

ASCO INSTALLATION AND MAINTENANCE INSTRUCTIONS normally closed, pilot operated floating piston, for cryogenic service 1

Series 210LT are 2-way, normally closed pilot operated, DC, solenoid valves with a floating piston. The body is brass construction.

INSTALLATION
ASCO Numatics components are intended to be used only within the technical characteristics as specified on the nameplate. Changes to the equipment are only allowed after consulting the manufacturer or its representative. Before installation depressurize 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 the 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 deenergize 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 can have one of the following electrical terminals:

- Spade plug connections according to ISO4400 (when correctly installed as separate parts with IP65 protection).
- Embedded screw terminals in metal enclosure with "Pg" cable gland.
- Flying leads or cables.

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 metal 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.

NOISE 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 Numatics 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 malfunction occurs during installation, maintenance or in case of doubt please contact ASCO Numatics or authorised representatives.

REPAIR PARTS
For repair parts, please refer to the ASCO Numatics parts catalogue.

WARRANTY
The warranty period is 12 months from the date of purchase. The warranty is void if the product has been modified or used for purposes other than those intended.

ENVIRONMENTAL PROTECTION
The product is designed to be used in a clean, dry environment. It is not suitable for use in corrosive or explosive atmospheres.

GENERAL INFORMATION
The product is designed to be used in a clean, dry environment. It is not suitable for use in corrosive or explosive atmospheres.

SAFETY
The product is designed to be used in a clean, dry environment. It is not suitable for use in corrosive or explosive atmospheres.

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

- Remove retaining clip and slip the coil off the solenoid base sub-assembly. CAUTION: When the retaining clip disengages, it can spring upwards. Remove the spring washer.
- Uncrew and remove the solenoid base sub-assembly and the core-assembly from the valve body. Remove the solenoid base sub-assembly gasket from the valve body.
- Remove the 4 cylinder screws including the lockwashers. Remove the cylinder, the piston spring and the entire piston assembly.
- Remove the valve body seal and the body passage seal.
- Uncrew the lock nut to disassemble the piston assembly. Remove the washer and the piston disc from the piston assembly. Remove the rider rings, the piston ring and the piston ring expander from the piston.
- 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. Replace the valve body seal and the body passage seal.
- Reassemble the piston assembly by placing the piston ring expander, the piston ring and the rider rings onto the piston assembly. Replace the piston disc and the washer in the piston assembly and tighten the lock nut securely without distorting the piston disc.
- Place the piston spring in the piston assembly, and insert both into the cylinder.
- NOTE: When inserting piston assembly into the cylinder, carefully compress rider rings and piston ring to prevent damage. Be sure the piston assembly has freedom of movement.
- Replace the 4 lockwashers and the 4 cylinder screws, and torque according to torque chart.
- NOTE: While replacing the cylinder, you may use a flat steel rule (or similar tool) to retain the piston assembly in the cylinder during assembly.
- Replace the core assembly. Replace the gasket and torque the solenoid base sub-assembly according to torque chart.
- Replace spring washer, coil and retaining clip.
- After maintenance, operate the valve a few times to be sure of proper operation.

A separate Declaration of Incorporation relating to EEC Directive 89/392/EEC Annex II B is available on request. Please provide acknowledgement number and serial numbers of products concerned. This product complies with the essential requirements of the EMC Directive 89/336/EEC and amendments as well as the 73/23/EEC - 93/68/EEC Low Voltage Directives. A separate Declaration of Conformity is available on request.

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ASCO INSTRUCTIONS D'INSTALLATION ET D'ENTRETIEN normalement fermée, à commande assistée piston non attelé, pour service cryogénique 1

DESCRIPTION
Les vannes de la série 210LT font partie de la gamme des électrovannes bidirectionnelles, normalement fermées, à commande assistée, à courant continu, à piston non attelé. Le corps est en laiton.

