



Valvola a membrana compatta a comando pneumatico, NC / NO / DA

Pneumatically actuated compact diaphragm valve, NC / NO / DA

Vanne à membrane compacte à commande pneumatique NC / NO / DA

Kompakt pneumatisch gesteuertes Membranventil, NC / NO / DA

CM/CP



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Valvola a membrana compatta a comando pneumatico, NC / NO / DA

Dimensioni secondo ISO-BS-ASTM

La CM/CP è una valvola a comando pneumatico, dalla struttura compatta e con grandi capacità di portata. L'attuazione della CM/CP avviene mediante un pistone dal funzionamento a secco azionabile da tutti i fluidi liquidi o gassosi purchè neutri e puliti. La struttura molto compatta di questa valvola consente un facile montaggio anche in spazi molto ristretti.

PECULIARITÀ

- La valvola è insensibile ai fluidi contenenti impurità.
- Ha una notevole portata
- Può venire montata in qualsiasi posizione.
- Ha una struttura molto compatta.
- E' attuata da un pistone che lavora a secco e che non richiede manutenzione.
- Non ha viti in evidenza ed è assolutamente esente da depositi di impurità.
- Consente una facile sostituzione della membrana di tenuta.
- Nella versione Standard la valvola è dotata di indicatore di posizione.

ACCESSORI

- La valvola può essere dotata dei seguenti accessori:
- limitatore di corsa con indicatore visivo di posizione
 - microinterruttori elettromeccanici di fine corsa
 - microinterruttori induttivi (proximity) di fine corsa
 - elettrovalvola pilota 3/2 vie per montaggio diretto o in batteria

Per maggiori informazioni visitare il sito: www.fipnet.it.

Pneumatically actuated compact diaphragm valve, NC / NO / DA

Sizes according to ISO-BS-ASTM

The CM/CP is a compact actuated diaphragm valve with excellent flow characteristics and tight sealing. The valve is fitted with a maintenance free actuator, which is suitable for using with all neutral liquids and gases. With the NC and NO operating modes, springs are incorporated within the actuator.

The compact design of the valve makes it ideal for mounting where space is at a premium.

An integrated position indicator provides evidence of the open or closed position of the valve.

CHARACTERISTICS

- The valve is insensitive to dirty and/or contaminated media.
- Excellent flow characteristics.
- Installation can be in any position
- Compact construction.
- The actuator is maintenance free
- No exposed fasteners.
- Easy replacement of the sealing diaphragm.
- The valve is provided with Position indicator as standard.

ACCESSORIES

- The valve can be equipped with:
- stroke limiter with optical Position indicator
 - electromechanical limit-switches
 - inductive (proximity) limit-switches
 - direct or gang mounting 3/2 way pilot solenoid valve

For more information please visit our website: www.fipnet.it.

Vanne à membrane compacte à commande pneumatique NC / NO / DA

Dimensions selon ISO-BS-ASTM

Le CM/CP est une vanne à commande pneumatique, avec une structure compacte et avec grande capacité. La mise en œuvre de la CM / CP est grâce à un piston de l'exploitation à sec, actionné par tous les fluides liquides ou gazeux mais neutre et propre.

La structure très compacte de cette vanne permet un montage facile même dans petits espaces.

CARACTERISTIQUES

- La vanne résiste aux milieux agressifs.
- Élevée coefficient de débit,
- Montage dans n'importe quelle position.
- Construction compacte,
- Mis en œuvre par un piston Fonctionne à sec que ne nécessite pas d'entretien.
- La vanne n'a pas de vis et elle n'a pas dépôts des impuretés.
- Remplacement de la membrane facilité.
- Indicateur de position intégré a la vanne.

ACCESSOIRES

- La vanne peut être équipée avec:
- limiteur de course avec indicateur de position
 - micro-interrupteurs électromécaniques de fin course
 - micro-interrupteurs inductive de fin course
 - électro distributeur 3/2 voies montage direct ou batterie

Pour avoir d'autres informations, visiter le site: www.fipnet.it.

Kompakt Pneumatisch gesteuertes Membranventil, NC / NO / DA Typ 186

Abmessungen nach ISO-BS-ASTM

Das fremdgesteuerte Membranventil ist äußeres kompakt aufgebaut und lässt hierdurch den Einsatz auf engstem Raum zu. Als Antrieb dient ein wartungsfreier Kolbenantrieb der mit allen neutralen gasförmigen und flüssigen Steuermedien betrieben werden kann.

In der Standardausführung ist das Ventil über eine Schließfeder in Ruhestellung geschlossen (NC), als Sonderausführung ist das Ventil in der Ruhestellung über eine Feder geöffnet (NO) lieferbar, und weiterhin ist eine federlose doppelwirkende (DA) Antriebsvariante erhältlich.

HAUPTMERKMALE

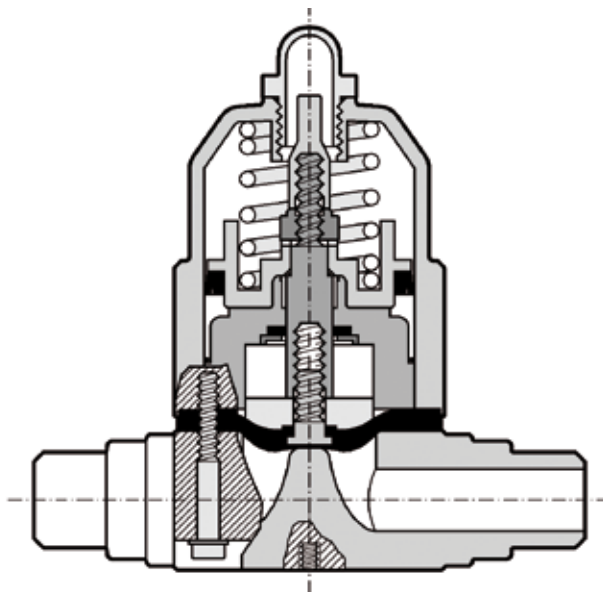
- Schmutzunempfindlich.
- Hohe durchflussleistung.
- Durchflussrichtung und einbaulage beliebig.
- Kompakte bauform.
- Wartungsfreier antrieb.
- Hermetische abdichtung.
- Einfacher membranwechsel.
- Optische stellungsanzeige.

ZUBEHÖR

Das Ventil kann zusätzlich ausgerüstet werden mit:

- Hubbegrenzung mit optischer Stellungsanzeige
- elektromechanischer Stellungsanzeige Auf und Zu (Mikroschalter)
- elektronischer Stellungsanzeige Auf und Zu (berührungslöse Endschalter)
- 3/2 Wege Pilotventil einzeln oder als Anreihventil.

Für weitere Details schauen Sie auf unsere Website: www.fipnet.it.



