NUT		*	1077534 (400-H)
01	040	CAST IRON	*	1074101 (421-CCC)
21	CAP	CAST BRASS		1074104 (421-CCCB)
	NORM	IALLY CLOS	ED	MODEL
20	PIPE PLUG	PLATED STEEL	*	1071918 (PLZ-0008)
22	(1/4" N.P.T.)	BRASS		1071904 (PLB-0009)
23	SHAFT (NORMA	LLY CLOSED)	*	1074153 (421-LL)
	SPRING	ASSIST CLC	SE	D MODEL
0.4		+		4074405 (404)

STD

(23 1072563 (V42B-0010-00000) (3/4" NPT) 1070002 (V42B-0030-00000) (3/4" NPT) 1070015 (V42C-0010-00000) (1" NPT) LIMIT STOP -(1/4" NPT) 8 (1/8" NPT) 32 4 31 M

(19)

(20)

(21)

USED WITH NORMALLY CLOSED VALVES ONLY

(18)

(1/8" NPT)

(26)



1077144 (V42B-0021-00000) (3/4" NPT)

1072648 (V42C-0021-00000) (1" NPT)

POSITION INDICATOR

-(1/4" NPT)

22

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

1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP OR POSITION INDICATOR MODELS.

NOTE:

SPRING ASSIST CLOSED

1070003 (V42B-0002-00000) (3/4" NPT) 1070013 (V42C-0002-00000) (1" NPT)



(1/8" NPT)

CLOSED VALVES ONLY

USED WITH NORMALLY DESCRIPTION LIMIT STOP MODEL

18 SCREW

19 0-RING

PART NO. QTY. * 1072361 (SCS-0030) 1 * 1071668 (ORB-012) 1 1 1

1

Qo DIAPHRAGM VALVE **PTIONAL MODELS**



).	DESCRIPT	ION			
	REPAIR F	ARTS K	TS					1-1/4" NPT
	DESCRIPTION		PART NO.		1 1		CAST INUN	1-1/2" NPT
		1070069 (424-RA)	1070082 (424-RAE)	1070094 (424-RAV	11'		CAST BRASS	1-1/4" NPT
	APHRAGM & SEALS KII	BUNA N	E.P.D.M.	FKM	1∟			° 1-1/2" NPT
3	568912151618	INCLUDES	INCLUDES	INCLUDES	2	SEAT -	- BRASS (REQ'S	s assy. Tool
	.0,0,0,0,12,10,10,10				3	HEX N	NUT (1/4-:	28)
_		10/4222 (424-FB)	10/4222 (424-FB)	10/4224 (424-14	- 4	DISC	PLATE – BR	ASS
IN	T. PARTS KIT (NORM. OPEN)							BUNA N
C	ONSISTS OF STANDARD	10	70119 (424 [.]	-RF)	5	0-RIN	IG	E.P.D.M.
IT	EM NO'S 4,7,10,11(2),19							VITON
S	EAT (ITEM NO. 2)	10	1074245 (424-MO)					BUNA
	· · ·	(,			- e	DISC		E.P.D.M.
					0			FKM
-	ASSEME		IS					HYCAR
	DESCRIPTION			NO	7	DISC	HOLDER – E	BRASS
			FANI	NO.	8	GASKE	T – COPPE	R
	FOR INSTALLATION & REMOVA		1074247 (424–MT)				BUNA N
	SEAT (TEM #2) (TOOL NOT S	HOWN)			9	0-RIN	IG	E.P.D.M.
	FOR INSTALLATION & REMOVA	L OF SHAFT	1074227 (424_GT)				FKM
	GUIDE (ITEM #10) (TOOL NOT	SHOWN)		-201)	10) Shaft (GUIDE — BRASS (R	eq's assy tool)
			•		1	DIAPH	RAGM PLATE	 BRASS
					12		$\frac{1}{5}$	-24)



NOT SHOWN)	10/422/	(424	-617	10	SHAFT CLIIDE - BRAS	SS (REO	100T Y224 2) *	1074225	(424-660)	1
				11			- BRASS	4 * 1	1074220	(424-D)	2
				12	HEX NUT (5/	16-2	24)	*	1263	853	1
						CA	ST IRON	*	1074202	(424-C)	
RICAN NATIONAL STANDARD TAPER PIPE			13	CAP	CAS	T BRASS		1074206	(424-CB)	1	
ADS (NPT) PER A	ADS (NPT) PER ANSI B2.1–1968					PLA	TED STEE	L *	1072399 (SCZ-0007)	
				14	HEX SCREW	S	TN. STL.		1072392 (SCS-0156)	4
LS AVAILADLE WITT	п D.S.F.I.	END		15			BUNA N	*	1074222	(424–FB)	1
				15	DIAPHRAGM		FKM		1074224	(424-FV)	1
				16	GASKET - CO	PPER		*	1074252	(424-R)	1
				17		PLA	TED STEE	L	1071656 (I	NUZ-0008)	
				''	HEA NUT	S	TN. STL.		1071649 (NUS-0007)	4
							BUNA N	*	1071689 (0	ORB-110TC)	
				18	O-RING		E.P.D.M.		1071726 (0	DRE-110TC)	1
							FKM		1239021 (0	DRV-110TC)	
				19	SHAFT (NORMA	LLY	OPEN)	*	1074239	(424-L)	1
					FC	RM	NO. 1	0776	14		
			CHANGED	SHA	FT NUTS &		1635	NCN	0111-05		
		G	CHANGED UPDATED	SHA O—F	FT NUTS &		1635 1672	MSM	01Nov05		
		G REV	CHANGED UPDATED	SHA O-F D	FT NUTS & RING P/N'S ESCRIPTION		1635 1672 ECO	MSM DWN	01Nov05	APV	D
		G REV	CHANGED UPDATED	SHA O-F D	AFT NUTS & RING P/N'S ESCRIPTION	RO	1635 1672 ECO	MSM DWN PERATI	01Nov05 DATE	APV	D
		G REV	CHANGED UPDATED	SHA O-F D	FT NUTS & RING P/N'S ESCRIPTION	R00 241	1635 1672 ECO CKFORD OI 2 GRANT A	MSM DWN PERATI	01Nov05 DATE ONS	APV	D
		G REV	CHANGED UPDATED	SHA 0-F D	RT NUTS & RING P/N'S ESCRIPTION	RO(241 RO((81)	1635 1672 ECO CKFORD OI 2 GRANT A CKFORD, IL	MSM DWN PERATI VENUE 61103	01Nov05 DATE ONS -3991		D
		G REV	CHANGED UPDATED	SHA 0-F D	RT NUTS & RING P/N'S ESCRIPTION	RO0 241 RO0 (815	1635 1672 ECO CKFORD OI 2 GRANT A CKFORD, IL 5) 964-9421	MSM DWN PERATI VENUE 61103 WWV	01Nov05 DATE ONS -3991 /.GEWAT	APV ER.COM	D
		G REV	CHANGED UPDATED GE SERI		RFT NUTS & RING P/N'S ESCRIPTION COMONICS 6424 DIA	RO0 241 RO0 (815	1635 1672 ECO CKFORD OL 2 GRANT A CKFORD, IL 5) 964-9421 RAGI	MSM DWN PERATI VENUE 61103 WWV	01Nov05 DATE ONS -3991 V.GEWAT	APV TER.COM	D
		G REV	CHANGED UPDATED GE SERI 1 1/4	SHA 0-F D D D D D D D D D D D D D D D D D D D	IFT NUTS & ING P/N'S ESCRIPTION MONICS 6 424 DIA 8 1 1/2" N	RO(241 RO((815 (815 PH	1635 1672 ECO CKFORD OI 2 GRANT A CKFORD, IL 3) 964-9421 RAGI T. OF	MSM DWN PERATI VENUE 61103 WWV MV	01Nov05 DATE ONS -3991 V.GEWAT ALV S.P.	APV TER.COM E T.	D
		G REV	CHANGED UPDATED GE SERI 1 1/4	SHA 0-F D 05	FT NUTS & RING P/N'S ESCRIPTION EMONICS 5 424 DIA 5 424 DIA 6 1 1/2" N DATE	RO0 241 RO0 (815 PH	1635 1672 ECO CKFORD OI 2 GRANT A CKFORD, IL 5) 964-9421 RAGI T. OF	MSM DWN PERATI VENUE 61103 WWV MV VENUE 61103 WWV	01Nov05 DATE ONS -3991 V.GEWAT ALV S.P. S.P.	APV TER.COM E T.	D

1. AMERICAN NA THREADS (NF

2. VALVES AVAII CONNECTIONS

NOTE:

		BUNA N	*	1071678 (ORB-028)	
-RING	E.P.D.M.		1071723 (ORE-028)	1	
	VITON		1071793 (ORV-028)		
		BUNA	*	1074232 (424–J)	
100		E.P.D.M.		1074233 (424-JE)	4
150	FKM		1074236 (424-JV)	1	
		HYCAR		1074234 (424–JH)	
ISC HOLDER	— E	BRASS	*	1074229 (424-H)	1
ASKET – CO	PPE	R	*	1073948 (200-GG)	1
		BUNA N	*	1071695 (ORB-132)	
-RING		E.P.D.M.		1071734 (ORE-132)	1
		FKM		1071806 (ORV-132)	
haft guide — Bras	SS (R	EQ'S ASSY TOOL)	*	1074225 (424-GGO)	1
IAPHRAGM PL	ATÈ	- BRASS	*	1074220 (424-D)	2
EX NUT (5/	′16-	-24)	*	1263853	1
	С	AST IRON	*	1074202 (424-C)	
AP	CA	AST BRASS		1074206 (424-CB)	1
	PL	PLATED STEEL		1072399 (SCZ-0007)	4
EX SUREW		STN. STL.		1072392 (SCS-0156)	4
		BUNA N	*	1074222 (424-FB)	4
IAPHRAGM		FKM		1074224 (424-FV)	1
ASKET - CO	PPE	R	*	1074252 (424-R)	1
	PL	ATED STEEL		1071656 (NUZ-0008)	
EX NUI		STN. STL.		1071649 (NUS-0007)	4
		BUNA N	*	1071689 (ORB-110TC)	
-RING		E.P.D.M.		1071726 (ORE-110TC)	1
		FKM		1239021 (ORV-110TC)	
HAFT (NORMA	LLY	OPEN)	*	1074239 (424-L)	1
FC	RN	1 NO. 10	77	614	
TNUTS &		1635 1672	ISN	/ 01Nov05	

DESCRIPTION

PART NO.

1074196 (424-A5)

1074199 (424-A6)

1074190 (424-AB5)

1074193 (424-AB6)

1074245 (424-MO)

1263852

* 1074237 (424-K)

1

1

1

STD

*

*

*

1-1/4" NPT

1-1/2" NPT

QTY. Ι, 1/4" & 1-1/2" DIAPHRAGM VALVE STANDARD MODE

PRINTED IN U.S.A.

32

(USED WITH NORMALLY

CLOSED VALVES ONLY)

(20)

1072720 (V42D-0010-00000) (1-1/4" NPT)

1070028 (V42E-0010-00000) (1-1/2" NPT)

(16)

1072715 (V42D-0001-00000) (1-1/4" NPT)

1070027 (V42E-0001-00000) (1-1/2" NPT)

SPRING ASSIST OPEN

LIMIT STOP

(21)

(22)

(23)

-(1/4" NPT)

(1/8" NPT)

(25)

(1/8" NPT)

(28)

CONVERSION KITS							
DESCRIPTION	PART NO.						
CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 20,21,22,23	1074243 (424–LSC)						
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 26 THRU 31	1074266 (424–SCC)						
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 10,16,32,33	1074269 (424–SOC)						
CONVERSION KIT (POSITION INDICATOR) CONSISTS OF STANDARD ITEM NO'S 34 THRU 40	1074250 (424–PIC)						

		REPAIR PARTS KITS	
	1	DESCRIPTION	PART NO.
)		INT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 20,21,22	1074242 (424–LS)
-)		INT. PARTS KIT (NORM. CLOSED) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),25	1070130 (424–RG)
		INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 26,29,30	1074265 (424–SC)
'		INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 16,32,33	1074268 (424–SO)
)		INT. PARTS KIT (POSITION INDICATOR) CONSISTS OF STD ITEM NO'S 35 THRU 40	1074249 (424-PI)

NOTE:

-(1/4" NPT)

24

1072723 (V42D-0030-00000) (1-1/4" NPT)

1070026 (V42E-0030-00000) (1-1/2" NPT) NORMALLY CLOSED

37

36)

1072722 (V42D-0021-00000) (1-1/4" NPT)

1072804 (V42E-0021-00000) (1-1/2" NPT)

POSITION INDICATOR

34

(1/8" NPT)

	G	CHANGED UPDATED	SHAFT NU	TS& /N'S		1635 1672	MSM	01Nov05	
	REV		DESCRIP	ECO DWN DATE APVD					
		GE SER 1 1/4	Osmon IES 424 4" & 1 <i>1</i>	n ics 4 DIA 1/2'' N	ROCI 2412 ROCI (815) PHF	KFORD OI GRANT A KFORD, IL 964-9421 RAGI	NENUE 061103- 0000 00	3991 (.gewat ALV S.P.	E T.
)	DRAV	٧N	JWB	DATE	25/	Apr0′	DRA 1	wing no. 1(084019

FORM

SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL

1.	SPRING ASSIST CLOSED MODEL CANNOT	G ASSIST CLOSED MODEL CANNOT 34 CAF		CAST IRON	*	1074217	(424–CF)
	BE COMBINED WITH LIMIT STOP MODEL.	<u> </u>	CAF	CAST BRASS		1074218	(424–CFB)
2		35	0-RING		*	1071692	(ORB-116)
۷.	2. VALVES AVAILABLE WITH B.S.P.I. END		SHAFT GUIDE I	SHAFT GUIDE BUSHING		1074121	(421–GF)
	CONNECTIONS.	37	INDICATOR SHAFT		*	1074251	(424-PM)
		38	0-RING		*	1071688 (ORB-108TC)
		39	TOP NUT		*	1074272	(424–TB)
		40	LOCKWASHER		*	1073590	(WAS-0007)

			<u> </u>	1074302	
PO	SITION	INDICAT	OR	MODEL	

20	(1/8" N.P.T.)	BRASS		1071903 (PLB-0007)
29	SPRING		*	1074270 (424–SS)
30	0-RING	*	1071674 (ORB-020)	
31		CAST IRON	*	1074208 (424-CC)
51	CAP	CAST BRASS		1074209 (424-CCB)
	SPRIN	G ASSIST OF	PEN	MODEL
16	GASKET – COI	PPER	*	1074252 (424-R)
32	SPRING		*	1236766
33	CENTERING WAS	*	1074382 (426-HA)	

 		/	 <u> </u>
			 -
SDDING	T2I22A		
SERING	A00101	CLOSE	

	20 SCREW						
	21	0-RING		*	1071668		
<	22	NUT		*	1077534		
\backslash	07	040	CAST IRON	*	1074210		
9)	23	CAP	CAST BRASS		1074213		
<u> </u>		NORM	ALLY CLOS	ED	MODEL		
30) \	24	PIPE PLUG	PLATED STEEL	*	1071918		
\smile	24	(1/4" N.P.T.)	BRASS		1071904		
	25	SHAFT (NORMA	LLY CLOSED)	*	1074241		
		SPRING	ASSIST CLC	SE	D MODE		
/	26	CENTERING NU	CENTERING NUT				
	27	RETAINER NUT	RETAINER NUT – BRASS				
/		PIPE PLUG	PLATED STEEL	*	1071917		
/	20	(1/8" N D T)	BRASS		1071003		

DESCRIPTION

NO.

