



INSTALLATION AND MAINTENANCE INSTRUCTIONS

direct operated, high flow, reduced power, balanced poppet, increased safety/encapsulated solenoid operator (EM-M12) 1/4

DESCRIPTION

Series 327 are direct operated 3/2 reduced power solenoid valves of the balanced construction type. The body material is brass or stainless steel. Solenoid details are on I & M sheet IM1047-3.

INSTALLATION

ASCO Numerics components are intended to be used only with the technical characteristics as specified on the nameplate. Changes to the equipment are only allowed after consulting the manufacturer or its representative. Before installation depressurise the piping system and clean internally.

The equipment may be mounted in any position. The flow direction and pipe connection of valves are indicated on the body.

The pipe connections have to be in accordance with the size indicated on the nameplate and fitted accordingly.

CAUTION:

- Reducing the connections may cause improper operation or malfunctioning.
- For the protection of the equipment install a strainer or filter suitable for service involved in the inlet side as close to the product as possible.
- If tape, paste, spray or a similar lubricant is used when tightening, avoid particles entering the system.
- Use proper tools and locate wrenches as close as possible to the connection point.
- To avoid damage to the equipment, DO NOT OVERTIGHTEN pipe connections.
- Do not use valve or solenoid as a lever.
- The pipe connections should not apply any force, torque or strain to the product.

ELECTRICAL CONNECTION

In case of electrical connections, they are only to be made by trained personnel and have to be in accordance with the local regulations and standards.

CAUTION:

- Turn off electrical power supply and de-energise the electrical circuit and voltage carrying parts before starting work.
- All electrical screw terminals must be properly tightened according to the standards before putting into service.
- Dependent upon the voltage electrical components must be provided with an earth connection and satisfy local regulations and standards.

The equipment is provided with the following electrical terminal:

- Embedded screw terminals in metal enclosure with "Pg" cable gland.

PUTTING INTO SERVICE

Before pressurising the system, first carry-out an electrical test. In case of solenoid valves, energise the coil a few times and notice a muffled click signifying the solenoid operation.

SERVICE

Most of the solenoid valves are equipped with coils for continuous duty service. To prevent the possibility of personal or property damage do not touch the solenoid which can become hot under normal operation conditions. If the solenoid valve is easily accessible, the installer must provide protection preventing accidental contact.

OUND EMISSION

The emission of sound depends on the application, medium and nature of the equipment used. The exact determination of the sound level can only be carried out by the user having the valve installed in his system.

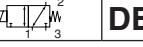
MAINTENANCE

Maintenance of ASCO Numerics products is dependent on service conditions. Periodic cleaning is recommended, the timing of which will depend on the media and service conditions. During servicing, components should be examined for excessive wear. A complete set of internal parts is available as a spare parts kit. If a problem occurs during installation/maintenance or in case of doubt please contact ASCO Numerics or authorised representatives.



BETRIEBSANLEITUNG

direkt betätig., hoher Durchfluss, geringe Leistungsaufnahme, "entlasteter Ventilkolben", hochsicheres, gekapseltes Magnetbetätigungsselement (EM-M12) 1/4



DE

GERÄUSCHEMISSION

Bei der Baureihe 327 handelt es sich um direkt betätigtes 3/2-Wege-Magnetventile der Konstruktionsweise mit "entlasteter Ventilkolben" mit geringer Leistungsaufnahme. Das Gehäuse besteht aus Messing oder rostfreiem Stahl. Detaillierte Informationen zu diesem Magnetventil sind auf dem I&M-Datensatz IM1047-3 zu finden.

EINBAU

Die ASCO Numerics-Komponenten dürfen nur innerhalb der auf den Typenschildern angegebenen Daten eingesetzt werden. Veränderungen an den Produkten sind nur nach Rücksprache mit ASCO Numerics zulässig. Vor dem Einbau der Ventile muß das Rohrleitungssystem desinstalliert und innen gereinigt werden. Die Elektronik des Produkts ist generell betriebsbereit. Die Durchflusfrichtung und der Rohrleitungsanschluß von Ventilen sind gekennzeichnet.