Legenda

d	diametro nominale esterno del tubo in mm	d	nominal outside diameter of the pipe in mm	d	diamètre extérieur nominal du tube en mm	d	Rohraußendurchmesser in mm
DN	diametro nominale interno in mm	DN	nominal internal diameter in mm	DN	diamètre intérieur nominal du tube en mm PN	DN	Rohrinnenweite in mm
PN	pressione nominale in bar (pressione max di esercizio a 20°C in acqua)	PN	nominal pressure in bar (max. working pressure at 20°C - water)	PN	pression nominale en bar (pression de service max à 20°C- eau)	PN	Nennndruck; höchstzulässiger Betriebsdruck in bar, bei 20° C Wasser
g	peso in grammi	g	weight in grams	g	poids en grammes	g	Gewicht in Gramm
PVC-U	cloruro di polivinile rigido	PVC-U	unplasticized polyvinyl chloride	PVC-U	polychlorure de vinyle non plastifié	PVC-U	Polyvinylchlorid hart
PP-H	polipropilene omopolimero	PP-H	polypropylene homopolymer	PP-H	polypropylène homopolymère	PP-H	Polypropylen Homopolimerisat
PVC-C	cloruro di polivinile surclorato	PVC-C	chlorinated polyvinyl chloride	PVC-C	polychlorure de vinyle surchloré	PVC-C	Polyvinylchlorid nachchloriert
PVDF	polifluoruro di vinilidene	PVDF	polyvinylidene fluoride	PVDF	polyfluorure de vinylidène	PVDF	Polyvinylidenfluorid
EPDM	elastomero etilene propilene	EPDM	ethylene propylene rubber	EPDM	élastomère éthylène propylène	EPDM	Ethylenpropylen-dienelastomer
FPM	fluoroelastomero	FPM	vinylidene fluoride rubber	FPM	fluorélastomère de vinylidène	FPM	Fuorelastomer
PTFE	politetrafluoroetilene	PTFE	polytetrafluoroethylene	PTFE	polytétrafluoroéthylène	PTFE	Polytetrafluorethylen
PE	polietilene	PE	polyethylene	PE	polyéthylène	PE	Polyethylen
PA-MXD6	poliammide rinforzato fibre di vetro	PA-MXD6	polyamide fiber glass reinforced	PA-MXD6	polyamide renforcé fibre de verre	PA-MXD6	Polyarlamide
PP-GR	polipropilene rinforzato fibre di vetro	PP-GR	polypropylene fiber glass reinforced	PP-GR	polypropylène renforcé fibre de verre	PP-GR	Polypropylen glasfaserverstärkt
NC	normalmente chiusa	NC	normally closed	NC	normalement fermée	NC	Normal Geschlossen
NO	normalmente aperta	NO	normally open	NO	normalement ouvert	NO	Normal Geöffnet
DA	doppio effetto	DA	double acting	DA	double effet	DA	Dopplet Wirkend
k_{v100}	Coefficiente di flusso	k_{v100}	Flow coefficient	k_{v100}	Coefficient de débit	k_{v100}	kv100 –Wert

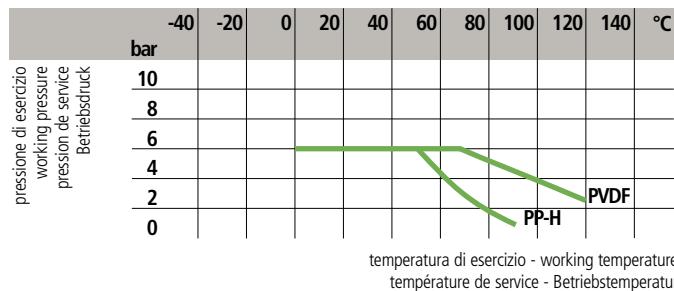
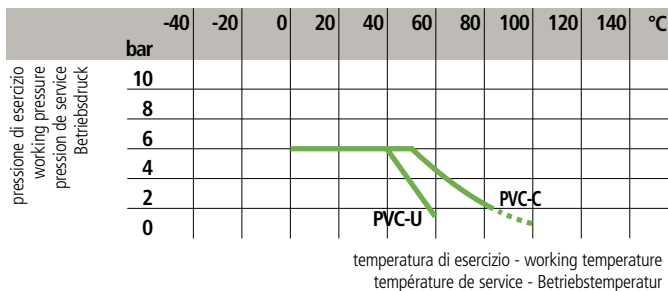
**Dati
Tecnici**

**Technical
Data**

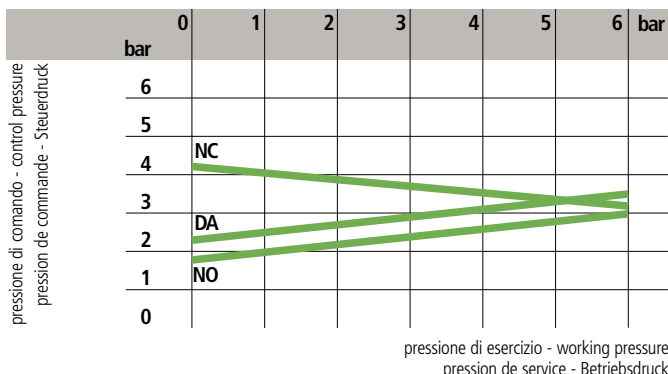
**Données
Techniques**

**Technische
Daten**

1



2



DN	12	15
k_{v100}	47	58

3

Pressione di esercizio - Working Pressure - Pression de service - Betriebsdruck	max 6 bar
Pressione di comando - Control pressure - Pression de commande - Steuerdruck	4 - 7 bar
Funzione di comando - Control function - Fonction de commande - Steuerfunktion	NC -NO - DA
Temperatura del fluido di comando* - Control fluid temperature* Température de le fluid de commande* - Temperatur des Steuemediums*	max 40° C
Capacità attuatore** - Actuator capacity** - Capacité actionneur** - Steuervolumen**	0.027 NI

* Fluido di comando: usare sia aria filtrata secca che aria lubrificata. (Per utilizzo di altri fluidi consultare il ns. servizio tecnico).
** NI: Normal-litro volume alla pressione atmosferica

* The control fluid: use both dry filtered air and lubricated air (for others fluids please contact out technical service).
** NI: Normal-liter volume et atmospheric pressure

* Le fluide de commande: utiliser de l'air filtré soit sec soit lubrifié (Pour utilisation de autres fluides consulter le bureau technique).
** NI: Normal-litre volume à la pression atmosphérique

* Das Steuemedium soll neutral und sauber sein: benutzen Sie sowohl filtrierte trockene Luft, als auch befeuchtete Luft. Wenn Sie andere Flüssigkeiten verwenden möchten, fragen Sie bitte unseren technischen Dienst.
** NI: Normale Liter Volumen bei atmosphärischem Druck

1

Variazione della pressione in funzione della temperatura per acqua o fluidi non pericolosi nei confronti dei quali il materiale è classificato CHIMICAMENTE RESISTENTE. In altri casi è richiesta un'adeguata diminuzione della pressione nominale PN. (25 anni con fattore di sicurezza).

Per l'impiego del PVC-C con temperature di esercizio superiori a 90°, si consiglia di contattare il servizio tecnico.

Pressure/temperature rating for water and harmless fluids to which the material is RESISTANT. In other cases a reduction of the rated PN is required. (25 years with safety factor).

For PVC-C usage with working temperature higher than 90° C please contact the technical service.

Variation de la pression en fonction de la température pour l'eau et les fluides non agressifs pour lequel le matériau est considéré CHIMIQUEMENT RESISTANT. Pour les autres cas une diminution du PN est nécessaire. (25 années avec facteur de sécurité inclus).

Avant d'utiliser le PVC-C à température de service au-dessus de 90° C nous vous prions de contacter le service technique.

Druck/Temperatur-Diagramm für Wasser und ungefährliche Medien gegen die das Material BESTÄNDIG ist. In allen anderen Fällen ist eine entsprechende Reduzierung der Druckstufe erforderlich. (Unter Berücksichtigung des Sicherheitsfaktors für 25 Jahre).

Für Anwendungen von PVC-C mit Betriebstemperaturen höher als 90° C, bitte wenden Sie sich an den technischen Verkauf.

2

Pressione di comando in funzione della pressione di esercizio.

Control pressure relative to working pressure.

Pression de commande en fonction de la pression de service.

Steuerdruck/BetriebsdruckRelation.

3

Coefficiente di flusso k_{v100}

Flow coefficient k_{v100}

Coefficient de débit k_{v100}

k_{v100} -Wert

Per coefficiente di flusso k_{v100} si intende la portata Q in litri al minuto di acqua a 20°C che genera una perdita di carico $\Delta p=1$ bar per una determinata posizione della valvola. I valori k_{v100} indicati in tabella si intendono per valvola completamente aperta.

k_{v100} is the number of litres per minute of water at a temperature of 20°C that will flow through the valve with $\Delta p=1$ bar differential-pressure at a specified position. The k_{v100} values shown in the table are calculated with the valve completely open.

k_{v100} est le nombre de litres d'eau, à une température de 20°C, qui s'écoule en une minute dans une vanne pour une position donnée avec une pression différentielle Δp de 1 bar. Les valeurs k_{v100} indiquées sur la table sont évaluées lorsque le robinet est entièrement ouvert

Der k_{v100} -Wert nennt den urchsatz in l/min für Wasser bei 20°C und einem Δp von 1 bar bei völlig geöffnetem Ventil.

