



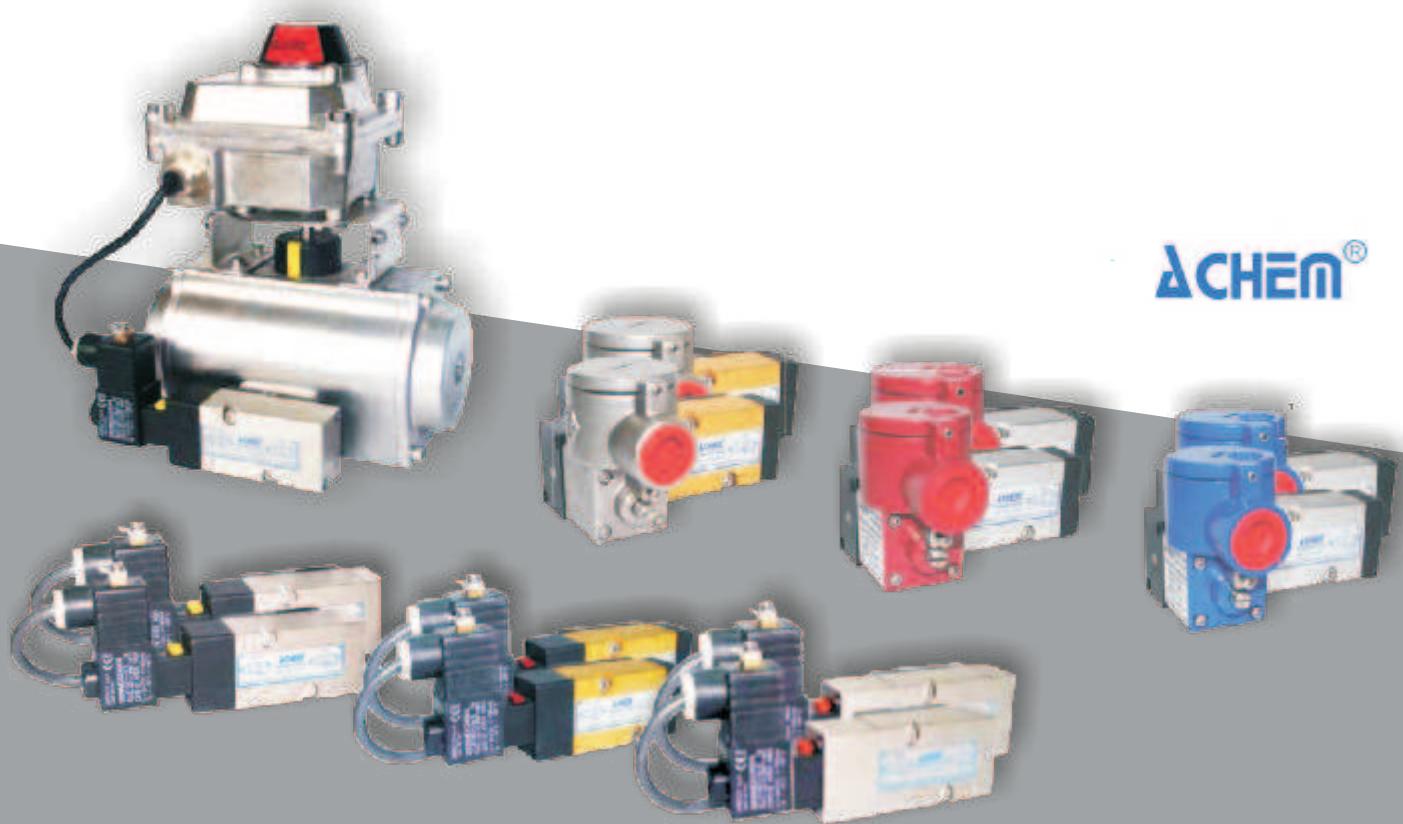
Automation
Center
Germany



NEW SOLENOID VALVES !

stainless steel - aluminium - pa

EEx d IIC T6 - EEx mb II T4/T5 - EEx ia IIC T6



ACHEM®

solenoid valves



ALV ACHEM magnetventile

serie **ACHEM NAMUR + IN-LINE**

- Die ACG Magnetventile NAMUR und IN-LINE der Serie ACHEM-ALV sind konstruiert und produziert basierend auf anspruchsvolle „air control technology“ und vieler spezieller Patente. Die Ventile ALV500/600/700 sind in einer „umgebungsschützenden Struktur“ konstruiert und bieten somit Schutz gegen den Eintritt von Flüssigkeiten, Staub oder anderer Fremdkörper und bieten eine konstante Selbstreinigung bei jedem Schalten, durch welche über eine Million problemlose Schaltspielen erreicht werden. Alle Ausgänge des Magnetventils sind anschließbar. Somit wird ein besserer Umgebungsschutz erreicht.
- Die Familie an ACG Magnetventile NAMUR und IN-LINE der Serie ACHEM-ALV sind mit ihren Gehäusen aus Aluminium und Edelstahl in Verbindung mit den explosionsgeschützten Spulen in vielen explosionsgefährdeten Bereichen in der ganzen Welt einsetzbar.

ALV ACHEM solenoid valves

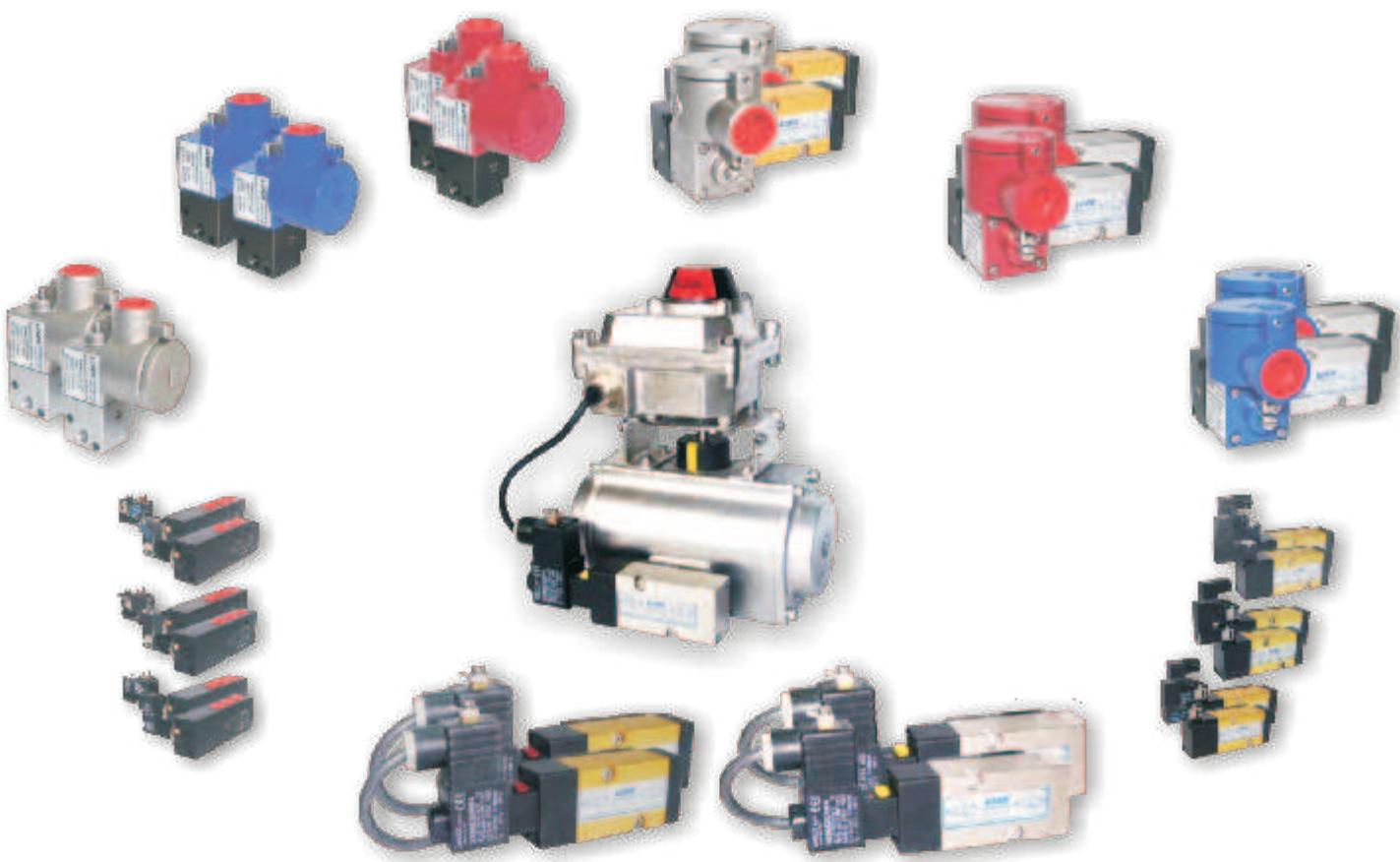
ACHEM series NAMUR + IN-LINE

- ACG ACHEM ALV series NAMUR and IN-LINE solenoid valves are designed and manufactured based on advanced air control technology and our special patent technology. The valves of ALV500/600/700 armed with "environmentally-protected structure" offer environmental protection against the ingress of liquids, dusts or other foreign matter and provides a constant self cleaning action within every position shift enabling the valves to achieve over a million trouble-free cycles. All the exhaust ports of this spool valve are connectable, providing better environmental protection.
- In the family of ACG ACHEM ALV series NAMUR and IN-LINE solenoid valves, the stainless steel, aluminum spool valve and the explosion proof coils can be used in a lot of hazardous location and anywhere in the world.

ALV ACHEM elettrovalvole

serie **ACHEM NAMUR + IN-LINE**

- Le elettrovalvole ACG NAMUR ed IN-LINE della serie ACHEM-ALV sono costruiti e prodotti basandosi sulla „air control technology“ e varie tecnologie brevettate. Le valvole ALV500/600/700 sono previste di una struttura che protegge l'ambiente, offrendo perfetta protezione contro l'ingresso di liquidi, polveri od altri agenti ed una autopulizia costante ad ogni azionamento che permette di aggiungere più di un milione di cicli senza problemi. Tutte le uscite dell'elettrovalvola sono collegabili, offrendo migliore protezione ambientale.
- La famiglia di elettrovalvole NAMUR ed IN-LINE serie ACG ACHEM-ALV con i corpi in acciaio inossidabile ed alluminio in combinazione con le bobine antiesplosione possono essere utilizzati in tanti ambienti a rischio esplosione in tutto il mondo.



vorteile

- Geeignet für den Einsatz mit Standard- oder Explosions-Spulen, zertifiziert für den Einsatz in allen explosionsfähigen Atmosphären wie:
Class 1 Div. 1+2 Group A-B-C-D
EEx d IIC T6, EEx ia IIC T6, EEx mb II T4/T5
- Lösungen für hohe Temperaturen (+150°C) sowie für niedrige Temperaturen (-40°C).

advantages

- Suitable for use of standard coils or various flame-proof and intrinsically safe coils, certified for use in all hazardous areas:
Class 1 Div. 1+2 Group A-B-C-D
EEx d IIC T6, EEx ia IIC T6, EEx mb II T4/T5
- Solutions for use at high temperature (+150°C) as well as for low temperatures (-40°C).

vantaggi

- Adatto all'uso con bobine standard o varie bobine antideflagranti od a sicurezza intrinseca, certificati per l'uso in ambienti a rischio d'esplosione come:
Class 1 Div. 1+2 Group A-B-C-D
EEx d IIC T6, EEx ia IIC T6, EEx mb II T4/T5
- Soluzioni per uso ad alte temperature (+150°C) e basse temperature (-40°C).



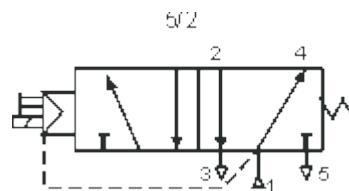
■ luftanschlüsse

■ air ports

■ attacchi d'aria

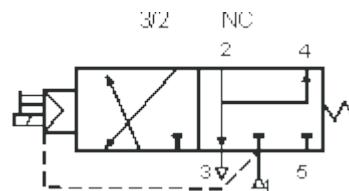
serie ACG NAMUR + IN-LINE

- Anschluss 1 ist Lufteinang und Anschlüsse 5 und 3 sind Luftausgänge, welche mit Schalldämpfer oder Drosseln versehen werden können. Anschlüsse 2 und 4 sind Ausgänge verbunden mit dem Schwenkantrieb Eingänge A und B. Bei Luftbeaufschlagung bewegen diese die Kolben des Schwenkantriebs zum Öffnen/Schließen.
- Das ACG NAMUR Magnetventil Serie ACG NAMUR ist normal geschlossen als Standard. Das heißt, dass das Magnetventil ohne Stromzufuhr die Luftzufuhr in Anschluss B des Schwenkantrieb leiten wird, somit die Kolben des Antriebs zur geschlossenen Stellung bringen wird.



