



INSTALLATION AND MAINTENANCE INSTRUCTIONS

3-way internal piloted solenoid valves - normally closed & normally open operation
air or inert gas service - 1/4, 3/8 or 1/2 pipe - 9 mm orifice

Series 307A3..F/G

GB

IMPORTANT

See separate solenoid installation and maintenance instructions (I&M) for information: Electrical installation, explosionproof classification, temperature limitations, causes of improper electrical operation, coil and solenoid replacement.

DESCRIPTION

Series 307A3..F/G valves are 3-way normally closed, pilot operated valves utilizing a balanced spool construction. All metal connections are located in the body. The body construction is stainless steel or alternatively brass. Valves are available with several low power, general purpose and explosionproof solenoid operators.

OPERATION

Operation forms are identified by catalogue suffix letters as follows:

Suffix 'F' - Normally closed construction

Suffix 'G' - Normally open construction

Valve connection to G or F can be similar, rebuild to either normally closed (F) or normally open (G) depending on the means of rotating of piston housing 180°.

NORMALLY CLOSED - SUFFIX 'F' (Refer to figure 2)

SOLENOID DE-ENERGIZED: Flow is from cylinder connection (1) to exhaust connection (3). Pressure connection (2) is closed.

SOLENOID ENERGIZED:

Flow is from pressure connection (2) to cylinder connection (1).

NORMALLY OPEN - SUFFIX 'G' (Refer to figure 2)

SOLENOID DE-ENERGIZED: Flow is from pressure connection (3) to cylinder connection (1). Pressure connection (2) is closed.

SOLENOID ENERGIZED:

Flow is from cylinder connection (1) to exhaust connection (2). Pressure connection (3) is closed.

IMPORTANT:

0.7 Bar minimum operating pressure is required.

INSTALLATION

Check nameplate for correct connection, pressure, voltage, frequency and service. Never apply incompatible fluids or exceed pressure ratings of the 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

Maximum fluid temperature is 80°C.

MOUNTING POSITION

PINING

Connect piping to the valve according to the markings on the valve body. Refer to figure 1. Apply pipe supports and spudger to the valve body. If applied to valve threads, it may enter valve body at manufacture. Pipe strain should be avoided by proper support and alignment of piping. When tightening pipe do no use valve as a lever. **IMPORTANT:** For protection of the solenoid valve, install a strain relief device on the piping involved in the valve side as close to the valve as possible. Proper cleaning is also dependent on the service conditions. These solenoid valves are intended for use on clean dry air or inert gas, filtered to 50 micrometers or better. The dew point of the media should be at least -40°C (-40°F) below the minimum temperature to which any part of the valve assembly may be exposed. The valve is not designed for freezing. If lubricated air is used, the lubricants must be compatible with Buna N elastomers. Diester oils may cause operational problems.

ELECTRICAL INSTALLATION

Refer to separate I&M sheet of the solenoid for electrical installation.

PROTECTION FROM MAINTENANCE

A periodic inspection of internal parts for damage or excessive wear is recommended. The frequency of inspection will depend on Service conditions in general, if the voltage to the coil is correct. Sluggish valve operation or excessive leakage will indicate that cleaning is required.

MAINTENANCE

1. Incorrect Pressure: The air pressure to the valve must be within the range specified on nameplate. **NOTE:** 0.7 bar minimum pressure is required for correct operation.

2. Excessive Leakage: Disassemble the valve and clean parts. Replace worn or damaged parts with an ASCO Spare Parts Kit.

3. Restricted exhaust vent or vent holes: Check periodically to ensure that vents are unrestricted.

SPARE PARTS KIT

Spare Parts Kit and coils are available for ASCO valves. Parts marked with an asterisk (*) are included in these kits. When ordering kits or coils, specify valve catalogue number, serial number and voltage.

COIL REPLACEMENT

Refer to separate I&M sheet of the solenoid for coil replacement.

VALVE DISASSEMBLY (Refer Figure 3)

WARNING: To prevent the possibility of personal injury or property damage, turn off electrical power, depressurize the valve, and vent fluid to atmosphere. **NOTE:** It is not necessary to remove the valve from the pipeline for repairs; piping or tubing must be removed from pilot exhaust on top of solenoid.