Dimensioni

La valvola a membrana FIP è disponibile nelle seguenti versioni, i cui attacchi sono in accordo con le seguenti norme:

- Incollaggio PVC-U:
EN ISO 1452, EN ISO 15493,
ISO 727, DIN 8062, DIN 8063
- Incollaggio PVC-C:
EN ISO 15493, ISO 727-1,
- Saldatura nel bicchiere PP-H:
EN ISO 15494.
- Saldatura nel bicchiere PVDF:
EN ISO 10931.
- Filettatura: ISO 228-1, DIN 2999,
ISO 7-1, BS 21, BS 10226.

Dimensions

The FIP diaphragm valve is available in the following versions, whose coupling comply with the following standards:

- Solvent welding PVC-U:
EN ISO 1452, EN ISO 15493,
ISO 727, DIN 8062, DIN 8063
- Solvent welding PVC-C:
EN ISO 15493, ISO 727-1,
- Socket fusion PP-H:
EN ISO 15494.
- Socket fusion PVDF:
EN ISO 10931.
- Threaded coupling: ISO 228-1, DIN
2999, ISO 7-1, BS 21, BS 10226.

Dimensions

La vanne à membrane FIP est disponible dans les suivantes versions, dont les embouts sont conformes aux normes suivantes:

- Encollage PVC-U:
EN ISO 1452, EN ISO 15493,
ISO 727, DIN 8062, DIN 8063
- Encollage PVC-C:
EN ISO 15493, ISO 727-1,
- Soudure par fusion PP-H:
EN ISO 15494.
- Soudure par fusion PVDF:
EN ISO 10931.
- Filetage: ISO 228-1, DIN 2999, ISO
7-1, BS 21, BS 10226.

Dimensionen

Die FIP Membraneventile entsprechen mit ihren Anschlußmöglichkeiten folgenden Normen:

- Klebeanschluß PVC-U:
EN ISO 1452, EN ISO 15493,
ISO 727, DIN 8062, DIN 8063
- Klebeanschluß PVC-C:
EN ISO 15493, ISO 727-1,
- Schweißanschluß PP-H:
EN ISO 15494.
- Schweißanschluß PVDF:
EN ISO 10931.
- Gewindeverbindung:
ISO 228-1, DIN 2999, ISO 7-1, BS
21, BS 10226.

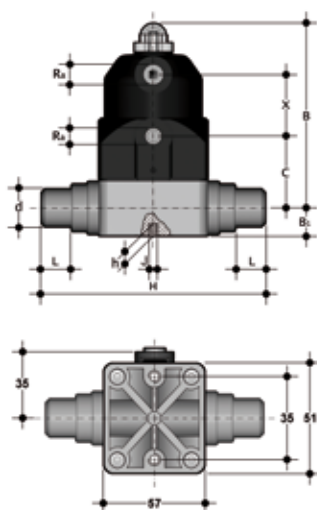
CMDV/CP CMDM/CP CMDF/CP CMDC/CP

VALVOLA A MEMBRANA
A COMANDO PNEUMATICO
Con attacchi maschio, serie metrica
PVC-U, PP-H, PVDF, PVC-C

DIAPHRAGM VALVE
PNEUMATICALLY ACTUATED
with metric series spigot ends
PVC-U, PP-H, PVDF, PVC-C

VANNE À MEMBRANE
À COMMANDE PNEUMATIQUE
avec embouts mâle série métrique
PVC-U, PP-H, PVDF, PVC-C

MEMBRANVENTIL
PNEUMATISCH GESTEUERTES
Verschraubung mit Klebestutzen
nach ISO
PVC-U, PP-H, PVDF, PVC-C



d	DN	PN	B	B ₁	C	X	Ra	L	H	h	J	g
20	15	6	98	12,5	38	34	G 1/4"	16	124	8	M5	340

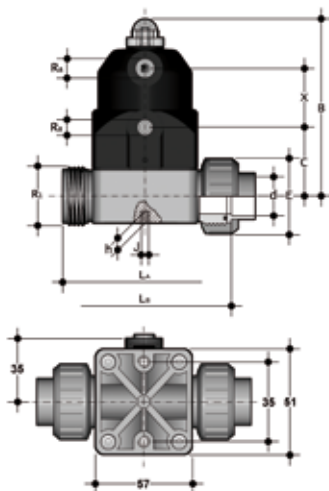
CMUIV/CP CMUIM/CP CMUIF/CP CMUIC/CP

VALVOLA A MEMBRANA
A COMANDO PNEUMATICO
Con attacchi femmina a bocchetto-
ne, serie metrica
PVC-U, PP-H, PVDF, PVC-C

DIAPHRAGM VALVE
PNEUMATICALLY ACTUATED
with unionised metric series plain
female ends
PVC-U, PP-H, PVDF, PVC-C

VANNE À MEMBRANE
À COMMANDE PNEUMATIQUE
avec raccordement union femelles
série métrique
PVC-U, PP-H, PVDF, PVC-C

MEMBRANVENTIL
PNEUMATISCH GESTEUERTES
Verschraubung mit Klebemuffen
nach ISO
PVC-U, PP-H, PVDF, PVC-C



d	DN	PN	B	C	E	R ₁	X	Ra	L _A	L _B	h	J	g
20	15	6	98	38	41	1"	34	G 1/4"	90	96	8	M5	340

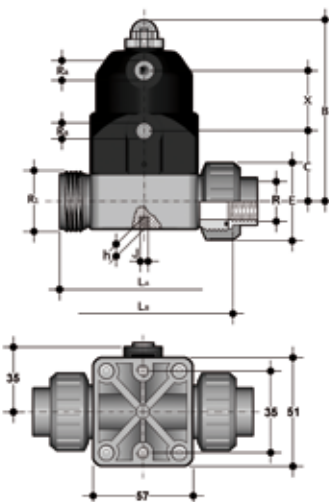
CMUFV/CP

VALVOLA A MEMBRANA
A COMANDO PNEUMATICO
Con attacchi femmina a bocchetto-
ne, filettatura cilindrica GAS
PVC-U

DIAPHRAGM VALVE
PNEUMATICALLY ACTUATED
with unionised BSP threaded female
ends
PVC-U

VANNE À MEMBRANE
À COMMANDE PNEUMATIQUE
avec raccordement union filetage
cylindrique GAZ
PVC-U

MEMBRANVENTIL
PNEUMATISCH GESTEUERTES
Verschraubung mit Innengewinde
PVC-U



R	DN	PN	B	C	E	R ₁	X	Ra	L _A	L _B	h	J	g
1/2"	15	6	98	38	41	1"	34	G 1/4"	90	96	8	M5	340

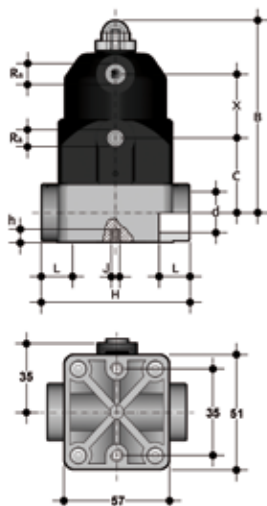
CMIV/CP CMIM/CP CMIF/CP

VALVOLA A MEMBRANA
A COMANDO PNEUMATICO
Con attacchi femmina,
serie metrica
PVC-U, PP-H, PVDF

DIAPHRAGM VALVE
PNEUMATICALLY ACTUATED
with plain female ends, metric
series
PVC-U, PP-H, PVDF

VANNE À MEMBRANE
À COMMANDE PNEUMATIQUE
avec raccordement femelles série
métric
PVC-U, PP-H, PVDF

MEMBRANVENTIL
PNEUMATISCH GESTEUERTES
Mit Klebemuffen
PVC-U, PP-H, PVDF



d	DN	PN	B	C	X	Ra	L	H	h	J	g
16	12	6	98	38	34	G 1/4"	14	75	8	M5	340
20	15	6	98	38	34	G 1/4"	16	75	8	M5	340

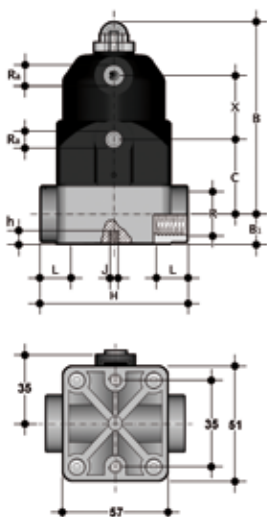
CMFV/CP CMFM/CP CMFF/CP

VALVOLA A MEMBRANA
A COMANDO PNEUMATICO
Con attacchi femmina filettati, serie
cilindrica Gas
PVC-U, PP-H, PVDF