ACHEM series NAMUR + IN-LINE

- Port 1 is the supply (inlet) port and ports 5 and 3 are the exhaust port, which may be equipped with silencers or speed controls to control the actuation time. Port 2 and 4 are outlet ports to be connected with the actuator input ports (A and B) to move and return the pistons of the actuator by pressure air.
- ACG NAMUR solenoid valve series ACG NAMUR is normal closed as standard (on inquiry: normal opening). It means that the solenoid valve will direct the flow of supply air to port B of the actuator and return the pistons of actuator to closed position without electric power under



serie ACG NAMUR + IN-LINE

- Attacco 1 è l'entrata e attacchi 5 e 3 sono le uscite per l'aria. Gli ultimi possono essere equipaggiati con silenziatori o riduttori velocità. Attacchi 2 e 4 sono uscite da collegare verso gli attacchi d'entrata A e B dell'attuatore per muovere i pistoni dell'attuatore con aria compressa.
- L'elettrovalvola ACG NAMUR della serie ACG NAMUR è normalmente chiusa di standard (su richiesta normalmente aperta). Vale a dire che l'elettrovalvola a mancanza di corrente dirigerà l'aria d'entrata verso attacco B dell'attuatore e fa tornare così i pistoni attuatore verso posizione chiusa.

■ spule ohne spannung

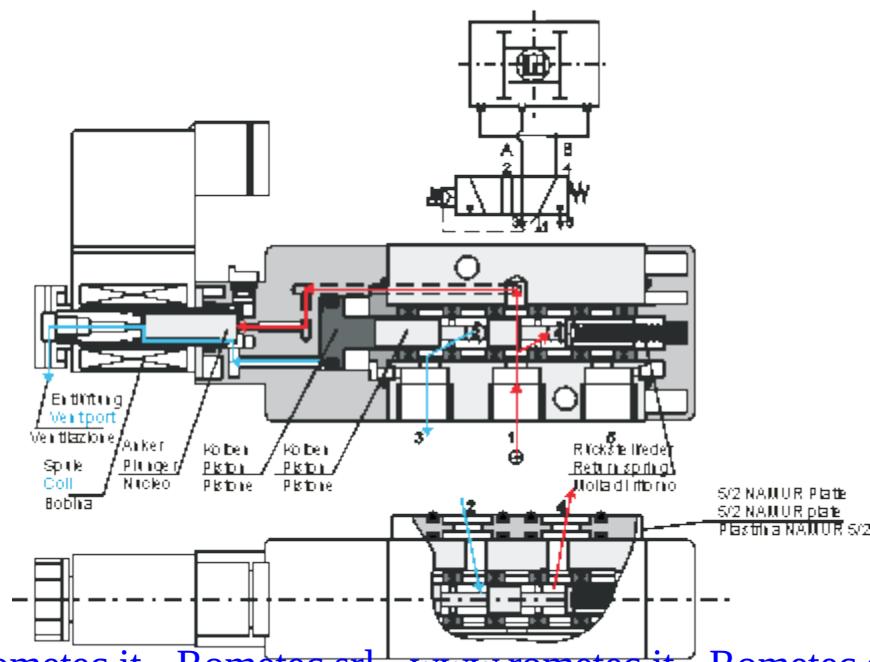
■ coil de-energized

■ bobina non eccitata

- In Fig. 2 sehen wir eine Spule ohne Spannung. Eine Feder am Anker bringt diesen an seinen Sitz und blockiert somit die interne Entlüftung, öffnet aber einen Entlüftungsanschluß. Dieser erlaubt, dass die Luft zwischen den Kolben entweicht und der Magnetventilkolben an seine normale Position geht. In dieser Position lenkt der Kolben die Versorgungsluft von Eingang 1 zu Ausgang 4, während Ausgang 2 mit 3 verbunden ist. Standardmäßig ist Anschluss an unseren Schwenkantrieben mit Anschluss B verbunden. Die Luft des Ausgangs 4 schiebt die Kolben des Schwenkantriebs ohne Luftbeaufschlagung zur geschlossenen Stellung.

In Fig.2, we can find that when the coil is de-energized, a spring on the plunger will return the plunger to its seat, blocking internal pilot air, and open a vent port. This vent port will allow the air on the piston to escape, and the return spring will return the spool to its normal position. In this position, the spool directs flow of supply air from inlet port 1 to outlet port 4 while outlet port 2 is connected to exhaust port 3. As for the standard assembly, the outlet port 4 is connected with port B of actuator. The air from outlet port 4 will return the pistons of actuator to closed position without electric power on the coil.

- In Fig. 2 vediamo che a mancanza di corrente sulla bobina una molla sul nucleo lo ritorna alla sua sede, bloccando così la ventilazione interna. Quest'attacco permetterà all'aria tra i pistoni di scappare e la molla di ritorno farà spostare il pistone nella sua posizione normale. In questa posizione, il pistone dirige l'aria d'alimentazione dal port d'entrata 1 all port d'uscita 4, mentre che il port d'uscita 2 è collegato al port 3. Di standard il port d'uscita 4 è collegato al port B dell'attuatore. L'aria del port d'uscita 4 a mancanza di corrente farà tornare i pistoni dell'attuatore verso posizione chiusa.



spule unter spannung coil energized

- In Fig. 3 sehen wir eine Spule unter Spannung. Die Spule erwirkt ein Magnetfeld um den Anker herum und zieht diesen von seinem Sitz weg. Dadurch drückt die Steuerluft den Kolben im Ankersitz gegen den Kolben des Magnetventilgehäuses und somit gegen die Feder. Die Steuerluft wird hierdurch von Eingang 1 zu Ausgang 2 gelenkt, während die Luft aus dem Antrieb über Ausgang 4 zu Ausgang Nr. 5 entweicht. Die Luft in Ausgang 2 bewegt bei Strombeaufschlagung der Spule die Kolben des Antriebs auseinander und somit den Antrieb in die offene Stellung.

- In Fig.3, we can find that when the coil is energized, the solenoid coil creates a magnetic field surrounding the plunger assembly and plunger. The plunger is lifted off its seat by this magnetic force and supply air provides an internal pilot pressure that is directed to the piston which shifts the spool and compress the return spring. This shifting directs the flow of supply air from inlet port 1 to outlet port 2 while outlet port 4 is connected to exhaust port 5. As for the standard assembly, the outlet port 2 is connected with port A of actuator. The air from outlet port 2 will move the pistons of actuator to opening position when the coil is energized.

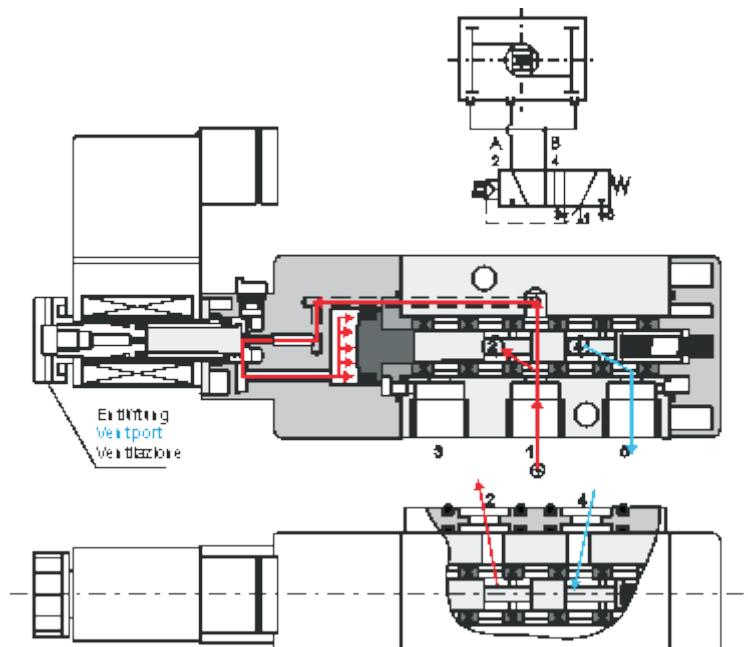


Fig. 3 Spule unter Spannung - Coil energized - Bobina eccitata

bobina eccitata

- In Fig. 2 vediamo che ad eccitazione della bobina la stessa crea un'magnetismo intorno al nucleo levandolo dalla sua sede. In questo modo l'aria di alimentazione spinge il pistone dell'ancoraggio verso il pistone del corpo elettrovalvola e quindi contro la molla. L'aria di alimentazione così viene diretta da entrata 1 verso uscita 2, mentre che l'aria nell'attuatore possa scappare dall'uscita 5. L'aria in entrata 2 ad eccitazione della bobina fa allontanare i pistoni dell'attuatore tra di loro e porta quindi l'attuatore in posizione aperta.

wendeplatte 5/2-3/2



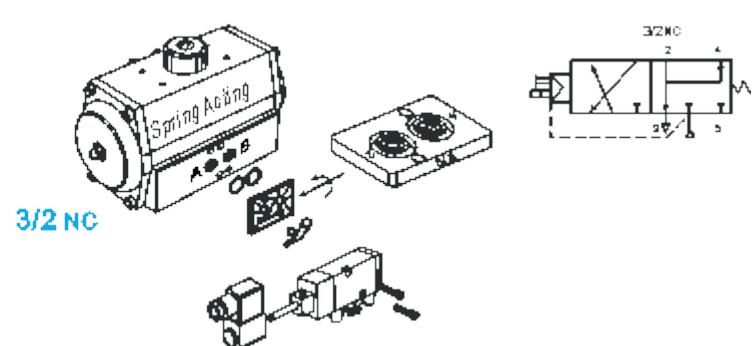
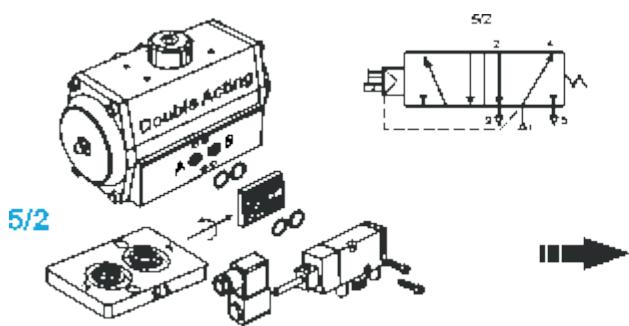
turning plate 5/2-3/2

piastrina 5/2-3/2

- Die Magnetventile ACG der Serie ACHEM-ALV 500/600/700 sind standardmäßig mit einer NAMUR Wendeplatte ausgestattet, welche wahlweise eine 5/2- oder 3/2-Wege Funktion und somit den Einsatz auf doppelt- und einfachwirkende Schwenkantriebe mit Federrückstellung ermöglicht.

- The solenoid valves ACG of ACHEM-ALV series are as a standard equipped with a NAMUR turning plate, which allows to choose between a 5/2- and 3/2-ways function and so to be used with both double-acting and spring return actuators.

- Le elettrovalvole ACG della serie ACHEM-ALV sono equipaggiati di standard con una piastrina di conversione tra funzione 5/2 e 3/2 vie e permettono così l'utilizzo con attuatori a doppio e semplice effetto a ritorno molla.





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ACHEM

Art. ALV

bestellschlüssel

code system

codici articoli

magnetventile serie ACHEM

- Verfügbar mit Standardspulen oder verschieden druckfeste und eigensichere Spulen zertifiziert für den Einsatz in explosionsgefährdeten Bereichen (Class I, Div. 1+2, Group A-B-C-D, EEx d IIC T6, EEx ia IIC T6, EEx mb II T4/T5)
- Geeignet für Einsatz bei hohen (+150°C) und niedrigen (-40°C) Temperaturen.