(USED WITH NORMALLY

CLOSED VALVES ONLY)

28

1072716 (V42D-0002-00000) (1-1/4" NPT)

1072792 (V42E-0002-00000) (1-1/2" NPT)

SPRING ASSIST CLOSED

<u></u>		Істр		DADT		
				FARI	NO.	
L				100 (00	0074	
		*	1072	62 (SC	$\frac{5-0031}{200}$	
		+	1071	500 (UP		
	CAST IRON	*	1074	$\frac{33+}{210}$ (42)	$\frac{100-10}{24-000}$	
ł	CAST BRASS	<u> </u>	1074	$\frac{210}{213}$ (42)	4 - CCCB	1
N.		FD	MOD	FI	1 0000)	1
		*	1071	 18 (PL	7-0008)	
)	BRASS		10719	904 (PL	B-0009)	1
ΛA	LLY CLOSED)	*	1074	241 (4	24-LL)	1
G	ASSIST CLC	SE	DMC	DEL		•
UI IU	T	*	1074	276 (424-X)	1
IT	– BRASS	*	1074	274 (4	$\frac{12}{124} - TT$	1
	PLATED STEEL	*	10719	917 (PL	Z-0005)	
)	BRASS		1071	903 (PL	B-0007)	1 ¹
		*	1074	270 (4	24–SS)	1
		*	1071	674 (Òl	RB-020)	1
1	CAST IRON	*	1074	208 (4	24-CC)	
	CAST BRASS		1074	209 (42	24–CCB)	
N	G ASSIST OF	PEN		DEL		
OF	PER	*	1074	1252 (424–R)	1
		*		123676	66	1
AS	HER - BRASS	*	1074	382 (4	26–HA)	1
Т	ION INDICAT	OR	MOL	DEL		
	CAST IRON	*	1074	217 (4	24–CF)	
Ī	CAST BRASS		1074	218 (42	24–CFB)	1 '
		*	1071	692 (OF	RB-116)	1
E	BUSHING	*	1074	121 (4	21–GF)	1
HA	FT	*	1074	<u>251 (4</u>	24-PM)	1
		*	10716	88 (ORE	3-108TC)	1
		*	1074	272 (4	24–TB)	1
		*	1073	590 (WA	S-0007)	
0.	FORM NO.	10	7761	4		
& 5	163 167	2	MSM	01Nov05		
N	EC	0	DWN	DATE	AP	VD_
	ROCKFOR	D OF	ERATI	ONS		
	2412 GRAN	IT A	/ENUE			
) S	ROCKFOR	D, IL	61103	-3991		
-	(815) 964-9	421	VVVVV	.GEWAT	ER.COM	
D	IAPHRA	GN	ΛV	4LV	Ε	

-1/4" & 1-1/2" DIAPHRAGM VALVE - OPTIONAL MODEL Ś



		N					
REPAIR PARTS KITS							
DESCRIPTION	PART NO.	L					
	1070070 (425-RA) 1070083 (425-RAE) 1070095 (425-RAV)						
CONSISTS OF ITEM NO'S	BUNA N E.P.D.M. FKM	Ľ					
3(2) 5 6 8(2) 9 14 16	INCLUDES INCLUDES INCLUDES						
	DIAPHRAGM DIAPHRAGM DIAPHRAGM 1074296 (425-FR) 1074296 (425-FR) 1074297 (425-FV)	Ľ					
	10/1230 (123 10) 10/1230 (123 10) 10/1237 (123 11)	1					
INT. PARTS KIT (NORM. OPEN)		F					
ITEM NO'S 4 7 10 11(2) 17 18	1070120 (425-RF)						
11LW 10 3 +,7,10,11(2),17,18		1					
SEAT (ITEM NO. 2)	1074321 (425-MO)	L					

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					

NOTE:



1(2),17,18					5	0-RING		E.P.D.M.		1071
	10	74321 (4	25-M	0)				VITON		1071
		•		<i>.</i>				BUNA	*	1074
					6		L	E.P.D.M.		1074
ASSEME	LY TOO	LS			۱Ŭ		L	FKM		1074
			T NO					HYCAR		1074
N & REMOVAL	OF	1074411	(426	i-мт)	7	DISC HOLDER		BRASS	*	1074
(TOOL NOT S	HOWN)		•		8	GASKET		COPPER	*	1074
N & REMOVAL	OF SHAFT	1" 15						BUNA N	*	1071
D) (TOOL NOT	SHOWN)		300		9	0-RING		E.P.D.M.		1071
								FKM		1071
					10	SHAFT GUIDE (REQ'S ASSY TO	DOL)	BRASS	*	1074
					11	DIAPHRAGM PL	ATE	BRASS	*	1074
					12	САР	CA	ST IRON	*	1074
DTE:					13	HEX SCREW	PLA	ted steel	L *	10724
1. AMERICAN	NATIONAL S	TANDARD	TAPER	PIPE		DUDUDUDU		BUNA N	*	1074
THREADS	(NPT) PER /	ANSI B2.1	-1968	3	14	DIAPHRAGM		FKM		1074
2. VALVES A	AILABLE WIT	H B.S.P.T.	T. END		15	HEX NUT		ted steel	L *	10716
CONNECTIO	JN3.							BUNA N	*	1071
					16	O-RING		E.P.D.M.		1071
								FKM		1239
SEE REVI		١F			17	SHAFT (NORMA	LLY	OPEN)	*	1074
CONFIGU	RATION O	PTIONS			18	DISC SPACER			*	1074
								F	ORN	1 N
			F	CHANGED	SHA O—F	AFT NUTS & RING P/N'S		1635 1672	MS	v1 01N
			REV		D	ESCRIPTION		ECO	DWN	I DA
			(Y	GE	0 s	monics	RO 241 RO	CKFORD OF 2 GRANT A CKFORD, IL	PERA VENU	FIONS E)3-399
									1000	

DATE

JWB

30Apr01

DRAWN

DESCRIPTION

CAST IRON

(REQ'S ASSY TOOL)

HEX NUT (5/16-24)

BODY

SEAT

DISC PLATE

2" NPT

BRASS

BRASS

*

*

*

*

STD PART NO. QTY. N 1074277 (425-A) 1 1074321 (425-MO) IAPHRAGM VAL 1263853 2 1074220 (424-D) BUNA N * 1071682 (0RB-035) 724 (ORE-035) 794 (ORV-035) 4307 (425–J) 309 (425-JE) 312 (425-JV) 310 (425–JH) 1303 (425-H) 252 (424–R) 684 (ORB-038) 725 (ORE-038) 1 795 (ORV-038) 301 (425-GO) 4293 (425-D) 2 281 (425–C) 400 (SCZ-0013) 6 296 (425-FB) 297 (425-FV) **(**)) 657 (NUZ-0011) 6 699 (ORB-206TC) 742 (ORE-206TC) ANDARD MODE 008 (ORV-206) 1314 (425–L) 382 (426-HA) 0. 1077615 ov05 ١TE APVD (815) 964-9421 WWW.GEWATER.COM **SERIES 425 DIAPHRAGM VALVE** 2" N.P.T. OR B.S.P.T.

DRAWING NO.

1084020

PRINTED IN U.S.A.

		39 CA MO 2. VA CO	RING ASSIST CLOSED MODE NNOT BE COMBINED WITH DEL. LVES AVAILABLE WITH B.S. NNECTIONS.	ll Limit Stop P.T. END	34 O-RI 35 SHAF 36 INDIC 37 O-RI 38 TOP 39 LOCK	ng T guide bu Ator Shaft Ng Nut Washer	JSHING 7 T 2 ,	 1071692 (OF 1074121 (4 1074325 (42 1071688 (ORB 1071332 (4 1073590 (WAS 	B-116) 1 21-GF) 1 25-PM) 1 ⊡108TC) 1 25-TB) 1 3-0007) 1
1070036 (V42F-0001-00000) (2" NPT)	1072893 (V42F-00	21–00000) (2" NPT)	SEE REVERSE SII STANDARD NORM	DE FOR ALLY OPEN	MODEL				
SPRING ASSIST OPEN	POSITION	INDICATOR		F CHANGE	D SHAFT NU D O-RING P	JTS & /N'S	1635 1672 MS	SM 01Nov05	
CONVERSION KIT	S	REPAIR PARTS KITS	6	REV	DESCRI	™207RM_NO). <u>105796159</u> ROCKFORD OPER	VN DATE ATIONS	APVD
DESCRIPTION CONVERSION KIT (LIMIT STOP)	PART NO. 1074320 (425–LSC)	DESCRIPTION INT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 1	PART NO. 9,20,21 1074319 (425–LS)	B GE	Osmol	nics	2412 GRANT AVEN ROCKFORD, IL 61 (815) 964-9421 W	UE 103-3991 WW.GEWATER	R.COM
CONSISTS OF STANDARD THEM NO'S 19,20,21,22 CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 25 THRU 30	1074330 (425–SCC)	INT. PARTS KIT (NORM. CLOSED) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),18,24	1070131 (425–RG)	SEF	RIES 42	5 DIAP	HRAGM	VALVE	
CONVERSION KIT (SPRING ASSIST OPEN)	1074331 (425–S0)	INT. PARTS KIT (SPRING ASSIST CLOS CONSISTS OF STANDARD ITEM NO'S 2	ED) 1074329 (425–SC)		2" N	.P.T. O	R B.S.P.1	Γ.	
CONVERSION KIT (POSITION INDICATOR) CONSISTS OF STANDARD ITEM NO'S 33 THRU 39	1074324 (425–PIC)	CONSISTS OF STANDARD ITEM NO'S 8 INT. PARTS KIT (POSITION INDICATOR) CONSISTS OF STD ITEM NO'S 34 THR	V 1074331 (425–S0) 0 39 1074323 (425–PI)	DRAWN	JWB	DATE	30Apr01	drawing no.	34020
DRINTED IN U.S.A									

NOTE:



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

(8)

200

-(1/4" NPT)

(32)

(1/8" NPT)

LIMIT STOP

(31)

(USED WITH NORMALLY

CLOSED VALVES ONLY)

(1/8" NPT)

(19)

22



1072894 (V42F-0030-00000) (2" NPT)

NORMALLY CLOSED

(36)

37 38)

6

(35)

(33)



SPRING ASSIST CLOSED

20	0-RING			*	1071690 (ORB-112)	1	
21	NUT		*	1074434 (426–U)	1		
22	CAP	CA	ST IRON	*	1074285 (425-CCC)	1	
	NORM	IALL	Y CLOS	ED	MODEL		
		PLA	ATED STEEL	*	1071918 (PLZ-0008)		
23			BRASS		1071904 (PLB-0009)	1	
	(1/4 N.F.I.)	S	TN. STL.		1071915 (PLS-0001)		
24	SHAFT (NORMA	ILLY	CLOSED)	*	1074317 (425–LL)	1	
	SPRING	ASS	SIST CLC	SE	D MODEL		
05			BRASS	*	1074083 (421-AH)		
25	CENTERING WAS	HER	STN. STL.		1074084 (421-AHS)	1	
26	RETAINER NUT		BRASS	*	1074430 (426-TT)	1	
		PLA	TED STEEL	*	1071917 (PLZ-0005)		
27	(1 /9" N D T)		BRASS		1071903 (PLB-0007)	1	
	(1/6 N.P.I.)	S	TN. STL.		1071916 (PLS-0002)		
28	SPRING				1074428 (426-SS)	1	
29	0-RING			*	1071677 (ORB-025)	1	
30	CAP	CA	ST IRON	*	1074284 (425-CA)	1	
	SPRIN	G AS	SSIST OF	PEN	MODEL		
0	CASKET		COPPER	*	1074252 (424-R)	1	
0	GASKEI		LEAD		1074263 (424-RL)		
31	SPRING			*	1074423 (426-S)	1	
30		יחבם	BRASS	*	1074436 (426–V)	1	
52	CENTERING WAS		STN. STL.		1074437 (426–VS)		
	POSIT	ON	INDICAT	OR	MODEL		
33	CAP	CA	ST IRON	*	1074288 (425-CF)	1	
34	0-RING			*	1071692 (ORB-116)	1	
35	SHAFT GUIDE I	BUSH	ING	*	1074121 (421–GF)	1	
36	INDICATOR SHA	\FT		*	1074325 (425-PM)	1	
37	O-RING			*	1071688 (ORB-108TC)	1	
38	TOP NUT				1074332 (425-TB)	1	
39	LOCKWASHER			*	1073590 (WAS-0007)	1	
39	38 IOP NUI * 10/4332 (425-16) 1 39 LOCKWASHER * 1073590 (WAS-0007) 1						
ΜО	IODEL						

STD

LIMIT STOP MODEL

PART NO.

* 1072364 (SCS-0042) 1

QTY.

DESCRIPTION

NO.

19 SCREW

PRINTED IN U.S.A.



				_					
				N					
REPAIR F	REPAIR PARTS KITS								
DESCRIPTION		PART NO.							
DIAPHRAGM & SEALS KIT CONSISTS OF ITEM NO'S	1070071 (426-RA) BUNA N	1070084 (426-RAE) E.P.D.M.	1070096 (426-RAV) FKM						
3(2),5,6,8(2),9,14,16	DIAPHRAGM 1074374 (426-FB)	DIAPHRAGM 1074374 (426-FB)	DIAPHRAGM 1074376 (426–FV)						
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)	1074409 (426-MO)								
				F					
ASSEME	BLY TOO	LS		6					
DESCRIPTION		PART	NO.						
FOR INSTALLATION & REMOVA SEAT (ITEM #2) (TOOL NOT S	L OF SHOWN)	1074411 (426–MT)	7					
FOR INSTALLATION & REMOVA GUIDE (ITEM #10) (TOOL NOT	L OF SHAFT SHOWN)	1-1/4" SOCK	HEX	8					

NOTE	
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3

14

8

(17)

(16)

(18)

A

1070041 (V42G-0000-00000) (2" NPT) 1070042 (V42H-0000-00000) (2-1/2" NPT)

NORMALLY OPEN (STANDARD)

(13)(15)

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

SEE REVERSE SIDE FOR CONFIGURATION OPTIONS

DES	5	SEAT			BRASS	*	:	1074409 (426-MO)	1
	Ľ	(REQ'S ASSY TO)OL)	S	TN. STL			1074408 (426-MAVO)	
20-tv)	3	HEX NUT (5/	'16–	24	F)	*	:	1263853	2
	1			L	BRASS	*		1074395 (426-K)	1
	-	DISC FEAL		S	TN. STL			1074398 (426-KS)	
				E	BUNA N	*	:	1071696 (ORB-144)	
	5	0-RING		E	.P.D.M.			1071737 (ORE-144)	1
					FKM			1071809 (ORV-144)	
					BUNA	*	:	1074389 (426-J)	
	6	DISC		E	.P.D.M.			1074391 (426-JE)	1
-	0	DISC	Г		FKM	Τ	Т	1074394 (426-JV)	'
_					HYCAR	Т	Τ	1074392 (426-JH)	
	-			Т	BRASS	*	:	1074381 (426-H)	1
<u>́ </u>	11	DISC HOLDER		S	TN. STL			1074386 (426-HS)	1'
	8	GASKET		T	COPPER	*	:	1074252 (424-R)	2
				Ē	BUNA N	*	:	1071706 (ORB-233)	
	9	0-RING	Г	E	.P.D.M.			1071754 (ORE-233)	1
					FKM			1071826 (ORV-233)	1
	10	SHAFT GUIDE		Τ	BRASS	*	:	1074379 (426-GO)	1
	10	(REQ'S ASSY TO	0L)	5	TN. STL			1074378 (426-GASO)	1 1
	4.4			T	BRASS	1	:	1074370 (426-D)	
E	''	DIAPHRAGM PL	ALE	S	TN. STL			1074371 (426-DA)	2
			CA	١S	IRON	*	:	1081560 (426-C)	
	12		CAS	ST	BRASS			1074348 (426-CB)	1
	17		PL/	١TE	D STEE	L I	:	1072401 (SCZ-0015)	6
	13	HEA SCREW	5	IT	N. STL.	Τ	Т	1072358 (SCS-0016)	0
	44			E	BUNA N	*	:	1074374 (426-FB)	1
	14	DIAPHRAGM		Γ	FKM	Τ	Т	1074376 (426-FV)	'
	15		PLA	\TE	D STEE	L I	:	1071657 (NUZ-0011)	6
	15	HEA NUT	5	IT	N. STL.	Τ	Т	1071655 (NUS-0035)	0
				E	BUNA N	*	:	1071691 (ORB-114TC)	
	16	0-RING	Г	E	.P.D.M.			1071729 (ORE-114TC)	1
			Г		FKM			1242391 (ORV-114TC)	1
	17	SHAFT (NORMA	LLY	0	PEN)	*	:	1074400 (426-L)	1
	10			Т	BRASS	*	:	1074382 (426-HA)	4
	10	DISC SPACER		5	TN. STL			1074384 (426-HAS)	1'
	-	-							
					F	OF	M	NO. 1077	616
NGED	SHA	AFT NUTS &			1635	MS	SM	01Nov05	
	0 E								

DESCRIPTION

CAST IRON

CAST BRASS

BODY

PART NO.

1074343 (426-A8)

1081559 (426-A10)

1074338 (426-AB8)

1074335 (426-AB10)

STD

*

*

2" NPT

2-1/2" NPT

2" NPT

2-1/2" NPT

QTY.



N 20 2-1/2" DIAPHRAGM VALVE ഗ ANDARD MODE

PRINTED IN U.S.A.

7

6

(5)

4

(3)

〔2〕

(1)