1. Refer to separate I&M sheet for disassembling the solenoid.

2. Remove the end cap complete with mounting bracket and stem spring. Note the orientation of the mounting bracket and stem spring.

3. Remove the two 'O' rings on the end cap. Remove two socket headed screws retaining the body to the piston housing and separate the two.

4. Remove the piston from the piston housing.

5. Unscrew stem assembly until the upper and lower stems separate. **NOTE:** A small drill or small screwdriver may be inserted in the upper stem for extra grip in order to prevent stem rotating when unscrewing.

6. Remove the body 'O' ring from the body upper cavity.

7. Remove the stem 'O' ring from the upper stem.

8. Remove the piston gasket from the piston housing.

9. Unscrew cartridge assembly from piston housing. Then remove cartridge gasket and seat gasket.

VALVE REASSEMBLY (Refer Figure 3)

Refer to separate I&M sheet for reassembling the solenoid.

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

2. Lubricate stem end cap 'O' rings with Dow Corning Corporations No. 200 medium weight grade silicone oil lubricant.

3. Assemble stem 'O' rings to upper and lower stems. Also assemble discs into disc cavities.

4. Insert 'O' ring into upper cavity.

5. Insert bearing assembly into body upper cavity.

6. Place upper stem onto lower stem. Apply Locite 242 sparingly to male threads of lower stem, pass through body from lower to upper cavity and screw two stem halves together to a torque of 1.1 Nm₂₀0.1Nm (10 lbf in₂1.1 lbf in).

NOTE: An additional strain relief shaft may be inserted in the upper stem for extra grip in order to prevent the stem from rotating when tightening.

7. Lightly lubricate the piston assembly with Dow Corning Corporations No. 200 fluid or an equivalent. Then insert piston assembly into piston housing. **NOTE:** The spring loaded button on the piston assembly faces outwards.

8. Insert the two 'O' rings into the recesses on top of valve body.

9. Place the piston housing onto the body locating the existing bushing.

10. Align the piston housing in the valve body and hold. Insert the two socket headed screws into the lower body and tighten at a torque of 6.7Nm₂₀0.5Nm (60 lbf in₂5 lbf in).

NOTE: With the small vent hole in the piston housing above port 2, valve operation is normally open. With the venthole opposite port 2, valve operation is normally closed.

11. Assemble the two end cap 'O' rings onto the end cap and insert the stem spring into the cavity in the end cap.

12. Place mounting bracket onto the end cap (suffix 'MB' only) locating hole in the bracket to the location of the vent hole.

13. Screw end cap into the body lower cavity and tighten to a torque of 19.8 Nm₂₀2.8Nm (175 lbf in₂25 lbf in).

14. Position cartridge gasket in piston housing.

15. Install stem gasket in recesses of cartridge assembly.

16. Install solenoid, see separate instructions. Then make up pilot to pilot exhaust on top of the solenoid, and electrical connection to solenoid.

17. With air supply reconnected, energize the valve several times to confirm correct operation of valve.

RESTRICTIONS ON OPERATION

1. Incorrect Pressure: The air pressure to the valve must be within the range specified on nameplate. **NOTE:** 0.7 bar minimum pressure is required for correct operation.

2. Excessive Leakage: Disassemble the valve and clean parts. Replace worn or damaged parts with an ASCO Spare Parts Kit.

3. Restricted exhaust vent or vent holes: Check periodically to ensure that vents are unrestricted.

MAINTENANCE

1. Cleaning: An external cleaning of the valve body is recommended.

2. Lubrication: Disassemble the valve and clean parts. Replace worn or damaged parts with an ASCO Spare Parts Kit.

3. Restricted exhaust vent or vent holes: Check periodically to ensure that vents are unrestricted.

SPARE PARTS KIT

Spare Parts Kit and coils are available for ASCO valves. Parts marked with an asterisk (*) are included in these kits. When ordering kits or coils, specify valve catalogue number, serial number and voltage.

The following parts are included in the kit:

1. Valve body

2. Stem assembly

3. Solenoid assembly

4. Pilot assembly

5. Valve assembly

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IMPORTANTE

Per le informazioni su quanto elencato di seguito, consultare le istruzioni sull'installazione e la manutenzione (I&M) del solenoidc forte a parte: installazioni elettriche, classificazione a prova d'esplosione, limitazioni di temperatura, cause di funzionamento elettrico, rimozione di bobina e solenoidc.