ACHTUNG:

- Eine Reduzierung der Anschlüsse kann zu Leistungs- und Funktionsminderungen führen.
- Zum Schutz der Ventile sollten für die Betriebsbedingungen geeignete Schmutzfänger oder Filter so dicht wie möglich in den Ventileingang integriert werden.
- Bei Abdichtung am Gewinde ist darauf zu achten, daß kein Dichtungsstoff auf die Ringe oder das Ventil gelangt.
- Zum Einbau darf nur die gezeigten Werkzeuge verwendet werden, das so nahe wie möglich am Anschlußpunkt anzusetzen ist.

Um eine Beschädigung der Produkte zu vermeiden, ist darauf zu achten, daß die Rohrabschlüsse NICHT ZU STARK ANGEZOGEN werden.

- Spül und Führungsrohr von Ventilen dürfen nicht als Gegenhalter benutzt werden.
- Die Rohrleitungsanschlüsse sollten fluchten und dürfen keine Spannungen auf das Ventil übertragen.

ELEKTRISCHER ANSCHLUSS

Der elektrische Anschluß ist von Fachpersonal entsprechend den geltenden VDE- und CEE-Bestimmungen auszuführen.

ACHTUNG:

- Vor Beginn der Arbeiten ist sicherzustellen, daß alle elektrischen Leitungen und Netzteile spannungsfrei geschaltet sind.
- Alle Antriebskomponenten nach dem Montieren der Arbeiten vorbehaltig entsprechend den geltenden Normen abzutunzen.
- Je nach Spannungsbereich muß das Ventil nach den geltenden Bestimmungen und Normen einen Schutzleiteranschluß erhalten.

Das Ventil ist mit den folgenden elektrischen Anschlüssen versehen:

- Anschlüsse innerhalb eines Metallgehäuses mittels Schraubklemmen. Kabelbeführung ins Gehäuse mit PG-Verschraubung.

INBETRIEBNAHME

Vor Druckaufbaufschaltung des Produktes sollte eine elektrische Funktionsprüfung erfolgen: Bei Magnetventilen Spannung an der Magnetspule mehrmals ein- und ausschalten. Es muß ein gedämpftes Klicken zu hören sein.

BETRIEB

Die meisten Magnetventile sind mit Spulen für Dauerbetrieb ausgestattet. Zur Vermeidung von Personen- und Sachschäden sollte jede Berührung der Magnetspule vermieden werden, da diese unter normalen Betriebsbedingungen sehr heiß werden kann. Bei leicht zugänglichem Magnetventil sollte vom Installateur ein Schutz vorgenommen werden, um jegliches versehentliches Berühren zu vermeiden.

Eine separate Herstellerklärung im Sinne der Richtlinie 89/392/EWG Anhang II B ist auf Anfrage erhältlich. Geben Sie bitte für die betreffenden Produkte die Nummer der Auftragsbestätigung und die Seriennummer an. Das Produkt erfüllt die wesentlichen Anforderungen der EMV-Richtlinie 89/336/EWG und Ergänzungen sowie der Niederspannungsrichtlinien 73/23/EWG und 93/68/EWG. Eine separate Konformitätserklärung ist auf Anfrage erhältlich.



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1
3



GB

VALVE DISASSEMBLY

Dismantle in an orderly fashion. Pay careful attention to exploded views provided for identification of parts.

- Remove solenoid: see IM1047-3.
- Remove top spring.
- Pull out core sub-assembly. Remove gasket.
- All parts are now accessible for cleaning or replacement.

VALVE REASSEMBLY

Reassemble in reverse order of disassembly paying careful attention to exploded views provided for identification and placement of parts.