MONTAGE
Les composants ASCO Numatics sont conçus pour les domaines de fonctionnement indiqués sur la plaque signalétique ou la documentation. Aucune modification ne peut être réalisée sur le matériel sans l'accord préalable du fabricant ou de son représentant. Avant de procéder au montage, dépressuriser les canalisations et effectuer un nettoyage interne. Les électrovannes peuvent être montées dans n'importe quelle position. Le sens de circulation du fluide est indiqué par repères sur le corps et dans la documentation.

La dimension des tuyauteries doit correspondre au raccordement indiqué sur le corps, l'étiquette ou la notice.

- ATTENTION:**
- Une restriction des tuyauteries peut entraîner des dysfonctionnements.
 - Afin de protéger le matériel, installer une crépine ou un filtre adéquat en amont, aussi près que possible du produit.
 - En cas d'utilisation de ruban, pâte, aérosol ou un lubrifiant lors du serrage, veillez à ce qu'aucun corps étranger ne pénétre dans le circuit.
 - Utiliser un outillage approprié et placer les clés aussi près que possible du point de serrage.
 - Afin d'éviter toute déformation, NE PAS TROP SERRER les raccords des tuyauteries.
 - Ne pas se servir de la vanne ou de la tête magnétique comme d'un levier.
 - Les tubes de raccordement ne doivent exercer aucun effort, couple ou contrainte sur le produit.

RACCORDEMENT ELECTRIQUE
Le raccordement électrique doit être réalisé par un personnel qualifié et selon les normes et règlements locaux.

- ATTENTION:**
- Avant toute intervention, couper l'alimentation électrique pour mettre hors tension les composants.
 - Toutes les bornes à vis doivent être serrées correctement avant la mise de service.
 - Selon la tension, les composants électriques doivent être mis à la terre conformément aux normes et règlements locaux.

Selon les cas, le raccordement électrique s'effectue par:

- Connecteurs débranchables ISO-4400 (avec degré de protection IP-65 lorsque le raccordement est correctement effectué).
- Bornes à vis solidaires du boîtier, sous boîtier métallique avec presse-étoupe câble "Pg".
- Fils et câbles solidaires de la bobine.

MISE EN SERVICE
Avant de mettre le circuit sous pression, effectuer un essai électrique. Dans le cas d'une électrovanne, mettre la bobine sous tension plusieurs fois et écouter le "clic" métallique qui signale le fonctionnement de la tête magnétique.

FONCTIONNEMENT
La plupart des électrovannes comportent des bobinages prévus pour mise sous tension permanente. Pour éviter toute brûlure, ne pas toucher la tête magnétique qui, en fonctionnement normal et en permanence sous tension, peut atteindre une température élevée. Si l'électrovanne est facilement accessible, l'installateur doit prévoir une protection empêchant tout contact accidentel.

BRUIT DE FONCTIONNEMENT
Le bruit de fonctionnement varie selon l'utilisation, le fluide et le type de matériel employé. L'utilisateur ne pourra déterminer avec précision le niveau sonore émis qu'après avoir monté le composant sur l'installation.

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ASCO INSTRUCCIONES DE INSTALACION Y MANTENIMIENTO normalmente cerradas, accionadas mediante piloto piston flotante, para servicio criogenico 1

DESCRIPCION
La Serie 210LT está formada por válvulas solenoides, bidireccionales, accionadas mediante piloto normalmente cerradas, DC, con piston flotante. El cuerpo está construido de latón.

INSTALACION
Los componentes ASCO Numatics sólo deben utilizarse dentro de las especificaciones técnicas que se especifican en su placa de características. No se debe realizar ninguna modificación en el equipo sin el consentimiento expreso del fabricante o su representante. Antes de la instalación, despresurice el sistema de tuberías y limpie internamente. El equipo puede utilizarse en cualquier posición. El sentido de circulación del fluido y la conexión de las válvulas a la tubería.

