



INSTALLATION AND MAINTENANCE INSTRUCTIONS

normally closed, pilot operated hung piston, for cryogenic service

1/2 to 3/4



DESCRIPTION

Series 222LT are 2-way, normally closed pilot operated, AC and DC, solenoid valves with a hung piston construction. The body is brass construction.

INSTALLATION

ASCO Numatics components are intended to be used only within the technical characteristics indicated on the nameplate. Changes to the equipment must only be allowed after consulting the manufacturer or its representative. Before installation depressurise the piping system and clean internally. The equipment must be mounted vertical and in an upright 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:

- Pulling 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 prevent 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 deenergise 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 this connection provides IP65 protection).
- 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 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 operating conditions. If the solenoid valve is easily accessible, the installer must provide protection preventing accidental contact.

SOUND 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.



BETRIEBSANLEITUNG

Magnetventile, normal geschlossen, vorgesteuert; Magnetventile mit zwangsgesteuertem Kolben für Tieftemperaturanwendungen 1/2 bis 3/4



BESCHREIBUNG

Bei der Baureihe 222LT handelt es sich um normal geschlossene, vorgesteuerte 2-Wege-Gleichstrom- und Wechselstrom-Magnetventile mit zwangsgesteuertem Kolben. Das Gehäuse besteht aus Messing.

EINBAU

Die ASCO Numatics-Komponenten dürfen nur innerhalb der auf den Typenschildern angegebenen Daten eingesetzt werden. Veränderungen an den Produkten sind nur nach Rücksprache mit ASCO Numatics zulässig. Die Reinigung und Wartung des Rohrleitungssystems drückt geschult und innen gereinigt werden. Das Gerät muss vertikal in aufrechter Position montiert werden. Die Durchflussrichtung und der Rohrleitungsaanschluß von Ventilen sind gekennzeichnet.

Die Rohrleitungsanschlüsse sollten entsprechend den Größenangaben auf den Typenschildern mit handschriftlichen Verschraubungen durchgeführt werden.

VORSICHT:

- Eine Reduzierung der Anschlüsse kann zu Leistungs- und Funktionsminderungen führen.
- Zum Schutz der Ventile sollte 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 Dichtungsmaterial in die Rohrleitung oder das Ventil gelangt.
- Zum Einbau darf nur geeignetes Werkzeug verwendet werden, das so nahe wie möglich am Anschlusspunkt anzusetzen ist.
- Um die Lebensdauer der Produkte zu verhindern, ist darauf zu achten, dass die Rohrleitungsanschlüsse NICHT ZU STARK ANGEZOGEN werden.
- Spule und Führungsrühr 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.

VORSICHT:

- Vor Beginn der Arbeiten ist sicherzustellen, daß alle elektrischen Leitungen und Netzteile spannungslös geschaltet sind.
- Alle Anschlußklemmen sind nach Beendigung der Arbeiten vor-schriftsmäßig entsprechend den geltenden Normen anzuziehen.
- Je nach Spannungsbereich muß das Ventil nach den geltenden Bestimmungen und Normen einen Schutzleiteranschluß erhalten.

Der Magnantrieb kann je nach Bauart folgende elektrische Anschlüsse aufweisen:

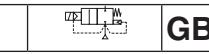
- Flachsteckeranschlüsse gemäß ISO-4400 (bei ordnungsgemäßer Montage ist Schutzart IP-65 gewährleistet).
- Anschlüsse innerhalb eines Metallgehäuses mittels Schraubklemmen. Kabelleiterführung ins Gehäuse mit PG-Verschraubung.

INBETRIEBNAHME

Vor Druckaufbau/Abbau des Produktes sollte eine elektrische Funktionsprüfung erfolgen. Bei Magnetventilen Spannung an der Magnetspule mehrmals ein- und ausschalten. Es muß ein metallisches Klicken zu hören sein.

BETRIEB

Die meisten Magnetventile sind mit Spulen für Dauerbetrieb ausgerüstet. 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 Instanzeur ein Schutz vorgenommen werden, um jegliches versehentliches Berühren zu vermeiden.



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 problem occurs during installation/maintenance or in case of doubt please contact ASCO Numatics or authorised representatives.

VALVE DISASSEMBLY

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

1. Remove retaining clip and slip the coil off the solenoid base sub-assembly. CAUTION: when metal retaining clip disengages, it can spring upwards. Remove the spring washer.
2. Unscrew and remove the solenoid base sub-assembly and remove its gasket from the bonnet.
3. Unscrew the 4 bonnet screws and remove the bonnet.
4. Remove the core spring, the core/piston assembly, and the valve body gasket.
5. 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.