ALV

ACG solenoid Valve ACHEM series

5

10

Number of Coils

F

10-Single Coil(Monostable)
20-Dual Coils (Bistable)

3

Function of the Valve

C0

1-3/2NC, three ways and two positions
2-5/2, five ways and two positions
3-Both for 3/2NC and 5/2 with adaptor plate

Coil and Pilot

C0-Standard Coil (Nema4,4X, IP65)

C1-15mm Miniature Pilot Coil (FIM-IP65)

C2-15mm Miniature Pilot Coil (CROUZET-IP65)

C3-15mm Miniature Pilot Coil (Ex ia IIC T6)

C4-S.S.enclosure flameproof Coil (Ex d IIC T6)

C5-Alu.enclosure flameproof Coil (Ex d IIC T6)

C6-Alu.enclosure intrinsical coil Coil (Ex ia IIC T6)

C7-Encapsulation Coil (Ex mb II T4 or T5)

Type of valve / body

2-PA, SS or Brass Direct acting valve

(1/8" or 1/4" ports)

3-Anodized Aluminum Spool Valve (1/4" ports)

4-Anodized Aluminum Spool Valve (1/2" ports)

5-Anodized Aluminum Spool Valve (1/4" ports)

6-Stainless Steel Spool Valve (1/4"ports)

7-All stainless Steel Spool Valve (1/4" ports)

Connection

F-Namur

P-In-Line



ALV210P1C0



ALV210P1C4



ALV210P1C5



ALV510F3C0



ALV510F3C1



ALV510F3C3



ALV510F3C4



ALV510F3C5



ALV510F3C6



ALV510F3C7



ALV610F3C0



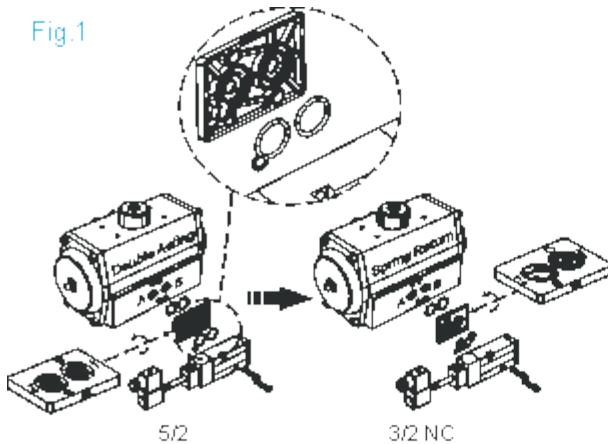
ALV710F3C7



montage

- Vor Installation des Magnetventils ist die Luft aus der Systemleitung abzulassen und diese intern zu reinigen um das Vorhandensein von Partikel zu vermeiden (Dichtband- und Kleberreste). Die Ventile können nun an die NAMUR Schnittstelle des pneumatischen Antriebs montiert werden.
- Die Abmessungen der ACHEM Ventile entsprechen dem NAMUR Standard. Durch die mitgelieferte Wendeplatte ist dasselbe Ventil sowohl für 5/2- und 3/2-Wege einsetzbar. Montieren Sie die Wendeplatte und das Ventil an die NAMUR Schnittstelle des pneumatischen Antriebs mit den mitgelieferten 2 Stück Schrauben M5 (Drehmoment 4 bis 5Nm)
- In Fig. 1 bewegen sich die Kolben bei Luftbeaufschlagung auf Anschluss A (linksliegend) nach außen. Dies ist unsere Standardmontage.
- In Fig. 2 bewegen sich die Kolben bei Luftbeaufschlagung auf Anschluss A (rechtsliegend) nach außen. Dies ist Spezialmontage und muß bei Bestellung angegeben werden.

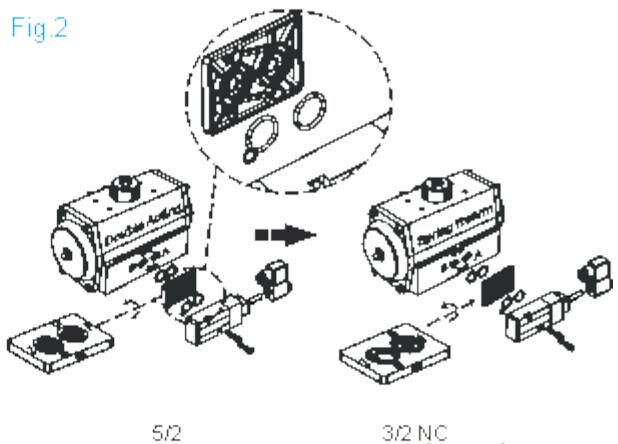
Fig.1



mounting

- Prior installing the solenoid valve, depressurize the pipes and clean them internally to avoid particles entering the system (tape sealant, thread compound). The valves may be mounted on the NAMUR interface of the pneumatic actuator.
- The dimension design of the ACHEM spool valve is exactly in light of NAMUR standard. The same spool valve equips with 3/2 and 5/2 function NAMUR interface plates depending on the direction of the interface plate. Fix the spool valve and the interface plate on the NAMUR interface of the pneumatic actuator with 2 screw M5 (torque 4 to 5 Nm) provided.
- In assembly Fig.1, the inlet port A of the actuator is in left side which forces the pistons of actuator outwards under pressure air. This is standard assembly.
- In assembly Fig.2, the inlet port A of the actuator is in right side which forces the pistons of actuator outwards under pressure air. This is a special assembly and should be noted when making order form.

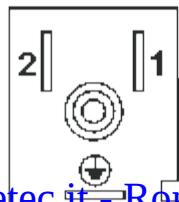
Fig.2



anschluss

- Der elektrische Anschluss ist durch qualifiziertes Personal und entsprechend lokaler Standards und Vorschriften durchzuführen.
- Vor dem elektrischen Anschluss den Strom ausschalten, um eine Stromversorgung der Komponenten auszuschließen.
- Abhängig von der Spannung müssen elektrische Komponenten gemäß lokaler Standards und Vorschriften geerdet werden.
- Standardspulen: Elektrischer Anschluss erfolgt über abnehmbaren Industriestecker (Kabeldurchmesser 6-8mm siehe Fig.1), drehbar um 180° (3 Stecker: 1,2 elektrische Pins+Erdung).
- Bei Montage des Industriesteckers bitte auf den richtigen Sitz des O-Rings achten, da dieser Schutz vor Eintritt von Flüssigkeiten, Staub oder anderen Fremdkörpern bietet.
- Ex-Spulen: Siehe gesonderte Instruktionen (mit den Spulen standardmäßig mitgeliefert)

Fig.1



wiring

- Electrical connection must be made by qualified personnel and according to applicable local standards and regulations.
- Before any electrical connection, turn off the electrical current to power off the components.
- Depending on the voltage, electrical components must be grounded according to local standards and regulations.
- Standard coils: Electrical connection is made with detachable plug connector for cable dia.6-8mm (see fig.), rotatable by 180° increments (3 pins:1,2 electric pins+PE).
- Installing the connector box, please pay attention on the "O" ring which offers environmental protection against the ingress of liquids, dusts or other foreign matter.
- Explosion proof coils: See particular instructions sheet delivered with those coils.

allacciamento

- Prima dell'installazione dell'elettrovalvola bisogna togliere l'aria dalla tubazione e pulirla onde evitare la presenza di sporcizie (nastro sigillante, sostanze adesive). Le valvole possono essere montate all'interfaccia NAMUR dell'attuatore pneumatico.
- A secondo il voltaggio bisogna eseguire la messa a terra secondo gli standard o regolazioni locali)
- Bobine standard: Connessione elettrica avviene tramite connettore staccabile per cavi diametri 6-8mm (vedi fig. 1), ruotabile di 180° (3pin: 1,2 pin elettrici+Terra).
- Installando il connettore bisogna accettare il perfetto posizionamento dell'O-ring che offre protezione contro liquidi, polveri e altri agenti.
- Bobine antiesplosione: Vedasi istruzioni particolari legate alle bobine di fornitura.





eigenschaften ventil **valve performances** **caratteristiche valvola**

Ventil - Valve - Valvola	ALV200	ALV300	ALV400	ALV500	ALV600	ALV700
Medienberührendes und Gehäusematerial Body and fluid contact material Materiale corpo ed in contatto con i fluidi intercettati	Glasfaserverstärktes PA, NBR und Edelstahl Glass filled PA, NBR and stainless steel PA caricato vetro, NBR ed acciaio inossidabile	Aluminium anodisiert, glasfaserverstärktes PA und NBR Anodized aluminium, glass filled PA and NBR Alluminio anodizzato, PA caricato vetro e NBR		Aluminium anodisiert, glasfaserverstärktes PA, POM + NBR Anodized aluminium, glass filled PA, POM+NBR Alluminio anodizzato, PA caricato vetro POM+NBR	Edelstahl 1.4308 1.4408 1.4404, glasfaserverstärktes PA, POM + NBR Stainless steel AISI304/316/316L, glass filled PA, POM+NBR Acciaio inossidabile AISI304/316/316L, PA caricato vetro POM+NBR	Edelstahl 1.4308 1.4408 1.4404, glasfaserverstärktes PA, POM + NBR Stainless steel AISI304/316/316L, glass filled PA, POM+NBR Acciaio inossidabile AISI304/316/316L, PA caricato vetro POM+NBR
Funktion Function Funzione	3/2-Wege direktgesteuert Federrückstellung NC 3/2 direct acting spring return NC 3/2 azione diretta ritorno molla NC	5/2 oder 3/2-Wege Federrückstellung NC 5/2 oder 3/2-ways spring return NC 5/2- o 3/2-vie ritorno molla NC			5/2 und 3/2-Wege Federrückstellung NC 5/2 and 3/2-ways spring return NC 5/2- e 3/2-vie ritorno molla NC	
Luftanschlüsse Air ports Attacchi area	1/8" - 1/4" BSPP / NPT	1/4" BSPP / NPT	1/2" BSPP / NPT			1/4" BSPP / NPT
Montage Mounting Montaggio	Verschrauben Screw mounting Da avvitare			Montage nach NAMUR oder IN-LINE (auf Leiste oder Platte) NAMUR mounting or IN-LINE (on rail way or plate) Montaggio NAMUR o IN-LINE (su rotaie o piastrina)		
Handnotbetätigung Manual override Leva d'emergenza manuale				ja yes si		
Betriebstemperatur Working temperature Temperatura d'esercizio	-25°C ~ +80°C		-5°C ~ +80°C		-25°C ~ +80°C Auf Anfrage - On request - Su richiesta: -50°C ~ +150°C	
Arbeitsdruck Working pressure Pressione d'utilizzo				2 ~ 8 bar		
Betriebsmedium Working medium Medio intercettato				Gefilterte (<40µm) und trockene Luft less than 40µm filtered and dry air Aria secca e filtrata (<40µm)		
Querschnitt Effective section Sezione	1.32mm ² 73 l/min - 5bar	25.00mm ² (CV=1.40)	50.00mm ² (CV=2.79)		19.63mm ² (CV=1.10)	
Lebensdauer Working life Vita operativa				Mehr als 1 Million Schaltspiele More than 1 million cycles Più di 1 milione di cicli		
Max. Betätigungsfrequenz Max. action frequency Frequenza d'azione massima	8 Schaltungen / Sekunde 8 cycles / second 8 cicli / secondo			5 Schaltungen / Sekunde 5 cycles / second 5 cicli / secondo		
Foto Photo Foto						



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ACFO®

Art. ALV

eigenschaften spule coil performances caratteristiche bobina

Spule - Coil - Bobina	C0	C1	C2	C3	C4	C5	C6	C7
Bezeichnung Description Descrizione	Standardspule Standard coil Bobina standard	15mm Miniatur 15mm Miniature pilot coil Bobina di pilotaggio miniatura 15mm	15mm Miniatur 15mm Miniature pilot coil Bobina di pilotaggio miniatura 15mm	15mm Miniatur 15mm Miniature pilot coil Bobina di pilotaggio miniatura 15mm	Spule in Edelstahlgehäuse Stainless steel enclosure coil Bobina in involucro acciaio inossidabile	Spule in Aluminiumgehäuse Aluminium enclosure coil Bobina in involucro alluminio	Spule in Aluminiumgehäuse Aluminium enclosure coil Bobina in involucro alluminio	Vergußkapselung Encapsulation coil Bobina costampata
Volt - Watt	12V DC-3.5W 24V DC-3.5W 48V DC-3.5W	110V AC-4VA 210V AC-4VA 230V AC-4VA 240V AC-4VA	12V DC-2.3W 24V DC-2.3W	24V DC-1W	24V DC-0.7W	24V DC-3.5W	24V DC-3.5W	24V DC-1.5W
Spannungstoleranz Voltage tolerance Tolleranza voltaggio						± 10%		
Einschaltdauer Duty cycle Tempo d'esercizio						100%		
Anschlussart Wiring connection Allacciamento	Gerätestecker Plug connector Connettore DIN (6-8mm)		Gerätestecker Plug connector Connettore DIN (4-6mm)			Anschlussklemme Terminal strips Morsettiera M20x1.5		Litzen Flying leads Conduttori
Thermische Klasse Insulation class Classe di isolamento	H		F			H		
Betriebstemperatur Operating temperature Temperatura d'esercizio	-50°C .. +150°C		-5°C .. +50°C	-5°C .. +50°C	-10°C .. +50°C			-25°C .. +65°C
Schutzaart Gehäuse Ingress protection rating Protezione involucro EN 60529 - NEMA	IP65 NEMA 4, 4X		IP65			IP66		IP65
Ex-Schutz Bereich Hazardous area Zone di esplosione	-	-	-	-	EEx ia IIC T6	EEx d IIC T6	Eex d IIC T6	Eex ia IIC T6
Zulassungen Approvals Approvazioni	CE, NEMA 4, 4X	CE	CE UL cUL			CE Ex ATEX		
Foto Photo Foto								

werkstoff spule coil material materiale bobina

Spule - Coil - Bobina	C0	C1	C2	C3	C4	C5	C6	C7
Spulengehäuse Coil case Corpo bobina		PA6			1.4308-1.4408 AISI304-AISI316	Aluminium Epoxy		Pa6
Ankersystem Armature Ancoraggio			Magnetischer Edelstahl Spulenqualität Magnetic Solenoid Quality Stainless Steel Acciaio inossidabile magentico a qualità per bobine					
Federn Springs Molle				Edelstahl Stainless Steel Acciaio inossidabile				
Dichtungen + O-Ringe Seals and seats Guarnizioni + OR				NBR - HNBR				
Ummantelung Overmoulded material Materiale inglobamento				Nylon 66 30% glasfaserverstärkt 30% glass fille Nylon 66 Acciaio inossidabile				
Magnetwicklung Magnetic winding Filo magnetico	Kupferdraht Klasse H Copper wire class H Filo di rame classe H	Kupferdraht Klasse H Copper wire class H Filo di rame classe H	Kupferdraht Klasse H Copper wire class H Filo di rame classe H	Kupferdraht Klasse H Copper wire class H Filo di rame classe H				