- NOTE: Lubricate all gaskets/O-rings with high quality silicone grease.
- Snip gasket into the groove of the core sub-assembly (pay attention to the correct size).
- Place core sub-assembly into body cavity and push it gently down until the gasket just seals in the cavity of the body.
- Replace solenoid base O-ring and top spring (place closed end on top).
- Replace solenoid base sub-assembly and torque according to torque chart. This will also push the core sub-assembly into its correct position.
- Install solenoid: see IM1047-3.
- After maintenance, operate the valve a few times to be sure of proper operation.

MANUAL OPERATOR DISASSEMBLY

(Refer to exploded view)

- Unscrew manual operator housing from main valve body. Remove gasket.
- Remove retaining ring and knob.
- Drive out lock-pin with suitable drift (2,4 mm).
- All parts are now accessible for cleaning and/or replacement.

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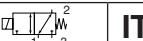
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- NOTE: Lub



ISTRUZIONI DI INSTALLAZIONE E DI MANUTENZIONE

a comando diretto , grande portata, consumo ridotto, otturatore equilibrato, comando solenoide ad alta sicurezza/incapsulato (EM-M12) 1/4

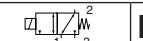


IT



ALGEMENE INSTALLATIE- EN ONDERHOUDSINSTRUCTIES

direct werkend, grote doorstroomfactor, verlaagd vermogen, gebalanceerde klep, verhoogde veiligheid/inkapseling (EM-M12) 1/4



NL

DESCRIZIONE

Le elettrovalvole Serie 327 sono del tipo 3/2 a comando diretto, consumo ridotto, con costruzione equilibrata. Il corpo è in bronzo o in acciaio inossidabile. I particolari della solenoide si trovano sulla scheda I & M IM1047-3.

INSTALLAZIONE

Le elettrovalvole ASCO Numerics devono essere utilizzate esclusivamente rispettando le caratteristiche tecniche specificate sulla targhetta. Variazioni sulle valvole o sui piloti sono possibili solo dopo approvazione della corretta identificazione e collocazione delle parti.

- Smontare la solenoide; vedi IM1047-3.
- Smontare la molla superiore.
- Sfilare il sottogruppo del nucleo. Smontare la guarnizione.
- Ora tutte le parti sono accessibili per la pulizia o la sostituzione.

SIMONTAGGIO VALVOLE

Smontare procedendo nell'ordine inverso facendo riferimento agli specifici forniti per una corretta identificazione delle parti.

- Smontare la solenoide; vedi IM1047-3.
- Smontare la molla superiore.
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- Ora tutte le parti sono accessibili per la pulizia o la sostituzione.

RIMONTAGGIO VALVOLE

Rimontare procedendo nell'ordine inverso facendo riferimento agli specifici forniti per una corretta identificazione e collocazione delle parti.

- NOTA: Lubrizzare tutte le guarnizioni/aneli di tenuta con grasso al silicone d'alta qualità.
- Inserire il sottogruppo del nucleo nell'apertura del corpo e spingere delicatamente finché la guarnizione sigilla l'apertura.
- Montare la molla superiore.
- Montare il gruppo cannello e serrare con coppia secondo quanto indicato nella tabella. In questo modo il sottogruppo del nucleo viene spinto nella giusta posizione.
- Installare solenoide; vedi IM1047-3.
- Dopo la manutenzione, azionare ripetutamente la valvola per accertare il corretto funzionamento.

SIMONTAGGIO COMANDO MANUALE

(Vedi esplosivo)

- Smontare la sede del comando manuale dal corpo valvola principale. Smontare la guarnizione.
- Smontare l'anello di fissaggio e la manopola.
- Estrarre la spina di bloccaggio spingendo con punzone adatto da (2,4 mm).

Ora tutte le parti sono accessibili per la pulizia e/o la sostituzione.

RIMONTAGGIO COMANDO MANUALE

Rimontare procedendo nell'ordine inverso rispetto allo smontaggio facendo riferimento all'esplosivo fornito.

NOTA: Per le strutture in acciaio inossidabile si raccomanda di usare un opportuno lubrificante antiripristino per evitare l'usura.

NOTA: Lubrificare tutte le parti in gomma con grasso al silicone d'alta qualità.