(USED WITH NORMALLY						NO. DESC	CRIPTION	STD	PART NO). (<u>)</u> TY
CLOSED VALVES ONLY)		(1/4"NPT) —	√ (US	ED WITH NORMALLY			LIMIT ST	OP MODEL			
(1/8" NPT)				SED VALVES ONLY)		19 SCREW		* 10	72364 (SCS-	-0042)	1
						20 O-RING		* 10	71690 (ORB	-112)	1
	(23	s) X	$\langle \rangle$			21 NUT		* 10	74434 (42	26-U)	1
$1 \angle \square (22) \cup \lor \lor \land \land$		\sim / \sim		````	<hr/>	22 045	CAST I	RON * 10 ⁻	74354 (426-	-ccc)	-
	ITTAN /			\ \	\backslash		CAST B	RASS 10	74357 (426-	-CCCB)	1
		NXX \		$\langle \rangle$ \odot		NOR	MALLY C	LOSED MO	DEL		
		XXX	(30) (26)				PLATED	STEEL * 10	71918 (PLZ-	-0008)	
		All and		-(1/8")	NPT)	23 /1 /4" N D T	BRAS	SS 10	71904 (PLB-	-0009)	1
		IR XI	$ (25) \rangle \langle \rangle$			(1/ + 10.F.1.	/ STN. :	STL. 10	71915 (PLS-	-0001)	
						24 SHAFT (NORM	IALLY CLOS	ED) * 10	74402 (426	6–LL)	1
			/ MAINS		/	SPRING	G ASSIST	CLOSED N	IODEL		
			(K (K)	29		25 CENTERING W		ASS * 10	74083 (421	1–AH)	1
					/		STN STN	. STL. 10	74084 (421	-AHS)	<u> </u>
		≤ (24) \	HOLD -			26 RETAINER NUT	BF	ASS * 10	74430 (42)	6-TT)	1
		š –						<u>. SIL.</u>	10/8686	0005)	
						27 PIPE PLUG	BRAS	SS 10	71917 (PLZ- 71903 (PLB-	-0003)	1
1072939 (V42G-0010-00000) (2" NPT)	1072945 (V42G-003	50–00000) (2" NPT)	1072935 (V42G	-0002-00000) (2" NF	эт)	2′ (1/8" N.P.T.		STI 10	71916 (PLS-	-0002)	•
1072998 (V42H-0010-00000) (2-1/2" NPT)	1073002 (V42H-003	/0-00000) (2-1/2" NPT)	1072996 (V42H	-0002-00000) (2-1/2" NI	PT)	28 SPRING	1 0111.	*	1078688	0002)	1
LIMIT STOP	NORMALI		SPRING		:n	29 0-RING		* 10	71677 (ORB	-025)	1
						70 010	CAST I	RON * 10	74352 (42€	3–cc)	_
	/8" NPT) (35						CAST B	RASS 10	74353 (426-	-CCB)	
$(31) \otimes (31)$	(33) (33)	(¹ 9) \				SPRI	NG ASSIS	T OPEN MO	ODEL		
	(34)	$\langle n \rangle \langle n \rangle$					CO	PPER * 10	74252 (42	24–R)	1
						0 GASKET		EAD 10	74263 (424	4–RL)	
		XXX (38)	NOTE:			31 SPRING		*	1078692		1
$ N \rangle > 32$						32 CENTERING WA		ASS * 10	74436 (42	$\frac{26 - V}{26 - V}$	1
		A (39)	1. SPRING A	SSIST CLOSED MODE	L				<u>/443/ (426</u>	6-VS)	
		ALAND I	OR POSITION	INDICATOR MODELS		P051			JUEL		
A A A A A A A A A A A A A A A A A A A		South /				33 CAP		$\frac{100}{2000}$	74360 (426		1
		3×1	JUS END C	ONNECTIONS	P. UK		CASI DI	× 10	71692 (ORB	<u>– (116)</u>	1
		\sim (\sim /	00. END C			35 SHAFT GUIDE	BUSHING	* 10	74121 (42	1 - GF	<u>_</u>
						36 INDICATOR SH	IAFT	* 10	74325 (425	5-PM)	1
			SEE REVERSE 9	SIDE FOR		37 O-RING		* 107	71688 (ORB-	108TC)	1
			STANDARD NOR	MALLY OPEN N		38 TOP NUT		* 10	74332 (425	5–TB)	1
		- (07.107)	STANDARD NOR		IUDEE	39 LOCKWASHER		* 10	73590 (WAS-	-0007)	1
10/2932 (V42G-0001-00000) (2" NPI) 1072994 (V42H-0001-00000) (2-1/2" NPT)	1072943 (V42G-0021-0 1073001 (V42H-0021-0	10000) (2 NPT) 10000) (2-1/2" NPT)						FC	ORM NO.	10776	16
					I CH	ANGED SHAFT NU	IS &	1635			
STRING ASSIST OF EN		DICATOR			JUP	DATED O-RING P/	'n's	1672			
					REV	DESCRIP	TION	ECO	DWN DATE	APVD	<u> </u>
CONVERSION		REPAIR	PARISKIIS					ROCKFORD OP	ERATIONS		
	PART NO.	INT. PARTS KIT (LIN	AIT STOP)	PART NO.	86)	RE Domon	ice	ROCKFORD. IL	61103-3991		
CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 19,20,	21,22 1074406 (426-LSC)	CONSISTS OF STANDA	RD ITEM NO'S 19,20,21	1074405 (426–LS)		ge Usmon	ICS	(815) 964-9421	WWW.GEWATE	ER.COM	
CONVERSION KIT (SPRING ASSIST CLOSED)		CONSISTS OF STAN	DARD	1070132 (426-RG)	c				/ ////////	=	
CONSISTS OF STANDARD ITEM NO'S 25 TH	RU 30 10/4426 (426-SCC)	ITEM NO'S 4,7,10,1	1(2),18,24			SERIES 42		ILAGI		_	
CONVERSION KIT (SPRING ASSIST OPENI)		CONSISTS OF STANDA	RING ASSIST CLOSED)	1074425 (426-SC)		2" & 2 1/2	2" N.P.	T. OR B	SPT		
CONSISTS OF STANDARD ITEM NO'S 8.31.3	2 1074427 (426-S0)	INT. PARTS KIT (SP	RING ASSIST OPEN)	1074427 (426-50)	L						
		CONSISTS OF STANDA	RD ITEM NO'S 8,31,32	10/442/ (420-50)	DRAWN		DATE		DRAWING NO.		
CONVERSION KIT (POSITION INDICATOR) CONSISTS OF STANDARD ITEM NO'S 33 TH	RU 39 1074414 (426-PIC)	INT. PARTS KIT (PO	SITION INDICATOR)	1074413 (426–PI)		JWB	C)2May01	10	8402	.1
PRINTED IN U.S.A.	I			l					_ `		

NO.

DESCRIPTION

STD

PART NO.

N 8 2 5 DIAPHRAGM VALVE L PTIONAL MODE S

QTY.



USED WITH NORMALLY

CLOSED VALVES ONLY

(20)

(21)

(1/8" NPT)

(22)

(28)

Н

		25		27	24 25 26 27	PIPE PLUG (1/4" N.P.T SHAFT (NOR SPRIN CENTERING V RETAINER NU	PLATED STEEL BRASS T.) BRASS STN. STL. MALLY CLOSED) NG ASSIST CLOS VASHER BRASS STN. STL. BRASS STN. STL. BRASS STN. STL.	* 1071918 (PLZ-000 1071904 (PLB-000 1071915 (PLS-000 * 1074499 (427-LI SED MODEL * 1074083 (421-AH 1074084 (421-AH * 107430 (426-T 1078686 * 1071917 (PLZ-000	8 9 1 1 1 1 1 1 1 1 1 1 1 1 1
1073045 (V42J-0010-00000) (THREADED)	1073055 (V42J-003	0-00000) (THREADED)	1073047 (V42J-0002-00000) (THR	EADED)	28	(1/8" N.P.T	.) BRASS T.) STN. STL.	1071903 (PLB-000 1071916 (PLS-0002)7) 1)2)
1073103 (V423-3010-00000) (PLANGED)	10/3113 (V423-303	(FLANGED)		ANGED)	29	SPRING		* 1074428 (426-S	;S) 1
		LY CLOSED	SPRING ASSIST CL	OSED	30	O-RING CAP	CAST IRON CAST BRASS	* 1071677 (ORB-02 * 1074460 (427-CG 1074461 (427-CG	.5) 1 ;C) ;B) 1
$\overline{33}$ $\overline{)}$	(34)					SPR	ING ASSIST OPE	N MODEL	
		38			8	GASKET	COPPER LEAD	* 1074252 (424-F 1074263 (424-RL	R) 1
1		\mathbb{Z}	NOTE:		32	SPRING		* 1074423 (426-5	<u>S) 1</u>
		40	1. SPRING ASSIST CLOSED	MODEL	33	CENTERING V	VASHER STN. STL.	* 1074436 (426-) 1074437 (426-)	v) 1 s) 1
	Star J		OR POSITION INDICATOR MC	DELS.	·	POS	ITION INDICATO	RMODEL	
A A A A A A A A A A A A A A A A A A A	VI HANN /	S X KA			34	CAP	CAST IRON	* 1074468 (427-Cl	<u>,F)</u>
	X X II		J.I.S. END CONNECTIONS.	1 D.J.F. UK	35	0-RING		* 1071692 (ORB-11)	i6) 1
					36	SHAFT GUIDI	E BUSHING	* 1074121 (421–GF	F) 1
					37	INDICATOR S	SHAFT	* 1074510 (427–PM	M) 1
			SEE REVERSE SIDE FOR	2	38	O-RING		* 1071688 (ORB-1081 * 1074332 (425-10	(C) 1 (B) 1
			STANDARD NORMALLY C	PEN MOI	DEL 40	LOCKWASHE	२	* 1073590 (WAS-000	07) 1
1073045 (V42J–0001–00000) (THREADED) 1073097 (V42J–3001–00000) (FLANGED)	1073054 (V42J–0021- 1077374 (V42J–3021-	-00000) (THREADED) -00000) (FLANGED)				FC	RM NO. 1077	617	_4
SPRING ASSIST OPEN	POSITION IN	NDICATOR		Н	CHANGED SHA UPDATED O-R	T NUTS & NG P/N'S	1635 1672 M	SM 01Nov05	
		DEDAID			D	SCRIPTION	ECO D	WN DATE AF	PVD
							2412 GRANT AVE	NUF	
CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 20.21.22.23	1074502 (427–LSC)	INT. PARTS KIT (LIMI CONSISTS OF STANDA	T STOP) RD ITEM NO'S 20,21,22	-LS)	GE Os	monics	ROCKFORD, IL 6 (815) 964-9421 V	103-3991 /WW.GEWATER.COI	M
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 26 THRU 31	1074519 (427–SCC)	INT. PARTS KIT (NOF CONSISTS OF STAND ITEM NO'S 4,7,10,11(RM. CLOSED) ARD 2),18,25 1070133 (427-	-RG)	SERIES	427 DI	APHRAGM	VALVE	
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 8,32,33	1074521 (427–S0)	CONSISTS OF STANDA	ING ASSIST CLOSED) 1081565 (427 RD ITEM NO'S 26,29,30 ING ASSIST OPEN) 1074521 (427	-sc)		3" P	IPE SIZE		
CONVERSION KIT (POSITION INDICATOR) CONSISTS OF STANDARD ITEM NO'S 34 THRU 40	1074509 (427-PIC)	CONSISTS OF STANDA	ND ITEM NO'S 8,32,33 1074521 (427- 1074508) ITION INDICATOR) 1074508 (427- 1074508) FM NO'S 35 THRU 40 1074508 (427- 1074508)	DRAW	^и JW	B	02May01	10840	022
		,						•	

(24)

NO.

20 SCREW

22 NUT

23 CAP

21 O-RING

(USED WITH NORMALLY

CLOSED VALVES ONLY)

(1/8" NPT)

(28)

(30)

DESCRIPTION

STD

PLATED STEEL * 1071918 (PLZ-0008)

LIMIT STOP MODEL

CAST IRON

CAST BRASS

NORMALLY CLOSED MODEL

PART NO.

* 1072365 (SCS-0043) 1

* 1071690 (ORB-112)

* 1074434 (426–U)

* 1074462 (427-CCC)

1074465 (427-CCCB)

QTY.

1

1

1



APHRAGM VAL ANDARD

	1 Por a					25	SHAFT (NORM	ALLY CLOSED)	* 1074581 (4:	28-LL) 1
		h Albert		∞ (^ (30)			SPRIN	G ASSIST CLOS	ED MODE	Ĺ
						26	CENTERING W	ASHER BRASS STN. STL.	* 1074530 (4)	<u>28–AH)</u> 1
		25	THE	(26)		27	RETAINER NUT	BRASS STN. STL.	* 1074430 (4 107868	<u>26–∏)</u> 36 1
						28	PIPE PLUG (1/8" N.P.T.) PLATED STEEL BRASS STN. STL.	 * 1071917 (PLZ 1071903 (PLE 1071916 (PLS 	. <u>-0005)</u> J-0007) 1 S-0002)
1077151 (1401/ 2010 00000)	1077159 (140	× 7070 00000)	1077148 (VADIC 7000 00000)		29	SPRING		* 1074607 (42	28-SS) 1
1073131 (V42K=3010=00000)	1073136 (V42	.K-3030-00000)	1073146 (v42k-3002-00000)		30	O-RING		* 1071677 (OR	3-025) 1
LIMIT STOP	NORMAL	LY CLOSED	SPRING A	ASSIST CLOSE	ED	31	CAP	CAST IRON	* 1074540 (42	28-CC) 1
(1/4" N (1/8" N	PT) NPT) - (3 (36)	738				8		COPPER LEAD	* 1073950 (20 1073951 (20 * 1074600 (4	0-LL) 1 0-LLL) 1
								BRASS	* 1074610 (4	128-V)
	K		NOTE			33	CENTERING W	ASHER STN. STL.		<u> </u>
	A Sh		NOTE:				POSI	TION INDICATO	R MODEL	
			1. SPRING	ASSIST CLOSED MODE		35	CAP	CAST IRON	* 1074549 (4	28–CF) 1
	₩ .♥		OR POSITIO	N INDICATOR MODELS	11 STOP	36	O-RING		* 1071692 (OR	<u>.</u> B–116) 1
	Y 🔊	X AN				37	SHAFT GUIDE	BUSHING	* 1074121 (4)	21–GF) 1
		\sim \sim $N/$	2. VALVES	AVAILABLE WITH B.S.	P. END	38	INDICATOR SH		* 1074593 (42	<u>28-PM) 1</u>
			CONNECTION	15.		39	U-RING		* 10/1688 (URB	-108IC) 1
			SEE REVERSI STANDARD N	E SIDE FOR ORMALLY OPEN	I MOD	[<u>40</u>] EL	TOP NUT	I	* 1074608 (4	<u>28–18) 1</u>
1073146 (V42K-3001-00000)	1073156 (V42K-	-3021-00000)						FOF	RM NO. 1	077618
SPRING ASSIST OPEN	POSITION II	NDICATOR			H	CHANGED SHA	FT NUTS &	1635 1672 MS	SM 01Nov05	
				1	REV	DE	ESCRIPTION	ECO D	MN DATE	APVD
CONVERSION KITS		REPA	IR PARTS KITS			`		ROCKFORD OPER	ATIONS	
DESCRIPTION	PART NO.	DESCRIPTION		PART NO.	1 ye		-	2412 GRANT AVEN	IUE	
CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 20,21,22,23	1074584 (428–LSC)	INT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM	NO'S 20,21,22	1074583 (428–LS)		^v GE Os	monics	(815) 964-9421 W	/WW.GEWATEF	۲.COM
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 26 THRU 31	1074603 (428-SCC)	CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),18,25		1070134 (428–RG)		SERIES	5 428 DIA	APHRAGM	VALVE	
CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 8 32 33	1074606 (428-SOC)	INT. PARTS KIT (SPRING ASSIS CONSISTS OF STANDARD ITEM	ST CLOSED) NO'S 26,29,30	1074602 (428–SC)			4" PI	PE SIZE		
		CONSISTS OF STANDARD ITEM	NO'S 8,32,33	10/4604 (428–SO)	DRAWN	N	DATE		DRAWING NO.	
CONVERSION KII (POSITION INDICATOR) CONSISTS OF STANDARD ITEM NO'S 35 THRU 40	1074592 (428–PIC)	INT. PARTS KIT (POSITION IND CONSISTS OF STD ITEM NO'S	ICATOR) 36 THRU 40	1074591 (428–PI)		JW	B	02May01	108	34023
PRINTED IN U.S.A.										

(1/8" NPT)

(31)

(27

USED WITH NORMALLY

CLOSED VALVES ONLY

(20)

(22

(1/8" NPT)

(28)

(23)

__(1/4" NPT)

(24

R

K

NO.

20 SCREW

22 NUT

23 CAP

24

21 0-RING

PIPE PLUG

(1/4" N.P.T.)

✓ USED WITH NORMALLY

CLOSED VALVES ONLY

(28)

DESCRIPTION

STD

PLATED STEEL * 1071918 (PLZ-0008)

LIMIT STOP MODEL

CAST IRON

BRASS

STN. STL. 25 SHAFT (NORMALLY CLOSED) * 1074581 (428-LL) 1

NORMALLY CLOSED MODEL

PART NO.

* 1072365 (SCS-0043) 1

* 1074434 (426-U) 1

* 1074542 (428-CCC) 1

1071904 (PLB-0009)

1071915 (PLS-0001)

* 1071690 (ORB-112)

QTY.

1

4 3 APHRAGM VAL U \bigcirc JNAL Ś Π က



JWB 08MAY01 1084024	1074647 (429–PI)	(POSITION INDICATOR) TD ITEM NO'S 37 THRU 42	INT. PARTS KIT CONSISTS OF S	1074648 (429-PIC	CONVERSION KIT (POSITION INDICATOR) CONSISTS OF STANDARD ITEM NO'S 37 THRU 42
	1074655 (429–SC)	(SPRING ASSIST CLOSED) TANDARD ITEM NO'S 31,34,35	ONSISTS OF S	1074656 (429-SCC	CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 31 THRU 36
SERIES 429 DIAPHRAGM VALVE	1074654 (429–RG)	(NORM. CLOSED) ;TANDARD 2),6,7,9,12,16(2),22,30	INT. PARTS KIT CONSISTS OF S ITEM NO'S 4,(1)	PART NO. 1074639 (429–LSC)	DESCRIPTION CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 25,26,27,28
Water & Process Technologies	1074638 (429-LS)	(LIMIT STOP) TANDARD ITEM NO'S 25,26,27	INT. PARTS KIT CONSISTS OF S		CONVERSION KITS
	PART NO.	SCRIPTION	R		DDINTED IN ILS A
J REMOVED METRIC FLANGE INFO NONE MSM 240000					POSITION INDICATOR
FORM NO. 1077619	ACCELERATES THE	742L DIAPHRAGM VALVES. IT	AND OPENING SF	IS FURN CLOSING	V42L-3020-00000
SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL	C PRESSURED		".T. "EXH." PORT " TO DRAIN (VENT WAY "NORMALLY .	CONNEC	
2. SPRING ASSIST OPEN MODEL NOT AVAILABLE.					
NOTE: 1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP OR POSITION INDICATOR MODELS.	SSURE	CONNECT TO LINE PRE			
40 INDICATOR SHAFT * 1074649 (429-PM) 1 41 0-RING * 1071688 (088-1080C) 1 42 TOP NUT * 1074658 (429-TB) 1 5E SIDE) * 10074658 (429-TB) 1	SURE (FROM REVER	VALVES -1/8" N.P.T. CONTROL PRESS FROM STAGER/SOLENOID		CONNEC	33 39
2 37 CAP CAST IRON * 1074618 (429-CF) 1 38 0-RING * 1071694 (088-128) 1 39 SHAFT GUIDF BUSHING * 1074624 (429-CF) 1			ALLY CLUSE		
36 CAP CAST IRON * 1074616 (429-CC) 1 POSITION INDICATOR MODEL		0) V42L-3	V42L-3030-0000	1073187 (1073184 (V42L-3010-00000)
(1/8 N.P.1.) STN. STL. 1071916 (Pts-0002) 34 SPRING * 1074657 (429-SS) 1 35 O-RING * 1079839 (088-222) 1		ļ.	30	NPT)	8/1)
32 RETAINER NUT BRASS 107403 11 33 PIPE PLUT BRASS 107403 429-11 1 33 PIPE PLUT BRASS 1071917 (PL2-0005) 1 33 // CP PLATED STEEL * 1071903 (PL2-0005) 1					
30 SHAFT (NORMALLY CLOSED) * 1074637 (429-LL) 1 SPRING ASSIST CLOSED MODEL					
29 PIPE (1/4" PLUG N.P.T.) PLATED BRASS STEEL * 1071918 (PLZ-0008) 1 STN. STN. STN. 1071904 (PLB-0009) 1	(35)				
28 CAP CAST IRON 1 * 1074617 (429-CCC) 1 NORMALLY CLOSED MODEL			N		
26 O-RING * 1071690 0078-112) 1 27 NUT * 1074434 (426-U) 1	Ð				(25)
LIMIT STOP MODEL		(1/8" NPT)			CLOSED VALVES ONLY)
NO. DESCRIPTION STD PART NO. QTY.					LISED WITH NOBWALLY

6" DIAPHRAGM VALVE - OPTIONAL MODELS



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

BODY CAST BRASS 3/4" NPT 1074077 (421-AB3) 2 SEAT (REQ'S ASSY TOOL) BRASS 1074080 (421-AB4) 3 HEX NUT (1/4-28) 1074158 (421-M0) 4 DISC PLATE BRASS 1075590 (821006) 5 O-RING FKM 1071791 (08V-024)	1 1 1 1 1
I DODI DIGUST DIGUST <thdigust< thd=""> <thdigust< th=""> <thdigust< th=""></thdigust<></thdigust<></thdigust<>	1 1 1 1
2 SEAT (REQ'S ASSY TOOL) BRASS 1074158 (421-M0) 3 HEX NUT (1/4-28) 1263852 4 DISC PLATE BRASS 1075590 (821006) 5 0-RING FKM 1071791 (078-024)	1 1 1 1
3 HEX_NUT (1/4-28) 1263852 4 DISC_PLATE BRASS 1075590 (821006) 5 O-RING FKM 1071791 (08V-024)	1 1 1
4 DISC PLATE BRASS 1075590 (821006) 5 O-RING FKM 1071791 (0RV-024)	1
5 O-RING EKM 1071791 (0RV-024)	1
6 DISC HYCAR 1074144 (421–JH)	1
7 DISC HOLDER BRASS 1074126 (421-H)	1
8 GASKET COPPER 1073948 (200-GG)	2
9 O-RING FKM 1071803 (0RV-125)	1
10 SHAFT GUIDE (REQ'S ASSY TOOL) BRASS 1074122 (421-GG0)	1
11 DIAPHRAGM PLATE BRASS 1075589 (821005)	2
12 CAP CAST BRASS 1074096 (421-CB)	1
13 HEX SCREW 1/4-20 1080720 (SCS-0142)	4
14 DIAPHRAGM BUNA N 1074119	1
15 HEX NUT 1/4-20 1071649 (NUS-0007)	4
16 O-RING AFLAS 1071661 (0RA-110)	1
17 SHAFT (NORMALLY OPEN) 1075591 (821007)	1
18 HEX NUT (1/4-28) 1263852	1

NOTE:

JWB

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

SEE REVERSE SIDE FOR CONFIGURATION OPTIONS

FORM NO. 1077620

17MAY01





1/8"-27 NPT

PRINTED IN U.S.A.