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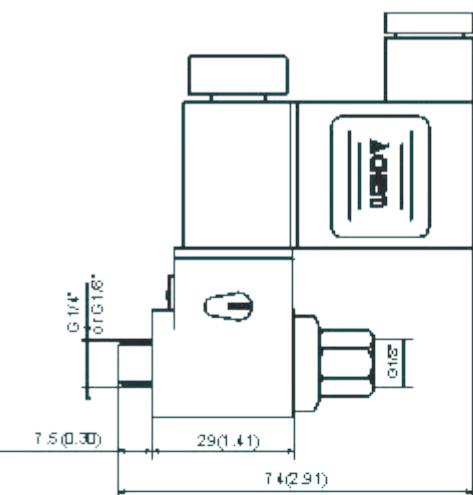
ACHEM

Art. ALV

■ ALV210P1C0 Miniaturventil 3/2

magnetventile **ACHEM**

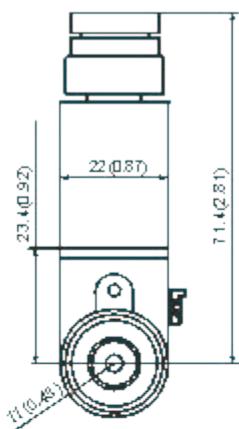
- Direktsteuerndes Magnetventil 3/2-Wege für einfachwirkende Antriebe oder Zylinder
- Direktanbau auf Antriebe oder Zylinder mit 1/8" oder 1/4" Luftanschlüsse.
- Manuelle Handnotbetätigung am Gehäuse
- Dasselbe Magnetventil kann mit verschiedenen Spulen ausgerüstet werden: IP65 NEMA4, 4X (Spule C0) oder mit Ex mb II T4 oder T5 (Spule C7)



■ ALV210P1C0 Miniature valve 3/2

solenoid valves **ACHEM**

- Direct acting 3/2-ways solenoid valve NC for spring return actuators or cylinders
- Direct mounting on 1/4" or 1/8" air ports of actuators or cylinders.
- Manual override on the body.
- The same spool valve can be armed with Ip65 NEMA4, 4X coil (C0) or with Ex mb II T4 or T5 coil (C7).



■ ALV210P1C0 Elettro- valvola Miniatura 3/2

elettrovalvole **ACHEM**

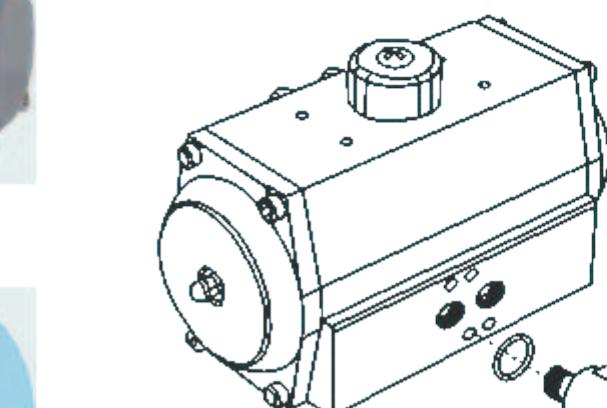
- Elettrovalvola diretta 3/2-vie per attuatori o cilindri a semplice effetto
- Montaggio diretto sull'attacco aria 1/4" o 1/8" dell'attuatore o cilindro.
- Leva manuale d'emergenza sul corpo valvola.
- La stessa valvola può essere attrezzata con bobina IP65 NEMA4, 4X (C0) oppure Ex mb II T4 o T5 (C7).



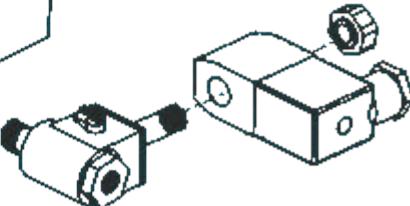
■ montage



■ mounting



■ montaggio

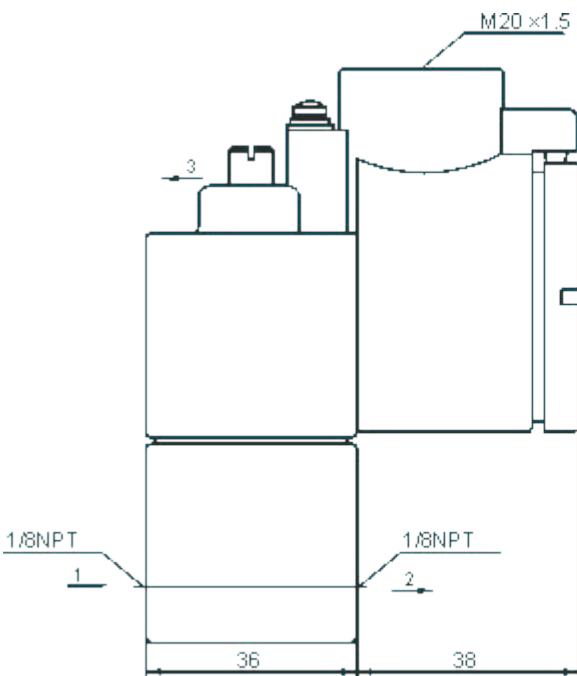




ALV210P1C4/C5/C6
Direktgesteuert 3/2

magnetventile serie ACHEM

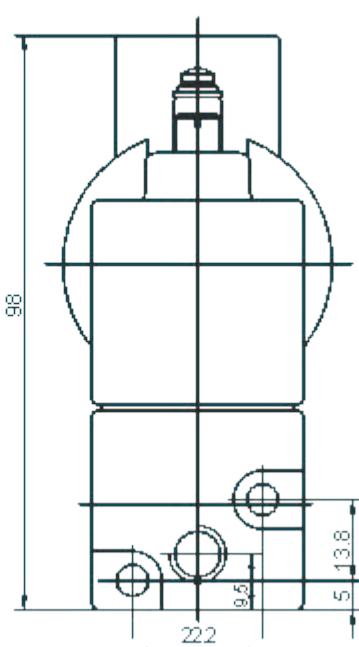
- Direktsteuerndes Magnetventil 3/2-Wege für einfachwirkende Antriebe oder Zylinder
- Direktanbau auf Antriebe oder Zylinder mit 1/8" oder 1/4" Luftanschlüsse.
- Manuelle Handnotbetätigung am Gehäuse
- Dasselbe Magnetventil kann mit Spule in Aluminium- oder Edelstahlgehäuse ausgerüstet werden, zertifiziert für Einsatz in korrosiven und explosionsgefährdeten Bereichen (Class I, Div. 1, Group A,B,C,D EEx d IIC T6 oder EEx ia IIC T6).



ALV210P1C4/C5/C6
Direct acting 3/2

solenoid valves series ACHEM

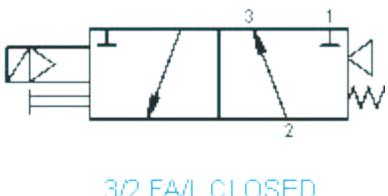
- Direct acting 3/2-ways solenoid valve NC for spring return actuators or cylinders
- Direct mounting on 1/4" or 1/8" air ports of actuators or cylinders.
- Manual override on the body.
- The same spool valve can be armed with aluminium or stainless steel enclosure coil certified for use in corrosive area and in hazardous area (Class I, Div. 1, Group A,B,C,D EEx d IIC T6 or EEx ia IIC T6).



ALV210P1C4/C5/C6
Azione diretta 3/2

elettrovalvole serie ACHEM

- Elettrovalvola diretta 3/2-vie per attuatori o cilindri a semplice effetto
- Montaggio diretto sull'attacco aria 1/4" o 1/8" dell'attuatore o cilindro.
- Leva manuale d'emergenza sul corpo valvola.
- La stessa valvola può essere attrezzata con bobina in involucro d'alluminio o acciaio inossidabile per uso in aree corrosive e a rischio d'esplosione (Class I, Div.1, Group A,B,C,D EEx d IIC T6 or EEx ia IIC T6).



bilder



ALV210P1C4

photos



ALV210P1C5

foto



ALV210P1C6



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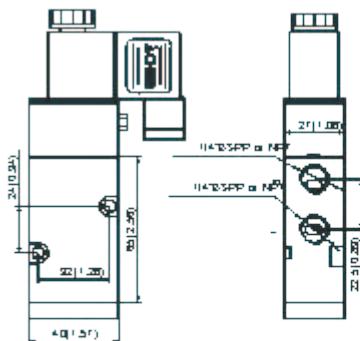


ACHEM®
Art. ALV

ALV310F1/F2C0
monostabil

magnetventil NAMUR 24x32 AChem

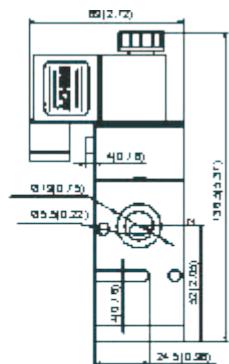
- Magnetventil für direkten Aufbau auf pneumatische Schwenkantriebe mit Bohrbild NAMUR der Größe 24x32mm
- Manuelle Handnotbetätigung auf dem Gehäuse
- Exzellent für Anwendung im Inneren von Gebäuden



ALV310F1/F2C0
mono-stable

solenoid valve NAMUR 24x32 AChem elettrovalvole NAMUR 24x32 AChem

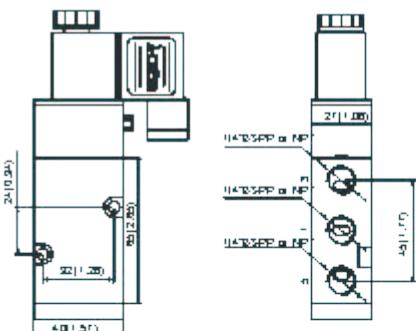
- Based on NAMUR standard 24x32mm the spool valve can be directly mounted on pneumatic actuator for controlling double-acting or spring return actuators
- Manual override on the body
- Excellent for the use indoor.



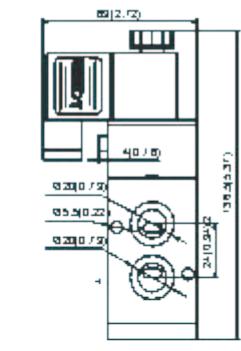
ALV310F1/F2C0
monostabile

elettrovalvole NAMUR 24x32 AChem

- Elettrovalvola per montaggio diretto su attuatori pneumatici con foratura NAMUR della misura 24x32mm
- Leva d'emergenza sul corpo valvola
- Eccellente per uso interno.



montage



mounting



montaggio





ALV310P2C1/C2/C3
einbaumagnetventil

magnetventile INTERNAL ACHEM

- Das Einbaumagnetventils ist konstruiert, um die Spule in einem geschützten Gehäuse IP67 oder Ex d (z.B. Endschalterbox) unterzubringen, während das eigentlich Ventilgehäuse außen verbleibt.
- Dasselbe Magnetventil kann mit 15mm Miniatur Pilotspulenventil (C1/C2/C3) gemäß CNOMO Schnittstelle für Direktanschluß an ASi Master oder PLC Steuerung ausgestattet werden.
- Außenliegende manuelle Handnotbetätigung am Gehäuse

ALV310P2C1/C2/C3
internal solenoid valve

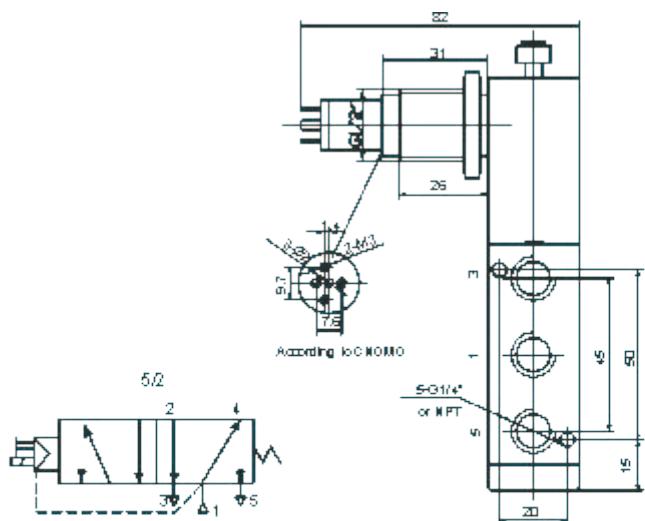
solenoid valves INTERNAL ACHEM

- The coil of the internal solenoid valve is available to be mounted into the enclosure and has the coil to be protected by the IP67 or Ex d enclosure (such as limit switch box). The valve housing itself remain outside meanwhile.
- This valve can be armed with 15mm miniature pilot coil (C1/C2/C3) valve according to CNOMO interface for direct wiring to ASi Master or PLC.
- Outside manual override on the body