L'utente può richiedere al costruttore una dichiarazione separata delle Direttive CEE 89/362/CEE Allegato B - fornendo il numero di serie ed il riferimento dell'ordine relativo. Il presente prodotto è conforme alle esigenze essenziali della Direttiva EMC 89/336/EEC ed agli emendamenti e le direttive per Bassa Tensione 73/23/CEE + 93/68/CEE. Una Dichiarazione di Conformità separata può essere ottenuta su richiesta.

ELETTRICA AANSLUITING

BESCHRIJVING

Afsluiters uit de 327-serie zijn direct werkende 3/2-magneet-afsluiters met gebalanceerde klep en verlaagd vermogen. Het afsluitershus is van messing of roestvast staal. Raadpleeg IM1047-3 voor de details over de magneetkop.

INSTALLATIE

ASCO Numerics producten worden volgens uitsluitend toegepast worden binnen de naamplaat aangegeven specificaties. Wijzigingen zijn niet toegestaan. Voor het gebruik moet de fabrikant van har vertegenwoordiger. Voor het inbouwen dient het leidingsysteem drukloos gemaakt te worden en inwendig gereinigd.

De positie van de afsluite is naar keuze te bepalen.

De doorstroomrichting wordt bij afsluiters aangegeven op het afsluitehuis.

De pijpaansluiting moet overeenkomstig de naamplaatgegevens plaatsvinden.

LET HIEROP!

- Een reducere van de aansluitingen kan tot prestatie- en functionele richting.
- Ter bescherming van de interne delen wordt een filter in het leidingstelsel aanbevolen.
- Bij het openen van draadafdichtingspasta of tape mogen er geen deeltjes in het leidingwerk geraken.
- Monteer uitsluitend geschilderd gereedschap voor de montage te gebruiken.
- Gebruik een zodang koppel voor leidingverbindingen dat het product NIET WORDT BESCHADIGD.
- Het product, de behuizing of de spool mag niet als hefboom worden gebruikt.
- De pijpaansluitingen mogen geen krachten of momenten op het product overdragen.

ELEKTRISCHE AANSLUITING

In geval van elektrische aansluiting dient door vakkundig personeel te worden uitgevoerd volgens de door de plaatselijke overheid bepaalde richtlijnen.

LET HIEROP!

- Voordat aan het werk begint moeten alle spanningsvoerende delen spanningsloos worden gemaakt.
- Alle aansluitklemmen moeten na het bevestigen van het werk volgens de juiste normen worden aangedraaid.
- Aan elke gelangd spanningsbering moet het product volgens de geldende normen van een aarding worden voorzien.

Het product kan de volgende aansluitingen hebben:

- Aansluiting in het metalen huis d.m.v. Schroefdraadsluiting.

De kabeldoeroor heeft een "PG" aansluiting.

IN GEBRUIK STELLEN

Voor dat de druk aangesloten wordt dient een elektrische test te worden uitgevoerd. Ingeval van magneteafsluiters legt men meerdere malen spanning op de spool aan waarbij een gedempt "klikken" hoortbaar moet zijn bij juist functioneren.

GEBRUIK

De meeste magneteafsluiters zijn uitgevoerd met spoelen voor continu gebruik. Om persoonlijk letsel en schade door aanknoping van het spool te voorkomen dient men het aanknopen te vermijden, om dit te langdurige inschakeling de spool of het spolehus kan worden. In voorkomende gevallen dient men de spool af te schermen voor aanraking.

GELUIDSEMISSIE

Dit hangt sterk af van de toepassing en het gebruikte medium. De bepaling van het geluidsniveau kan pas uitgevoerd worden nadat de afsluite is ingebouwd.

ONDERHOUD

Het onderhoud aan de afsluite is afhankelijk van de bedrijfsomstandigheden. We raden u aan om het product regelmatig te reinigen, in intervallen die afhankelijk zijn van het medium en de mate van onderhoud. Controleer tijdens het onderhoud of onderdelen zijn versleten. In geval van slijtage zijn reserveonderdelen beschikbaar om een inwendige revisie uit te voeren. Ingeval problemen of onduidelijkheden tijdens montage, gebruik of onderhoud optreden dan dient men zich tot ASCO Numerics of haar vertegenwoordiger te wenden.