1084035

PRINTED IN U.S.A.

31

SPRIN	G ASSIST	OP	ΕN
1073567 (V	'82C-0101-90000)	(1"	NPT)
1077456 (V	'82B-0101-90000)	(3/4"	NPT)

LIMIT STOP

8

-(1/4" NPT)

1077458 (V82B-0110-90000) (3/4" NPT) 1073569 (V82C-0110-90000) (1" NPT)





USED WITH NORMALLY CLOSED VALVES ONLY

1073564 (V82B–0130–90000) (3/4" NPT) 1073570 (V82C–0130–90000) (1" NPT)	

NORMALLY CLOSED

√^(1/4" NPT)

(1/8" NPT)	$\sum_{\text{CLOSED}} \overset{\text{USED}}{\text{VALVES}} \overset{\text{USED}}{\text{ONLY}}$
23	26 27 28 29
1077457 (/828_010	12_00000) (3/4" NPT)

077457 (V82B-0102-90000) (3/4 №1) 1073568 (V82C-0102-90000) (1" NPT)

SPRING ASSIST CLOSED

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–SO)				

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					
18	SCREW			1072361 (SCS-0030)	1	
19	0-RING			1071668 (ORB-012)	1	
20	HEX NUT			1077534 (400-H)	1	
21	CAP	CAS	T BRASS	1074104 (421-CCCB)	1	
	NORMA	LLY	CLOSE	D MODEL		
22	PIPE PLUG (1/4" N.P.T.)		BRASS	1071904 (PLB-0009)	1	
23	SHAFT (NORMA	LLY (CLOSED)	1075592 (821013)	1	
	SPRING A	SSI	ST CLOS	ED MODEL		
24	CENTERING NU	Т		1074185 (421-X)	1	
25	RETAINER NUT		BRASS	1074183 (421–TT)	1	
26	PIPE PLUG (1/8" N.P.T.)		BRASS	1071903 (PLB-0007)	1	
27	SPRING			1074180 (421-SS)	1	
28	0-RING			1071674 (ORB-020)	1	
29	CAP	CAS	T BRASS	1074100 (421-CCB)	1	
SPRING ASSIST OPEN MODEL						
30	CENTERING WAS	HER	BRASS	1074147 (421-K)	1	
8	GASKET		COPPER	1073948 (200-GG)	1	
31	SPRING			1074175 (421-SB)	1	

PART NO.

QTY.

DESCRIPTION

NOTE:

NO.

- 1. SPRING ASSIST CLOSED MODEL CANNOT BE COMBINED WITH LIMIT STOP MODEL.
- 2. VALVES AVAILABLE WITH B.S.P.T. END CONNECTIONS.

SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL

FORM NO. 1077620

F	CHANGED SHAFT NUTS &			1635	мсм	07DFC05		
	UPDATED	O-RING P	/N'S		1672		VIDEVUO	
REV		DESCRIP	TION		ECO	DWN	DATE	APVD
	6			ROCH	(FORD OI	PERATIO	ONS	
h Qa	2			2412	GRANT A	VENUE		
$\langle \mathcal{O}($	D) CE	Domo	laa	ROCH	KFORD, IL	. 61103-	3991	
				(815)	964-9421	WWW	.GEWAT	ER.COM
SERIES 821 DIAPHRAGM VALVE 3/4" & 1" N.P.T. OR B.S.P.T.								
DDAV			DATE			DRA	WING NO.	

$\tilde{\omega}$ /4" & **HIGH PRESSURE VALVE - OPTIONAL MODELS**



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	ON	PART NO.	QTY.
1	BODY (BRASS)	1-1/4" NPT	1075600 (824005)	1
•		1-1/2" NPT	1075601 (824006)	
2	SEAT (REQ'S ASSY TOOL)	BRASS	1074245 (424-MO)	1
3	HEX NUT (1/4-2	8)	1263852	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 NUT (5/16-	24)	1263853	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

NOTE:

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

SEE REVERSE SIDE FOR CONFIGURATION OPTIONS

FORM NO. 1077621 1635 1672 CHANGED SHAFT NUTS & D MSM 07DEC05 UPDATED O-RING P/N'S REV DESCRIPTION ECO DWN DATE APVD ROCKFORD OPERATIONS 2412 GRANT AVENUE Œ ROCKFORD, IL 61103-3991 **GE Osmonics** (815) 964-9421 WWW.GEWATER.COM **SERIES 824 DIAPHRAGM VALVE** 1 1/4" & 1 1/2" N.P.T. OR B.S.P.T. DRAWING NO.

17MAY01

DATE

JWB

DRAWN



PRINTED IN U.S.A.

SPRING	ASSIST	OPEN

33	

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

LIMIT STOP

16)

-(1/4" NPT)









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

1073576 (V82E-0130-90000) (1-1/2" NPT)
NORMALLY CLOSED

CONSISTS OF ITEM NO'S 16,32,33

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)	1074268 (424–S0)			

CONVERSION KIT	S
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.	Q٦	
LIMIT STOP MODEL						
20	SCREW			1072362 (SCS-0031)		
21	0-RING			1071668 (ORB-012)		
22	HEX NUT			1077534 (400-H)		
23	CAP	CAS	ST BRASS	1075608 (824012)		
	NORMA	LLY	CLOSE	D MODEL		
24	PIPE PLUG (1/4" N.P.T.)		BRASS	1071904 (PLB-0009)		
25	SHAFT (NORMA	LLY (CLOSED)	1075610 (824015)		
SPRING ASSIST CLOSED MODEL						
26	CENTERING NU	Г		1074276 (424-X)		
27	RETAINER NUT		BRASS	1074274 (424-TT)		
28	PIPE PLUG (1/8" N.P.T.)		BRASS	1071903 (PLB-0007)		
29	29 SPRING			1074270 (424–SS)		
30	30 O-RING		1071674 (ORB-020)			
31	CAP	CAS	ST BRASS	1075607 (824011)		
SPRING ASSIST OPEN MODEL						
32	CENTERING WAS	HER	BRASS	1074083 (421-AH)		
16	GASKET		COPPER	1074252 (424-R)		
33	SPRING			1074264 (424-S)		

QTY.

NOTE:

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

SEE REVERSE SIDE FOR STANDARD NORMALLY OPEN MODEL

FORM NO. 1077621

D	CHANGED SHAFT NUTS & UPDATED O-RING P/N'S	1635 1672 M	SM 07DECO	5				
REV	DESCRIPTION	ECO D	WN DATE	APVD				
(GE Osmonics							
SERIES 824 DIAPHRAGM VALVE 1 1/4" & 1 1/2" N.P.T. OR B.S.P.T.								
DRAV		<i>I</i> AY01	DRAWING NO.	084036				



				NO.	DESCRIPTION	PART NO. QTY.	
					LIMIT STOP M	IODEL	1
				20 SCREW		1078676 1	2
USED WITH NORMALLY	—(1/4" NPT)	(USED WITH NORMALL'	X 7	21 0-RING	т	10/1690 (ORB-112) 1 1074434 (426-U) 1	
CLOSED VALVES ONLY		CLOSED VALVES UNET	'/	23 CAP	CAST BRASS	1075622 (826018) 1	
				N	ORMALLY CLOS	ED MODEL	
			, (1/8" NPT)	24 PIPE	PLUG BRASS	1071904 (PLB-0009) 1	N
$\lambda \qquad \bigcirc \qquad \land \qquad \land$				25 SHAFT	N.P.T.) (NORMALLY CLOSED)	1074403 (426–LLA) 1	
			$\langle \rangle$	SPF	RING ASSIST CLO	DSED MODEL	
				26 RETAINE	R NUT BRASS	1074431 (426-TTA) 1	
				27 PIPE	PLUG BRASS	1071903 (PLB-0007) 1	ード
			28	28 SPRING	N.F.I.)	1074429 (426-SSB) 1	
				29 0-RING		1071677 (ORB-025) 1	
		3		30 CAP		10/5621 (826017) 1 	
					KING ASSIST OF	1078692 1	1 m
		Y ARRAD				10/0002	
	23 3			NOTE			N I
1077461 (VR2C_0110_00000) (2" NPT) 10	177462 (VR2C_0130_0000) (2" NDT)	V820-0102-00000 (2" N	ат)	NUTE: 1 SP	RING ASSIST CLOSE	D MODEL CANNOT	
1081149 (V82H=0110=90000) (2=1/2" NPT) 1081	150 (V82H-0130-90000) (2-1/2" NPT)	v82G=0102=90000 (2-1/2" N	PT)	BE	COMBINED WITH LI	WIT STOP MODEL.	
LIMIT STOP N	IORMALLY CLOSED SPR	ING ASSIST CLO	DSED				
		-					XA
(1/4" NPT)		S DART NO					
	INT. PARTS KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 20 21 22	1074406 (426–LS)	C	SEE REVER			
	INT. PARTS KIT (NORM. CLOSED)	1075614 (826_PC)		STANDARD	NORMALLY O	PEN MODEL	
	4,7,10,16,17,18,19,25						$\left \right\rangle$
	INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO'S 26,28,29	1070513 (AV6-SC)					P
	INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 31	1075616 (826-SO)				FORM NO. 1077622	
			H CHANG UPDAT	ED SHAFT NU ED O-RING P	TS & 163 /N'S 167 TION FC	0 DWN DATE APVD	Ž
	CONVERSION KI	ГS			ROCKFOR	D OPERATIONS	
	DESCRIPTION	PART NO.	(<i>4</i> 6)	E Asman	2412 GRAN ROCKFOR	IT AVENUE D. IL 61103-3991	
1073581 (V82G-0101-90000) (2" NPT) V82H-0101-90000 (2-1/2" NPT)	CONVERSION KIT (LIMIT STOP) CONSISTS OF ITEM NO'S 20 THRU 23	1075611 (826-LSC)		e usmon	(815) 964-9	421 WWW.GEWATER.COM	\leq
SPRING ASSIST OPEN	CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF ITEM NO'S 26 THRU 30	1075615 (826-SCC)	SE	RIES 82		GM VALVE	
	CONVERSION KIT (SPRING ASSIST OPEN) CONSISTS OF ITEM NO. 31	1075616 (826-SO)		. o. Z 1/4			
NTED IN U.S.A.				JWB	18MA`	Y01 1084037	റി

SPRING ASSIST OPEN

PRINTED IN U.S.A.







					F	ORM	NO.	1077623
F	CHANGED UPDATED	SHAFT NU O-RING P	TS& /N'S		1635 1672	MSM	15DEC05	
REV		DESCRIP	TION		ECO	DWN	DATE	APVD
GE Osmonics			2412 GRANT AVENUE ROCKFORD, IL 61103-3991 (815) 964-9421 WWW.GEWATER.COM					
SERIES 827 DIAPHRAGM VALVE 3" N.P.T. OR B.S.P.T.								
DRAV	VN	JWB	DATE	18N	/AYO	DRA	wing no. 1(084038

SEE REVERSE SIDE FOR CONFIGURATION OPTIONS



1/4"-18 NPT

CONSISTS OF ITEM NO'S 3(2),5,6,8(2),9,11,14,15(2)	1075626 (827-RA)						
INT. PARTS KIT (NORM. OPEN) CONSISTS OF ITEM NO'S 4,7,10,16,17,19,20	1075627 (827–RF)						
SEAT (ITEM NO. 2)	1074503 (427-MAO)						
	-						
ASSEMBLY TOOLS							
DESCRIPTION	PART NO.						
FOR INSTALLATION & REMOVAL OF SHAFT GUIDE (ITEM #10) (TOOL NOT SHOWN)	1–3/16" HEX SOCKET						

REPAIR PARTS KITS

PART NO.

DESCRIPTION

GUIDE (ITEM #10) (TOOL NOT SHOWN)

DIAPHRAGM & SEALS KIT

NU.	DESCRIPTIC	PART NU.	QIT.	
1	BODY CAST BRASS	3" NPT	1075630 (827012)	1
2	SEAT	BRASS	1074503 (427-MAO)	1
3	HEX NUT (5/16-2	24)	1263853	2
4	DISC PLATE	BRASS	1074494 (427-KA)	1
5	0-RING	FKM	1071797 (ORV-042)	1
6	DISC	HYCAR	1074490 (427-JH)	1
7	DISC HOLDER	BRASS	1074483 (427-HA)	1
8	0-RING	FKM	1071786 (ORV-011)	2
9	O-RING	FKM	1071828 (ORV-237)	1
10	SHAFT GUIDE (REQ'S ASSY TOOL)	BRASS	1074478 (427–GAO)	1
12	CAP CAS	T BRASS	1075631 (827013)	1
13	HEX SCREW 7/16	-14	1072363 (SCS-0032)	6
14	DIAPHRAGM	BUNA N	1074476 (427-FP)	1
15	0-RING	AFLAS	1071662 (ORA-114)	2
16	SHAFT (NORMALLY	OPEN)	1074497 (427-LAA)	1
17	DISC SPACER	BRASS	1074382 (426-HA)	1
18	HEX SCREW 3/8-	16	1072359 (SCS-0020)	2
19	UPPER DIAPHRAGM	PLATE	1074472 (427-DA)	1
20	LOWER DIAPHRAGM	PLATE	1074473 (427-DAA)	1

HIGH PRESSURE VALVE - STANDARD MODE

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				NO.	DESCRIPTION	PART NO.	QTY.
					LIMIT STOP MC	DEL	
				20 SCREW		1072365 (SCS-0043	3) 1
USED WITH NORMALLY			VALVES ONLY	21 O-RING		1071690 (ORB-112) 1
(1/8" NDT)				22 HEX NUT		1074434 (426–U)	1
(178 NF1)	$\sum (1/4" \text{ NPT}) \tag{1}$	1/8" NPT)		23 CAP	CAST BRASS	1075633 (827019)	1
		- H		NC	DRMALLY CLOSE	D MODEL	
(27)				24 PIPE P	BRASS	1071904 (PLB-0009	9) 1
$\left(\right) \left(23 \right) $		(26)	\backslash	25 SHAFT (1	NORMALLY CLOSED)	1074500 (427-114)	
			\sim	SDDI			/ · ·
	(24) / (29)) 🔨 (2	27) \			1074431 (426_TTA)	
				PIPE P			
		6	8	27 (1/8" N	I.P.T.) BRASS	1071903 (PLB-0007	7) 1
				28 SPRING		1074429 (426-SSB) 1
				29 0-RING		1071677 (ORB-025) 1
				[30]CAP	CAST BRASS	10/5632 (82/018)	1
				SPI	RING ASSIST OPE		
	(25)			31 CENTERIN	G WASHER BRASS	1074436 (426-V)	1
				JZ SPRING		10/8692	
				NOTE:			
1081151 (V82J-0110-90000) (3" NPT) 1081152	(V82J-0130-90000) (3" NPT) V82	J-0102-90000 (3" NPT)	1.	SPRING ASSIS	T CLOSED MOD	DEL
LIMIT STOP NOF	RMALLY CLOSED SPRI	NG ASSIST CLOS	FD		CANNOT BE C	OMBINED WITH	
	<u></u>				LIMIT STOP M	ODEL.	
(1/4" NPT)	REPAIR PARTS K	ITS					
	DESCRIPTION	PART NO.					
	INT. PARTS KIT (LIMIT STOP)	1074501 (427–LS)					
	CONSISTS OF ITEM NO'S 20,21,22						
	INT. PARTS KIT (NORM. CLOSED)		SE	E REVERS	SE SIDE FOR		
	CONSISTS OF ITEM NO'S	1075628 (827–RG)	SL	ANDARD I	NORMALLY OPE	N MODEL	
(32)	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
	INT. PARTS KIT (SPRING ASSIST CLOSED)	AV7-SC					
						FORM NO 107	7607
	INT. PARTS KIT (SPRING ASSIST OPEN)	1070520 (AV7-SO)				FURMINUL 107	/623
			F CHANG	ED SHAFT NU	TS & 1635	MSM 15DEC05	
				LD O-RING P			PVD
		ITE		DESCINI	ROCKFORD	OPERATIONS	
			48		2412 GRAN	AVENUE	
	DESCRIPTION	PART NU.		E Osmon	ROCKFORD	, IL 61103-3991	M
1077463(V82J-0101-90000)(3"NPT)	CONSISTS OF ITEM NO'S 20 THRU 23	1075625 (827–LSC)			(010) 904-94	21 WWWW.GEWATER.CO	-141
	CONVERSION KIT (SPRING ASSIST OLOSED)		SE	RIES 82 [.]	7 DIAPHRAC	SM VALVE	
SPRING ASSIST UPEN	CONSISTS OF ITEM NO'S 26 THRU 30	1075629 (827-SCC)				NT	
	CONVERSION KIT (SPRING ASSIST OPEN)	+		3" N.	P.T. OR B.S	.P.T.	
	CONSISTS OF ITEM NO'S 31,32	1070520 (AV7-SO)			DATE	DRAWING NO.	
			DRAWN			01 108/0	038 I
PRINTED IN U.S.A.				JVVD	IOWAT	01 10040	000