DIAPHRAGM VALVE
PNEUMATICALLY ACTUATED
with BS parallel threaded series
female ends
PVC-U, PP-H, PVDF

VANNE À MEMBRANE
À COMMANDE PNEUMATIQUE
avec raccordement filetage série
cylindrique gaz
PVC-U, PP-H, PVDF

MEMBRANVENTIL
PNEUMATISCH GESTEUERTES
mit Innengewinde
PVC-U, PP-H, PVDF



R	DN	PN	B	C	X	Ra	L	H	h	J	g
3/8"	12	6	98	38	34	G 1/4"	11,5	75	8	M5	340
1/2"	15	6	98	38	34	G 1/4"	15	75	8	M5	340

Installazione sull'impianto

- 1) La valvola può essere installata in qualsiasi posizione e direzione.
Nelle giunzioni per incollaggio prestare la massima attenzione affinché il collante non penetri nella valvola stessa.
- 2) Collegare l'attuatore con un sistema di pilotaggio appropriato. Controllare che la pressione del fluido di comando e di esercizio sia conforme alle specifiche.
- 3) E' consigliabile ancorare la valvola ad un punto fisso.

Nota

Poichè la guarnizione a membrana è compressa tra corpo ed attuatore, bulloni del corpo valvola devono essere controllati e serrati, se necessario, prima dell'installazione. Per questa operazione fare riferimento al foglio istruzioni.

Smontaggio

- 1) Intercettare il fluido a monte della valvola ed assicurarsi che non rimanga in pressione (scaricare a valle se necessario).
- 2) Separare la cassa (15) dal gruppo attuatore (1), togliendo le viti (17) e le rondelle (16).
Questa operazione risulta più agevole se effettuata con attuatore in pressione (Solo NC).
- 3) Svitare la membrana (14) dallo stelo dell'attuatore e rimuovere il compressore (13).

Connection to the system

- 1) The valve can be installed in any position and direction. When installing the valve by solvent welding take extreme care to ensure that the solvent does not run into the valve body.
- 2) Connect the actuator with a suitable pilot System. Check that both working and control pressure are in accordance with the specifications.
- 3) To fix the valve body to a steady point is recommended.

Note

As the diaphragm is compressed between body and actuator, the bolts of the valve body should be checked and tightned, if necessary, before the installation. For this operation please read the instruction sheet.

Disassembly

- 1) Intercept the conveyed fluid upstream the valve and ensure that it is not under pressure (vent downstream if necessary).
- 2) Remove the screws (17) and the washers (16) to separate the body (15) from the actuator (1). This operation will be easier with air pressure into the actuator (NC only).
- 3) Unscrew the diaphragm (14) from the stem of the actuator and remove the compressor (13) .

Montage sur l'installation

- 1) Le robinet peut être installé dans n'importe quelle position
Lorsque le raccordement est effectué par collage il faut veiller à ce que la colle ne coule pas à l'intérieur du corps, ce qui compromettrait l'étanchéité.
- 2) Connecter l'actionneur avec un système de pilotage approprié. Contrôler que les pressions de commande et d'exercice sont conformes aux spécifications.
- 3) Il est conseillé de ancrer la vanne à un point fixe.

Note

Avant l'installation c'est nécessaire de vérifier et, si nécessaire, de bien serrer les boulons car la membrane est comprimée entre le corps et la tête.
Pour cette information, consultez les instructions.

Démontage

- 1) Arrêtez le fluide en amont du robinet et s'assurer qu'il ne soit plus sous pression (si nécessaire décharger en aval).
- 2) Dévisser les vis (17) et les rondelles (16) pour séparer le corps (15) du l'actionneur (1). Cette opération sera plus facile en présence d'air dans l'actionneur (pour NC).
- 3) Dévisser la membrane (14) de la tige du l'actionneur et enlever le compresseur (13).

Einbau in eine Leitung

- 1) Das Ventil kann unabhängig von Lage und Durchflussrichtung eingebaut werden
Bei Klebeanschlüssen ist unbedingt darauf zu achten, dass kein Klebstoff in das Ventilgehäuse hineinläuft.
- 2) Der Antrieb ist mit einem passenden Pilot-Ventil zu versehen. Es ist zu überprüfen, dass Betriebsdruck und Steuerdruck den Angaben unter "Technische Daten" entsprechen.
- 3) Eine Befestigung des Ventils ist zu empfehlen.

Merke

Da sich Dichtungen im Laufe der Zeit setzen, sollten vor Inbetriebnahme der Ventile Schrauben und Muttern körperseitig auf festen Sitz überprüft und gegebenenfalls nachgezogen werden. Für diesen Vorgang lesen Sie bitte die Anleitung.

Demontage

- 1) Die Leitung ist an geeigneter Stelle drucklose zu manchen und zu entleeren.
- 2) 2) Durch lösen der Schrauben (17) kann der Ventilkörper (15) abgenommen werden. Diese Operation wird bei der Ventalfunktion NC erleichtert, wenn das Ventil mit Steuerluft geöffnet wird.
- 3) Anschließend wird die Mediumsmembran (14) durch Drehen gegen den Uhrzeigersinn aus dem Druckstück (13) und der Antriebsspindel (5) herausgedreht.

Montaggio

- 1) Inserire l'otturatore (13) sullo stelo dell'attuatore (3).
- 2) Avvitare la membrana (2) sullo stelo, attraverso l'otturatore (13), in senso orario fino a quando non si incontra resistenza. Quindi svitare la membrana in senso antiorario fino al suo allineamento con i fori dei bulloni.
- 3) Posizionare il gruppo attuatore sul corpo valvola (15) ed avvitare le viti (17) con le rondelle (16). Questa operazione sarà più facile con attuatore in pressione (solo NC).
- 4) Quindi togliere pressione e stringere le viti (17) con una chiave dinamometrica, applicando le coppie raccomandate nel foglio istruzioni.

* La molla è presente solo nelle versioni NC ed NO.



Attenzione

Tutte le operazioni su apparecchiature in pressione, o contenenti molle compresse, devono essere effettuate in condizioni di sicurezza per l'operatore.

Assembly

- 1) Put the compressor (13) on the actuator spindle (3).
 - 2) Screw the diaphragm (2) clockwise in the valve spindle via the compressor (13) until resistant is felt upon which the diaphragm should be screwed anti-clockwise until alignment with the bolt hole centres is achieved. Open the actuator with air pressure (NC only).
 - 3) Put the actuator group on the body (15) and screw in the bolts (17) with the washers (16).
 - 4) Then exhaust the air pressure and tighten the bolts (17), by means of a torque meter wrench, and applying the torques recommended in the instructions sheet.
- * The spring is only there for NC and NO valves.



Warning

All the activities with pressurized equipments, or including compressed springs, must be undertaken in safety conditions for the operators.

Montage

- 1)caler l'obturateur (13) sur la bague de l'actionneur (3).
- 2) Visser la membrane (2) sur la tige du l'actionneur, à travers l'obturateur (13), dans le sens horaire jusqu'à rencontrer résistance; ensuite dévisser la membrane jusqu'à la correspondance des trous de la membrane de commande avec les trous de l'actionneur.
- 3) Positionner le groupe actionneur sur le corps (15) et placer les vis (17) avec les rondelles (16). Cette opération sera plus facile en présence d'air dans l'actionneur (pour NC).
- 4) Enlever ensuite la pression d'air et serrer les vis (17), avec une clef dynamométrique, en appliquant les couples de serrage indiqués sur la notice d'instruction.

* Le ressort est présent seulement dans les vannes NC / NO.



Attention

Toute opération sur les appareils en pression, ou réglés par des ressorts comprimés, doit être effectuée en état de sécurité du personnel.

