

IMPORTANT See separate solenoid installation and maintenance instructions (I&M) for information on: Electrical installation, explosion proof classification, temperature limitations, causes of improper operation, explosion proof coil and solenoid replacement. DESCRIPTION Series 3074A... valves are 3-way manual reset solenoid valves. Valves are manually set and solenoid latched. The solenoid returns the valve to its original position...

- 1. Disassemble valve in an orderly manner paying careful attention to exploded views provided.
2. Refer to separate I&M sheet for disassembling solenoid.
3. Remove solenoid base sub-assembly. Remove solenoid base gasket and core assembly.
4. Remove cover screws and covers from either side of operator housing.
5. Remove shaft nut (7/16" AF" spacer), lockwasher and spacer from shaft nut.
6. Using a 3/4" AF" spacer, loosen and unscrew housing nut from bonnet.
7. Remove operator housing with housing nut. Lever/shaft assembly from bonnet.
8. Remove shaft washer and shaft gasket. Remove lever assembly from inside of housing.
9. Remove housing gasket from bonnet assembly.
10. Remove the two o-rings from the end cap. CAUTION: The bonnet assembly will spring upward when bonnet assembly threads disengage with body threads.
11. Remove bonnet gasket, stop, disc holder/stem assembly and disc holder assembly from upper stem.
12. Unscrew end cap and remove mounting bracket and stem spring. NOTE: Mounting bracket is supplied only on valves with MB suffix.
13. Remove the two o-rings from the end cap.
14. Unscrew the stem assembly until upper and lower stems separate. NOTE: A small drill or small screwdriver may be inserted in the hole in the upper stem for extra grip in order to prevent stem rotating when unscrewing.
15. Remove disc from upper stem.
16. Remove spacer, disc and stem seal o-ring from lower stem.
17. All parts are now accessible for cleaning or replacement. Replace worn or damaged parts with a like or superior part for best results.

OPERATION Valves are universal construction, refer to operational instructions and flow diagram, fig. 2. Universal construction for Normally Closed, Normally Open, Selection. Operation flow diagram can be applied at any port. Valve is latched with solenoid energized by manually lifting lever upwards until it engages with the latch and manually pressing the plastic button on top of the solenoid. Upon loss of power (solenoid de-energization), operator will unlatch (trip) returning valve to its original position. Solenoid must be energized before valve can again manually reset in the latched position. Determine valve operation from and refer to flow diagram below.

MAINTENANCE No minimum operating pressure differential is required. INSTALLATION Check nameplate for correct catalog number, pressure, voltage, frequency and service. Never apply pressure to valve until it is properly installed. Valve installation and valve maintenance to be performed by qualified personnel. TEMPERATURE LIMITATIONS Ambient temperature must be within the range stated on the nameplate. Maximum fluid temperature is 120°C (250°F).

MOUNTING POSITION Valve may be mounted in any position. To facilitate installation and for desirable visual positioning, the operating movements with the solenoid may be rotated 360°. PIPING Connect piping to the valve according to the markings on the valve body. Refer to flow diagram provided. Apply pipe compound sparingly to male pipe threads. If it is applied to the female threads, it will be difficult to assemble and difficult to pipe strain should be avoided by proper support and alignment of piping. When tightening pipe, do not use valve as a lever.

PROTECTION For protection of the valve, install a strainer of filter suitable for the service involved in the inlet side as close to the valve as possible. Periodic cleaning is required depending on the service conditions. ELECTRICAL INSTALLATION Refer to separate I&M sheet of the solenoid for electrical installation. MAINTENANCE Turn off electrical power and line pressure to valve before making repairs.

- 1. Keep the medium flowing through the valve as free from dirt and foreign matter as possible.
2. Operate the valve every two weeks to ensure proper opening and closing. If necessary, electrical wiring and piping connections should be made so that the valve can be tested operationally.
3. Inspect bonnet for leakage at bleed hole. Leakage indicates worn internal seals and a complete Spare Parts Kit should be installed.
4. Periodic inspection of the operating movement and service conditions of internal valve, operator and bonnet should be kept free from paint, foreign matter, corrosion, freezing and icing conditions.
5. Periodic inspection (depending on medium and service conditions) of internal valve, operator and bonnet should be kept free from paint, foreign matter, corrosion, freezing and icing conditions.
6. Inaccurate Pressure: Check the line pressure applied to the valve. This pressure must be within the range specified on the nameplate.
7. Excessive Leakage: Disassemble valve and clean all parts. Replace parts that are worn or damaged with a complete Spare Parts Kit for best results.

COIL REPLACEMENT Refer to separate I&M sheet of the solenoid for coil replacement. VALVE DISASSEMBLY (Refer Fig. 3) WARNING: To prevent the possibility of injury or property damage, turn off electrical power, depressurize the valve, and vent fluid to a safe area before servicing the valve.