DESCRIZIONE

Le valvole 307A3..F/G sono elettrovalvole a 3 vie, con azionamento a pistone e struttura bobina bilanciata. Tutti i ricordi si trovano nel corpo. La struttura del corpo è in acciaio inossidabile e resiste alla corrosione. Le valvole sono disponibili con svariate teste magnetiche a bassa potenza, multiluso o antideflagranti.

FUNZIONAMENTO

I metodi di funzionamento sono identificati dalle lettere di suffisso del catalogo conformemente a quanto descritto di seguito:

Suffisso "F": struttura normalmente chiusa**Suffisso "G":** struttura normalmente aperta

La struttura della valvola F o G può essere semplicemente ricostruita per un funzionamento normalmente chiuso (F) o normalmente aperto (G) tramite la rotazione di 180° dell'elloggiamento del pistone.

NORMALMENTE CHIUSO - SUFFISSO "F"

SOLENOIDE DISSECATO: Il flusso proviene dall'attacco del cilindro (1) fino all'attacco dello scarico (3). L'attacco della pressione (2) è chiuso.

SOLENOIDE ACCESCIATO: Il flusso proviene dall'attacco della pressione (2) fino all'attacco del cilindro (1). L'attacco dello scarico (3) è chiuso.
SOLENOIDE ECCITATO: Il flusso proviene dall'attacco del cilindro (1) fino all'attacco dello scarico (2). L'attacco della pressione (3) è chiuso.

IMPORTANTE: è richiesta una pressione minima di funzionamento di 0,7 bar. Alla perdita di potenza o/o della pressione, la valvola ritornerebbe nella sua posizione originale.

INSTALLAZIONE

Verificare il numero di catena, la tensione e la tensione, la frequenza e le condizioni di funzionamento sulla targhetta. Non applicare mai liquidi incompatibili né superare gli indici di pressione della valvola. L'installazione e la manutenzione delle valvole devono essere eseguite esclusivamente da personale specializzato.

LIMITI DI TEMPERATURA

La temperatura ambiente deve riportare nei valori di targa. La temperatura massima del liquido è di 80°C.

POSIZIONE DI MONTAGGIO

La valvola può essere montata in tutte le posizioni.

TUBI

Collegare i tubi alla valvola secondo i rimessaggi sul corpo della valvola. Fare riferimento al diagramma di flusso Fig. 1. Applicare ai filetti maschi dei tubi mescola per tubi in quantità ridotta. In caso di applicazione della mescola sui filetti delle valvole questa può entrare nella valvola e provocare malfunzionamenti. Le sedi sui tubi ad attacco sono provviste di un dispositivo di bloccaggio per supporto e allineamento della tubazione. Per il serraggio del tubo, non fare mai leva sulla valvola. **IMPORTANTE:** Per proteggere l'elettrovalvola, installare, il più vicino possibile alla valvola, un filtro addito al servizio, relativo al lati di entrata. Infine delle condizioni di servizio, una valvola a una pressione periferica di 10 bar, non provoca una perdita di pressione. Questo significa che non deve essere installata una valvola a una pressione di 10 bar. È possibile che la valvola sia priva di una guarnizione di gomma, filtrata a 50 micrometri o meglio. Il punto di rugiada dei fluidi deve essere di almeno 10 gradi centigradi inferiore alla temperatura minima di esposizione di qualsiasi parte del dispositivo. È necessario però evitare il congelamento. Si viene usata l'antifreddo, i lubrificanti ed emulsioni compatibili con gli elastomeri. Buna N. I dieci di ogni possono provocare problemi operativi.

INSTALLAZIONE ELETTRICA

Per l'installazione elettrica, consultare la scheda I&M fornita a parte del solenoidc.

MANUTENZIONE PREVENTIVA

Si consiglia un'ispezione periodica della valvola per verificare che non siano presenti danni o usura eccessiva. In generale, se la tensione della bobina è corretta, la frequenza dell'ispezione dipenderà dalle condizioni di servizio. Un funzionamento lento della valvola o una perdita eccessiva indica che è necessaria la pulizia.

FUNZIONAMENTO IMPROPRI

1. Pressione errata: La pressione applicata alla valvola deve essere compresa nell'intervallo specificato sulla targhetta. NOTA: per un funzionamento corretto è necessaria una pressione minima di 0,7 bar.