Montage

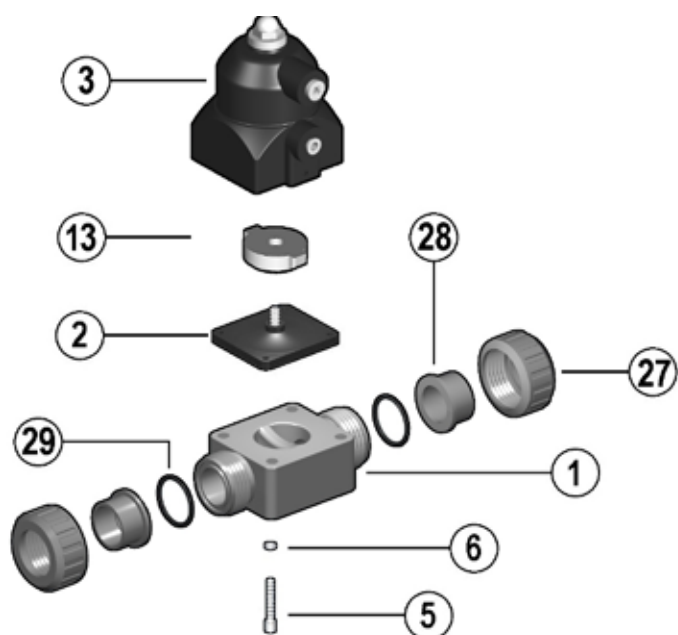
- 1) Das Druckstück (13) wird in der Antriebspindel geschoben (3).
- 2) Die Membrane (2) ist in der Ventilspindel durch den Kompressor (13) im Uhrzeigersinn zu schrauben, bis Resistenz zu spüren ist. Jetzt ist die Membrane gegen den Uhrzeigersinn abzuschrauben um die Membrane mit den Loechern der Schrauben zu zentrieren.
- 3) Der Antriebsauf dem Körper (15) legen und die Schrauben (17) mit den Muttern (16) ziehen. Das Öffnen des Antriebs mit Luftdruck (bei NC-Ventile) erleichtert die Durchführung.
- 4) Luftdruck ausströmen und die Schrauben (17) mit einer Drehmomentenschlüssel mit den in der Gebrauchsanweisung empfohlenen Werte ziehen.

* Die Feder ist nur bei NC / NO Ausführungen vorhanden.



Warnung

Alle Tätigkeiten mit druckbeaufschlagten Geräten inklusiv vorgespannter Federn, dürfen nur unter Voraussetzung von entsprechenden Sicherheitsbedingungen für das Personal durchgeführt werden.



Pos.	Componenti	Materiale	Q.tà
1	attuatore	PA-MXD6*	1
13	otturatore	PA-MXD6	1
14	membrana	EPDM, FPM, PTFE	1
15	cassa	PVC-U, PVC-C, PP-H, PVDF	1
16	rondella	acciaio inox	4
17	vite	acciaio inox	4

(*) PP-GR a richiesta

Pos.	Composants	Matériaux	Q.té
1	actionneur	PA-MXD6*	1
13	compresseur	PA-MXD6	1
14	membrane de corps	EPDM, FPM, PTFE	1
15	corps de vanne	PVC-U, PVC-C, PP-H, PVDF	1
16	rondelle	acier inoxydable	4
17	vis	acier inoxydable	4

(*) PP-GR sur demande

Pos.	Components	Material	Q.ty
1	actuator	PA-MXD6*	1
13	compressor	PA-MXD6	1
14	sealing diaphragm	EPDM, FPM, PTFE	1
15	valve body	PVC-U, PVC-C, PP-H, PVDF	1
16	washer	stainless steel	4
17	screw	stainless steel	4

(*) PP-GR on request

Pos.	Benennung	Werkstoff	Stk
1	Antrieb	PA-MXD6*	1
13	Druckstück	PA-MXD6	1
14	Membrane	EPDM, FPM, PTFE	1
15	Ventilkörper	PVC-U, PVC-C, PP-H, PVDF	1
16	Scheibe	Edelstahl	4
17	Schraube	Edelstahl	4

(*) PP-GR auf Anfrage

Code

CMDV/CP NC CMDM/CP NC CMDF/CP NC CMDC/CP NC

d	DN	EPDM	PVC-U FPM	EPDM	PP-H FPM	EPDM	PVDF FPM	EPDM	PVC-C FPM
20	15	CMDVNC020E	CMDVNC020F	CMDMNC020E	CMDMNC020F	CMDFNC020E	CMDFNC020F	CMDCNC020E	CMDCNC020F

CMDV/CP NC CMDM/CP NC CMDF/CP NC CMDC/CP NC

d	DN		PVC-U PTFE		PP-H PTFE		PVDF PTFE		PVC-C PTFE
20	15		CMDVNC020P		CMDMNC020P		CMDFNC020P		CMDCNC020P

CMDV/CP NO CMDM/CP NO CMDF/CP NO CMDC/CP NO

d	DN	EPDM	PVC-U FPM	EPDM	PP-H FPM	EPDM	PVDF FPM	EPDM	PVC-C FPM
20	15	CMDVNO020E	CMDVNO020F	CMDMNO020E	CMDMNO020F	CMDFNO020E	CMDFNO020F	CMDCNO020E	CMDCNO020F

CMDV/CP NO CMDM/CP NO CMDF/CP NO CMDC/CP NO

d	DN		PVC-U PTFE		PP-H PTFE		PVDF PTFE		PVC-C PTFE
20	15		CMDVNO020P		CMDMNO020P		CMDFNO020P		CMDCNO020P

CMDV/CP DA CMDM/CP DA CMDF/CP DA CMDC/CP DA

d	DN	EPDM	PVC-U FPM	EPDM	PP-H FPM	EPDM	PVDF FPM	EPDM	PVC-C FPM
20	15	CMDVDA020E	CMDVDA020F	CMDMDA020E	CMDMDA020F	CMDFDA020E	CMDFDA020F	CMDCDA020E	CMDCDA020F

CMDV/CP DA CMDM/CP DA CMDF/CP DA CMDC/CP DA

d	DN		PVC-U PTFE		PP-H PTFE		PVDF PTFE		PVC-C PTFE
20	15		CMDVDA020P		CMDMDA020P		CMDFDA020P		CMDCDA020P

CMUIV/CP NC CMUIM/CP NC CMUIF/CP NC CMUIC/CP NC

d	DN	EPDM	PVC-U FPM	EPDM	PP-H FPM	EPDM	PVDF FPM	EPDM	PVC-C FPM
20	15	CMUIVNC020E	CMUIVNC020F	CMUIMNC020E	CMUIMNC020F	CMUIFNC020E	CMUIFNC020F	CMUICNC020E	CMUICNC020F

CMUIV/CP NC CMUIM/CP NC CMUIF/CP NC CMUIC/CP NC

d	DN		PVC-U PTFE		PP-H PTFE		PVDF PTFE		PVC-C PTFE
20	15		CMUIVNC020P		CMUIMNC020P		CMUIFNC020P		CMUICNC020P



Code

CMUIV/CP NO CMUIM/CP NO CMUIF/CP NO CMUIC/CP NO

d	DN	EPDM	PVC-U FPM	EPDM	PP-H FPM	EPDM	PVDF FPM	EPDM	PVC-C FPM
20	15	CMUIVNO020E	CMUIVNO020F	CMUIMNO020E	CMUIMNO020F	CMUIFNO020E	CMUIFNO020F	CMUICNO020E	CMUICNO020F

CMUIV/CP NO CMUIM/CP NO CMUIF/CP NO CMUIC/CP NO

d	DN		PVC-U PTFE		PP-H PTFE		PVDF PTFE		PVC-C PTFE
20	15		CMUIVNO020P		CMUIMNO020P		CMUIFNO020P		CMUICNO020P

CMUIV/CP DA CMUIM/CP DA CMUIF/CP DA CMUIC/CP DA

d	DN	EPDM	PVC-U FPM	EPDM	PP-H FPM	EPDM	PVDF FPM	EPDM	PVC-C FPM
20	15	CMUIVDA020E	CMUIVDA020F	CMUIMDA020E	CMUIMDA020F	CMUIFDA020E	CMUIFDA020F	CMUICDA020E	CMUICDA020F