- Las conexiones a la tubería deben corresponder al tamaño indicado en la placa de características y ajustarse adecuadamente.
- PRECAUCION:**
- La reducción de las conexiones puede causar operaciones incorrectas de funcionamiento.
 - Para la protección del equipo se debe instalar en la parte de la entrada y tan cerca como sea posible del producto un filtro o tamizador adecuado para el servicio.
 - Si se utilizará cinta, pasta, spray u otros lubricantes en el ajuste, se debe evitar que entren partículas en el producto.
 - Se debe utilizar las herramientas adecuadas y colocar los clavos lo más cerca posible del punto de ajuste.
 - Para evitar daños al equipo, NO FORZAR las conexiones a la tubería.
 - No utilizar la válvula o el solenoide como palanca.
 - Las conexiones a la tubería no producirán ninguna fuerza, apriete o tensión sobre el producto.

CONEXION ELECTRICA
En caso de requirirse conexiones eléctricas, estas serán realizadas por personal cualificado y deberán adaptarse a las normas y regulaciones locales.

- PRECAUCION:**
- Antes de comenzar el trabajo, desconecte el suministro de energía eléctrica y desenergice el circuito electrónico y los elementos portadores de tensión.
 - Todos los terminales eléctricos deben estar apretados adecuadamente según normas antes de su puesta en servicio.
 - Según el voltaje, los componentes electrónicos deben disponer de una conexión a tierra y satisfacer las normas y regulaciones locales.

El equipo puede tener uno de los siguientes terminales eléctricos:

- Conexiones desenchufables según la norma ISO-4400 (cuando se instala correctamente esta conexión proporciona una protección IP-65).
- Terminales de tornillo con carcasa metálica con entrada de cable de conexión rosca "Pg".
- Salida de cables.

PUESTA EN MARCHA
Se debe efectuar una prueba eléctrica antes de someter a presión el sistema. En el caso de las válvulas solenoides, se debe energizar varias veces la bobina y comprobar que se produce un sonido metálico que indica el funcionamiento del solenoide.

SERVICIO
La mayor parte de las válvulas solenoides se suministran con bobinas para el servicio continuo. Con el fin de evitar la posibilidad de daños personales o materiales no se debe tocar el solenoide, ya que puede haber calentado en condiciones normales de trabajo. Si la electroválvula es de fácil acceso, el instalador debe prever una protección que impida cualquier contacto accidental.

EMISION DE RUIDOS
La emisión de ruidos depende de la aplicación, medio y naturaleza del equipo utilizado. Una determinación exacta del nivel de ruido solamente se puede llevar a cabo por el usuario que disponga la válvula instalada en su sistema.

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ENTRETIEN
L'entretien nécessaire aux produits ASCO Numatics varie avec leurs conditions d'utilisation. Il est souhaitable de procéder à un nettoyage périodique dont l'intervalle varie suivant la nature du fluide, les conditions de fonctionnement et le milieu ambiant. Lors de l'intervention, les composants doivent être examinés pour détecter toute usure excessive. Un ensemble de pièces internes est proposé en pièces de rechange pour procéder à la réparation. En cas de problème lors du montage/entretien ou en cas de doute, veuillez contacter ASCO Numatics ou ses représentants autorisés.

DESMONTAGE DE LA VANNE
Démontez de façon méthodique, sur les vues en éclaté fournies dans la pochette et destinées à l'identification des pièces.

- Oter le clip de maintien et faire glisser la bobine hors du sous-ensemble de la bobine et de la tête magnétique. ATTENTION: lorsque le clip de maintien métallique est ôté, il peut bondir vers le haut. Ôter la rondelle élastique.
- Dévisser et ôter le sous-ensemble de base du solénoïde, puis le montage du noyau hors du corps. Enlever le joint d'étanchéité en sous-ensemble de base de solénoïde hors du corps.
- Dévisser les 4 vis du cylindre ainsi que les rondelles d'arrêt. Enlever le cylindre, le ressort du piston ainsi que l'ensemble du montage du piston.
- Enlever le joint du corps de la vanne et celui du passage du corps.
- Dévisser l'écrou d'arrêt afin de démonter le piston. Enlever la rondelle et le disque du piston hors du montage du piston. Enlever les bagues du curseur, la bague du piston et la pince à segment hors du piston.
- Vous pouvez dès à présent nettoyer ou remplacer toutes les pièces.