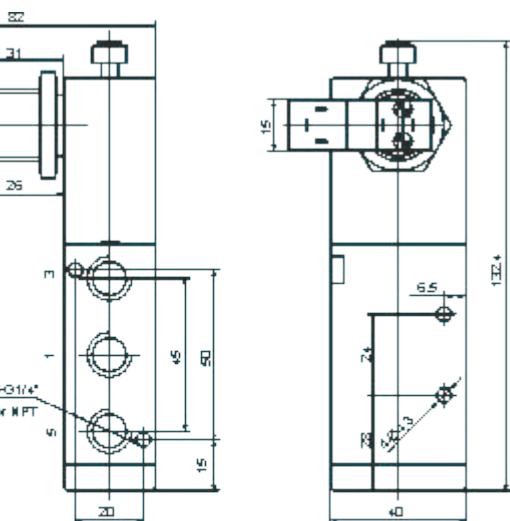
ALV310P2C1/C2/C3
elettrovalvola interna

elettrovalvole INTERNAL ACHEM

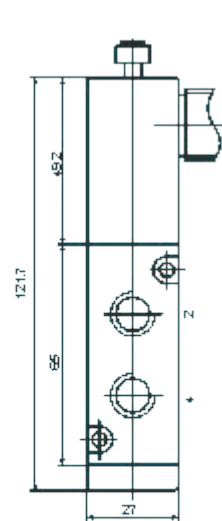
- La bobina dell'elettrovalvola interna è stata studiata per essere montata all'interno di un involucro IP67 o Ex d (come e.g. un box finecorsa).
- La stessa valvola può essere attrezzata con il sistema bobina pilota miniatura 15mm secondo l'interfaccia CNOMO permettendo allacciamento diretto al Master ASi o PLC.
- Leva manuale d'emergenza esterna sul corpo elettrovalvola



montage



mounting



montaggio



ALV310P2C3



ALV310P2C2



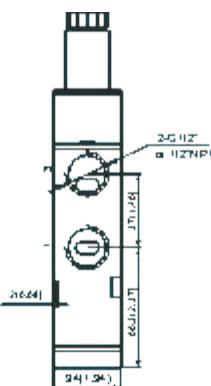
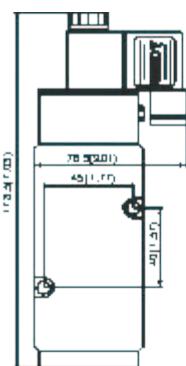
ALV310P2C1



ALV410F1/F2C0
monostabil

magnetventil NAMUR 40x45 ACHEM

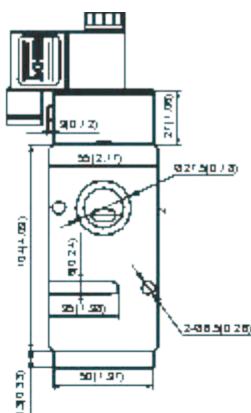
- Magnetventil für direkten Aufbau auf pneumatische Schwenkantriebe mit Bohrbild NAMUR der Größe 40x45mm
- Manuelle Handnotbetätigung auf dem Gehäuse
- Exzellent für Anwendung im Inneren von Gebäuden



ALV410F1/F2C0
mono-stable

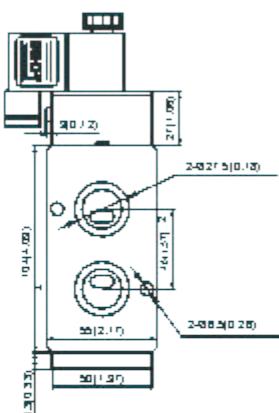
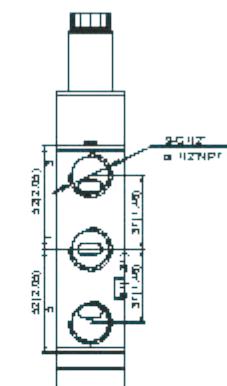
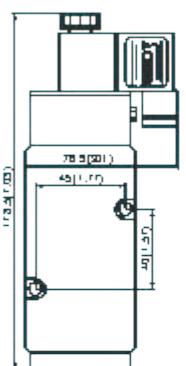
solenoid valve NAMUR 40x45 ACHEM

- Based on NAMUR standard 40x45mm the spool valve can be directly mounted on pneumatic actuator for controlling double-acting or spring return actuators
- Manual override on the body
- Excellent for the use indoor.



3/2

5/2



montage

mounting

montaggio





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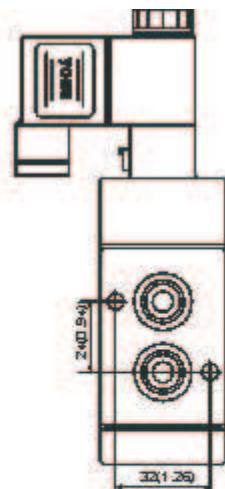
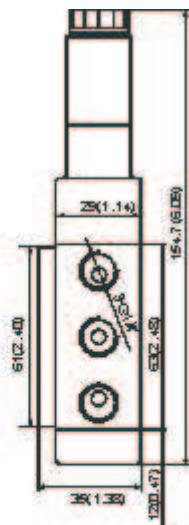
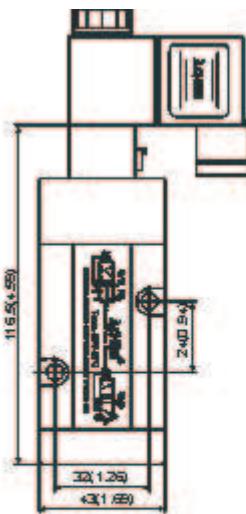
ACHEM

Art. ALV

■ ALV510F3C0/C7 monostabil

magnetventile NAMUR ACHEM

- Dasselbe Magnetventil kann sowohl für 3/2- oder 5/2-Wege Funktion zur Steuerung von doppelt- oder einfachwirkenden Schwenkantrieben eingesetzt werden. Manuelle Notbetätigung am Gehäuse.
- Alle Luftausgänge sind anschließbar und bieten exzellenten Umweltschutz gegen den Eintritt von Flüssigkeiten, Staub oder andere Materialien.
- Dasselbe Magnetventil kann mit verschiedenen Spulen ausgerüstet werden: IP65 NEMA4, 4X Spule (C0) oder mit Ex mb II T4/T5 Spule (C7).



■ ALV510F3C0/C7 mono-stable

solenoid valves NAMUR ACHEM

- The same spool valve can be adapted for 3/2 NC or 5/2 functions for controlling double-acting and single-acting pneumatic actuators. Manual override on the pilot body.
- All the exhaust ports of this spool valve are connectable which offer excellent environmental protection against the ingress of liquids, dusts or other foreign matter.
- The same spool valve can be armed with Ip65 NEMA4, 4X coil(C0) or with Ex mb II T4 or T5 coil(C7).

■ ALV510F3C0/C7 monostabile

elettrovalvole NAMUR ACHEM

- La stessa valvola può essere utilizzata per funzione 3/2- o 5/2-vie per il controllo di attuatori doppio o semplice effetto. Leva manuale d'emergenza sul corpo valvola.
- Tutte le uscite sono collegabili ed offrono quindi protezione eccezionale per l'ambiente contro l'entrata di liquidi, polveri od altri agenti.
- La stessa valvola può essere attrezzata con bobine IP65 NEMA4, 4X coil (C0) oppure con bobine Ex mb II T4 or T5 coil (C7).

ALV510F3C0



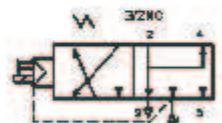
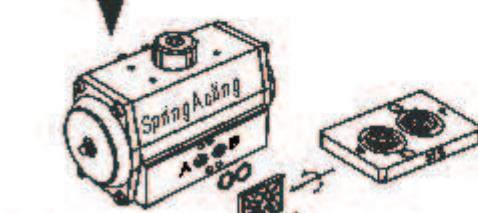
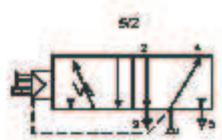
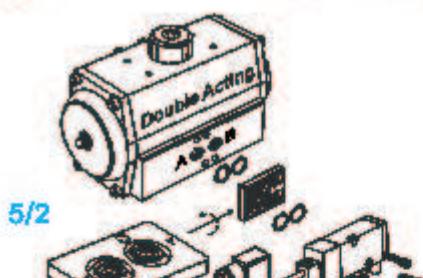
ALV510F3C7



■ montage



■ mounting



■ montaggio



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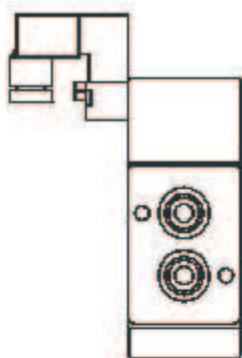
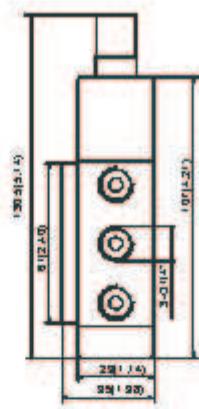
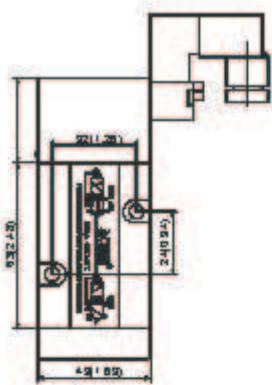
ACHEM

Art. ALV

■ ALV510F3C1/C2/C3 monostabil

magnetventile NAMUR ACHEM

- Dasselbe Magnetventil kann sowohl für 3/2- oder 5/2-Wege Funktion zur Steuerung von doppelt- oder einfachwirkenden Schwenkantrieben eingesetzt werden. Manuelle Notbetätigung am Gehäuse.
- Alle Luftausgänge sind anschließbar und bieten exzellenten Umweltschutz gegen den Eintritt von Flüssigkeiten, Staub oder andere Materialien.
- Dasselbe Magnetventil kann mit 15mm Miniatur pilot Spule (C1/C2/C3) gemäß CNOMO Schnittstelle ausgerüstet und direkt mit ASi Master oder PLC Steuerung verdrahtet werden.



■ ALV510F3C1/C2/C3 mono-stable

solenoid valves NAMUR ACHEM

- The same spool valve can be adapted for 3/2 NC or 5/2 functions for controlling double-acting and single-acting pneumatic actuators. Manual override on the pilot body.
- All the exhaust ports of this spool valve are connectable which offer excellent environmental protection against the ingress of liquids, dusts or other foreign matter.
- The same spool valve can be armed with 15mm miniature pilot coil (C1/C2/C3) according to CNOMO interface for direct wiring to ASi Master or PLC.

■ ALV510F3C1/C2/C3 monostabile

elettrovalvole NAMUR ACHEM

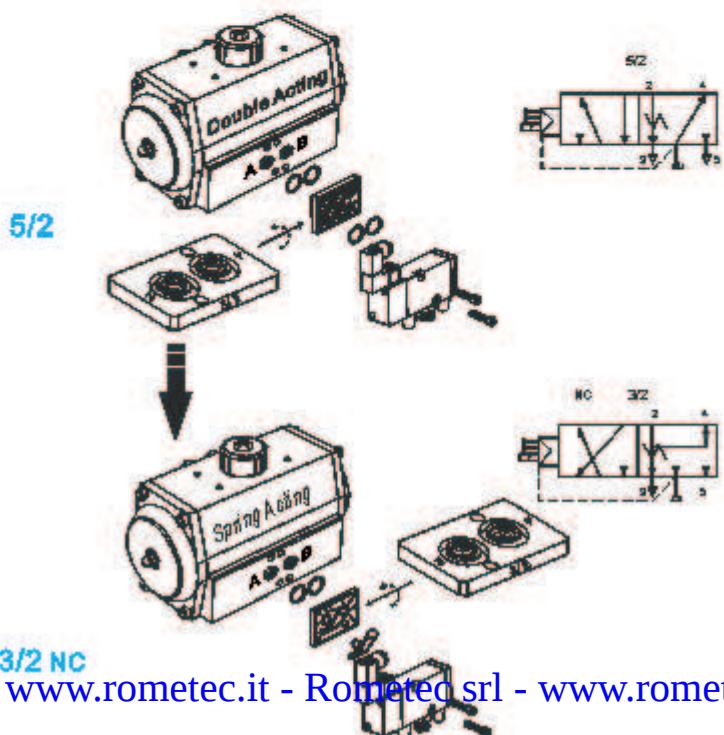
- La stessa valvola può essere utilizzata per funzione 3/2- o 5/2-vie per il controllo di attuatori doppio o semplice effetto. Leva manuale d'emergenza sul corpo valvola.
- Tutte le uscite sono collegabili ed offrono quindi protezione eccellente per l'ambiente contro l'entrata di liquidi, polveri od altri agenti.
- La stessa valvola può essere attrezzata con pilota bobina miniatura 15mm secondo interfaccia CNOMO e allacciata direttamente al Master ASi oppure PLC.