PART NO. QTY. ယ္ခ HIGH PRESSURE VALVE - OPTIONAL MODELS



REPAIR PARTS KITS							
DESCRIPTION	PAR	T NO.					
DIAPHRAGM & SFALS KIT	1070106 (AV1-RA)	1070498 (AV1-RAHT)					
CONSISTS OF ITEM NO'S 3(2),5,6,8(2),9,14,16	INCLUDES DISC 1074144 (421–JH), DIAPHRAGM 1074119	INCLUDES DISC 1074145 (421–JT), DIAPHRAGM 1074120					
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)					

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)					

INU.		DESCR		JN	1510	PART NU.	
1	BODY	CAST IR	ON	3/4" NPT 1" NPT	*	1074085 (421-A3) 1074088 (421-A4)	1
2	SEAT (REQ'S ASSY TOOL)			BRASS	*	1074158 (421-MO)	1
3	HEX N	UT (1/-	4-2	8)	*	1263852	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	ED TEFLON		1074145 (421–JT)	
7	DISC HOLDER			BRASS	*	1074126 (421-H)	1
8	GASKET			COPPER	*	1073948 (200-GG)	2
9	0-RING			FKM	*	1071803 (ORV-125)	1
10	SHAFT GUIDE (REQ'S ASSY TOOL)			BRASS	*	1074122 (421–GGO)	1
11	DIAPHF	RAGM PLA	ATE	BRASS	*	1074117 (421-D)	2
12	CAP		CA	ST IRON	*	1074093 (421-C)	1
13	HEX S 1/4"-	CREW 20	PLA	TED STEEL	. *	1072398 (SCZ-0004)	4
14				BUNA N	*	1074119	1
14		AGIVI		FKM		1074120	
15	HEX N 1/4"-	UT 20	PLA	TED STEEL	. *	1071656 (NUZ-0008)	4
16	0-RIN	G		AFLAS	*	1071661 (ORA-110)	1
17	SHAFT	(NORMAL	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.T. END CONNECTIONS.

SEE REVERSE SIDE FOR CONFIGURATION OPTIONS

FORM NO. 1077635

-								
F	CHANGED SHAFT NU UPDATED O-RING P	JTS & P/N'S	1635 1672	MSM	29DEC05			
REV	DESCRI	PTION	ECO	DWN	DATE	APVD		
Reckford operations GE Osmonics Rockford operations SERIES VAV1 DIAPHRAGM VALVE 3/4" & 1" N.P.T. OR B.S.P.T.								
DRAV	WN UA (D	DATE		DRA	WING NO.	204020		



3/4" & 1"

			NO.	DESCRIPTION	STD	PART NO. QTY] ယ
<u> </u>					CLOSED MODE	EL	Ä
(1/8" NPT)			22	(1/4" N.P.T.)	D STEEL * 1071	918 (PLZ-0008) 1	
			23	SHAFT (NORMALLY CL	OSED) * 107	4153 (421-LL) 1	
				SPRING ASSI	ST CLOSED MO	DEL	Xo
			24	CENTERING NUT	* 107 BRASS * 107	$\frac{4185}{4183}$ $\frac{421-X}{4183}$ $\frac{1}{1}$	┨、
			20	PIPE PLUG			
	"NPT) — \ \ C	CLOSED VALVES ONLY	20	(1/8" N.P.T.)	(ASS * 1071)	903 (PLB-0007) 1	
			27		* 107	674 (ORB-020) 1	
			29	CAP CAST	IRON * 1074	4099 (421–CC) 1	
		[] (26) ∖		SPRING ASS	IST OPEN MOD	EL	
		\mathbb{N}	4	DISC PLATE	BRASS * 107	74147 (421–K) 1	
			8			1073948 1	
		(28)					15
			/4" NPT)				>
1072462 (VAVB-0030-90000) (3/4" NPT)							
1072469 (VAVC-0030-90000) (1" NPT)			\ \				
NORMALLY CLOSED / \		\mathbf{N} / (4)	\backslash	SEE REVE	ERSE SIDE FO	OR	$ \geq$
				STANDAR	NORMALLY	OPEN MODEL	
∠ (1/8" N							
			Σ				I _
	1072461 (VAVB-0002-9000	00) (3/4" NPT)	$\sum I$				
	1072467 (VAVC-0002-9000	00) (1" NPT)	ζ_/				
SF	PRING ASSIST		W				
			V				
		∠ (1/8" NPT)					
]						-
DESCRIPTION	PART NO.	1070056 (VAVB-0001-90000) (3/4" NPT)				
INT. PARTS KIT (NORM. CLOSED)			, •				O
CONSISTS OF STANDARD	1070129 (421-RG)	SPRING ASSIST OPEN	<u>1</u>				
					FOR	RM NO. 1077635	
CONSISTS OF STANDARD ITEM NO'S 24,27,28	1074176 (421–SC)			GED SHAFT NUTS &	1635		12
INT. PARTS KIT (SPRING ASSIST OPEN)	1074178 (401 50)			TED O-RING P/N'S	1672 MS		
CONSISTS OF STANDARD ITEM NO'S 4,8,31	10/41/8 (421-50)		REV	DESCRIPTION		NN DATE APVD	-
			(es		2412 GRANT AVEN	IUE	\leq
			🧐 G	E Osmonics	ROCKFORD, IL 61	103-3991 WW GEWATER COM	
DESCRIPTION	PART NO.						$1 \mathbf{\Sigma}$
CONVERSION KIT (SPRING ASSIST CLOSED)	1074177 (421-500)		SER	RIES VAV1 DI	APHRAGM		
CONSISTS OF STANDARD ITEM NO'S 24 THRU 29	107 1177 (+21 300)			3/4" & 1" N P		РТ	
CONVERSION KIT (SPRING ASSIST OPEN)	1074179 (421–SOC)						1
CUNSISIS OF STANDARD ITEM NUS 4,8,10,31	· · ·		DRAWN	DATE	4 4 4 4 4 4 4 4 4 4 4		
RINTED IN U.S.A.				100R	14MAY01	1084039	ງທ



				NO.				
REPAIR PARTS KITS								
	DESCRIPTION	PART NO.	L	<u>'</u>				
		1070107 (AV4-RA) 1070502 (AV4-RAHT)		2				
	CONSISTS OF ITEM NO'S	INCLUDES INCLUDES	L	2				
		DISC 1074234 (424–JH), DISC 1074235 (424–JT),	L	3				
	0,0,0,0,0,12,10,10,10			4				
		10/4222 (424-FB) 10/4224 (424-FV)	Ι	5				
	INT. PARTS KIT (NORM. OPEN) CONSISTS OF STANDARD ITEM NO'S 4,7,10,11(2),19	1070119 (424–RF)		6				
	SEAT (ITEM NO. 2)	1074245 (424-MO)		7				
				-				

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)					

NOTE:

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25.4

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

1 2 3 4 5	BODY SEAT (REQ'S HEX N DISC P	CAST IR ASSY TO UT (1/-	ON OL) 4–28	1-1/4" NPT 1-1/2" NPT BRASS	* * *	1074196 (424–A5) 1074199 (424–A6) 1074245 (424–M0)	1
2 3 4 5	SEAT (REQ'S HEX N DISC P	ASSY TO	OL) 4-28	1-1/2" NPT BRASS	*	1074199 (424–A6)	1
2 3 4 5	SEAT (REQ'S HEX N DISC F	ASSY TO UT (1/-	OL) 4-28	BRASS	*	1074245 (424-MO)	1
3 4 5	HEX N DISC F	UT (1/- 2LATE	4–28			1074240 (424 10)	
4 5	DISC F	PLATE		3)	*	1263852	1
5				BRASS	*	1074237 (424-K)	1
		3		FKM	*	1071793 (ORV-028)	1
I			HYC/	٩R	*	1074234 (424–JH)	
6	DISC		AFL/	łS			1
		GLASS I	FILLE	D TEFLON		1074235 (424-JT)	
7	DISC H	IOLDER		BRASS	*	1074229 (424-H)	1
8	GASKET	Г		COPPER	*	1073948 (200-GG)	1
9				FKM	*	1071806 (ORV-132)	1
10	SHAFT (REQ'S	SHAFT GUIDE REQ'S ASSY TOOL)		BRASS	*	1074225 (424–GGO)	1
11	DIAPHR	AGM PLA	ιΤΕ	BRASS	*	1074220 (424-D)	2
12	HEX N	UT (5/	16-2	24)	*	1263853	1
13	CAP		CA	ST IRON	*	1074202 (424-C)	1
14	HEX S 1/4"—:	CREW 20	PLA	TED STEEL	*	1072399 (SCZ-0007)	4
15				BUNA N	*	1074222 (424-FB)	1
13	DIAPHRAGM		FKM		1074224 (424-FV)	1	
16	GASKE	(ET		COPPER	*	1074252 (424-R)	1
17	HEX NUT 1/4"-20 PLA		TED STEEL		1071656 (NUZ-0008)	4	
18	0-RIN	3		AFLAS	*	1071661 (ORA-110)	1
19	SHAFT	(NORMAL	LY	OPEN)	*	1074239 (424-L)	1

STD PART NO.

QTY.

DESCRIPTION

SEE REVERSE SIDE FOR CONFIGURATION OPTIONS

FORM NO. 1077636

Е	CHANGED SHAFT N UPDATED O-RING F	UTS & P/N'S	1635 1672	MSM	29DEC05			
REV	DESCRI	PTION	ECO	DWN	DATE	APVD		
Ø	GE Osmo	nics (ROCKFORD O 412 GRANT A ROCKFORD, II 815) 964-9421	PERATIO VENUE L 61103- WWW	ONS 3991 '.GEWAT	ER.COM		
	SERIES AV4 DIAPHRAGM VALVE 1 1/4" & 1 1/2" N.P.T. OR B.S.P.T.							
DRAV	JWB	DATE 1	4May0		wing no. 1(084040		



PRINTED IN U.S.A.

-1/4" & 1-1/2" AIR VALVE STANDARD MODEL

		NO. DESCRIPTION STD PART NO.	QTY
		NORMALLY CLOSED MODEL	
(1/8" NPT)		24 PIPE PLUG PLATED STEEL * 1071918 (PLZ-000 25 SHAFT (NORMALLY CLOSED) * 1074241 (424-LL)	
		SPRING ASSIST CLOSED MODEL	
		26 CENTERING NUT * 1074276 (424-X)	
		27 RETAINER NUT BRASS * 1074274 (424-TT	
	- USED WITH NORMALLY	28 (1/8" N.P.T.) BRASS * 1071903 (PLB-000	7) 1
Here and the second	CLOSED VALVES UNLI	29 SPRING * 1074270 (424–SS	
	T	30 O-RING * 1071674 (ORB-020 31 CAP CAST IRON * 1074208 (424-CC	$\frac{n}{n+1}$
	K 28	SPRING ASSIST OPEN MODEL	
		16 GASKET COPPER * 1074252 (424-R	
	29	32 SPRING * 1236766	
	(30)	33 CENTERING WASHER BRASS * 1074382 (426-HA	
		4"NPT)	
VAVD-0030-90000 (1-1/4" NPT)		SEE REVERSE SIDE FOR	
1072479 (VAVE-0030-90000) (1-1/2" NPT)		STANDARD NORMALLY OPEN MODE	
NORMALLY CLOSED			
∠ (1/8″ NPT)			
		2	
1072472 (VAVD-0002-5	0000) (1-1/4" NPT)	2	1
1072477 (VAVE-0002-S	0000) (1-1/2" NPT)		
SPRING ASSI	ST CLOSED	<i>y</i>	
	∠ (1/8" NPT)		
REPAIR PARTS KITS		A.	1
DESCRIPTION PART NU.	10/24/1 (VAVD-0001-90000) (1-1/4" NP 1070064 (VAVE-0001-90000) (1-1/2" NP)	
CONSISTS OF STANDARD 1070130 (424–		1	
ITEM NO'S 4,7,10,11(2),25			
INT. PARTS KIT (SPRING ASSIST CLOSED) 1074265 (424-	sc)	FORM NO. 107	7636
		CHANGED SHAFT NUTS & 1635 MCN 200FC05	$\neg \epsilon$
CONSISTS OF STANDARD ITEM NO'S 16,32,33	50)	UPDATED O-RING P/N'S 1672 MISM 290E000	
		2412 GRANT AVENUE	
CONVERSION KITS		GE Osmonics ROCKFORD, IL 61103-3991 (815) 964-9421 WWW.GEWATER.C	л
DESCRIPTION PART	NO.		
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 26 THRU 31	scc)	SERIES AV4 DIAPHRAGM VALVE	
CONVERSION KIT (SPRING ASSIST OPEN)		1 1/4" & 1 1/2" N.P.T. OR B.S.P.T.	
CONSISTS OF STANDARD ITEM NO'S 10,16,32,33 1074269 (424-	SOC)		— ⊣ !!!
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PRINTED IN U.S.A.			\sim



				Ι	NO.			
	REPAIR PARTS KITS							
	DESCRIPTION	PART NO.						
		1070108 (AV5-RA)	1070503 (AV5-RAHT)	ļ	~			
	CONSISTS OF ITEM NO'S	INCLUDES	INCLUDES		3			
3(2		DISC 1074310 (425–JH),	DISC 1074311 (425–JT),	l	4			
5(2),0,0,0(2),3,1+,10(2)			L	5			
		10/4296 (425-FB)	10/429/ (425-FV)	I				
INT. CON	PARTS KIT (NORM. OPEN) NSISTS OF STANDARD	1070504	(AV5–RF)		6			
ITEN	/ NO'S 4,7,10,17,18,19,20							
SEA	T (ITEM NO. 2)	1074321 ((425-MO)	Į	8			

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)						

1	BODY	CAST IR	NC	2" 1	NPT	*	1074277 (425-A)	1
2	SEAT (REQ'S ASSY TOOL)		BRA	SS	*	1074321 (425-MO)	1	
3	HEX NU	JT (5/'	16-	24)		*	1263853	2
4	DISC P	LATE		BRA	SS	*	1074313 (425-KA)	1
5	0-RING	•		FKN	٨	*	1071794 (ORV-035)	1
			HYC	AR		*	1074310 (425–JH)	
6	DISC		AFL	AS				1
		GLASS F	FILLI	ED TEF	LON		1074311 (425–JT)	
7	DISC H	OLDER		BRA	SS	*	1074304 (425-HA)	1
8	0-RING	;		VITC	N	*	1071786 (ORV-011)	2
9	0-RING	;		VITC	N	*	1071795 (ORV-038)	1
10	SHAFT (REQ'S	SHAFT GUIDE (REQ'S ASSY TOOL) BRASS		SS	*	1074298 (425–GAO)	1	
12	CAP		CA	AST IRO	DN	*	1074281 (425-C)	1
13	HEX SC 5/16"-	CREW -18	PLA	TED S	TEEL	*	1072400 (SCZ-0013)	6
14	DIAPHR	AGM		BUNA N		*	1074296 (425-FB)	1
15	HEX NUT 5/16"-18 PLAT		TED S	TEEL	*	1071657 (NUZ-0011)	6	
16	0-RING	;		AFLA	١S	*	1071664 (ORA-206)	2
17	SHAFT (NORMALLY OPEN)			*	1074315 (425-LAA)	1		
18	DISC S	PACER		BRA	SS	*	1074382 (426-HA)	1
19	UPPER	DIAPHRA	GM	PLATE		*	1074294 (425-DA)	1
20	LOWER	DIAPHRA	GM	PLATE		*	1074295 (425-DAA)	1

STD PART NO.

QTY.