DEMONTAGE

Neem de afsluite op een ordelijke wijze uit elkaar. Raadpleeg daarbij de montagetekening die de afzonderlijke onderdelen benoemt.

- Verwijder de magneetkop; zie IM1047-3.
- Verwijder de bovenste veer.
- Trek de plunjertoer eruit. Verwijder de afdichting.
- Alle delen zijn nu toegankelijk voor reiniging of vervanging.

MONTAGE

Monteer alle delen in omgekeerde volgorde als aangegeven is bij demontage, let daarbij wel op de montagetekening voor de juiste plaatsing van de onderdelen.

- OPMERKING: Vet alle afdichtingen/O-ringen in met hoogwaardig siliconen.
- Schuif de afdichting over de plunjertoer en druk de plunjertoer vervolgens omlaag tot de afdichting deze opening net helemaal afdicht.

Plaats de plunjertoer in de opening in het afsluitehuis en druk de plunjertoer vervolgens omlaag tot de afdichting deze opening net helemaal afdicht.

- Plaats de O-ring van de kapstuk/deksels-combinatie en de bovenste veer weer terug (met het spels toelopende uiteinde naar boven).
- Monteer de kapstuk/deksels-combinatie en draai deze met het juiste aandringmoment vast. Hierdoor wordt ook de plunjertoer in de juiste positie gedrukt.

Monteer de magneetkop; zie IM1047-3.

- Niet het onderhoud dient men de afsluite een aantal malen te bedienen om de werking ervan te controleren.

DEMONTAGE VAN DE HANDBEDIENING

(Raadpleeg de montagetekening)

- Schroef de handbediening los van de handbediening los van het afsluitehuis. Verwijder de afdichting.
- Verwijder de bevestigingsring en de bedieningsknop.
- Gebruik een geschilderd gereedschap dreveel (4 mm) om de borgveer eruit te tikken.

Alle delen zijn nu toegankelijk voor reiniging en/of vervanging.

MONTAGE VAN DE HANDBEDIENING

Monteer alle delen in omgekeerde volgorde als aangegeven is bij demontage, let daarbij wel op de montagetekening voor de juiste plaatsing van de onderdelen.

- OPMERKING: Voor de roestvrijstaal afsluiters raden we ten sterke aan om een specifiek smermidemel te gebruiken tegen vastlopen, om vreten van het staal te voorkomen.
- OPMERKING: Vet alle rubberen onderdelen in met hoogwaardig siliconen.

Een aparte fabrikantenverklaring van inbouw, in de zin van EU-richtlijn 89/392/EEG annexel II B, is op aanvraag verkrijgbaar. Vermeld bij aanvraag a.u.b. het orderbevestigingsnummer en het serienummer. Dit product volgt aan de fundamentele voorschriften van EMC-richtlijn 89/336/EEG, LS-richtlijn 73/23/EEG + 93/68/EEG en de bijbehorende wijzigingen. Een afzonderlijke verklaring van overeenstemming is op verzoek verkrijgbaar.

I i piloti sono muniti dei seguenti morsetti elettrici:
• Morsetto: racchiusa in custodia metallica. Entrata cavi con pressacavi tipo "Pg".

MESSA IN FUNZIONE

Prima di dare pressione alla valvola, eseguire un test elettrico. Eccitare la bobina diverse volte fino a notare una scossa smorzata che indica che la solenoide è entrata in funzione.

SERVIZIO

Molte elettrovalvole sono provviste di bobine per il funzionamento continuo. Per prevenire la possibilità di danneggiare cose o persone, non toccare il solenoide. Se di facile accesso, l'elettrovalvola deve essere protetta per evitare qualsiasi contatto accidentale.