REMONTAGE DE LA VANNE
Remonter en sens inverse.

- NOTE: Lubrifier tous les joints d'étanchéité/joints toriques avec de la graisse silicone de haute qualité. Remplacer le clip du corps de la vanne et celui du passage du corps.
- Remonter le montage du piston en y plaçant dessus la pince à segment du piston, la bague du piston et les bagues du curseur. Remplacer le disque du piston et la rondelle dans le montage du piston, puis serrer soigneusement l'écrou d'arrêt en veillant à ne pas déformer le disque du piston.
- Placer le ressort du piston dans ce dernier, puis les insérer tous deux dans le cylindre.
- NOTE: En insérant le montage du piston dans le cylindre, éviter de pincer soigneusement les bagues du curseur et la bague du piston afin d'éviter tout endommagement des pièces. Veiller à ce que le mouvement du piston puisse s'effectuer sans contrainte.
- Remplacer les 4 rondelles d'arrêt et les 4 vis du cylindre selon le schéma de couple.
- NOTE: Lorsque vous replacez le cylindre, vous pouvez vous servir d'une règle plate (ou tout autre objet semblable) pour retenir le piston dans le cylindre durant le montage.
- Remplacer le montage du noyau. Remplacer le joint d'étanchéité en sous-ensemble de base de solénoïde selon le schéma de couple.
- Remplacer la rondelle élastique du ressort, la bobine et le clip de maintien.
- Après l'entretien, faire fonctionner la vanne quelques fois afin de s'assurer qu'elle s'ouvre et se ferme correctement.

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DESCRIZIONE
Le elettrovalvole della Serie 210LT sono a 2 vie, normalmente chiuse, ad azionamento pilota, CD, con un pistone galleggiante. Il corpo è fabbricato in ottone.

INSTALLAZIONE
I componenti ASCO Numatics devono essere utilizzati esclusivamente rispettando le caratteristiche tecniche specificate sulla targhetta. Variazioni all'apparecchiatura sono ammissibili solo dopo aver consultato il costruttore o il suo rappresentante. Prima dell'installazione, depressurizzare i tubi e pulire internamente. L'apparecchiatura può essere montata in tutte le posizioni. La direzione del flusso ed i collegamenti ai tubi sono indicati sul corpo delle valvole.

I raccordi devono essere conformi alla misura indicata sull'apposita targhetta e devono essere montati in conformità.

- ATTENZIONE:**
- Ridurre i raccordi può causare operazioni sbagliate o malfunzionamento.
 - Per proteggere il componente installare, il più vicino possibile al lato ingresso, un filtro adatto al servizio.
 - Se si usano nastro, pasta spray o lubrificanti simili durante il serraggio, evitare che delle particelle entrino nel corpo della valvola.
 - Usare utensili appropriati e posizionare le chiavi il più vicino possibile al punto di riacordo.
 - Per evitare danni al corpo della valvola, NON SERRARE ECCESIVAMENTE i raccordi.
 - Non usare la valvola o il solenoide come una leva.
 - I raccordi non devono esercitare pressione, torsione o sollecitazione sul prodotto.

ALLACCIAMENTO ELETTRICO
L'allacciamento elettrico deve essere effettuato esclusivamente da personale specializzato e deve essere conforme alle norme locali.

- ATTENZIONE:**
- Prima di mettere in funzione, togliere l'alimentazione elettrica, disconnettere il circuito elettrico e le parti sotto tensione.
 - I morsetti elettrici devono essere correttamente avvitati secondo le norme prima della messa in servizio.
 - Le elettrovalvole devono essere provviste di morsetti di terra a seconda della tensione e delle norme di sicurezza locali.