2. Perdita di fluido: Verificare se la valvola è stata correttamente sostituita. Sostituire la parte consumata o danneggiata utilizzando un kit di parti di ricambio ASCO.

3. Sfato di scarico o fior di sfato del corpo ristretti: Controllare periodicamente i fiori di sfato per assicurarsi che non siano ristretti.

KIT PARTI DI RICAMBIO

Per le valvole ASCO sono disponibili i vari detali di ricambio. Le parti contrassegnate con un asterisco (*) sono incluse in questi kit. Quando si ordinano i kit o le bobine, specificare il numero di catalogo della valvola, il numero di serie e la tensione.

ATTENZIONE:

Per le valvole pilotate internamente a 3 vie - normalmente chiuse & normalmente aperte servizio aria o gas inerte - tubo da 1/4, 3/8 o 1/2 - foro da 9 mm

BELANGRIJK

Praadpleeg de aparte installatie- en onderhoudsinstucties (I&M) van de magneetkoppen heel voor informatie over de elektrische installatie, de explosieveleigheid, het temperatuurbereik en de werking van de sluiters.

Deze instructies zijn voor de gebruikte sluiters geschikt. Alle leidingen en stukken die niet zijn aangegeven, moeten worden uitgevoerd volgens de standaard.

BESCHRIJVING

Afsluiters uit de serie 307A3..F/G zijn 3-weg afsluiters met zuigleidingen. De afsluiters zijn voorzien van een roterend aantal van messingen. De sluiters zijn leverbaar met verschillende magneetkoppen: met een laag verbruik voor normale, waterdichte toepassingen maar ook in explosieveleigheidsuitoefeningen.

WERKING

De werking wordt als volgt aangegeund door de achtervoegsel van het catalogusnummer.

Achtervoegsel "F": Normaal gesloten

Achtervoegsel "G": Normaal open

De afsluitersconstructie F en G kunnen heel gemakkelijk worden omgebouwd van normaal gesloten (F) naar normaal open (G) door het zuigerhus 180° te draaien.

NORMAAL GESLOTEN - ACHTERVOEGSEL "F" (zie figuur 2)

MAGNEETKOP NIET BEKRACHTIGD: De cilinderansluiting (1) en de uitlaatansluiting (3) zijn met elkaar verbonden. De drukansluiting (2) is afgesloten.

MAGNEETKOP BEKRACHTIGD: De drukansluiting (2) en de cilinderansluiting (1) zijn met elkaar verbonden. De uitlaatansluiting (3) is afgesloten.
INSTALLEERLICHTE:

Controleer op het typeplaatje of het catalogusnummer, de druk, de spanning, de frequentie en de werking kloppen. Gebruik nooit een ander medium dan staat aangegeven en overschrijf nooit de maximale druk van de sluiters. Aanvankelijk personen mag installeerde en onderhoudswerkzaamheden uitvoeren aan de sluiters.

TEMPERATURGEBOED

De omgevingstemperatuur moet binnen het bereik liggen dat op het typeplaatje staat vermeld. De maximale toegestane temperatuur is 80°C.

MONTAGEHOUDE

De sluiters mag in alle standen worden geplaatst.

LEIDINGEN

Sluit de aan- en afvoerleidingen op de sluiters aan volgens de markeringen op het hulpsel. Zie het stroomschema, fig. 1. Breng uitlaatleidingen op de uitwendige schroefdraad van de cilinderansluiting en een bevestigingsbeugel op de hulpsel. Sluit de cilinderansluiting op de steltel inferior, passen op de corpusschroefdraad van de sluiters en zet de leidingen en sturingen voorzichtig. Zorg voor correcte uitlijning en ondersteuning van de leidingen om spanningen op de sluiters zo veel mogelijk te voorkomen.

Gebruik als sluiters niet meer hefboom bij het monteren van de leidingen. **LEIDINGEN:** De cilinderansluiting moet alleen op de onderste deel van de cilinderansluiting worden geplaatst.

Sluit de cilinderansluiting op de hulpsel op het hulpsel. De cilinderansluiting moet alleen op de onderste deel van de cilinderansluiting worden geplaatst.

SLUITER:

Sluit de cilinderansluiting op de hulpsel op het hulpsel. De cilinderansluiting moet alleen op de onderste deel van de cilinderansluiting worden geplaatst.