1. NOTE: Lubricate all gaskets/O-rings with high quality silicone grease. Replace the valve body gasket.
2. Insert the core/piston assembly into the valve body, and insert the core/piston assembly including its spring into the bonnet.
3. Replace bonnet with the core/piston assembly compressed inside of it, and torque the 4 bonnet screws according to torque chart.
- NOTE: While replacing the bonnet, you may use a flat steel rule to help retain the core/piston base sub-assembly in the bonnet during assembly.
4. Replace the gasket and torque the solenoid base sub-assembly according to torque chart.
5. Replace spring washer, coil and retaining clip.
6. After maintenance, operate the valve a few times to be sure of proper operation.

A separate Declaration of Incorporation relating to EEC Directive 89/336/EEC Annex II B is available on request. Please supply the 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.

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.

MAINTENANCE

After turning on the power supply and deenergising 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 this connection provides IP65 protection).
- Embedded screw terminals in metal enclosure with "Pg" cable gland.

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DESCRIZIONE
Le elettrovalvole della Serie 222LT sono a 2 vie, normalmente chiuse, ad azionamento pilota, CA e CD, con una fabbricazione a pistone sospeso. Il corpo è fabbricato in ottone.

INSTALLAZIONE

I componenti ASCO Numerics devono essere utilizzati esclusivamente rispettando le caratteristiche tecniche specificate sulla targhetta. Variazioni dell'apparecchiatura sono ammissibili solo dopo avere consultato il costruttore o il suo rappresentante. Prima dell'installazione, depurare i tubi e pulire internamente. L'apparecchiatura deve essere montata in senso verticale ed in posizioni erette. 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 luogo ingresso, un filtro adatto al servizio.
- Se si usano nastri, pasta spray o lubrificanti simili durante il serraggio, evitare che delle particelle entri nel corpo della valvola.
- Usare utensili appropriati e posizionare le chiavi il più vicino possibile al punto di raccordo.
- Per evitare danni al corpo della valvola, NON SERRARE ECESSIVAMENTE i raccordi.
- Non usare la valvola o il solenoide come leva.
- I raccordi non devono esercitare pressione, torsione o sollecitazione sul prodotto.

ALLACCIAVIMENTO 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, disaccoppiare 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).
- Morsetti 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 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 spese 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 Numerics o i suoi rappresentanti.

SIMMONTAGGIO VALVOLE

Montare procedendo con ordine. Consultare attentamente gli esplosi forniti per una corretta identificazione delle parti.

- Rimuovere la clip di fissaggio e staccare 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 e togliere la relativa guarnizione del coperchio.
- Svitare le 4 viti del coperchio e togliere il coperchio.
- Togliere la molla del canotto. Il gruppo canotto/pistone e la guarnizione del corpo valvola.

5. 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/anello di tenuta con grasso al silicio prima della messa in servizio. Rimettere il coperchio con il gruppo canotto/pistone premuto a sufficienza e serrare le 4 viti del coperchio secondo il diagramma di coppia.
- NOTA: Mentre si rimonta il coperchio, è possibile usare un righello in acciaio piatto (o un attrezzo simile) per mantenere il gruppo canotto/pistone nel coperchio durante il montaggio.
- Rimettere 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.

Het product kan de volgende aansluitingen hebben:
• Standaardverbinding volgens ISO4400 (bij juiste montage wordt de dichtheidsklasse IP65 verkregen).
• Aansluiting in het metalen huls d.m.v. Schroef/aansluiting. De kabeldouche heeft een "FG" aansluiting.

BESCHRIJVING

Afsluiters uit de 222LT-serie zijn 2-weg, normaal gesloten, indirect werkende magneetsluiters (AC en DC) met gekoppelde zuiger. Het afsluituur is van messing.

INSTELLATIE

ASCO Numerics producten mogen uitsluitend toegepast worden binnen op de naamplaat aangegeven specificaties. Wijzigingen zijn alleen toegestaan overleg met de fabrikant of haar vertegenwoordiger. Voor het inbouwen dient het leidingsysteem drukloos gemaakt te worden en inwendig gereinigd. Dit product moet verticaal en rechtstroom richting word bij afsluiters aangegeven op het afsluituur.

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De pijpaansluiting moet overeenkomstig de naamplaatgegevens plaatsvinden.

LET HIERBIJ OP:

- Een reductie van de aansluitingen kan tot prestatie en functionaliteit leiden.
- Ter bescherming van de interne delen wordt een filter in het leidingnet aanbevolen.
- Bi het gebruik van draadafdriftchips of tape mogen er geen deeltjes in het leidingwerk geraken.
- Men dient uitsluitend geschikt gereedschap te gebruiken en de moersleutels zo dicht mogelijk bij het aansluitpunt te plaatsen.
- Gebruik een zodang koppel voor leidingverbindingen dat het product NIET WORDT BESCHADIGD.
- De afschalter of magneten mag niet als hefboom worden gebruikt.
- De pijpaansluitingen mogen geen krachten, momenten of druk op het product overdragen.