DESCRIPTION



NOTE:

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

SEE REVERSE SIDE FOR CONFIGURATION OPTIONS

FORM NO. 1077637

F	CHANGED SHAFT NU	JTS &		1635 1672	MSM	29DEC05			
REV	DESCRI			FCO	DWN	DATE	APVD		
	DEGOIN		BOCK		PERATIO		74 10		
l Co					12 GRANT AVENUE				
00					61103-	3991			
V	A DE ASILIA	nigə	(815)	964 - 9421	WWW	.GEWA1	FER.COM		
SERIES AV5 DIAPHRAGM VALVE 2" N.P.T. OR B.S.P.T.									
					DRA	WING NO.			
DRAV	JWB	DATE	14N	/AYO)1	1(084041		

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		NO	. DESC	RIPTION	STD	PART NO. Q	TY.
			NORI	MALLY CLOS		IODEL	<u> </u>
		23	PIPE PLUG	PLATED STEE	L *	1071918 (PLZ-0008)	1
		24	SHAFT (NORM	ALLY CLOSED)	*	1074318 (425–LLA)	1
(1/4" NPT)			SPRING	ASSIST CL	OSED	MODEL	\neg
		25	CENTERING W	ASHER	*	1074083 (421-AH)	
	(USED WITH NORMALLY	26	RETAINER NUT	BRASS	*	1074431 (426-TTA)	
	CLOSED VALVES ONLY)	27	PIPE PLUG (1/8" N.P.T.)	BRASS	*	1071903 (PLB-0007)	
		28			*	1074429 (426–SSB)	<u>1</u> <
		30		CAST IRON	*	1071677 (URB-025)	
			SPRIN	G ASSIST O		MODEL	⊣∠
		31	SPRING		*	1078692	
		32	CENTERING WA	SHER BRASS	*	1074436 (426–V)	
(1/4" NPT)							⊣mì
	(1/4" NPT)	`	SEE	E REVERSE	SID	E FOR	
NORMALLY CLOSED		\backslash	517	ANDARD NU	JRMA	LLY OPEN MODEL	· •
∠ (1/4" NPT)							
1072485 (VAVF-0002-90	000) (2" NPT)	/					
SPRING ASSIST	<u>SLOSED</u>	/					
	2 (1/4" NPT)						
CONVERSION KITS	1072484 (VAVE_0001_90000) (2" N	PT)					
		,					
CONVERSION KIT (SPRING ASSIST CLOSED) [1070507 (AV5-SCO CONSISTS OF STANDARD ITEM NO'S 25 THRU 30	SPRING ASSIST OPEN						
CONVERSION KIT (SPRING ASSIST OPEN) 1070508 (AV5-S0)					FORM NO. 107763	57
CONSISTS OF STANDARD TIEM NO S 31,32			IGED SHAFT NU	TS &	1635	MSM 29DEC05	~ ~
REPAIR PARTS KITS	7 [REV	DESCRIP	TION	ECO	DWN DATE APVD	$\exists \geq$
DESCRIPTION PART NO.		6.0.0		ROC 2412	KFORD GRANT		
INT. PARTS KIT (NORM. CLOSED)		1	GE Osmor	ROC	KFORD,	IL 61103-3991	
ITEM NO'S 4,7,10,18,19,20,24	·			(815)	964-944	21 WWW.GEWATER.COM	$\dashv \mathbf{\nabla}$
INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 25,28,29		SE		5 DIAPH	RAC		
INT. PARTS KIT (SPRING ASSIST OPEN) 1070508 (AV5-S0			2" N	P.T. OR	B.S.	.P.T.	
CONSISTS OF STANDARD ITEM NO'S 31,32		DRAWN		DATE		DRAWING NO.	ງ ທ
PRINTED IN U.S.A.			JWB	14N	ΛAΥ	01 108404	



and a second	
25 0.0 426-A	DI. C(3(
	IN CC ITE
	SE
<u>- 3.88</u> <u>- 1.75</u> 98.4 <u>44.5</u>	

		NO.						
REPAIR P	REPAIR PARTS KITS							
DESCRIPTION	PART NO.	Ľ'						
DIAPHRAGM & SEALS KIT CONSISTS OF ITEM NO'S 3(2).5.6.8(2).9.14.16(2)	1070109 (AV6-RA) 1070510 (AV6-RAHT) INCLUDES INCLUDES	2						
	DISC 1074392 (426-JH), DISC 1074393 (426-JT),	3						
	1074374 (426–FB) 1074376 (426–FV)	4						
INT. PARTS KIT (NORM. OPEN) CONSISTS OF STANDARD ITEM NO'S 4,7,10,17,18,19,20	1070511 (AV6-RF)	6						
SEAT (ITEM NO. 2)	1074407 (426-MAO)	7						
	· · · · · · · · · · · · · · · · · · ·	10						

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						

4	BODY			2" NPT	*	1074343 (426-A8)	4
	ворт	CAST IR	ON	2-1/2" NPT		1081559 (426-A10)	-
2	SEAT (REQ'S	ASSY TO	OOL)	BRASS	*	1074407 (426-MAO)	1
3	HEX N	IUT (5/	16–	-24)	*	1263853	2
4	DISC F	PLATE		BRASS	*	1074396 (426-KA)	1
5	0-RIN	G		FKM	*	1071795 (ORV-038)	1
			HYC	CAR	*	1074392 (426–JH)	
6	DISC		AFL	_AS			1
		GLASS	FILL	ED TEFLON		1074393 (426-JT)	
7	DISC +	IOLDER		BRASS	*	1074383 (426-HAA)	1
8	0-RING			FKM	*	1071786 (ORV-011)	2
9	0-RING FKM *				*	1071826 (ORV-233)	1
10	SHAFT (REQ'S	GUIDE	OL)	BRASS	*	1074377 (426–GAO)	1
12	CAP CA			AST IRON	*	1081560 (426-C)	1
13	HEX SCREW 5/16"-18 PL4		ATED STEEL	*	1072401 (SCZ-0015)	6	
14		PACM		BUNA N	*	1074374 (426-FB)	1
14			FKM		1074376 (426-FV)	'	
15	HEX NUT		ATED STEEL	*	1071657 (NUZ-0011)	6	
16	0-RIN	G		AFLAS	*	1071662 (ORA-114)	2
17	SHAFT	(NORMA	LLY	OPEN)	*	1074401 (426-LAA)	1
18	DISC S	SPACER		BRASS	*	1074382 (426-HA)	1
19	UPPER	DIAPHR	AGM	PLATE	*	1074371 (426-DA)	1
20	LOWER	DIAPHR	AGM	PLATE	*	1074372 (426-DAA)	1

STD

PART NO.

QTY.

N

DESCRIPTION

NOTE:

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

2. VALVES AVAILABLE WITH B.S.P.T. END CONNECTIONS.

SEE REVERSE SIDE FOR CONFIGURATION OPTIONS

FORM NO. 1077638

Е	CHANGED SHAFT NU UPDATED O-RING P	TS & /N'S	1635 1672	MSM	29DEC05	
REV	DESCRIF	TION	ECO	DWN	DATE	APVD
	GE Osmon SERIES AV 2"	nics 16 DIAPH & 2 1/2"	CKFORD OF 2 GRANT A CKFORD, IL) 964-9421 N.P.1	PERATIO VENUE 61103 WWW MWW	0NS 3991 7.GEWAT ALV	rer.com Æ
DRAV	JWB	date 15	MAY0	DRA	wing no. 1(084042



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─ (1/4" NPT)

		SPRING A	SSIST CLOSED MODEL	
		26 RETAINER NUT	BRASS * 1074431 (426-T	TA) 1
	(USED WITH NORMALLY	27 PIPE PLUG (1/8" N.P.T.)	BRASS * 1071903 (PLB-00	007) 1
		29 0-RING	* 1071677 (ORB-0	$\frac{36}{25}$ 1
	(1/8" NPT)	30 CAP	CAST IRON * 1074352 (426-0	C) 1
		SPRING	ASSIST OPEN MODEL	
		31 SPRING	* 1078692	
		32 CENTERING WASHE	R BRASS * 1074436 (426–	V) 1
(1/4" NPT)		∠(1/4"NPT)		
VAVG-0030-90000 (2" NPT)				
080794 (VAVH-0030-90000) (2-1/2" NPT)		\mathbf{i}		
NORMALLY CLOSED		\backslash		
		\frown		
		(31)		
∠ (1/4" NPT)				
1077120 (VAVG-0	102-90000) (2" NPT)	× 1		
VAVH-0002-90	000 (2-1/2" NPT)			
SPRING AS		SEE RE	VERSE SIDE FOR	
		STANDA کار	RD NORMALLY OPEN MO	DEL
	∠ (1/4" NPT)			-
REPAIR PARTS KITS				
DESCRIPTION PART NO.	1072491 (VAVG-0001-90000) (2	2"NPT)		
INT. PARTS KIT (NORM. CLOSED)	10/2497 (VAVH-0001-90000) (2-1	1/2" NPT)		
CONSISTS OF STANDARD 1070512 (AV6-RG)	SPRING ASSIST OPE	EN		
ITEM NO'S 4,7,10,18,19,20,24				
INT. PARTS KIT (SPRING ASSIST CLOSED) 1070513 (AV6-SC)			FORM NO. 10	77638 🛛 🗧
CONSISTS OF STANDARD ITEM NO'S 28,29	Γ	CHANGED SHAFT NUTS &	1635 MSM 200EC05	
INT. PARTS KIT (SPRING ASSIST OPEN) 1070515 (AV6-S0)	_	UPDATED O-RING P/N'S	1672 10131012502005	
CONSISTS OF STANDARD TIEM NO'S 31,32	-	REV DESCRIPTION		APVD •
		(a)	2412 GRANT AVENUE	
CONVERSION KITS		GF Asmonics	ROCKFORD, IL 61103-3991	
DESCRIPTION PA	IT NO.		(815) 964-9421 WWW.GEWATER.	СОМ
CONVERSION KIT (SPRING ASSIST CLOSED)	-500)			
CONSISTS OF STANDARD ITEM NO'S 26 THRU 30 1070514 (AV	-300)	JENIES AVOL		
CONVERSION KIT (SPRING ASSIST OPEN)	- 50)	2" & 2	2 1/2" N.P.T.	
CONSISTS OF STANDARD ITEM NO'S 31,32	-30)			¦
		DRAWN DAT	E DRAWING NO.	
				1010

NO.

DESCRIPTION

STD

NORMALLY CLOSED MODEL

 23
 PIPE
 PLUG
 PLATED
 STEEL
 *
 1071918
 (PLZ-0008)
 1

 24
 SHAFT
 (NORMALLY
 CLOSED)
 *
 1074403
 (426-LLA)
 1

PART NO.

QTY.



R VALV S TANDARD MODE

		NO.	DESCRIPTION	STD PART NO. QT	Υ.
			NORMALLY CLOS	SED MODEL] ເມ
(1/4" NPT)		24	PIPE PLUG (1/4" N P T)	L * 1071918 (PLZ-0008) 1	
		25	SHAFT (NORMALLY CLOSED)	* 1074499 (427-LL) 1	
			SPRING ASSIST CL	OSED MODEL	
		27	RETAINER NUT BRASS	* 1074431 (426-TTA) 1	⊣∠
		28	(1/8" N.P.T.) BRASS	* 1071903 (PLB-0007) 1	
(1/8" NPT		29	SPRING	* 1074429 (426-SSB) 1	
	CLOSED VALVES ONLY)	30	CAP CAST IRON	* 1071677 (URB-025) 1 * 1074460 (427-CC) 1	
			SPRING ASSIST O	PEN MODEL	1 >
		32	SPRING	* 1078692 1	
		33	CENTERING WASHER BRASS	* 1074436 (426-V) 1	
	(1/4" NPT)	(1 /4" NPT)			
L (1/4" NPT)					
VAVJ-0030-90000 (IHREADED) VAVJ-3030-90000 (FLANGED)	(31)				
NORMALLY CLOSED		\mathcal{N}			
		\mathcal{Y}			1
			SEE REVERSE SIDE	FOR	
∠ (1/4" NPT)			STANDARD NORMALL	Y OPEN MODEL	
VAVJ-0002-90	000 (THREADED)				
1080797 (VAVJ-300	2–90000) (FLANGED)	$\overline{\Lambda}$			
SPRING AS	SIST CLOSED	7			
		y			
REPAIR PARTS KITS					\square
DESCRIPTION PART NO.		ED)			
INT. PARTS KIT (NORM. CLOSED)		,			
ITEM NO'S 4,7,10,11,18,20,21,25	SPRING ASSIST OF EN				
INT. PARTS KIT (SPRING ASSIST CLOSED)		i	i		<u>'</u>
CONSISTS OF STANDARD ITEM NO'S 29,30		F SHAFT	PART NO. WAS 1074500	1695 MSM 31JUL06	
INT. PARTS KIT (SPRING ASSIST OPEN) 1070520 (AV7-SO		REV	DESCRIPTION	ECO DWN DATE APVD	\leq
CONSISTS OF STANDARD TIEM NO S 32,33		GE			
		Water	& Process Techr	nologies	\square
CONVERSION KITS		2412 GRANT AV	ENUE, ROCKFORD, ILLINOIS 61103-	3991 (815) 964–9421 www.gewater.co	
	<u>NO.</u>	SEE			
CONVERSION KIT (SPRING ASSIST CLOSED) 1070519 (AV7- CONSISTS OF STANDARD ITEM NO'S 27 THRU 31	-scc)	JEF			
CONVERSION KIT (SPRING ASSIST OPEN)	-50)		STANDARD N	MODEL	
CONSISTS OF STANDARD ITEM NO'S 32,33		DRAWN	DATE	DRAWING NO.	1 (V)
PRINTED IN U.S.A.			JWB 15M	1AY01 1084043	



				NO	. DESCRIP	TION STD	PART NO.	QTY
√(1/4" NPT)					NORMA	LLY CLOSED MC	DDEL	
1/8" NPT)				24	PIPE PLUG	PLATED STEEL * 10)71918 (PLZ-0008)	1
				25	(1/4" N.P.T.)		074582 (428-114)	
				20				<u> </u>
				27	RETAINER NUT		1074609 (428-TT)	1
				2,	PIPE PLUG			
	$(1/8^{\circ} \text{ NPT}) \longrightarrow \nabla C$	ED WITH NORMALLY		28	(1/8" N.P.T.)	BRASS * 10	71903 (PLB-0007)	1
				29	SPRING	* 1	074601 (428-SB)	1
		\ <u>_</u>		30		* 1(CAST IPON * 1	$\frac{071677}{074540}$ (0RB-025)	
					SPRING			<u> </u>
		\mathcal{A}		[32		× 1(074605 (428-SOA)	1
	(27)							<u> </u>
	(30)	(∛ (28) ∖			SEE REVERSE	SIDE FOR		
					STANDARD NO	ORMALLY OPEN	N MODEL	
	NO BE- ITA	(29)						
VAVK-3030-90000				、 、				
	No 1	(31)	$\sim (1/4" \text{ NPT})$	X				
NORMALLICLOSED	a la M		to All to A	\backslash				
		\otimes / ∂		\sim /				
				シ \				
	1070516 (14)44 7001			> /				
	1072516 (VAVK-3002	-90000)		∞				
<u>S</u>	PRING ASSIST	<u>CLOSED</u> / \land						
		/	NY NA 11-4	V				
REPAIR PARTS KIT	ſS	^ل (1/4"	NPT)					
DESCRIPTION	PART NO.							
INT. PARTS KIT (NORM. CLOSED)			1072514 (VAVK-3001-90000)					
ITEM NO'S 4,7,10,11,18,19,20,25	1070523 (AV8-RG)		SPRING ASSIST OPE	N				
INT. PARTS KIT (SPRING ASSIST CLOSED)	1070524 (4)/8 50)			<u> </u>				
CONSISTS OF STANDARD ITEM NO'S 29,30	10/032+ (AV0-30)			[] [FC	ркм NO. 10776	540
INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO. 32	1070526 (AV8-S0)				GED SHAFT NUTS & TED O-RING P/N'S	k 1635 1672	MSM 29DEC05	
	<u> </u>			REV	DESCRIPTION	EC0	DWN DATE AP	/D
						ROCKFORD OP	ERATIONS	
CONVERSION K	ITS			- 1 🧐 G	E Osmonic	ROCKFORD, IL	61103-3991	
DESCRIPTION	PART NO.					- (815) 964-9421	www.gewAler.com	
CONVERSION KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 27 THRU	J 31 1070525 (AV8-SCC)			SE	RIES AV8 I	DIAPHRAGI	M VALVE	
CONVERSION KIT (SPRING ASSIST OPEN)	1070526 (AV8-SO)				4" N.P.	T. OR B.S.P	Р.Т.	
CONSISTS OF STANDARD ITEM NO. 32					I		DRAWING NO	
				DRAWN			1 100/0	ЛЛ
IN U.S.A.					JAAR	141VIAY0	1 10040	44

ASSEMBLY TOOI	LS	
DESCRIPTION	PART NO.	
FOR INSTALLATION & REMOVAL OF SEAT (ITEM #2) (TOOL NOT SHOWN)	1074161 (421-MT)	DIAPH
FOR INSTALLATION & REMOVAL OF SHAFT GUIDE (ITEM #10) (TOOL NOT SHOWN)	1074124 (421-GT)	3(2),
		INITEE

REPAIR PARTS KITS							
DESCRIPTION	PART NO.						
	1074679 (4421-RAE)	1074681 (4421-RAVEV)	1074680 (4421-RAV)				
DIAPHRAGM & SEALS KIT CONSISTS OF ITEM NO'S 3(2),5,6,8(2),9,14,16,19	E.P.D.M. INCLUDES DIAPHRAGM 1074119 (421-FB)	FKM INCLUDES DIAPHRAGM 1074120 (421-FV)	FKM INCLUDES DIAPHRAGM 1074119 (421-FB)				
INTERNAL PARTS KIT CONSISTS OF ITEM NO'S 4,7,10,11(2),15,17,18	1074683 (4421–RF)						
SEAT (ITEM NO. 2)	107	4158 (421-	MO)				

NOTE:

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



NO.	DESCRIP IION				SID	PART NO.	QI		
1	BODY	CAST	r iro	N	3/4	NPT	*	1074085 (421-A3) 1074088 (421-A4)	1
2	SEAT (REQ'S	ASSY	′ TOO	L)	BI	RASS	*	1074158 (421-MO)	1
3	HEX N	IUT (ʻ	1/4-	28)		*	1263852	1
4	DISC I	PLATE			BI	RASS	*	1074147 (421-K)	1
F		~			E.P	.D.M.	*	1071721 (ORE-024)	1
э		6		Γ	F	КМ		1071791 (ORV-024)	1 '
6	DICO				E.P	.D.M.	*	1074143 (421-JE)	4
P	DISC			Γ	F	КМ		1074146 (421-JV)	1 '
7	DISC	HOLDE	ĒR		B	RASS	*	1074126 (421-H)	1
8	GASKE	T			CO	PPER	*	1073948 (200-GG)	2
•		~		Т	E.P	.D.M.	*	1071732 (ORE-125)	1
9		6		Γ	F	КМ		1071803 (ORV-125)	1'
10	SHAFT GUIDE (REQ'S ASSY TOOL) BRA			RASS	*	1074122 (421–GGO)	1		
11	DIAPH	RAGM	PLAT	Έ	B	RASS	*	1074117 (421-D)	2
12	TOP C	AP		CA	ST I	RON	*	1074671 (4421-CD)	1
13	вотто	M CA	P	CA	I TSK	RON	*	1074667 (4421-C)	1
14		RACM			BUI	NA N	*	1074119	1
17					F	КМ		1074120	<u>'</u>
15	SHAFT						*	1074676 (4421–L)	1
16	0-RIN	G			BUI	NA N	*	1071671 (ORB-016)	1
17	GUIDE	BUSH	HING				*	1074666 (4421-BD)	1
18	RETAIN	IING F	RING				*	1074678 (4421-N)	1
10		c			E.P	.D.M.	*	1071726 (ORE-110TC)	2
19		0			F	KM		1239021 (ORV-110)	2
20	TUBE	FITTIN	G				*	1074040 (348–Z)	1
21	STAND	OFF					*	1074675 (4421–E)	4
22	HEX N	IUT	F	۲LA	TED	STEEL	*	1071656 (NUZ-0008)	8
23	HEX L	OCK	NUT	(1/4-	-28)	*	1263852	1
23	HEX L	OCK	NUT	(1/4-	-28)	*	1263852	

1635 1672

ROCKFORD OPERATIONS

ROCKFORD, IL 61103-3991

2412 GRANT AVENUE

06AUG01

3/4" & 1" N.P.T. OR B.S.P.T.