IMPORTANT Veuillez consulter les instructions relatives à l'installation et la maintenance du solénoïde (I&M) pour de plus amples informations sur: L'installation électrique, la classification anti-explosion, les limites de température, les causes de fonctionnement électromécanique inapproprié, le remplacement de la bobine et du solénoïde. DESCRIPTION Les vannes de la série 3074A... sont des électrovannes à redémarrage manuel. Les vannes sont paramétrées à la main et verrouillées par le solénoïde. Le solénoïde retourne la vanne à sa position d'origine lorsque le solénoïde est dé-energisé. Les vannes sont utilisées à chaque fois qu'une vanne doit être maintenue électriquement en position lachée. Le solénoïde doit être mis sous tension avant le départ en cas de coupure d'électricité. Les vannes sont disponibles avec plusieurs actionneurs à faible tension, voir le catalogue général.

- 1. Dévisser la vanne dans un ordre méthodique en portant attention à l'exploded views provided.
2. Référez-vous à la feuille I&M pour le démontage du solénoïde.
3. Retirez l'ensemble de base sous-ensemble. Retirez le solénoïde, la gâchette et le noyau.
4. Retirez les vis de la partie supérieure et les couvercles de la partie inférieure.
5. Retirez le couvercle supérieur et les couvercles de la partie inférieure.
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MOUNTING POSITION Valve may be mounted in any position. To facilitate installation and for desirable visual positioning, the operating movements with the solenoid may be rotated 360°. PIPING Connect piping to the valve according to the markings on the valve body. Refer to flow diagram provided. Apply pipe compound sparingly to male pipe threads. If it is applied to the female threads, it will be difficult to assemble and difficult to pipe strain should be avoided by proper support and alignment of piping. When tightening pipe, do not use valve as a lever.

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- 1. Keep the medium flowing through the valve as free from dirt and foreign matter as possible.
2. Operate the valve every two weeks to ensure proper opening and closing. If necessary, electrical wiring and piping connections should be made so that the valve can be tested operationally.
3. Inspect bonnet for leakage at bleed hole. Leakage indicates worn internal seals and a complete Spare Parts Kit should be installed.
4. Periodic inspection of the operating movement and service conditions of internal valve, operator and bonnet should be kept free from paint, foreign matter, corrosion, freezing and icing conditions.
5. Periodic inspection (depending on medium and service conditions) of internal valve, operator and bonnet should be kept free from paint, foreign matter, corrosion, freezing and icing conditions.
6. Inaccurate Pressure: Check the line pressure applied to the valve. This pressure must be within the range specified on the nameplate.
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COIL REPLACEMENT Refer to separate I&M sheet of the solenoid for coil replacement. VALVE DISASSEMBLY (Refer Fig. 3) WARNING: To prevent the possibility of injury or property damage, turn off electrical power, depressurize the valve, and vent fluid to a safe area before servicing the valve.

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WICHTIG Die gesonderte Betriebsanleitung (I&M-Datenblatt) für Magnétköpfe enthalten wichtige Informationen über die Installation, die Betriebstemperatur, die Temperaturgrenzen, Ursachen für nicht ordnungsgemäßen elektrischen Betrieb, Austausch von Spule und Magnétkopf. BESCHREIBUNG Die Ventile der Bauweise 3074A... sind 3-Wege-Magnetventile mit manueller Rückstellung. Die Ventile werden manuell in die gewünschte Position geschaltet und nach dem Öffnen durch den Magnétkopf für die Ventile in die Ausgangsposition zurückkehren. Diese Ventile werden überal dort eingesetzt, wo ein Ventil benötigt wird, das elektrisch in einer Position gehalten werden soll und nach dem Öffnen in seine Ausgangsposition zurückkehrt. Die Ventile sind mit mehreren Kleinteilgruppen - Universal- oder ersatzfähigen Magnétköpfen ausgestattet. FUNKTION Diese Ventile sind Universal-Ventile, siehe die Betriebsanleitung und das Flussdiagramm. Die Ventile sind universell konstruiert und können für Normalerweise geschlossen, Normalerweise offen, Auswahlventil eingesetzt werden. Die Ventile sind überal dort eingesetzt, wo ein Ventil benötigt wird, das elektrisch in einer Position gehalten werden soll und nach dem Öffnen in seine Ausgangsposition zurückkehrt. Die Ventile sind mit mehreren Kleinteilgruppen - Universal- oder ersatzfähigen Magnétköpfen ausgestattet.

- 1. Demontieren Sie das Ventil in einer geordneten Weise, achten Sie auf die Explosionszeichnungen.
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- 1. Demontar la válvula en un orden metódico, prestando atención a los dibujos de explosión.
2. Retirar el conjunto de base sub-ensamblado. Retirar el solenoide, la palanca y el núcleo.
3. Retirar los tornillos de la parte superior y los tapas de la parte inferior.
4. Retirar el tapacuerpo superior y las tapas de la parte inferior.
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