CMUIV/CP DA CMUIM/CP DA CMUIF/CP DA CMUIC/CP DA

d	DN		PVC-U PTFE		PP-H PTFE		PVDF PTFE		PVC-C PTFE
20	15		CMUIVDA020P		CMUIMDA020P		CMUIFDA020P		CMUICDA020P

CMUFV/CP NC

R	DN		PVC-U EPDM		PVC-U FPM		PVC-U PTFE
1/2"	15		CMUFVNC012E		CMUFVNC012F		CMUFVNC012P

CMUFV/CP NO

R	DN		PVC-U EPDM		PVC-U FPM		PVC-U PTFE
1/2"	15		CMUFVNO012E		CMUFVNO012F		CMUFVNO012P

CMUFV/CP DA

R	DN		PVC-U EPDM		PVC-U FPM		PVC-U PTFE
1/2"	15		CMUFVDA012E		CMUFVDA012F		CMUFVDA012P

CMIV/CP NC CMIM/CP NC CMIF/CP NC

d	DN	EPDM	PVC-U FPM	EPDM	PP-H FPM	EPDM	PVDF FPM
16	12	CMIVNC016E	CMIVNC016F	CMIMNC016E	CMIMNC016F	CMIFNC016E	CMIFNC016F
20	15	CMIVNC020E	CMIVNC020F	CMIMNC020E	CMIMNC020F	CMIFNC020E	CMIFNC020F



Code

CMIV/CP NC CMIM/CP NC CMIF/CP NC

d	DN	PVC-U PTFE	PP-H PTFE	PVDF PTFE
16	12	CMIVNC016P	CMIMNC016P	CMIFNC016P
20	15	CMIVNC020P	CMIMNC020P	CMIFNC020P

CMIV/CP NO CMIM/CP NO CMIF/CP NO

d	DN	EPDM	PVC-U FPM	EPDM	PP-H FPM	EPDM	PVDF FPM
16	12	CMIVNO016E	CMIVNO016F	CMIMNO016E	CMIMNO016F	CMIFNO016E	CMIFNO016F
20	15	CMIVNO020E	CMIVNO020F	CMIMNO020E	CMIMNO020F	CMIFNO020E	CMIFNO020F

CMIV/CP NO CMIM/CP NO CMIF/CP NO

d	DN	PVC-U PTFE	PP-H PTFE	PVDF PTFE
16	12	CMIVNO016P	CMIMNO016P	CMIFNO016P
20	15	CMIVNO020P	CMIMNO020P	CMIFNO020P

CMIV/CP DA CMIM/CP DA CMIF/CP DA

d	DN	EPDM	PVC-U FPM	EPDM	PP-H FPM	EPDM	PVDF FPM
16	12	CMIVDA016E	CMIVDA016F	CMIMDA016E	CMIMDA016F	CMIFDA016E	CMIFDA016F
20	15	CMIVDA020E	CMIVDA020F	CMIMDA020E	CMIMDA020F	CMIFDA020E	CMIFDA020F

CMIV/CP DA CMIM/CP DA CMIF/CP DA

d	DN	PVC-U PTFE	PP-H PTFE	PVDF PTFE
16	12	CMIVDA016P	CMIMDA016P	CMIFDA016P
20	15	CMIVDA020P	CMIMDA020P	CMIFDA020P

CMFV/CP NC CMFM/CP NC CMFF/CP NC

R	DN	EPDM	PVC-U FPM	EPDM	PP-H FPM	EPDM	PVDF FPM
3/8"	12	CMFVNC038E	CMFVNC038F	CMFMNC038E	CMFMNC038F	CMFFNC038E	CMFFNC038F
1/2"	15	CMFVNC012E	CMFVNC012F	CMFMNC012E	CMFMNC012F	CMFFNC012E	CMFFNC012F

CMFV/CP NC CMFM/CP NC CMFF/CP NC

R	DN	PVC-U PTFE	PP-H PTFE	PVDF PTFE
3/8"	12	CMFVNC038P	CMFMNC038P	CMFFNC038P
1/2"	15	CMFVNC012P	CMFMNC012P	CMFFNC012P



Code

CMFV/CP NO CMFM/CP NO CMFF/CP NO

R	DN	PVC-U		PP-H		PVDF	
		EPDM	FPM	EPDM	FPM	EPDM	FPM
3/8"	12	CMFVNO038E	CMFVNO038F	CMFMNO038E	CMFMNO038F	CMFFNO038E	CMFFNO038F
1/2"	15	CMFVNO012E	CMFVNO012F	CMFMNO012E	CMFMNO012F	CMFFNO012E	CMFFNO012F

CMFV/CP NO CMFM/CP NO CMFF/CP NO

R	DN	PVC-U		PP-H		PVDF	
		PTFE		PTFE		PTFE	
3/8"	12	CMFVNO038P		CMFMNO038P		CMFFNO038P	
1/2"	15	CMFVNO012P		CMFMNO012P		CMFFNO012P	

CMFV/CP DA CMFM/CP DA CMFF/CP DA

R	DN	PVC-U		PP-H		PVDF	
		EPDM	FPM	EPDM	FPM	EPDM	FPM
3/8"	12	CMFVDA038E	CMFVDA038F	CMFMDA038E	CMFMDA038F	CMFFDA038E	CMFFDA038F
1/2"	15	CMFVDA012E	CMFVDA012F	CMFMDA012E	CMFMDA012F	CMFFDA012E	CMFFDA012F

CMFV/CP DA CMFM/CP DA CMFF/CP DA

R	DN	PVC-U		PP-H		PVDF	
		PTFE		PTFE		PTFE	
3/8"	12	CMFVDA038P		CMFMDA038P		CMFFDA038P	
1/2"	15	CMFVDA012P		CMFMDA012P		CMFFDA012P	

 *Aliaxis*



DK/CP DN 15÷32
PVC-U / PVC-C / PP-H / PVDF

Pneumatically actuated 2-way diaphragm valve

DK/CP DN 15÷32

The new DK/CP diaphragm valve is particularly suitable for shutting off and regulating abrasive or dirty fluids. The new internal geometry of the body optimises fluid dynamic efficiency by increasing the flow rate and ensuring an optimum linearity of the flow adjustment curve. The DK/CP is extremely compact and very light.