DATE

JWB

DESCRIPTION

FORM NO. 1078217

APVD

1084025

MSM 05JAN06

ECO DWN DATE

(815) 964-9421 WWW.GEWATER.COM

DRAWING NO.

		NO. DESCRIPTION STD PART NO. QTY.
		LIMIT STOP MODEL
		23 SCREW * 1072361 (SCS-0030) 1
(23)		24 O-RING * 1071668 (ORB-012) 1
		25 HEX NUT * 1077534 (400-H) 1
		26 TOP CAP CAST IRON * 1074673 (4421-CE) 1
		SPRING ASSIST CLOSED MODEL
		27 CENTERING PLATE * 1074664 (4421-BA) 1
		28 SPRING * 1075122 (524–S) 1
		SPRING ASSIST OPEN MODEL
		27 CENTERING PLATE * 1074664 (4421-BA) 1
		29 SPRING * 1074175 (421–SB) 1
		NOTE:
		1. FOR SPRING ASSIST OPEN VALVES, RETAINING
		GROOVE ON SHAET FOR ALL OTHER VALVE
		MODELS, IT SHOULD BE IN LOWER GROOVE.
	MAN RETTY /	\mathbf{h}
1077429 (V44B-0010-10000) (3/4" NPT)	₩ 7%₩ ₩ [∞] /////(18)	REF.
1081108 (V44C-0010-10000) (1" NPT)		
LIMIT STOP		
(18) REF.		
<u> </u>		
		(27)
	V44B-0002-10000 (3/4" NPT)	
10	73207 (V44C-0002-10000) (1" NPT)	
REPAIR PARTS KITS		
REPAIR PARTS KITS DESCRIPTION PART N INT_PARTS KIT (LIMIT_STOP) PART N	NO. 1077427 (V	/44B-0001-10000) (3/4" NPT)
REPAIR PARTS KITS DESCRIPTION PART N INT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 23,24,25 1074154	NO. (421–LS) 1077427 (V 1073206 (V	/44B-0001-10000) (3/4" NPT) /44C-0001-10000) (1" NPT)
REPAIR PARTS KITS DESCRIPTION PART N INT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 23,24,25 INT. PARTS KIT (SPRING ASSIST OF OCCED) INT. PARTS KIT (SPRING ASSIST OF OCCED)	NO. (421–LS) 1077427 (V 1073206 (V SPR	/44B-0001-10000) (3/4" NPT) /44C-0001-10000) (1" NPT) ING ASSIST OPEN
REPAIR PARTS KITS DESCRIPTION PART N INT. PARTS KIT (LIMIT STOP) 1074154 1074154 INT. PARTS KIT (SPRING ASSIST CLOSED) 1074684 (CONSISTS OF STANDARD ITEM NO'S 27.28 1074684 (NO. (421–LS) (4421–SC) 1077427 (V 1073206 (V SPR	/44B-0001-10000) (3/4" NPT) /44C-0001-10000) (1" NPT) ING ASSIST OPEN
REPAIR PARTS KITS DESCRIPTION PART N INT. PARTS KIT (LIMIT STOP) 1074154 1074154 INT. PARTS KIT (SPRING ASSIST CLOSED) 1074684 (CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (NO. (421–LS) (4421–SC) (4421–SC)	/44B-0001-10000) (3/4" NPT) /44C-0001-10000) (1" NPT) ING ASSIST OPEN FORM NO. 1078217
REPAIR PARTS KITS DESCRIPTION PART N INT. PARTS KIT (LIMIT STOP) 1074154 CONSISTS OF STANDARD ITEM NO'S 23,24,25 1074154 INT. PARTS KIT (SPRING ASSIST CLOSED) 1074684 (CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (INT. PARTS KIT (SPRING ASSIST OPEN) 1074685 (CONSISTS OF STANDARD ITEM NO'S 27,28 1074685 (NO. (421–LS) (4421–SC) (4421–SO)	/44B-0001-10000) (3/4" NPT) /44C-0001-10000) (1" NPT) ING ASSIST OPEN FORM NO. 1078217
REPAIR PARTS KITSDESCRIPTIONPART NINT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 23,24,251074154INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 27,281074684 (INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 10,29,311074685 (NO. (421–LS) (4421–SC) (4421–SO)	/44B-0001-10000) (3/4" NPT) /44C-0001-10000) (1" NPT) ING ASSIST OPEN FORM NO. 1078217 F CHANGED SHAFT NUTS & 1635 UPDATED O-RING P/N'S 1672 MSM 05JAN06
REPAIR PARTS KITSDESCRIPTIONPART NINT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 23,24,251074154INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 27,281074684 (INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 10,29,311074685 (NO. (421–LS) (4421–SC) (4421–S0)	(44B-0001-10000) (3/4" NPT) (44C-0001-10000) (1" NPT) ING ASSIST OPEN FORM NO. 1078217 F CHANGED SHAFT NUTS & 1635 UPDATED O-RING P/N'S 1635 1672 MSM 05JAN06 REV DESCRIPTION ECO DWN DATE APVD
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REPAIR PARTS KITS DESCRIPTION PART N INT. PARTS KIT (LIMIT STOP) 1074154 CONSISTS OF STANDARD ITEM NO'S 23,24,25 1074154 INT. PARTS KIT (SPRING ASSIST CLOSED) 1074684 (CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (INT. PARTS KIT (SPRING ASSIST OPEN) 1074685 (CONSISTS OF STANDARD ITEM NO'S 10,29,31 1074685 (NO. (421–LS) (4421–SC) (4421–SO) PART NO.	/44B-0001-10000) (3/4" NPT) /44B-0001-10000) (1" NPT) ING ASSIST OPEN F CHANGED SHAFT NUTS & 1635 1672 MSM 05JAN06 REV DESCRIPTION ECO DWN DESCRIPTION ECO CHANGED SHAFT NUTS & 1672 MSM 05JAN06 REV DESCRIPTION ECO DWN DATE APVD ROCKFORD OPERATIONS 2412 GRANT AVENUE DOCKFORD NUE DOCKFORD NUE
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REPAIR PARTS KITS DESCRIPTION PART N INT. PARTS KIT (LIMIT STOP) 1074154 CONSISTS OF STANDARD ITEM NO'S 23,24,25 1074154 INT. PARTS KIT (SPRING ASSIST CLOSED) 1074684 (CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (INT. PARTS KIT (SPRING ASSIST OPEN) 1074685 (CONSISTS OF STANDARD ITEM NO'S 10,29,31 1074685 (CONSISTS OF STANDARD ITEM NO'S 10,29,31 CONVERSION KITS DESCRIPTION CONVERSION KIT (LIMIT STOP) CONVERSION KIT (LIMIT STOP) CONVERSION KIT (SPRING ASSIST CLOSED) CONVERSION KIT (SPRING ASSIST CLOSED)	NO. (421-LS) (4421-SC) (4421-SC) (4421-SC) PART NO. (4421-LSC) A (4421-SC) SEE REVERSE SIDE FOR	(44B-0001-10000) (3/4" NPT) (44C-0001-10000) (1" NPT) ING ASSIST OPEN FORM NO. 1078217 F CHANGED SHAFT NUTS & 1635 UPDATED O-RING P/N'S 1635 1672 MSM 05JAN06 REV DESCRIPTION ECO DWN DATE APVD Image: Comparison of the second
REPAIR PARTS KITS DESCRIPTION PART N INT. PARTS KIT (LIMIT STOP) 1074154 CONSISTS OF STANDARD ITEM NO'S 23,24,25 1074154 INT. PARTS KIT (SPRING ASSIST CLOSED) 1074684 (CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (INT. PARTS KIT (SPRING ASSIST OPEN) 1074685 (CONSISTS OF STANDARD ITEM NO'S 10,29,31 1074685 (CONSISTS OF STANDARD ITEM NO'S 10,29,31 CONVERSION KITS DESCRIPTION CONVERSION KIT (LIMIT STOP) 1074677 CONVERSION KIT (SPRING ASSIST CLOSED) 1074684 CONVERSION KIT (SPRING ASSIST CLOSED) 1074684 CONVERSION KIT (SPRING ASSIST CLOSED) 1074684	NO. 1077427 (V (421-LS) 1073206 (V (4421-SC) SPRI (4421-SC) (V (4421-LSC) SEE REVERSE SIDE FOR (4421-LSC) SEE REVERSE SIDE FOR STANDARD_NORMALLY_OPEN_M	(44B-0001-10000) (3/4" NPT) (44C-0001-10000) (1" NPT) ING ASSIST OPEN F CHANGED SHAFT NUTS & 1635 MSM 05JAN06 UPDATED 0-RING P/N'S 1635 MSM 05JAN06 REV DESCRIPTION ECO DWN DATE APVD REV DESCRIPTION ECO DWN DATE APVD ROCKFORD OPERATIONS 2412 GRANT AVENUE ROCKFORD, IL 61103-3991 (815) 964-9421 WWW.GEWATER.COM
REPAIR PARTS KITS DESCRIPTION PART N INT. PARTS KIT (LIMIT STOP) 1074154 CONSISTS OF STANDARD ITEM NO'S 23,24,25 1074154 INT. PARTS KIT (SPRING ASSIST CLOSED) 1074684 (CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (INT. PARTS KIT (SPRING ASSIST OPEN) 1074685 (CONSISTS OF STANDARD ITEM NO'S 10,29,31 1074685 (CONSISTS OF STANDARD ITEM NO'S 10,29,31 CONVERSION KITS DESCRIPTION CONVERSION KIT (LIMIT STOP) CONVERSION KIT (SPRING ASSIST CLOSED)	NO. 1077427 (V (421-LS) 1073206 (V (4421-SC) SPR (4421-SC) (V (4421-LSC) SEE REVERSE SIDE FOR 4 (4421-SC) SEE REVERSE SIDE FOR 5 (4421-LSC) SEE REVERSE SIDE FOR 4 (4421-SC) SEE REVERSE SIDE FOR	V44B-0001-10000) (3/4" NPT) V44B-0001-10000) (1" NPT) ING ASSIST OPEN F CHANGED SHAFT NUTS & 1635 MSM 05JAN06 UPDATED 0-RING P/N'S 1635 MSM 05JAN06 REV DESCRIPTION ECO DWN DATE APVD REV DESCRIPTION ECO DWN DATE APVD ROCKFORD OPERATIONS 2412 GRANT AVENUE ROCKFORD OPERATIONS 2412 GRANT AVENUE ROCKFORD, IL 61103-3991 (815) 964-9421 WWW.GEWATER.COM SERIES 4421 DIAPHRAGM VALVE 3/4" & 1" N.P.T. OR B.S.P.T.
REPAIR PARTS KITS DESCRIPTION PART N INT. PARTS KIT (LIMIT STOP) 1074154 CONSISTS OF STANDARD ITEM NO'S 23,24,25 1074154 INT. PARTS KIT (SPRING ASSIST CLOSED) 1074684 (CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (INT. PARTS KIT (SPRING ASSIST OPEN) 1074685 (CONSISTS OF STANDARD ITEM NO'S 10,29,31 1074685 (CONSISTS OF STANDARD ITEM NO'S 10,29,31 CONVERSION KITS DESCRIPTION CONVERSION KIT (LIMIT STOP) CONVERSION KIT (SPRING ASSIST CLOSED) CONVERSION KIT (SPRING ASSIST OPEN) CONVERSION KIT (SPRING ASSIST OP	NO. 1077427 (V (421-LS) 1073206 (V (4421-SC) SPR (4421-SC) (V (4421-LSC) SEE REVERSE SIDE FOR (4421-LSC) SEE REVERSE SIDE FOR (4421-SO) SEE REVERSE SIDE FOR (4421-SC) STANDARD NORMALLY OPEN M	V44B-0001-10000) (3/4" NPT) V44B-0001-10000) (1" NPT) ING ASSIST OPEN F CHANGED SHAFT NUTS & 1635 MSM 05JAN06 UPDATED 0-RING P/N'S 1672 MSM 05JAN06 REV DESCRIPTION ECO DWN DATE APVD REV DESCRIPTION ECO DWN DATE APVD ROCKFORD OPERATIONS 2412 GRANT AVENUE ROCKFORD OPERATIONS 2412 GRANT AVENUE ROCKFORD, IL 61103-3991 (B15) 964-9421 WWW.GEWATER.COM SERIES 4421 DIAPHRAGM VALVE 3/4" & 1" N.P.T. OR B.S.P.T.
REPAIR PARTS KITS DESCRIPTION PART N INT. PARTS KIT (LIMIT STOP) 1074154 CONSISTS OF STANDARD ITEM NO'S 23,24,25 1074154 INT. PARTS KIT (SPRING ASSIST CLOSED) 1074684 (CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (INT. PARTS KIT (SPRING ASSIST OPEN) 1074685 (CONSISTS OF STANDARD ITEM NO'S 10,29,31 1074685 (CONVERSION KITS DESCRIPTION CONVERSION KIT (LIMIT STOP) 1074677 CONVERSION KIT (SPRING ASSIST CLOSED) 1074684 CONVERSION KIT (SPRING ASSIST CLOSED) 1074684 CONVERSION KIT (SPRING ASSIST CLOSED) 1074684 CONVERSION KIT (SPRING ASSIST OPEN) 1074685 CONVERSION KIT (SPRING ASSIST OPEN) 1074685	NO. 1077427 (V (421-LS) 1073206 (V (4421-SC) SPR (4421-SO) SEE REVERSE SIDE FOR Y (4421-LSC) SEE REVERSE SIDE FOR Y (4421-SC) SEE REVERSE SIDE FOR	A44B-0001-10000) (3/4" NPT) A44C-0001-10000) (1" NPT) ING ASSIST OPEN F CHANGED SHAFT NUTS & 1635 MSM 05JAN06 UPDATED O-RING P/N'S 1672 MSM 05JAN06 REV DESCRIPTION ECO DWN DATE APVD REV DESCRIPTION ECO DWN DATE APVD ROCKFORD OPERATIONS 2412 GRANT AVENUE ROCKFORD OPERATIONS 2412 GRANT AVENUE ROCKFORD OPERATIONS 2412 GRANT AVENUE ROCKFORD APERATIONS 2412 GRAN
REPAIR PARTS KITS DESCRIPTION PART N INT. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 23,24,25 1074154 INT. PARTS KIT (SPRING ASSIST CLOSED) CONSISTS OF STANDARD ITEM NO'S 27,28 1074684 (INT. PARTS KIT (SPRING ASSIST OPEN) CONSISTS OF STANDARD ITEM NO'S 10,29,31 1074685 (CONSISTS OF STANDARD ITEM NO'S 10,29,31 CONVERSION KITS CONVERSION KIT (LIMIT STOP) CONVERSION KIT (LIMIT STOP) CONVERSION KIT (SPRING ASSIST CLOSED) CONVERSION KIT (SPRING ASSIST OPEN) CONVERSION KIT (SPRING ASSIST OPEN) <t< td=""><td>NO. 1077427 (V (421-LS) 1073206 (V (4421-SC) SPR (4421-SO) SEE REVERSE SIDE FOR 9 (4421-LSC) SEE REVERSE SIDE FOR 4 (4421-SC) SEE REVERSE SIDE FOR 5 (4421-SO) SEE REVERSE SIDE FOR</td><td>A44B-0001-10000) (3/4" NPT) A44C-0001-10000) (1" NPT) ING ASSIST OPEN F CHANGED SHAFT NUTS & 1635 MSM 05JAN06 UPDATED O-RING P/N'S 1672 MSM 05JAN06 REV DESCRIPTION ECO DWN DATE APVD ROCKFORD OPERATIONS 2412 GRANT AVENUE ROCKFORD OPERATIONS 2412 GRANT AVENUE ROCKFORD OPERATIONS 2412 GRANT AVENUE ROCKFORD OPERATIONS 2412 GRANT AVENUE ROCKFORD APERATIONS 2412 GRANT AVENUE APU</td></t<>	NO. 1077427 (V (421-LS) 1073206 (V (4421-SC) SPR (4421-SO) SEE REVERSE SIDE FOR 9 (4421-LSC) SEE REVERSE SIDE FOR 4 (4421-SC) SEE REVERSE SIDE FOR 5 (4421-SO) SEE REVERSE SIDE FOR	A44B-0001-10000) (3/4" NPT) A44C-0001-10000) (1" NPT) ING ASSIST OPEN F CHANGED SHAFT NUTS & 1635 MSM 05JAN06 UPDATED O-RING P/N'S 1672 MSM 05JAN06 REV DESCRIPTION ECO DWN DATE APVD ROCKFORD OPERATIONS 2412 GRANT AVENUE ROCKFORD OPERATIONS 2412 GRANT AVENUE ROCKFORD OPERATIONS 2412 GRANT AVENUE ROCKFORD OPERATIONS 2412 GRANT AVENUE ROCKFORD APERATIONS 2412 GRANT AVENUE APU