- I piloti possono avere una delle seguenti caratteristiche elettriche:
- Connettori a lancia secondo ISO-4400 (se installato correttamente, la classe di protezione di questo connettore è IP65).
 - Morsettiere racchiusa in custodia metallica. Entrata cavi con prescavi tipo "Pg".
 - Bobine con fili o cavo.

MESSA IN FUNZIONE
Prima di dare pressione alla valvola, eseguire un test elettrico. Eccitare la bobina diverse volte fino a notare uno scatto metallico che dimostra il funzionamento del solenoide.

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. Il tempo che intercorre tra una pulizia e l'altra varia a seconda delle condizioni di funzionamento. Il ciclo di 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 Numatics o i suoi rappresentanti.

SMONTAGGIO VALVOLE
Smontare procedendo con ordine. Consultare attentamente gli esplosi forniti per una corretta identificazione delle parti.

- Rimuovere la clip di fissaggio e sfilare la bobina dal sottogruppo base solenoide. ATTENZIONE: Quando si sgancia la clip metallica di fissaggio, può scattare verso l'alto. Smontare la ghiera.
- Svitare e togliere il gruppo canotto solenoide ed il gruppo canotto dal corpo valvola. Togliere la guarnizione del gruppo canotto solenoide dal corpo valvola.
- Svitare le 4 viti del cilindro incluso le rondelle di sicurezza. Togliere il cilindro, la molla del pistone e l'intero gruppo pistone.
- Togliere la tenuta del corpo valvola e la tenuta del passaggio del corpo.
- Svitare il controldato per smontare il gruppo pistone. Togliere la rondella ed il disco del pistone dal gruppo pistone. Togliere gli anelli del cavalletto, l'anello del pistone e l'allargatore dell'anello del pistone dal pistone.
- Ora tutte le parti sono accessibili per la pulizia o la sostituzione.

RIMONTAGGIO VALVOLE
Rimontare procedendo nell'ordine inverso facendo riferimento agli esplosi forniti per la corretta identificazione e collocazione delle parti.

NOTA: Lubrificare tutte le guarnizioni/anelli di tenuta con grasso al silicone d'alta qualità. Rimettere la tenuta del corpo valvola e la tenuta del passaggio del corpo valvola.

- Rimontare il gruppo pistone collocando l'allargatore dell'anello del pistone, l'anello del pistone e gli anelli del cavalletto sul gruppo pistone. Rimettere il disco del pistone e la rondella nel gruppo pistone e serrare saldamente il controldato senza deformare il disco del pistone.
- Collocare la molla del pistone nel gruppo pistone ed inserire entrambi nel cilindro.
- NOTA: Quando si inserisce il gruppo pistone nel cilindro, prestare attenzione quando si premono gli anelli del cavalletto e l'anello del pistone onde evitare danni. Assicurarsi che il gruppo pistone abbia libertà di movimento.
- Rimettere le 4 rondelle di sicurezza e le 4 viti del cilindro e serrare secondo il diagramma di coppia.
- NOTA: Mentre si rimette a posto il cilindro, è possibile usare un righello in acciaio piatto (o un attrezzo simile) per tenere il gruppo pistone nel cilindro durante il montaggio.
- Rimettere il gruppo canotto. Rimettere la guarnizione e serrare il gruppo canotto solenoide secondo il diagramma di coppia.
- Rimontare la ghiera, la bobina e la clip di fissaggio.
- Dopo la manutenzione, azionare ripetutamente la valvola per accertarne il corretto funzionamento.

L'utente può richiedere al costruttore una Dichiarazione di Conformità separata relativa alla Direttiva CEE 89/392 Allegato II B. Precisando il numero della conferma d'ordine i numeri di serie dei prodotti. Il presente prodotto è conforme ai requisiti essenziali della Direttiva EMC 89/336/CEE e successive modifiche nonché alle Direttive sulla Bassa Tensione 73/23/CEE e 93/68/CEE. È disponibile a richiesta una Dichiarazione di Conformità separata.