PNEUMATICALLY ACTUATED 2-WAY DIAPHRAGM VALVE

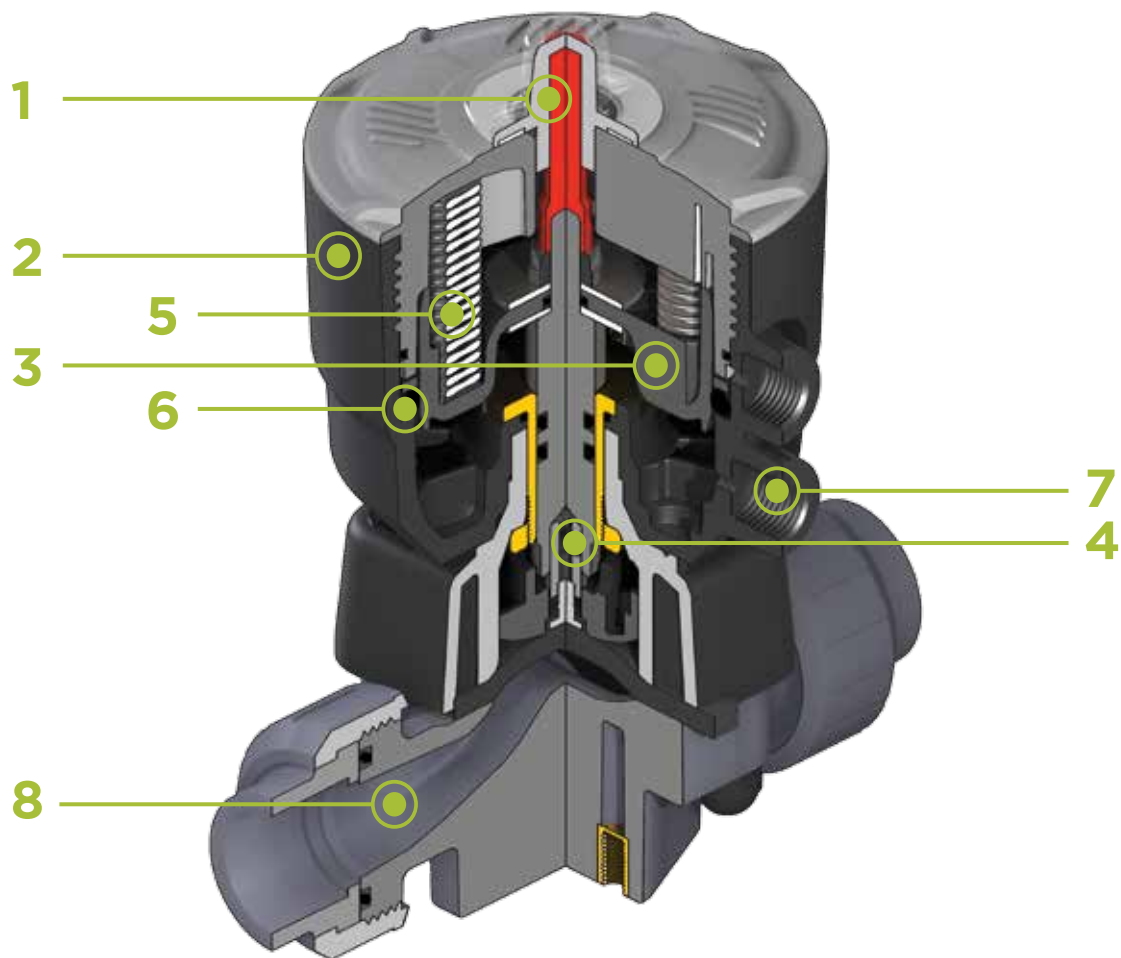
- Connection system for solvent welding and for threaded and flanged joints
- **Optimised fluid dynamic design:** maximum output flow rate thanks to the optimised efficiency of the fluid dynamics that characterise the new internal geometry of the body
- Bonnet fastening screws in STAINLESS steel protected against the external environment by PE plugs. Absence of metal parts exposed to the external environment to prevent any risk of corrosion
- **New flanged bodies:** the new bodies, characterized by a monolithic flanged structure, are available in PVC-U, PVC-C, PP-H and PVDF. This design, free of joints between the body and flanges, greatly reduces mechanical stress and increases system performance.
- **CDSA** (Circular Diaphragm Sealing Angle) system that, thanks to uniform distribution of the shutter pressure on the diaphragm seal, offers the following advantages:
 - operating torque reduction
 - reduced mechanical stress on all valve components (actuator, body and diaphragm)
 - low risk of the accumulation of deposits, contamination or damage to the diaphragm due to crystallisation
 - easy to clean valve interior

Technical specifications

Construction	Pneumatically actuated diaphragm valve with body at maximized flow rate
Size range	DN 15 ÷ 32
Nominal pressure	PN 10 with water at 20° C
Temperature range	PVC-U: 0 °C ÷ 60 °C - PVC-C: 0 °C ÷ 100 °C PP-H: 0 °C ÷ 100 °C - PVDF: -20 °C ÷ 120 °C
Coupling standards	Solvent welding/Welding: EN ISO 1452, EN ISO 15493, EN ISO 15494, EN ISO 10931, BS 4346-1, DIN 8063, NF T54-028, ASTM D 2467, ASTM F 439. Can be coupled to pipes according to EN ISO 1452, EN ISO 15493, EN ISO 15494, EN ISO 10931, DIN 8062, NF T54-016, ASTM D 1785, ASTM F 441 Thread: ISO 228-1, DIN 2999, ASTM D 2464 Flanging system: ISO 7005-1, EN ISO 1452, EN ISO 15493, EN 1092-1, EN ISO 15494, EN ISO 10931, EN 558-1, DIN 2501, ANSI B16.5 Cl.150, JIS B2220
Reference standards	Construction criteria: EN ISO 16138, EN ISO 1452, EN ISO 15493, EN ISO 15494, EN ISO 10931 Test methods and requirements: ISO 9393 Installation criteria: DVS 2204, DVS 2221, DVS 2202-1, DVS 2201-1, DVS 2207-11, DVS 2207-15, DVS 2208-1, UNI 11242, UNI 11318
Valve material	PVC-U / PVC-C / PP-H / PVDF
Diaphragm material	EPDM, FPM, PTFE (on request NBR)
Control options	Pneumatic actuator

The new compact and light piston actuator in PP-GR makes the DK/CP the ideal choice for applications requiring very frequent valve operation and a long valve lifetime.

Technical specifications - Pneumatic actuator	
Construction	Single-acting (NC-NO) and double-acting (DA) pneumatic piston actuator
Actuator material	Body and bonnet: PP-GR Position indicator cap: PC
Control air pressure	Minimum: according to the working pressure and operation of the actuator (see detailed graphs) Maximum: NC: 6 bar - NO: 6 bar - DA: 5 bar
Power supply	Dry or lubricated filtered compressed air. If using other fluids, contact the FIP service centre
Control fluid temperature	Max 40 °C
Working temperature	-20 °C ÷ 50 °C
Standard equipment	• Optical position indicator
Accessories	<ul style="list-style-type: none"> • Stroke limiter with position indicator • Stroke limiter with position indicator and emergency manual override • Limit switch boxes • Electro-pneumatic positioner • Pilot solenoid valves 3-5/2 ways for direct or manifold mounting • Distance plate



1 High visibility graduated optical position indicator protected by transparent cap with seal O-ring

2 Light and compact piston actuator in PP-GR, ideal for heavy-duty applications in chemically aggressive environments with a **diaphragm perimeter containment system** that ensures the perfect compression of the rubber without any lateral expansion

3 Piston in high strength IXEF®. The high quality finishing of the external surface guarantees perfect slidability over the seal and ensures a long working life without any actuator maintenance

4 High strength stainless steel stem with double seal O-Ring. **Floating pin connection** between the actuator stem and diaphragm to prevent concentrated loads, improve the seal and extend its lifetime

5 Actuator equipped with **6 independent cartridge springs** arranged radially to uniformly distribute the load on the piston.

6 Dual function main gasket.
Piston seal: the gasket does not move but sits securely on the actuator cylinder instead of the piston.

External seal: the gasket positioned above the threaded joint between the bonnet and cylinder ensures that the coupling is not stressed by the pressure inside the actuator

7 Easy to install, even in confined spaces: **compressed air inlets with G 1/4" threaded adjustable connections** to enable alignment with the piping. PP-GR connections prevent any risk of corrosion.

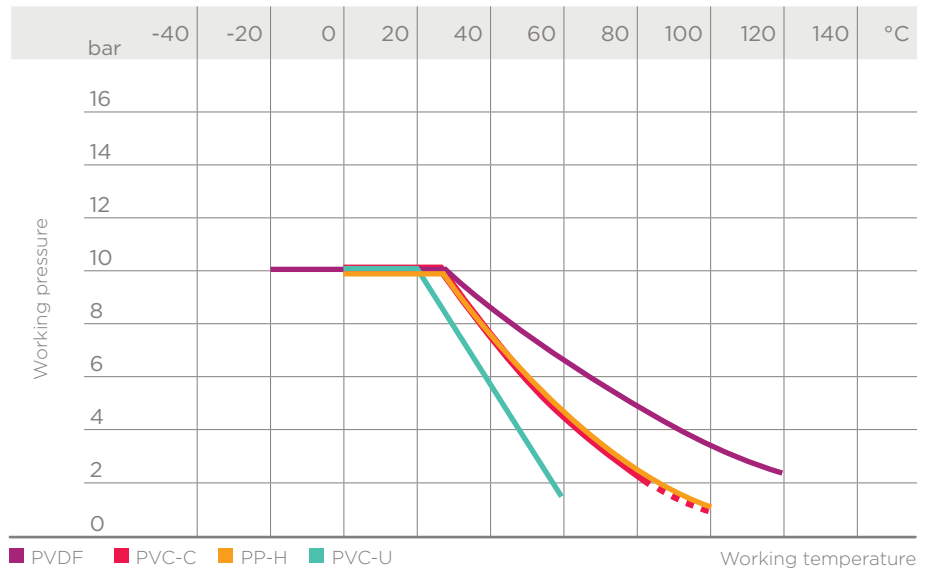
8 New valve body internal design.
Substantially higher flow coefficient and lower pressure drops. The degree of efficiency reached has also enabled **the size and weight** of the valve to be **reduced**.