EMISSIONE SUONI

L'emissione di suoni dipende dall'applicazione e dal tipo di elettrovalvola. L'utente può stabilire esattamente il livello del suono solo dopo aver installato la valvola sul suo impianto.

MANUTENZIONE

Generalmente questi componenti non necessitano spesso di manutenzione. Comunque in alcuni casi è necessario fare attenzione a depositi o ad eccessiva usura. Questi componenti devono essere puliti periodicamente. Nei terminali di elettricità, una pratica e l'altra varia a seconda delle condizioni di funzionamento. La durata dei componenti dipende dalle condizioni di funzionamento. In caso di usura è disponibile un set completo di parti interne per la revisione. Se si incontrano problemi durante l'installazione e la manutenzione o se si hanno dei dubbi, consultare ASCO Numerics o i suoi rappresentanti.

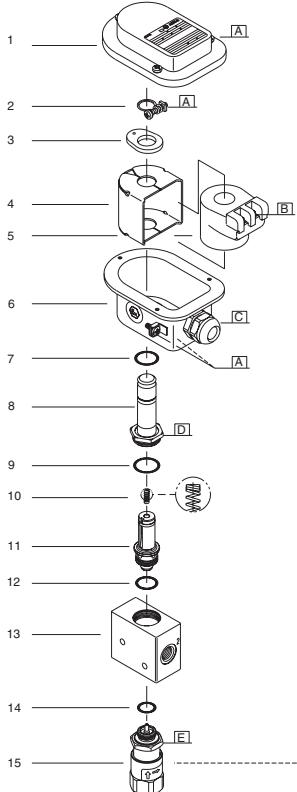
| DRAWING | DESSIN | ZEICHNUNG |
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| DISEGNO | DIBUJO | TEKENING |



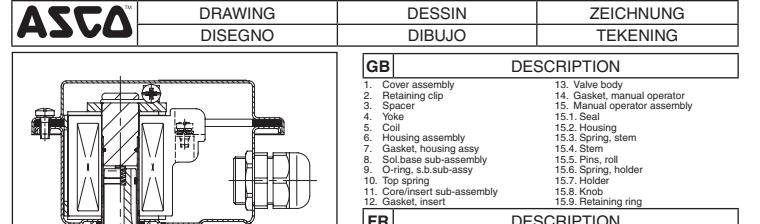
SERIES

327

| | |
|-----------|-----------------------------------------|
| GB | ● Manual operator optional |
| FR | ● Commande manuelle en option |
| DE | ● Handnotbetätigung (Sonderausstattung) |
| ES | ● Mando manual en opcion |
| IT | ● Comando manuale in opzione |
| NL | ● Handbediening optioneel |



| | | |
|----------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ø | Catalogue number Code électrovanne Katalognummer Código del electrovalvula Codice elettrovalvola Katalogus nummer | Spare part kit Code pochette de rechange Ersatzteilsatz Código del kit de recambio Codice di ricambio Kit parti di ricambio Vervangingsset |
| 1/4 | EMG327A101 WSEMGM327A102 EMG327A111 WSEMGM327A112 | C132-250 C132-251 C132-252 C132-253 |



| | | |
|-----------|-----------------------------------------|--------------------|
| GB | * Supplied in spare part kit | DESCRIPTION |
| FR | * Livrées en pochette de recharge | |
| DE | * Enthalten im Ersatzteilsatz | |
| ES | * Incluido en Kit de recambio | |
| IT | * Disponibile nel Kit parti di ricambio | |
| NL | * Geleverd in vervangingsset | |

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|----------|---------|--------|
| A | 1,5±0,2 | 12±2 |
| B | 0,5±0,1 | 4±1 |
| C | 2±0,2 | 17±2 |
| D | 30±3 | 260±25 |
| E | 14±2 | 125±2 |

| | | |
|--------------|----------------------|--------------------|
| ITEMS | NEWTON.METRES | INCH.POUNDS |
| | | |

| | | |
|----------|---------|--------|
| A | 1,5±0,2 | 12±2 |
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| | | |