NL

BESCHRIJVING
Afsluiters uit de 210LT-serie zijn 2-weg, normaal gesloten, indirect werkende magneetafsluiters (DC) met een niet-gekoppelde zuiger. Het afsluiterhuis is van messing.

INSTALLATIE
ASCO Numatics producten mogen uitsluitend toegepast worden binnen de op de naamplaat aangegeven specificaties. Wijzigingen zijn alleen toegestaan na overleg met de fabrikant of haar vertegenwoordiger. Voor het bouwen dient het leidingsysteem drukloos gemaakt te worden en inwendig gereinigd. De apparatuur kan in iedere stand worden gemonteerd. De doorstroombaring wordt bij afsluiters aangegeven op het afsluiterhuis.

- LET HIERBU OP:
- Een reductie van de aansluitingen kan tot prestatie en functiestoornissen leiden.
 - Ter bescherming van de interne delen wordt een filter in het leidingnet aanbevolen.
 - Bij het gebruik van draadafsluitingspasta of tape mogen er geen deeltjes in het leidingwerk geraken.
 - Wanneer u uitsluitend geschikt gereedschap te gebruiken en de moersleutels zo dicht mogelijk bij het aansluitpunt te plaatsen.
 - Gebruik een zodanig koppel voor leidingverbindingen dat het product NIET WORDT BESCHADIGD.
 - De afsluiter of de magneet mag niet als hefboom worden gebruikt.
 - De pijp aansluitingen mogen geen krachten, momenten of druk op het product overdragen.

ELEKTRISCHE AANSLUITING
In geval van elektrische aansluiting dient dit door vakbekend personeel te worden uitgevoerd volgens de door de plaatselijke overheid bepaalde richtlijnen.

LET HIERBU OP:

- Voordat men aan het werk begint moeten alle spanningsvoerende delen spanningsloos worden gemaakt.
- Alle aansluitklemmen moeten na het beklijnden van het werk volgens de juiste normen worden aangeklaard.
- Al naar gelang het spanningsbereik moet het product volgens de geldende normen van een aarding worden voorzien.

Het product kan de volgende aansluitingen hebben:

- Stekeraansluiting volgens ISO4400 (bij juiste montage wordt de dichtheidsklasse IP65 verkregen).
- Aansluiting in het metaal huis d.m.v. schroefaansluiting. De kabeldoorvoer heeft een "PG" aansluiting.
- Losses of aangeoten kabels.

IN GEBRUIK STELLEN
Voordat de druk aangesloten wordt dient een elektrische test te worden uitgevoerd. Ingeval van magneetafsluiters legt men meerdere malen spanning op de spoel aan waarbij een duidelijk "klikken" hoorbaar moet zijn bij juiste functioneren.

GEBRUIK
De meeste magneetafsluiters zijn uitgerust met spoelen voor continu gebruik. Om persoonlijk letsel en schade door aanraking van het spoelhuis te voorkomen dient men het aanraken te vermijden, omdat bij langdurige inschakeling de spoel of het spoelhuis heet kan worden. In voorkomende gevallen dient men de spoel af te schermen voor aanraking.

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

ONDERHOUD
Het onderhoud aan de afsluiters 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. In geval van problemen of als er onduidelijkheden tijdens montage, gebruik of onderhoud optreden, dan dient men zich tot ASCO Numatics of haar vertegenwoordiger te wenden.

DEMONTAGE
Nemen de afsluiter op een ondergrond die elkaar. Raadpleeg daarbij de montagetekeningen die de afzonderlijke onderdelen benoemen.