LEIDINGEN:

Sluit de cilinderansluiting op de hulpsel op het hulpsel. De cilinderansluiting moet alleen op de onderste deel van de cilinderansluiting worden geplaatst.

SLUITER:

Sluit de cilinderansluiting op de hulpsel op het hulpsel. De cilinderansluiting moet alleen op de onderste deel van de cilinderansluiting worden geplaatst.

ELEKTRISCHE INSTALLATIE:

Praadpleeg het aparte I&M-blad van de magneetkop voor de elektrische aansluiting.

PREVENTIE ONDERHOUD

We raden u aan om regelmatig te controleren of de inwendige delen zijn beschadigd of versleten. Het inspectie-interval is afhankelijk van de toepassing, als de spanning die over de spoel staat correct is. Een trage werking van de sluiters en overmatige lekkage kunnen een teken zijn dat schoonmaaken noodzakelijk is.

SLCHTE WERKING

1. Onjuiste druk: De toepassing van de sluiters moet binnen het bereik dat op het typeplaatje staat vermeld. **OPMERKING:** De druk moet minimaal 0,7 bar bedragen voor een correcte werking.

2. Overmatige lekkage: Haal de klep uit elkaar en reinig alle onderdelen.

3. Verstopte uitlaatopening of ontluftingsopeningen in het huis: Controleer regelmatig of de ontluftingsopeningen nog vrij zijn.

RESERVEONDERDELEN

Er zijn reserveonderdelen en speciale spoelen leverbaar voor AS-Co-sluiters. De met een sterretje (*) gemarkeerde onderdelen zitten in de set.

Geef bij het bestellen van de sets en spoelen door wat het catalogusnummer van de sluiters is, het serienummer en de elektrische spanning.

DRAWING	DESSIN	ZEICHNUNG
DISEGNO	DIBUJO	TEKENING

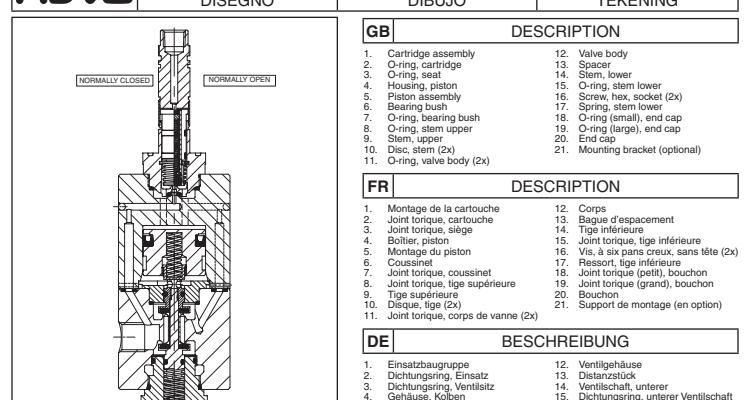
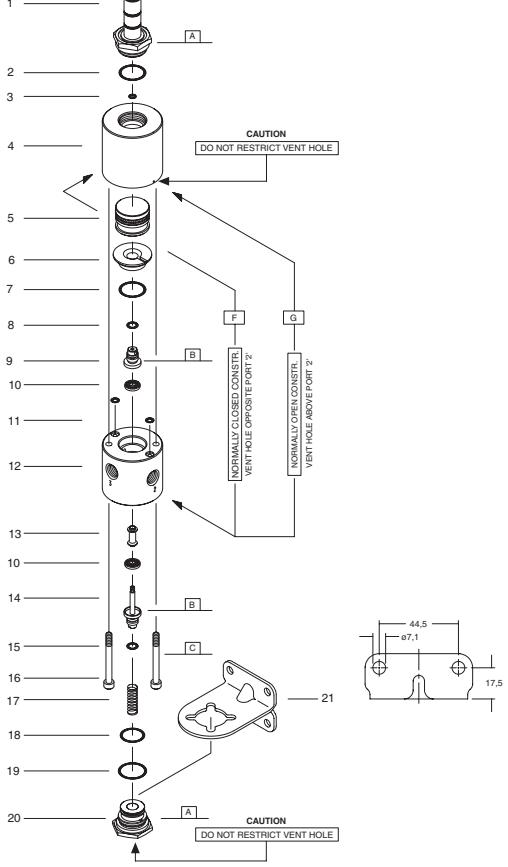