■ montage



■ mounting



■ montaggio



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ACHEM

Art. ALV

■ ALV510F3C4/C5/C6 monostabil

magnetventile NAMUR ACHEM

- Dasselbe Magnetventil kann sowohl für 3/2- oder 5/2-Wege Funktion zur Steuerung von doppelt- oder einfachwirkenden Schwenkantrieben in normalen oder explosionsgefährdeten Bereichen eingesetzt werden. Manuelle Notbetätigung am Gehäuse.
- Alle Luftausgänge sind anschließbar und bieten exzellenten Umweltschutz gegen den Eintritt von Flüssigkeiten, Staub oder anderen Materialien.
- Dasselbe Magnetventil kann mit Spule in Aluminium- oder Edelstahlgehäuse ausgerüstet werden, zertifiziert für Einsatz in korrosiven und explosionsgefährdeten Bereichen (Class I, Div. 1, Group A,B,C,D EEx d IIC T6 oder EEx ia IIC T6).

■ ALV510F3C4/C5/C6 mono-stable

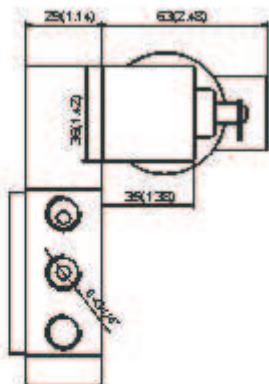
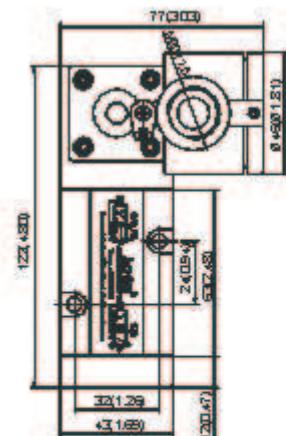
solenoid valves NAMUR ACHEM

- The same spool valve can be adapted for 3/2 NC or 5/2 functions for controlling double-acting and single-acting pneumatic actuators in the normal and hazardous area (Ex mb II T4 or T6). Manual override on the pilot body.
- All the exhaust ports of this spool valve are connectable which offer excellent environmental protection against the ingress of liquids, dusts or other foreign matter.
- The same spool valve can be armed with aluminium or stainless steel enclosure coil certified for use in corrosive area and in hazardous area (Class I, Div. 1, Group A,B,C,D EEx d IIC T6 or EEx ia IIC T6).

■ ALV510F3C4/C5/C6 monostabile

elettrovalvole NAMUR ACHEM

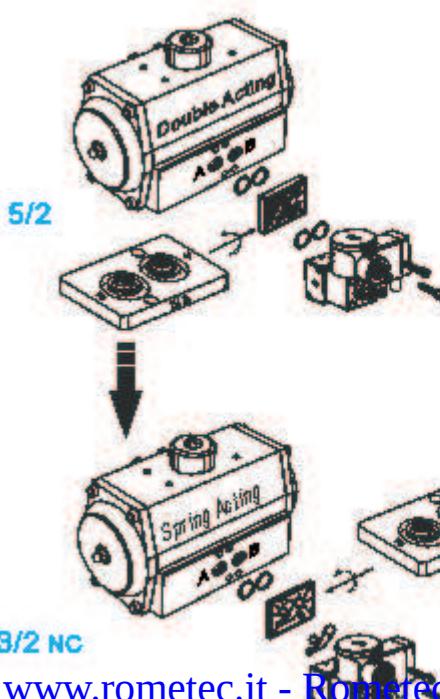
- La stessa valvola può essere utilizzata per funzione 3/2- o 5/2-vie per il controllo di attuatori doppio o semplice effetto in aree normali o a rischio d'esplosione (Ex mb II T4 o T6). Leva manuale d'emergenza sul corpo valvola.
- Tutte le uscite sono collegabili ed offrono quindi protezione eccellente per l'ambiente contro l'entrata di liquidi, polveri od altri agenti.
- La stessa valvola può essere attrezzata con bobina in involucro d'alluminio o acciaio inossidabile per uso in aree corrosive e a rischio d'esplosione (Class I, Div.1, Group A,B,C,D EEx d IIC T6 or EEx ia IIC T6).



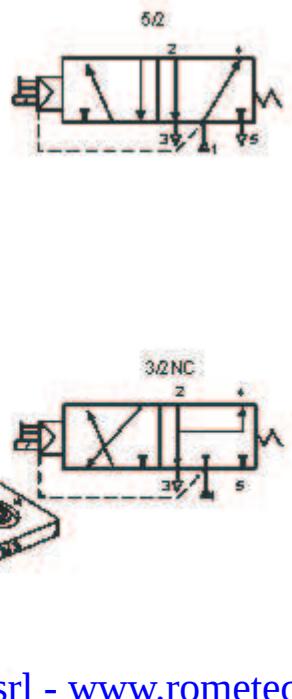
■ montage



■ mounting



■ montaggio





■ ALV510P1/P2C0/C7 monostabil

magnetventile IN-LINE ACHEM

- Alle Luftausgänge sind anschließbar und bieten exzellenten Umweltschutz gegen den Eintritt von Flüssigkeiten, Staub oder andere Materialien.
- Dasselbe Magnetventil kann mit verschiedenen Spulen ausgerüstet werden: IP65 NEMA4, 4X Spule (C0) oder mit Ex mb II T4/T5 Spule (C7).
- Manuelle Handnotbetätigung am Gehäuse

■ ALV510P1/P2C0/C7 mono-stable

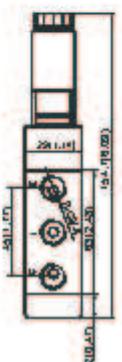
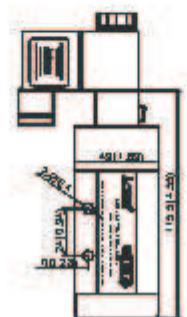
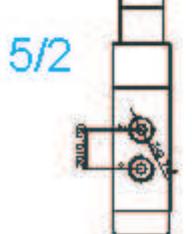
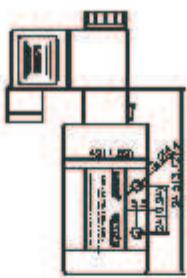
solenoid valves IN-LINE ACHEM

- All the exhaust ports of this spool valve are connectable which offer excellent environmental protection against the ingress of liquids, dusts or other foreign matter.
- The same spool valve can be armed with Ip65 NEMA4, 4X coil(C0) or with Ex mb II T4 or T5 coil(C7).
- Manual override on the body

■ ALV510P1/P2C0/C7 monostabile

elettrovalvole IN-LINE ACHEM

- Tutte le uscite sono collegabili ed offrono quindi protezione eccezionale per l'ambiente contro l'entrata di liquidi, polveri od altri agenti.
- La stessa valvola può essere attrezzata con bobine IP65 NEMA4, 4X coil (C0) oppure con bobine Ex mb II T4 or T5 coil (C7).
- Leva manuale d'emergenza sul corpo elettrovalvola



■ montage

magnetventile IN-LINE ACHEM

- Montage auf Versorgungsschiene mit Dichtungen und Hohlschrauben

■ mounting

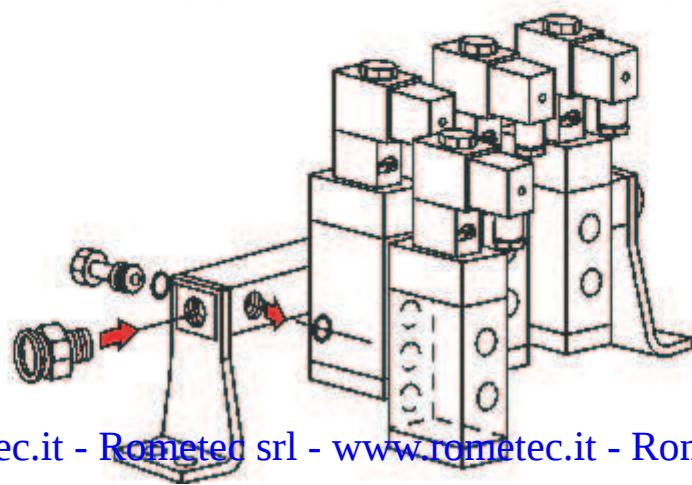
solenoid valves IN-LINE ACHEM

- Mounting on supply rail with seals and banjo bolts

■ montaggio

elettrovalvole IN-LINE ACHEM

- Montaggio su una rotaia d'alimentazione con guarnizioni e bulloni banjo





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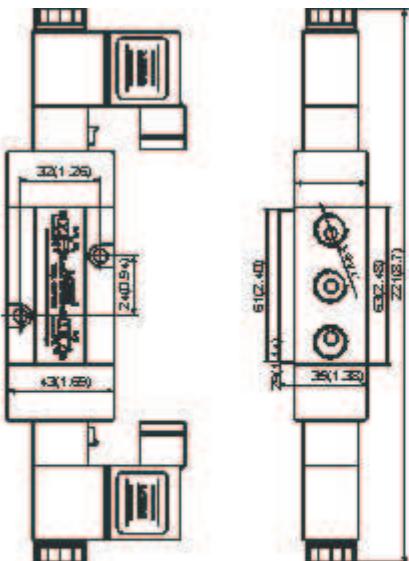
ACHEM

Art. ALV

■ ALV520F3C0/C7 bistabil

magnetventile NAMUR ACHEM

- Dasselbe Magnetventil kann sowohl für 3/2- oder 5/2-Wege Funktion zur Steuerung von doppelt- oder einfachwirkenden Schwenkantrieben eingesetzt werden. Manuelle Notbetätigung am Gehäuse.
- Alle Luftausgänge sind anschließbar und bieten exzellenten Umweltschutz gegen den Eintritt von Flüssigkeiten, Staub oder andere Materialien.
- Dasselbe Magnetventil kann mit verschiedenen Spulen ausgerüstet werden: IP65 NEMA4, 4X Spule (C0) oder mit Ex mb II T4/T5 Spule (C7).



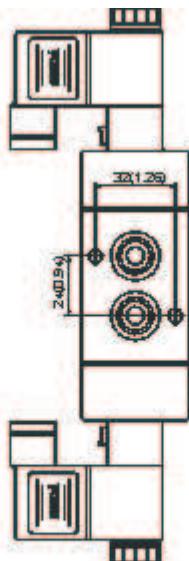
montage



■ ALV520F3C0/C7 bistable

solenoid valves NAMUR ACHEM

- The same spool valve can be adapted for 3/2 NC or 5/2 functions for controlling double-acting and single-acting pneumatic actuators. Manual override on the pilot body.
- All the exhaust ports of this spool valve are connectable which offer excellent environmental protection against the ingress of liquids, dusts or other foreign matter.
- The same spool valve can be armed with Ip65 NEMA4, 4X coil(C0) or with Ex mb II T4 or T5 coil(C7).



mounting

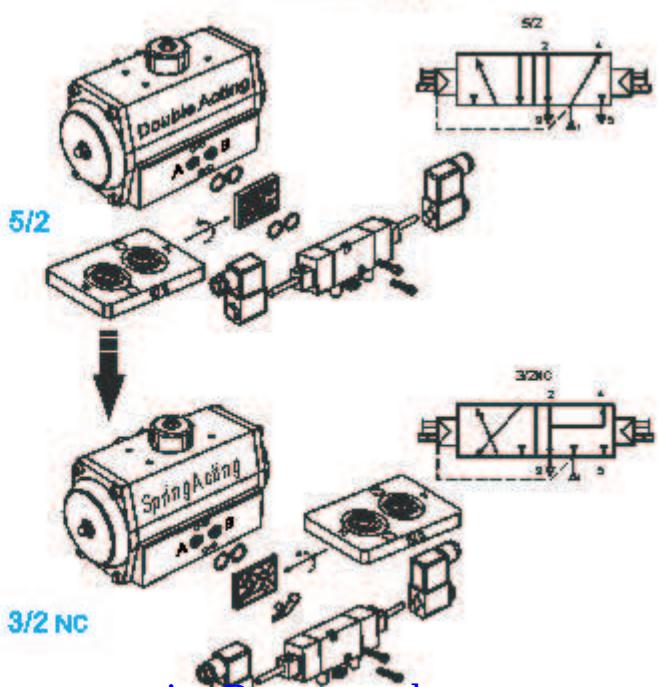
■ ALV520F3C0/C7 bistabile

elettrovalvole NAMUR ACHEM

- La stessa valvola può essere utilizzata per funzione 3/2- o 5/2-vie per il controllo di attuatori doppio o semplice effetto. Leva manuale d'emergenza sul corpo valvola.
- Tutte le uscite sono collegabili ed offrono quindi protezione eccezionale per l'ambiente contro l'entrata di liquidi, polveri od altri agenti.
- La stessa valvola può essere attrezzata con bobine IP65 NEMA4, 4X coil (C0) oppure con bobine Ex mb II T4 or T5 coil (C7).