- Verwijder de bevestigingsclip en schuif de zuiger van de kopstuk/deksel-combinatie. LET OP: bij het verwijderen van de bevestigingsclip kan deze omhoog springen. Verwijder de veerring.
- Schroef de kopstuk/deksel-combinatie los en verwijder de plunjier uit het afsluiterhuis. Verwijder de afdichting van de kopstuk/deksel-combinatie uit het afsluiterhuis.
- Draai de 4 cilinderbouten inclusief borgring los. Verwijder de cilinder, de zuigerveer en de zuiger.
- Verwijder de afdichtingen van het afsluiterhuis en het poortgat.
- Schroef de borgring los om de zuiger te kunnen demontieren. Verwijder de ring en de zuigerklep van de zuiger. Verwijder de geleideringen, de zuigerafdeling en de zuigerafdelingspreider van de zuiger.
- Alle delen zijn nu toegankelijk voor reiniging of vervanging.

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

- OPMERKING: Vet alle afdichtingen/O-ringen in met hoogwaardig siliconenvet. Monteer de afdichtingen van het afsluiterhuis en het poortgat.
- Maak de plunjier klaar voor montage door de zuigerafdelingspreider, de zuigerafdeling en de geleideringen om de zuiger te doen.
- Monteer de zuigerklep en de ring op de zuiger, en draai de borgring stevig vast zonder de zuigerklep te vervormen.
- Doe de zuigerveer in de zuiger, en schuif ze samen in de cilinder. OPMERKING: Krijp de geleideringen en de zuigerafdeling samen terwijl u de zuiger in de cilinder schuift, om te voorkomen dat deze beschadigd raken. Controleer of de zuiger voldoende bewegingsvrijheid heeft.
- Draai de 4 cilinderbouten en borgringen met het juiste aandraaimoment vast. OPMERKING: Bij het monteren van de cilinder kunt u een vlakke stalen liniaal (of iets dergelijks) gebruiken om de zuiger in de cilinder op zijn plaats te houden.
- Duw de plunjier weer op zijn plaats. Monteer de afdichting en draai de kopstuk/deksel-combinatie met het juiste aandraaimoment vast.
- Monteer nu de veerring, de spoel en de bevestigingsclip.
- Na het onderhoud dient men de afsluiter een aantal malen te bedienen om de werking ervan te controleren.

Een aparte fabrikantenverklaring van inbouw, in de zin van EU-richtlijn 89/392/EEG aanhangsel II B, is op aanvraag verkrijgbaar. Vermeld bij aanvraag a.s.u.b. het orderbevestigingsnummer en het serienummer. Dit product voldoet 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.

ASCO DRAWING DESSIN ZEICHNUNG
DISEGNO DIBUJO TEKENING

CE SERIES 210

1* 2 3 4* 5 6* 7* 8* 9 10* 11 11.1* 11.2* 11.3* 11.4* 11.5 11.6* 11.7* 13 14 15

NOTE: Tighten lock nut securely. Do not distort disc.
FR Note: serrer solidement l'écrou d'arrêt. Ne pas déformer le disque.
DE Hinweis: Sicherungsmutter fest anziehen. Schibe nicht verformen.
ES Nota: apriete la tuerca de seguridad firmemente. No deforme el disco.
NL Note: strngenez saldamente het controldato. Niet deformeer it disco.
NB Omerking: draai de borgring stevig vast. Zorg dat de clip niet vervormt.

Ø	Catalogue number Code électronique Katalognummer Código de la electrovalvula Codice elettrovalvola Katalogus nummer	Spare part kit Code pochette de rechange Ersatzteilsatz Código del kit de recambio Kit parti di ricambio Vervangingsset
1	SCB 210 C 078 LT	C310-301 LT