ELEKTRISCHE AANSLUITING

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

LET HIERBIJ OP:

- Vervelend men aan het werk begin moet moelen alle spanningsvoerende delen spanningsloos worden gemaakt.
- Alle aansluitklemmen moeten na het beëindigen van het werk volgens de juiste normen worden aangedraaid.
- Af naar gelang het spanningsbereik moet het product volgens de geldende normen van een aarding worden voorzien.

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IN GEBRUIK STELLEN

Voor dat de druk aangesloten wordt dient een elektrische test te worden uitgevoerd. Ingeval van magneetsluiters legt men meerdere malen spanning op de spoel aan waarbij een duidelijk "klikken" hooorbaar moet zijn bij functioneren.

GEBRUIK

De meeste magneetsluiters zijn uitgevoerd met spelen voor continu gebruik. Om persoonlijk letsel en schade daaraan van het spolehuis te voorkomen dient men het aannakken te vermijden, omdat bij langdurige inschakeling de spoel of het spolehuis heet kan worden. In voorkomende gevallen dient men de spoel af te schermen voor aanknaking.

GELUIDSEMISSE

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

ONDERHOUD
Het onderhoud aan de afsluitur is afhankelijk van de bedrijfsmoeidigheden. We raden u aan om het product regelmatig te reinigen, in intervalen 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 Numerics of haar vertegenwoordiger te wenden.

DEMONTAGE

Neem de afsluitur op een ordelijke wijze uit elkaar. Raadpleeg daarbij de montagetekeningen die de afzonderlijke onderdelen benoemen.

- Verwijder de bevestigingsclip en schuif de spoel van de kopstuk/deskel-combinatie. LET OP: bij het verwijderen van de bevestigingsclip kan deze omhoog springen. Verwijder de veering.
- Schroef de kopstuk/deskel-combinatie los en verwijder diens afdrift uit het klepdeksel.
- Draai de bouten (4x) van het klepdeksel los en verwijder het klepdeksel.
- Verwijder de plunjerveer, de plunjier/zuiger-combinatie en de afdrift uit het afsluitur.
- 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: Knip de geleidering en de zuigerafdrift schuif, om te verzekeren dat deze beschadigd raken. Controleer of het voorwerp dat u gebruikt een goede geleidering heeft.

- Monteer het klepdeksel inclusief de daarop samengedrukte plunjier/zuiger-combinatie, en draai de klepdekselbouten (4x) met het juiste aandraaimoment vast.
- OPMERKING: Bij het monteren van het klepdeksel kunt u een vlakke staal lineaal (of iets dergelijks) gebruiken om de plunjier/zuiger-combinatie in het klepdeksel te houden.
- Monteer de afdrift en draai de kopstuk/deskel-combinatie met het juiste aandraaimoment vast.
- Monteer nu de veering, de spoel en de bevestigingsclip.
- Na het onderhoud dient men de afsluitur een aantal malen te bedienen om de werking ervan te controleren.

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

DRAWING	DESSIN	ZEICHNUNG
DISEGNO	DIBUJO	TEKENING

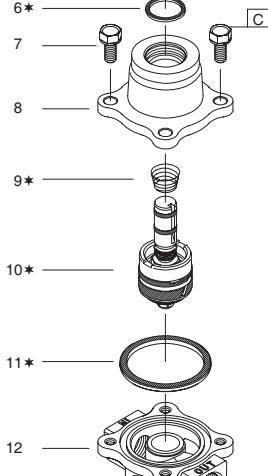


GB	* Supplied in spare part kit
FR	* Livrées en pochette de recharge
DE	* Enthalten im Ersatzteilsatz
ES	* Incluido en Kit de recambio
IT	* Disponibile nel Kit parti di ricambio
NL	* Geleverd in vervangingsset

TORQUE CHART

A	0,6 ± 0,2	5 ± 2
B	43 ± 3	380 ± 25
C	12,4 ± 1,1	110 ± 10

ITEMS NEWTON.METRES INCH.POUNDS



Ø	Catalogue number Code électrovanne Katalognummer Código de la electrovalvula Codice elettrovalvola Katalogus nummer	Spare part kit Code pochette de recharge Ersatzteilsatz Código del kit de recambio Kit parti di ricambio Vervangingsset	~	=
1/2 3/4	SCE 222 E 002 LT SCE 222 F 003 LT	C304-065 LT C304-065 LT	306-399 LT 306-399 LT	