montaggio





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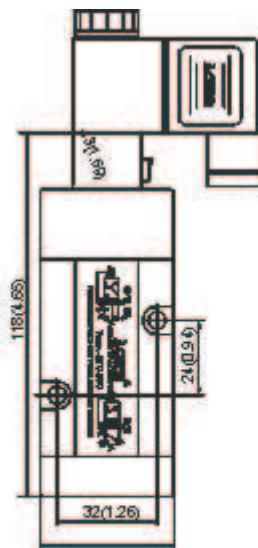
ACHEM

Art. ALV

■ ALV610F3C0/C7 monostabil

magnetventile NAMUR ACHEM

- Magnetventil in Edelstahl 1.4308/1.4408/1.4404 geeignet für Einsatz in korrosivem Ambiente
- Dasselbe Magnetventil kann sowohl für 3/2- oder 5/2-Wege Funktion zur Steuerung von doppelt- oder einfachwirkenden Schwenkantrieben eingesetzt werden. Manuelle Notbetätigung am Gehäuse.
- Alle Luftausgänge sind anschließbar und bieten exzellenten Umweltschutz gegen den Eintritt von Flüssigkeiten, Staub oder anderen Materialien.
- Dasselbe Magnetventil kann mit verschiedenen Spulen ausgerüstet werden: IP65 NEMA4, 4X Spule (C0) oder mit Ex mb II T4/T5 Spule (C7).



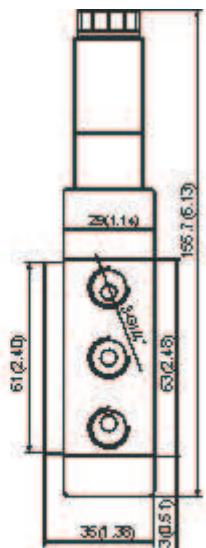
montage



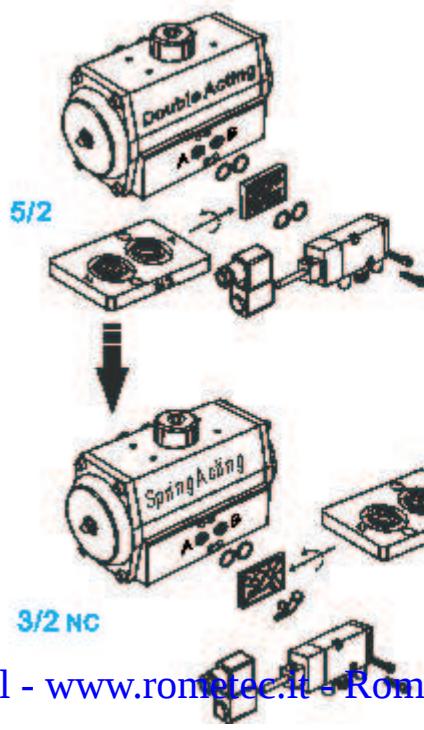
■ ALV610F3C0/C7 mono-stable

solenoid valves NAMUR ACHEM

- Stainless steel AISI304/316/316L spool valve suitable for application in corrosive area
- The same spool valve can be adapted for 3/2 NC or 5/2 functions for controlling double-acting and single-acting pneumatic actuators. Manual override on the pilot body.
- All the exhaust ports of this spool valve are connectable which offer excellent environmental protection against the ingress of liquids, dusts or other foreign matter.
- The same spool valve can be armed with Ip65 NEMA4, 4X coil(C0) or with Ex mb II T4 or T5 coil(C7).



mounting



■ ALV610F3C0/C7 monostabile

elettrovalvole NAMUR ACHEM

- Elettrovalvola in acciaio inossidabile AISI304/316/316L per utilizzo in ambienti corrosivi
- La stessa valvola può essere utilizzata per funzione 3/2- o 5/2-vie per il controllo di attuatori doppio o semplice effetto. Leva manuale d'emergenza sul corpo valvola.
- Tutte le uscite sono collegabili ed offrono quindi protezione eccezionale per l'ambiente contro l'entrata di liquidi, polveri od altri agenti.
- La stessa valvola può essere attrezzata con bobine IP65 NEMA4, 4X coil (C0) oppure con bobine Ex mb II T4 or T5 coil (C7).



montaggio

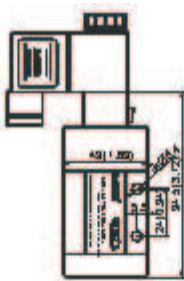




■ ALV610P1/P2C0/C7 monostabil

magnetventile IN-LINE ACHEM

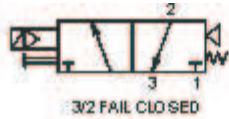
- Magnetventil in Edelstahl 1.4308/1.4408/1.4404 geeignet für Einsatz in korrosivem Ambiente
- Alle Luftausgänge sind anschließbar und bieten exzellenten Umweltschutz gegen den Eintritt von Flüssigkeiten, Staub oder andere Materialien.
- Dasselbe Magnetventil kann mit verschiedenen Spulen ausgerüstet werden: IP65 NEMA4, 4X Spule (C0) oder mit Ex mb II T4/T5 Spule (C7).
- Manuelle Handnotbetätigung am Gehäuse



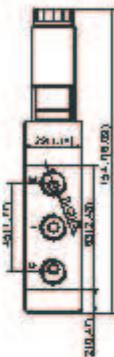
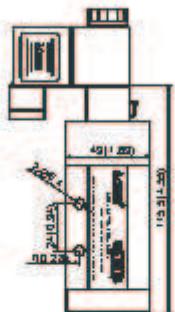
■ ALV610P1/P2C0/C7 mono-stable

solenoid valves IN-LINE ACHEM

- Stainless steel AISI304/316/316L spool valve suitable for application in corrosive area
- All the exhaust ports of this spool valve are connectable which offer excellent environmental protection against the ingress of liquids, dusts or other foreign matter.
- The same spool valve can be armed with Ip65 NEMA4, 4X coil(C0) or with Ex mb II T4 or T5 coil(C7).
- Manual override on the body



3/2



5/2

■ montage

magnetventile IN-LINE ACHEM

- Montage auf Versorgungsschiene mit Dichtungen und Hohlschrauben (Edelstahl)

■ mounting

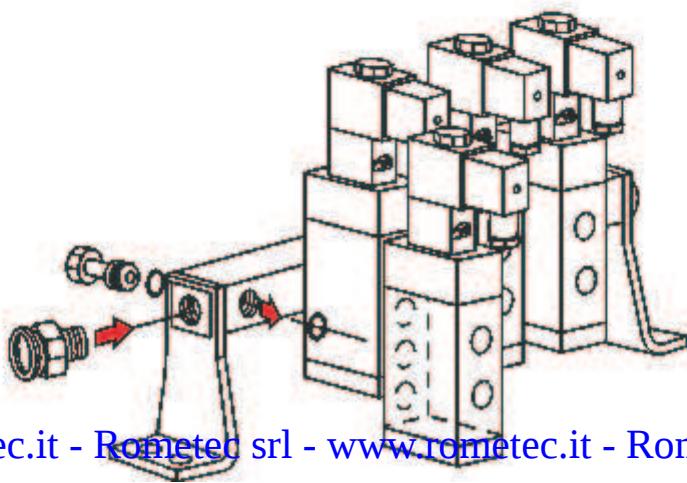
solenoid valves IN-LINE ACHEM

- Mounting on supply rail with seals and banjo bolts (stainless steel)

■ montaggio

elettrovalvole IN-LINE ACHEM

- Montaggio su una rotella d'alimentazione con guarnizioni e bulloni banjo (acciaio inossidabile)





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Art. ALV

■ ALV710F3C0/C7 monostabil

magnetventile NAMUR ACHEM

- Magnetventil in Edelstahl 1.4308/1.4408/1.4404 geeignet für Einsatz in korrosivem Ambiente
- Dasselbe Magnetventil kann sowohl für 3/2- oder 5/2-Wege Funktion zur Steuerung von doppelt- oder einfachwirkenden Schwenkantrieben eingesetzt werden. Manuelle Notbetätigung am Gehäuse.
- Alle Luftausgänge sind anschließbar und bieten exzellenten Umweltschutz gegen den Eintritt von Flüssigkeiten, Staub oder anderen Materialien.
- Dasselbe Magnetventil kann mit verschiedenen Spulen ausgerüstet werden: IP65 NEMA4, 4X Spule (C0) oder mit Ex mb II T4/T5 Spule (C7).

■ ALV710F3C0/C7 mono-stable

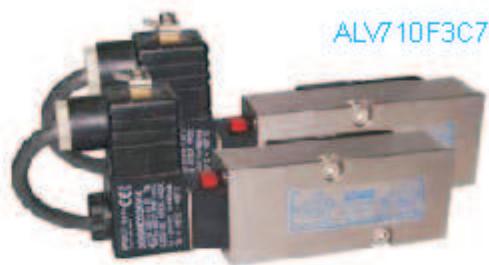
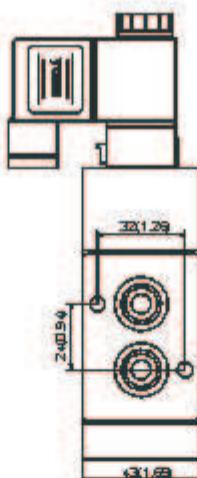
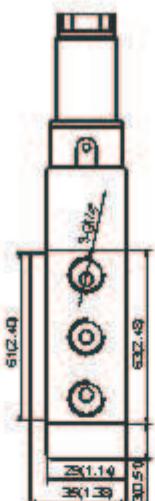
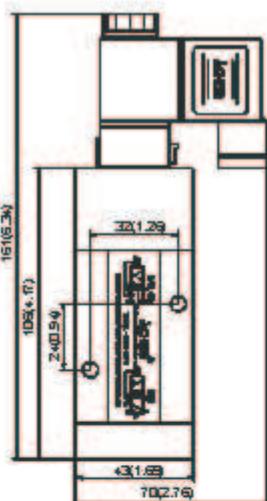
solenoid valves NAMUR ACHEM

- Stainless steel AISI304/316/316L spool valve suitable for application in corrosive area
- The same spool valve can be adapted for 3/2 NC or 5/2 functions for controlling double-acting and single-acting pneumatic actuators. Manual override on the pilot body.
- All the exhaust ports of this spool valve are connectable which offer excellent environmental protection against the ingress of liquids, dusts or other foreign matter.
- The same spool valve can be armed with Ip65 NEMA4, 4X coil(C0) or with Ex mb II T4 or T5 coil(C7).

■ ALV710F3C0/C7 monostabile

elettrovalvole NAMUR ACHEM

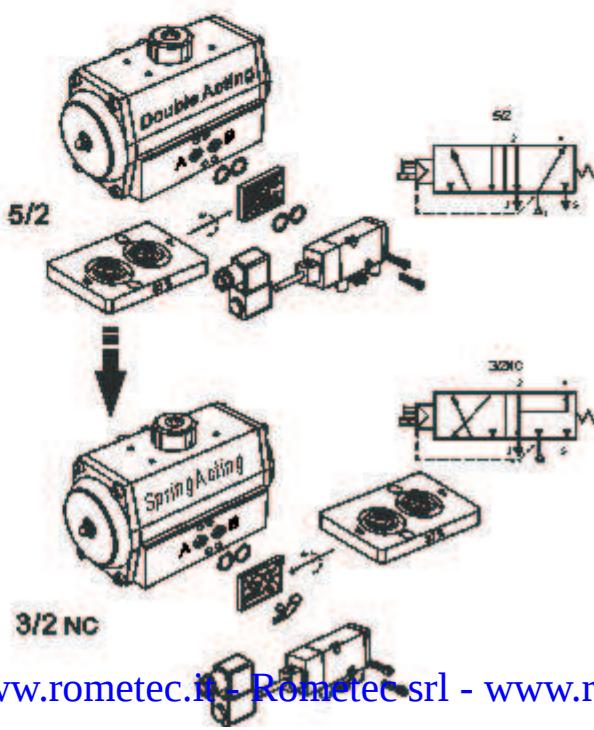
- Elettrovalvola in acciaio inossidabile AISI304/316/316L per utilizzo in ambienti corrosivi
- La stessa valvola può essere utilizzata per funzione 3/2- o 5/2-vie per il controllo di attuatori doppio o semplice effetto. Leva manuale d'emergenza sul corpo valvola.
- Tutte le uscite sono collegabili ed offrono quindi protezione eccezionale per l'ambiente contro l'entrata di liquidi, polveri od altri agenti.
- La stessa valvola può essere attrezzata con bobine IP65 NEMA4, 4X coil (C0) oppure con bobine Ex mb II T4 or T5 coil (C7).