Fig. 1

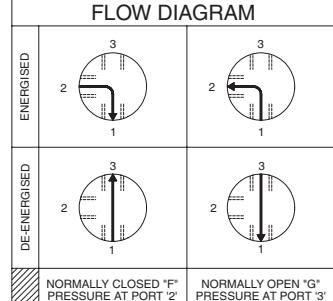
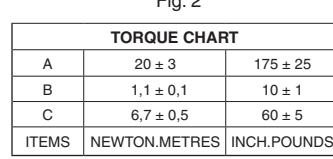


Fig. 2



GB	DESCRIPTION
1. Cartridge assembly	12. Valve body
2. O-ring, cartridge	13. Spacer
3. O-ring, seat	14. Stem, lower
4. Housing, piston	15. O-ring, stem lower
5. Piston assembly	16. Screw, hex, socket (2x)
6. Bearing, seal	17. O-ring, stem lower
7. O-ring, bearing bush	18. O-ring (small), end cap
8. O-ring, stem upper	19. O-ring (large), end cap
9. Stem, upper	20. End cap
10. Disc, stem (2x)	21. Mounting bracket (optional)
11. O-ring, valve body (2x)	

FR DESCRIPTION

1. Montage du cartouche	12. Corps de la valvula
2. Joint torique, cartouche	13. Anillo separador
3. Joint torique, siège	14. Espiga, inferior
4. Boulter, piston	15. Tige inférieure
5. Montage du piston	16. Vis, à six pans creux, sans tête (2x)
6. Couronne, piston	17. Resorte, espiga inferior
7. Joint torique, coûssinet	18. O-ring (petite), bouton
8. Joint torique, tige supérieure	19. Joint torique (grand), bouton
9. Tige supérieure	20. Bouton
10. Disque, tige (2x)	21. Support de montage (en option)
11. Joint torique, corps de vanne (2x)	

DE BESCHREIBUNG

1. Dichtungsbaugruppe	12. Ventilegehäuse
2. Dichtungsring, Einsatz	13. Distanzstück
3. Dichtungsring, Gehäuse	14. Dichtungsring, unterer Ventilschaft
4. Gehäuse, Kolben	15. Dichtungsring, unterer Ventilschaft
5. Kolbenbaugruppe	16. Innenschlagschlagschraube (2x)
6. Lagerbuchse	17. Feder, unterer Ventilschaft
7. Lagerbuchse, Lagerbuchse	18. Dichtungsring (klein), Endkappe
8. Dichtungsring, obener Ventilschaft	19. Dichtungsring (groß), Endkappe
9. Ventilschaft, obener	20. Endkappe
10. Ventilschaft, Ventilschaft (2x)	21. Montagehalterung (optional)

ES DESCRIPCION

1. Conjunto del cartucho	12. Cuerpo de la válvula
2. Junta, cartucho	13. Anillo separador
3. Junta, asiento	14. Espiga, inferior
4. Carter, pistón	15. Junta, espiga inferior
5. Conjunto del pistón	16. Torillo, zócalo hex (2x)
6. Cojinetes cilíndricos	17. Resorte, espiga inferior
7. Junta, cojinetes cilíndricos	18. Junta (pequeña), casquillo del extremo
8. Junta, espiga superior	19. Junta (grande), casquillo del extremo
9. Espiga, superior	20. Casquillo del extremo
10. Clapet, espiga (2x)	21. Soporte de montaje (opcional)
11. Junta, cuerpo de la válvula (2x)	

IT DESCRIZIONE

1. Cartridge	12. Afsluitervhus
2. O-ring, cartridge	13. Opruiming
3. O-ring, klepzeitring	14. Onderste klep spindle
4. O-ring, klepdrift	15. Klepdrift, klep spindle
5. Zijger	16. Inbuskracht, klep spindle
6. Lagerbus	17. Veer, onderste klep spindle
7. O-ring, lagerprieus	18. O-ring (klein), sluitmoer
8. O-ring, bovenste klep spindle	19. O-ring (groot), sluitmoer
9. Bovenste klep spindle	20. Sluitmoer
10. Klep, klep spindle (2x)	21. Bevestigingsbeugel (optie)
11. O-ring, afsluitervhus (2x)	