3/4" & 1" ISOLATED BONNET VALVE - OPTIONAL MODELS

					NO.	DESCRIPTION	STD PART NO.	<u>атү.</u>
ASSEMBLY TOO	LS	REPAIR	PARTS KITS			CAST JPON 1-1/4" NPT	* 1074196 (424-A5)	
DESCRIPTION	PART NO.	DESCRIPTION	PART NO.			1-1/2" NPT	* 1074199 (424–A6)	\neg
FOR INSTALLATION & REMOVAL OF	1074247 (424-MT)	DIAPHRAGM & SEALS KIT	1074701 (4424-RAE) 11	1074702 (4424-RAV) FKM	2 SEA (REQ'S	S ASSY TOOL) BRASS	* 1074245 (424-MO)	
FOR INSTALLATION & REMOVAL OF SHAFT		CONSISTS OF ITEM NO'S		INCLUDES	3 HEX I	NUT (1/4-28)	* 1263852	
GUIDE (ITEM #10) (TOOL NOT SHOWN)	1074227 (424–GT)	5,5,6,8,9,14,10,17,10,21	1074222 (424-FB) 1074224 (424-FV) 1	1074222 (424-FB)	4 DISC	PLATE BRASS F.P.D.M.	* 1074237 (424–K) * 1071723 (0RF–028)	⊥ _
		INTERNAL PARTS KIT		>	5 0-RIN	NG FKM	1071793 (ORV-028)	
		4,7,10,11(2),15,19,20	1074704 (4424–	-RF)	6 DISC	E.P.D.M. FKM	* 1074233 (424–JE) 1074236 (424–JV)	
		SEAT (ITEM NO. 2)	1074245 (424–1	MO)	7 DISC	HOLDER BRASS	* 1074229 (424-H)	
		NOTE			8 GASKE	ET COPPER	* 1073948 (200–GG) * 1071734 (ORF–132)	
		NOTE:			9 0-RIN	NG FKM	1071806 (ORV-132)	
<u></u> 1/8"−27 NPT		1. AMERICAN N THREADS (N	ATIONAL STANDARD TAPER PII PT) PER ANSI B2.1-1968	IPE	10 SHAF	T GUIDE S ASSY TOOL BRASS	* 1074225 (424-GGO)	
V PORT "D"		-18 NPT	,		11 DIAPH	IRAGM PLATE BRASS	* 1074220 (424–D)	$\overline{2}$ $\overrightarrow{+}$
(22) (14) (12)	(17)				12 TOP (CAP CAST IRON	* 1074690 (4424-CD)	귀方
	\sum					BUNA N	* 1074222 (424–FB)	
		\sim				FKM	1074224 (424–FV)	ή Ω
		(16)			16 HEX I	NUT (5/16-24)	* 10/4090 (4424-L) * 1263853	⁺ ≥
			HAN So	(24)	17 GASKE	ET COPPER	* 1074252 (424-R)	1-
		(11)	7/2005		19 GUIDE	BUSHING	* 1074666 (4421-BD)	
		<u>6.00</u> 152.4			20 RETAI		* 1074678 (4421-N)	
		(13) APPROX.		-(23)	21 0-RIN	NG E.P.D.M. FKM	* 10/1/26 (ORE-1101C) 1239021 (ORV-110)	$ \leq$
		$\Rightarrow \gamma \downarrow \gamma$	WA V	\bigcirc	22 TUBE	FITTING	* 1074040 (348–Z)	
$(7) \setminus \setminus / /$			125		23 STAND	NUT PLATED STEEL	* 10/4694 (4424-E) * 1071656 (NUZ-0008)	8
				(24)				<u>S</u>
6		\sim \downarrow \downarrow						
	\times \times \times		\mathcal{V}					
		\searrow $ $						
		(19)						
	, MIIN ,							
		20.	4.75			F(DRM NO. 10782	
			120.6		D SHAFT NU	ITS & 1635 /N'S 1672	VSM 05JAN06	Iõ
(3)		15		REV	DESCRIP	PTION ECO	DWN DATE APVE	
						ROCKFORD OP 2412 GRANT AV	ERATIONS ENUE	
		\backslash	INCHES	GE GE	Osmor	ROCKFORD, IL	61103-3991	l LLİ
		(21)	MILLIMETERS -			(615) 964-9421	WWW.GEWATER.COM	
		-		SER	IES 442	24 DIAPHRAG	M VALVE	\leq
V44D-0000-10000 (1- V44E-0000-10000 (1-	-1/4 NPT) -1/2" NPT)			1 1/-	4" & 1 ⁻	1/2" N.P.T. OR	B.S.P.T.	
NORMALLY OPEN (S	STANDARD)	CONFIGUR	ATION OPTIONS			DATE	DRAWING NO.	
PRINTED IN U.S.A.		· · · · · ·		URAWN	JWB	06AUG0	1 108402	6 🛄
						1		

	NO. DESCRIPTION STD PART NO. QTY.
	25 SCREW * 1072362 (SCS-0031) 1
	26 O-RING * 1071668 (ORB-012) 1
\sim (26)	27 HEX NUT * 1077534 (400-H) 1
$(28) \qquad (28) \qquad $	28 TOP CAP CAST IRON * 1074692 (4424–CE) 1
	SPRING ASSIST CLOSED MODEL
	29 CENTERING PLATE * 1074664 (4421-BA) 1 30 SEPRINC + 1075122 (524 S) 1
	31 SPRING * 1074264 (424–S) 1
	NOTE:
	RING (ITEM 20) SHOULD BE LOCATED IN UPPER
	GROOVE ON SHAFT. FOR ALL OTHER VALVE
V44D_0010_10000 (1_1/4" NPT)	
1073225 (V44E-0010-10000) (1-1/2" NPT)	
LIMIT STOP	
V44D-0002-10000 (1-1/4" NPT)	
V44E-0002-10000 (1-1/2 NPT)	
SPRING ASSIST CLOSED	
	SFF REVERSE SIDE FOR
	STANDARD NORMALLY OPEN MODEL
DESCRIPTION PART NO.	
INT. PARTS KIT (LIMIT STOP) V44D-0001-1000	00 (1-1/4" NPT)
CONSISTS OF STANDARD ITEM NO'S 25,26,27 1074242 (424–LS) 1077442 (V44E–0001–	10000) (1-1/2" NPT)
INT. PARTS KIT (SPRING ASSIST CLOSED)	
CONSISTS OF STANDARD ITEM NO'S 29,30	
INT. PARTS KIT (SPRING ASSIST OPEN)	FORM NO. 1078218
CONSISTS OF STANDARD ITEM NO'S 10,31,32 10/4/0/ (4424-50)	
	E UPDATED O-RING P/N'S 1672 MSM 05JAN06
	REV DESCRIPTORNM NO. 102602160WN DATE APVD
DESCRIPTION PART NO.	
CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 25 THRU 28	(815) 964-9421 WWW.GEWATER.COM
CONVERSION KIT (SPRING ASSIST CLOSED) 1074706 (4424–SC) CONSISTS OF STANDARD ITEM NO'S 29,30	
	1 1/4" & 1 1/2" N.P.T. OR B.S.P.T.
CONVERSION RT (SFRING ASSIST OPEN) [1074707 (4424-S0)] CONSISTS OF STANDARD ITEM NO'S 10,31,32	
PRINTED IN U.S.A.	JVVB 06AUG01 1084026 0



2-1/2" DIAPHRAGM VALVE ISOLATED

		LIMIT STOP MODEL
		24 SCREW * 1072364 (SCS-0042) 1
		25 O-RING * 1071690 (ORB-112) 1
(25)		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
	AAA	31 SPRING * 1074423 (426–S) 1
1077448 (V44G-0010-10000) (2" NPT) V44H-0010-10000 (2-1/2" NPT) LIMIT STOP 1073235 (V V44H-00 SPRING	28 28 31 31 31 31 31 31 31 31 31 31	
		11 10000) (0" NPT)
	1077447 (V44G-000 V44H-0001-1000) (2 1/2" NPT)
CONSISTS OF STANDARD ITEM NO'S 24 25 26 1074405 (426-LS)		
	SPRING AS	SISTOPEN
INT. PARTS KIT (SPRING ASSIST CLOSED)		
CUNSISTS OF STANDARD TIEM NO 5 28,29		FORM NO. 1078219
INT. PARTS KIT (SPRING ASSIST OPEN) 1074736 (4426-S0)		CHANGED SHAFT NUTS & 1635 LACK OF HUNDE
CONSISTS OF STANDARD ITEM NO'S 30,31		D UPDATED O-RING P/N'S 1672 MSM UDJANUD
		REV DESCRIPTION ECO DWN DATE APVD
CONVERSION KITS		ROCKFORD OPERATIONS
DESCRIPTION PART NO.		2412 GRANT AVENUE
CONVERSION KIT (LIMIT STOP)		GE Osmonics ROCKFORD, IL 61103-3991
CONSISTS OF STANDARD ITEM NO'S 24 THRU 27 1074727 (4426-LSC)		(015) 904-9421 WWWW.GEWATER.COM
	SEE REVERSE SIDE FOR	SERIES 4426 DIAPHRAGM VALVE
CONSISTS OF STANDARD ITEM NO'S 28 29 1074735 (4426-SC)	STANDARD NORMALLY OPEN MODEL	
	STANDARD NORWALLI OF LIN MODEL	2" & 2 1/2" N P T OR B S P T
CONVERSION KIT (SPRING ASSIST OPEN) 1074736 (4426–S0)		
CONSISTS OF STANDARD ITEM NO'S 30,31		DRAWN DATE DRAWING NO.
		IWB 06AUG01 1084028

N Ø 2-1/2" ISOLATED BONNET VALVE - OPTIONAL MODELS

DESCRIPTION

NO.

PART NO.

STD

QTY.



ယ IAPHRAGM VALVE <u>SO</u> LATED BONNET MODE

			NO.	DESCRIPTION	STD	PART NO. QTY.	1 ယ
				LIMIT STO	OP MODEL		=
			25 SCREW	-	* 1072365	5 (SCS-0043) 1	-
			26 0-RIN	G LIT	* 107169	0 (ORB-112) 1 34 (426-11) 1	$-\infty$
			28 TOP C	AP CAST IF	RON * 107474	1 (4427–CE) 1	1 Ö
(28)			S	PRING ASSIST	CLOSED MODE	EL	$1 \simeq$
			29 CENTE	RING PLATE	* 107473	37 (4426–V) 1	
			30 SPRING	3	* 10751	98 (526–S) 1	
				SPRING ASSIS	T OPEN MODEL	-	
			31 CENTE	RING PLATE	* 107473	68 (4426-VA) 1 23 (426-S) 1	
				,	1 10/44	23 (+20 3) 1	
	/ (30) 🖏						
			> ` `				
	1 YAS						
V44J-0010-10000 (3" NPT)				\ \			
LIMIT STOP			A A A A A A A A A A A A A A A A A A A	\backslash			
	K K		The Ba				-
	le le						
			(31)) /			
	V44J-0	0002–10000 (3" NPT)		/			
	SPRING	ASSIST CLOSED		/			
	DADT NO		H				
	PART NU.						\square
CONSISTS OF STANDARD ITEM NO'S 25,26,27	1074501 (427–LS)	1077450 (V44J–000	01–10000) (3" NPT)				
INT PARTS KIT (SPRING ASSIST CLOSED)		SPRING AS	SIST OPEN				
CONSISTS OF STANDARD ITEM NO'S 29,30	1074753 (4427–SC)		<u></u>				
INT. PARTS KIT (SPRING ASSIST OPEN)	4074754 (4407.00)				FORM	NO. 1078220	
CONSISTS OF STANDARD ITEM NO'S 31,32	10/4/54 (442/-50)		CHANGED SHA	FT NUTS &	1635 MSM		
			UPDATED 0-F	RING P/N'S	1672	UJJANUO	
CONVERSION KIT	S		REV D	ESCRIPTION		DATE APVD	
DESCRIPTION	PART NO.		(eg.	2	2412 GRANT AVENUE	5113	1 *
CONVERSION KIT (LIMIT STOP)	_ 1074745 (4427–LSC)		GE Os	monics f	ROCKFORD, IL 61103-	3991	
CONSISTS OF STANDARD ITEM NO'S 25 THRU 2	8				815) 964-9421 00000	.GEWATER.COM	
CONVERSION KIT (SPRING ASSIST CLOSED)	1074753 (4427–SC)	SEE REVERSE SIDE FOR	SERIES	4427 DIAF	PHRAGM V	ALVE	\square
CONSISTS OF STANDARD TIEM NO S 29,50		STANDARD NORMALLY OPEN MODEL					
CONVERSION KIT (SPRING ASSIST OPEN)	1074754 (4427–S0)			3" PIPE	SIZE		
			DRAWN	DATE	DRA	WING NO.	1
			JW	′B 0	6AUG01	1084029	lin
TRATED IN 0.0.A.							



NO.	DESCRIPTION			STD	PART NO.	QTY	
1	BODY CAST IRON			*	1074522 (428-A)	1	
2	SEAT	EAT BRASS			1074585 (428-MAO)	1	
3	HEX NUT (3/8–24)				3001990	2	
4	DISC PLATE BRA			*	1074574 (428-K)	1	
5			E.P.D.M.	*	1071739 (ORE-156)	1	
5			FKM		1071811 (ORV-156)		
6	DISC		E.P.D.M.	*	1074570 (428-JE)	1	
0	0130		FKM		1074573 (428–JV)		
7	DISC HOLDER		BRASS	*	1074587 (428-N)	1	
8	GASKET		COPPER	*	1073950 (200-LL)	2	
0			E.P.D.M.	*	1071759 (ORE-245)	1	
9			FKM		1071832 (ORV-245)	1	
10	SHAFT GUIDE (REQ'S ASSY TOO	DL)	BRASS	*	1074762 (4428-GWO)	1	
11	DIAPHRAGM PLA	TE	BRASS	*	1074553 (428-D)	2	
12	TOP CAP	CA	ST IRON	*	1074757 (4428-CD)	1	
13	BOTTOM CAP	CA	ST IRON	*	1074755 (4428-C)	1	
14			BUNA N	*	1074557 (428-FB)	1	
14	DIAPHRAGM		FKM		1074559 (428-FV)		
15	SHAFT			*	1074763 (4428-L)	1	
16	DISC SPACER		BRASS	*	1074565 (428-HA)	1	
17	O-RING		BUNA N	*	1071677 (ORB-025)	1	
18	GUIDE BUSHING			*	1074761 (4428–G)	1	
19	RETAINING RING			*	1074765 (4428-N)	1	
20	0-RING		E.P.D.M.	*	1242718 (ORE-210TC)	7	
20			FKM		1242394 (ORV-210TC)	5	
21	TUBE FITTING			*	1074040 (348-Z)	1	
22	STANDOFF			*	1074760 (4428-E)	6	
23	HEX NUT PLATED STEEL			*	1071658 (NUZ-0014)	17	
24	HEX SCREW			*	1072406 (SCZ-0027)	5	
	SEE REV	'ER	SE SIDI	= F	ŌR		

FKM INCLUDES

23

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(23)

CONFIGURATION OPTIONS

FORM NO. 1078221

DIAPHRAGM VALVE

SOLATED

BONNET MODE

D	CHANGED SHAFT NUT UPDATED O-RING P/	rs & ′N's	1635 1672	MSM	05JAN06		
REV	DESCRIP	TION	ECO	DWN	DATE	APVD	
GE Osmonics ROCKFORD OPERATIONS 2412 GRANT AVENUE ROCKFORD, IL 61103-3991 (815) 964-9421 WWW.GEWATER.COM							
SERIES 4428 DIAPHRAGM VALVE 4" PIPE SIZE							
DRAV	JWB	date 06A	UGO	DRA 1	wing no. 108	34030	

			NO DESCRIPTION ISTD PART NO LOTY	\sim
				<u>, 1</u>
			25 SCREW * 1072365 (SCS-0043) 1	
			26 O-RING * 1071690 (ORB-112) 1	
			27 HEX NUT * 1074434 (426–U) 1	
			28 TOP CAP CAST IRON * 1074758 (4428–CE) 1	\leq
			SPRING ASSIST OPEN OR CLOSED MODEL	\subseteq
(28) (28) (28)			29 CENTERING PLATE * 1074774 (4428–V) 1	
				\triangleright
				+
				\bigcirc
V THE OT				
				\square
	(29)	Y ADVING		\geq
	$ \checkmark \ll$			\leq
	1 los	/ 🔊 / " / `` \\		\leq
1073250 (V44K-3010-10000) (3" NPT)			\rightarrow	יי
LIMIT STOP				-
	XD/			
	le la			_
				\leq
				\supset
	V44K-3	3002–10000 (3" NPT) 🛛 🦞 🖊 🧹 🛵		
	SPRING	ASSIST CLOSED		\leq
REPAIR PARTS KITS				
	PART NO.			
INI. PARTS KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 25.26.27	1074583 (428–LS)	1073249 (V44K-300	01–10000) (3" NPT) (\bigcirc
		SPRING AS	SIST OPEN	\Box
CONSISTS OF STANDARD ITEM NO'S 29,30	1074773 (4428–S0)		FORM NO 1078221	
INT. PARTS KIT (SPRING ASSIST OPEN)	1074773 (4428-50)			\bigcirc
CONSISTS OF STANDARD ITEM NO'S 29,30	10, 17, 0 (1120-30)		D UPDATED O-RING P/N'S 1672 MSM 05JAN06 -	\geq
			REV DESCRIPTION ECO DWN DATE APVD	\leq
CONVERSION KITS	S		ROCKFORD OPERATIONS	
DESCRIPTION	PART NO.		ROCKFORD, IL 61103-3991	I
CONVERSION KIT (LIMIT STOP) CONSISTS OF STANDARD ITEM NO'S 25 THRU 28	1074764 (4428-LSC)		(815) 964-9421 WWW.GEWATER.COM	
CONVERSION KIT (SEPINC ASSIST OLOSED)			SERIES 4428 DIAPHRAGM VALVE	\geq
CONSISTS OF STANDARD ITEM NO'S 29,30	1074773 (4428–S0)	SEE KEVERSE SIDE FUR		$ \subseteq $
CONVERSION KIT (SPRING ASSIST OPEN)		STANDARD NURMALLY UPEN MUDEL	4" PIPE SIZE	\subseteq
CONSISTS OF STANDARD ITEM NO'S 29,30	1074773 (4428–S0)		DRAWN DATE DRAWING NO.	$\Box \Box$
HED IN U.S.A.				\bigcirc