■ montage



■ mounting



■ montaggio



■ ALV-MB versorgungsschiene

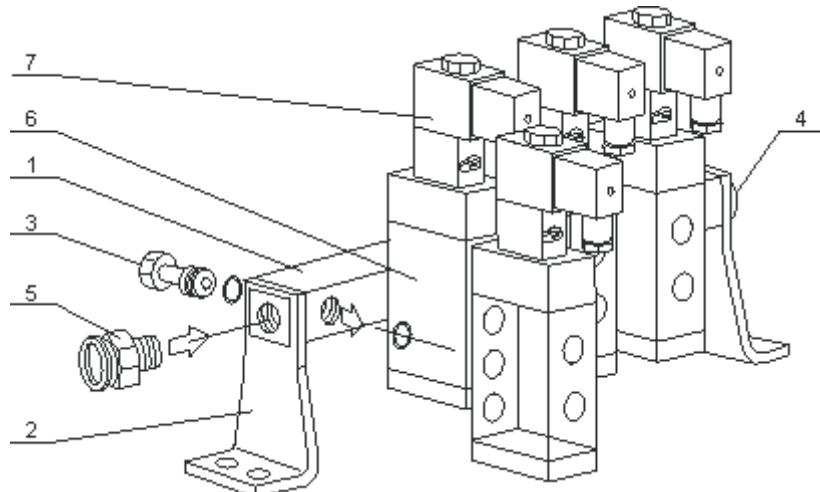
magnetventile IN-LINE ACHEM

- Die ALV Versorgungsschiene besteht aus Schiene und Montagebrücken, Dichtungen und Hohlschrauben. Diese Lösung ist einfach, leicht zu montieren und spart Platz.

■ ALV-MB supply rail

solenoid valves IN-LINE ACHEM

- ALV manifold solenoid valve bracket (ALV-MB) is structured by supply rail with brackets, seats and banjo bolts. This solution is simple, easy to assemble and save space.



■ ALV-MB rotaia d'alimentazione

elettrovalvole IN-LINE ACHEM

- La rotaia d'alimentazione ALV consiste di una basetta con bracket, garnizioni e bulloni banjo. Questa soluzione è semplice, facile da montare e risparmia spazio.

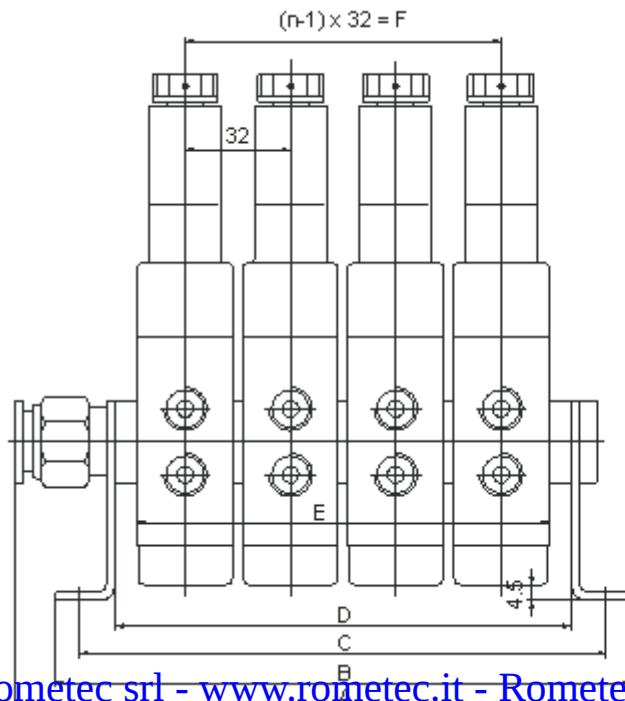
Nr. Teil - Part - Particolare

Nr.	Teil - Part - Particolare	Teile Nr. - Part no. - Part.	Werkstoff - Material - Materiale
1	Versorgungsschiene - Supply rail - Rotaia d'alimentazione	ALV-MB01	Edelstahl - Stainless steel - Acciaio inox AISI304-AISI316
2	Montagebügel - Mounting bracket - Bracket di montaggio	ALV-MB02	Edelstahl - Stainless steel - Acciaio inox AISI304-AISI316
3	Hohlschraube - Banjo bolt - Bullone	ALV-MB03	Edelstahl - Stainless steel - Acciaio inox AISI304-AISI316
4	Bolzen - Plug bolt - Bullone	ALV-MB04	Edelstahl - Stainless steel - Acciaio inox AISI304-AISI316
5	Luftanschluß - Air connect - Entrata aria	ALV-MB05	Messing/Edelstahl - Brass/stainl. steel - Ottone/acc.inox
6	Magnetventilgehäuse - Spool valve - Corpo elettrovalvola	ALVP510P2 - ALVP610P2	Aluminium - AISI304 - AISI316
7	Spule - Coil - Bobina	C0, C1, C7	

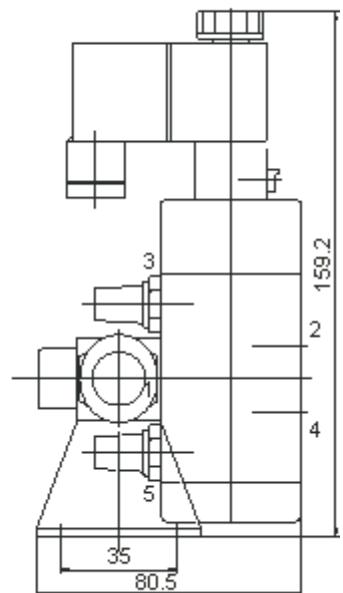
■ montage

■ mounting

■ montaggio



Anz. Ventile - No. valves - No. valvole		
2	4	10
A	123	187
B	111	175
C	96	160
D	75	139
E	51	125
F	32	96
		288





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ALV
Art. ALV

■ ALV-Zubehör

■ ■ ■ ALV-Accessories

■ ■ ■ ALV-Accessori

Teil - Part - Particolare	Art.	Type	Photo	Einsatz - Application - Applicazione
Schalldämpfer lang Messing <i>Long brass silencer</i> Silenziatore lungo ottone	BM10	G or NPT1/8"		
	BM11	G or NPT1/4"		
	BM12	G or NPT3/8"		
	BM13	G or NPT1/2"		
Schalldämpfer kurz Messing <i>Brass short silencer</i> Silenziatore corto ottone	BM20	G or NPT1/8"		
	BM21	G or NPT1/4"		
	BM22	G or NPT3/8"		
	BM23	G or NPT1/2"		
Schalldämpfer kurz Edelstahl <i>Stainless steel short silencer</i> Silenziatore corto acciaio inox	SM20	G or NPT1/8"		
	SM21	G or NPT1/4"		
	SM22	G or NPT3/8"		
	SM23	G or NPT1/2"		
Schalldämpfer lang Kunststoff <i>Long plastic silencer</i> Silenziatore lungo plastico	PM30	G or NPT1/8"		
	PM31	G or NPT1/4"		
	PM32	G or NPT3/8"		
	PM33	G or NPT1/2"		
Drosselschalldämpfer Messing <i>Brass speed control</i> Riduttore velocità ottone	BM40	G or NPT1/8"		
	BM41	G or NPT1/4"		
	BM42	G or NPT3/8"		
	BM43	G or NPT1/2"		
Drosselschalldämpfer Messing <i>Brass speed control</i> Riduttore velocità ottone	BM50	G or NPT1/8"		
	BM51	G or NPT1/4"		
	BM52	G or NPT3/8"		
	BM53	G or NPT1/2"		
Schlauchverschraubung Messing <i>Brass pipe connector</i> Attacco rapido x tubo ottone	BP10	G or NPT1/8"-6/8mm		
	BP11	G or NPT1/4"-6/8mm		
	BP12	G or NPT3/8"-6/8mm		
	BP13	G or NPT1/2"-6/8mm		
Schlauchverschraubung vernickelt <i>Nickel coated pipe connector</i> Attacco rapido x tubo nichelato	NP10	G or NPT1/8"-6/8mm		
	NP11	G or NPT1/4"-6/8mm		
	NP12	G or NPT3/8"-6/8mm		
	NP13	G or NPT1/2"-6/8mm		
Kabelverschraubung vernickelt <i>Nickel coated cable gland</i> Pressacavo nichelato	Ex-CM20	Brass nickel coated		
		M20-1.5, 6~12mm		
	Ex-CP12	Brass nickel coated		
		1/2", 6~12mm		
		Brass nickel coated		
	Ex-CP14	3/4", 8.5~16mm		



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Art. ALV

■ STP-DA/SR Drosselplatte

smart throttling plate **ACHEM**

- Direkt an pneumatische Schwenkantriebe montiert oder in Verbindung mit NAMUR Magnetventile und/oder Positionierer. Sie dient der Kontrolle der Öffnungs- und Schließgeschwindigkeit von pneumatischen Schwenkantrieben.
- Die Smart Throttling Plate ist fähig, die Drehgeschwindigkeit von Antrieben beliebig, fortlaufend und sicher zu regeln.

■ STP-DA/SR Speed controller

smart throttling plate **ACHEM**

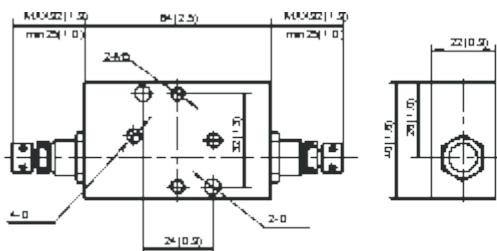
- Mounted directly to pneumatic actuators or used with NAMUR solenoid valves and/or positioners for the use of controlling the opening and closing speed of pneumatic actuators.
- The Smart Throttling Plate is able to control the rotary speed of the actuator at any rate accurately, consistently and safely.

■ STP-DA/SR Riduttore velocitá

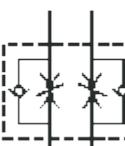
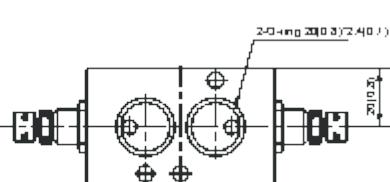
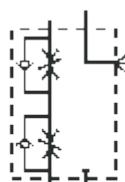
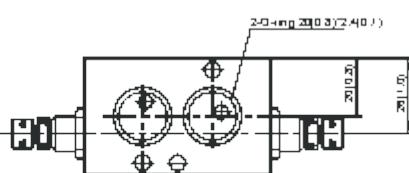
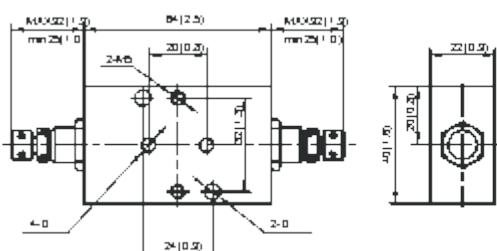
smart throttling plate **ACHEM**

- Montata direttamente su attuatori pneumatici o usata insieme ad elettrovalvole NAMUR e/o posizionatori per il controllo della velocità di apertura e chiusura degli attuatori pneumatici.
- Il Smart Throttling Plate è capace di controllare la velocità di rotazione degli attuatori in modo accurato, consistente e sicuro.

3/2



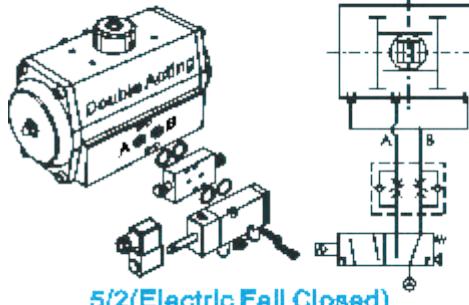
5/2



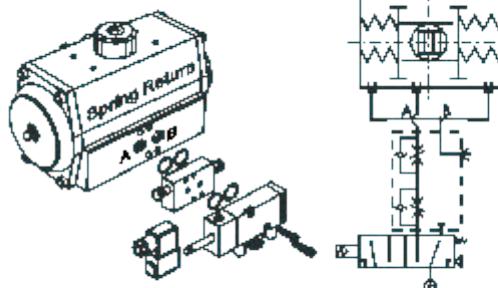
■ montage

mounting

montaggio



5/2(Electric Fall Closed)



3/2(Electric Fall Closed)