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

TORQUE CHART		
A	0,6 ± 0,2	5 ± 2
B	43 ± 3	380 ± 25
C	16,3 ± 1,7	144 ± 15

ITEMS NEWTON.METRES INCH.POUNDS

ASCO DRAWING DESSIN ZEICHNUNG
DISEGNO DIBUJO TEKENING

GB DESCRIPTION

- Retaining clip 11.2 washer
- Coil & nameplate 11.3 piston disc
- Connector assembly 11.4 rider ring (2x)
- Spring washer 11.5 piston
- Sol Base sub-assembly 11.6 piston ring
- Gasket, sol. Base sub-assembly 11.7 piston ring expander
- Cone assembly 12. Piston spring
- Body passage seal 11.8 cylinder
- Valve body 11.9 lockwasher (4x)
- Valve body seal 15. Cylinder screw (4x)
- Piston assembly 11.1 lock nut

FR DESCRIPTION

- Etrier 11.2 rondelle
- Bobine & plaque d'identification 11.3 disque du piston
- Montage du connecteur 11.4 bague du curseur (2x)
- Rondelle elastique 11.5 piston
- Sol. Sous-ensemble de base 11.6 bague du piston
- Joint d'étanchéité, sol. Sous-ensemble de base 11.7 pièce a segment du piston
- Noyau 12. Ressort du piston
- Joint de passage du corps 13. Cylindre
- Corps 14. Rondelle d'arrêt (4x)
- Joint du corps de la vanne 15. Vis du cylindre (4x)
- Piston 11.1 écrou d'arrêt

DE BESCHREIBUNG

- Klammerhalterung 11.2 Scheibe
- Spule & Typenschild 11.3 Kolbenscheibe
- Geräteeckdose 11.4 Ritterring (2x)
- Federschleibe 11.5 Kolben
- Halte-mutter 11.6 Kolbenring
- Dichtung, Halte-mutter 11.7 Kolbenring-spreizfeder
- Magnetankerbaugruppe 12. Kolbenfeder
- Verteilgehäuse-dichtung 13. Zylinder
- Verteilgehäuse 14. Sicherungsschleibe (4x)
- Verteilgehäusedichtung 15. Zylinderstange (4x)
- Kolbenbaugruppe 11.1 Sicherungsmutter

ES DESCRIPCION

- Clip de sujeción 11.2 arandela
- Bobina y placa de características 11.3 disco del pistón
- Conjuntio del conector 11.4 arandela de desplazamiento (2x)
- Arandela resorte 11.5 pistón
- Sol. Conjunto de la base 11.6 anillo del pistón
- Conector, sol. Conjunto de la base 11.7 expansor del anillo del pistón
- Conjuntio del núcleo 12. Resorte del pistón
- Junta del paso del cuerpo 13. Cilindro
- Cuerpo de la valvula 14. Arandela de seguridad (4x)
- Junta del cuerpo de la valvula 15. Tornillo del cilindro (4x)
- Conjuntio del pistón 11.1 tuerca de seguridad

IT DESCRIZIONE

- Clip di fissaggio 11.2 rondella
- Bobina e targhetta 11.3 disco del pistone
- Gruppo connettore 11.4 anello del cavalletto (2x)
- Rondella elastica 11.5 pistone
- Gruppo canotto 11.6 anello del pistone
- Guarnizione, sol. Canotto 11.7 allargatore dell'anello del pistone
- Cono del passo del corpo 12. Molla del pistone
- Tenuta del passaggio del corpo 13. Cilindro
- Corpo 14. Rondella di sicurezza (4x)
- Tenuta del corpo valvola 15. Vite del cilindro (4x)
- Gruppo pistone 11.1 controldato

NL BESCHRIJVING

- Bevestigingsclip 11.2 ring
- Spoel met typeplaatje 11.3 zuigerklep
- Stekker 11.4 bewegende geleidering (2x)
- Veerring 11.5 zuiger
- Kopstuk/deksel 11.6 zuigerafdeling
- Afdichting, kopstuk/deksel 11.7 zuigerafdelingspreider
- Plunjier 12. Zuigerveer
- Zuigerveer 12. Zuigerveer
- Afdichting, poortgat 13. Cilinder
- Afsluiterhuis 14. Borgring (4x)
- Afdichting, afsluiterhuis 15. Cilinderbout (4x)
- Zuiger 11.1 borgring