Adjustment linearity: the internal profiles of the valve greatly improve its characteristic curve, allowing **extremely sensitive and precise adjustment** along the entire length of the shutter stroke.

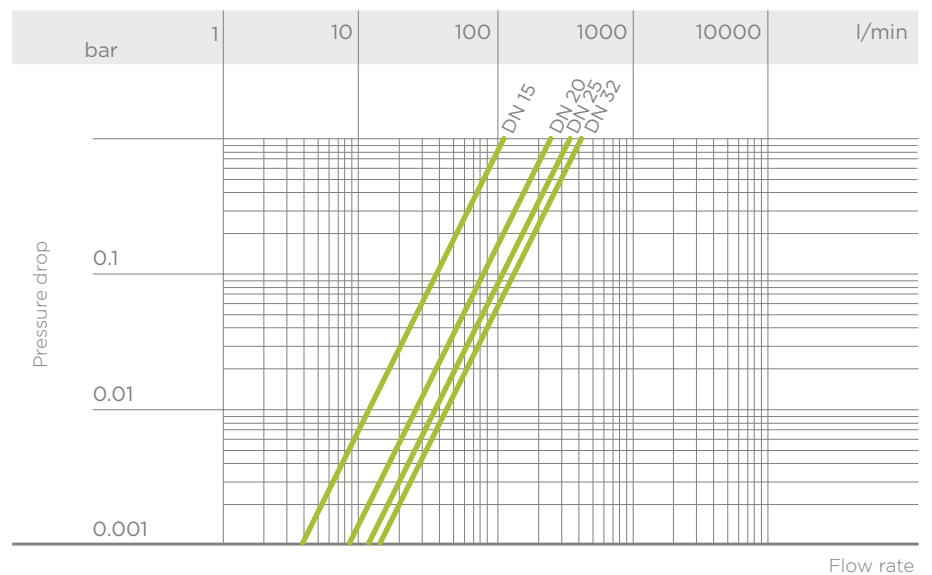
TECHNICAL DATA

PRESSURE VARIATION ACCORDING TO TEMPERATURE

For water and non-hazardous fluids to which the material is classified as CHEMICALLY RESISTANT. In other cases, a reduction of the nominal pressure PN is required (25 years with safety factor).



PRESSURE DROP GRAPH



K_v100 FLOW COEFFICIENT

The K_v100 flow coefficient is the Q flow of litres per minute of water at a temperature of 20°C that will generate Δp= 1 bar pressure drop at a certain valve position.

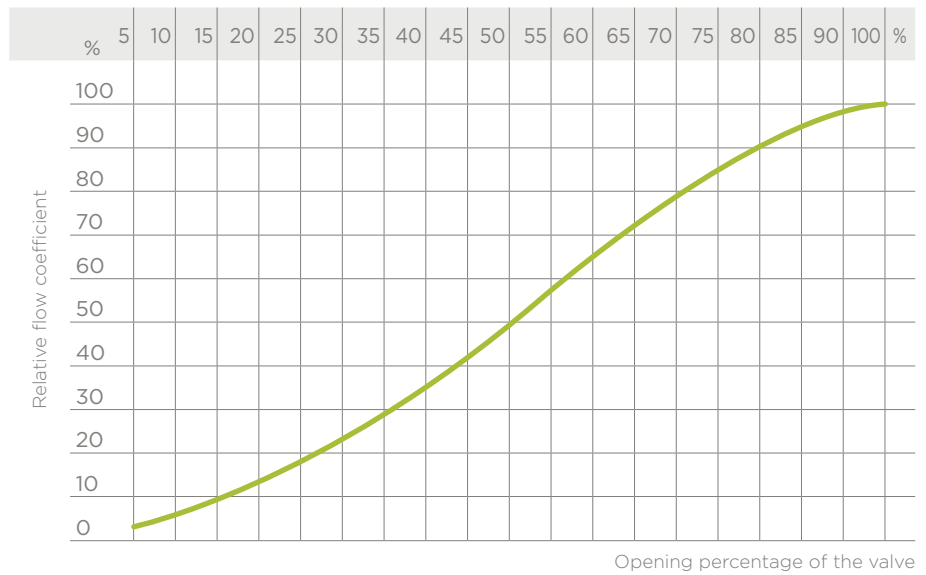
The K_v100 values shown in the table are calculated with the valve completely open.

DN	15	20	25	32
K _v 100 l/min	112	261	445	550

TECHNICAL DATA

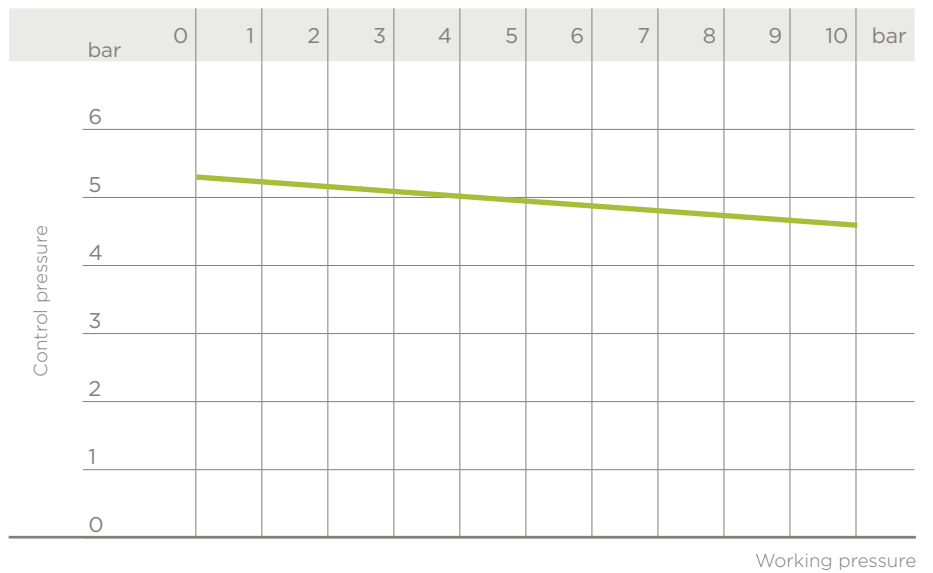
RELATIVE FLOW COEFFICIENT GRAPH

The relative flow coefficient is the flow rate through the valve as a function of the degree of valve opening.



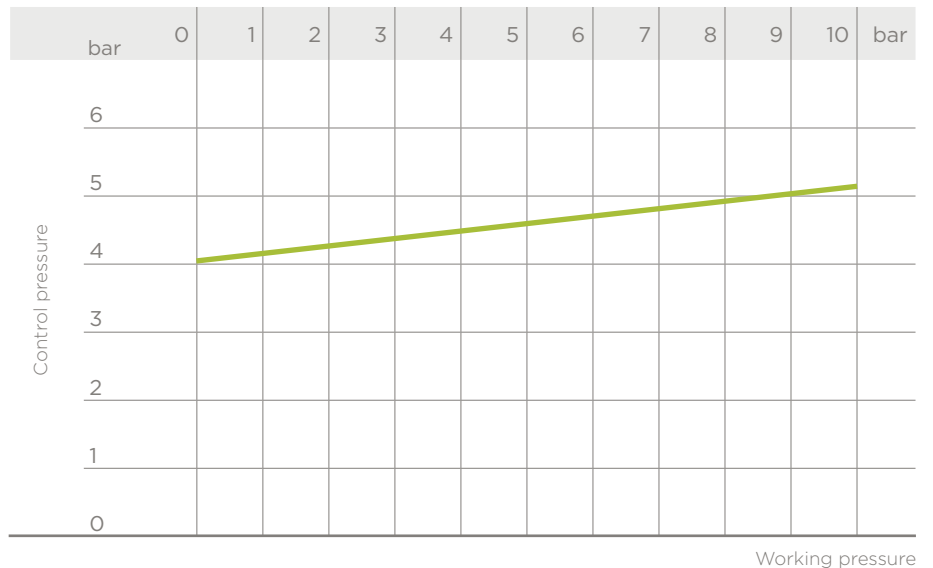
CONTROL PRESSURE ACCORDING TO WORKING PRESSURE DK/CP NC

Minimum control pressure according to working pressure with EPDM/FPM diaphragm



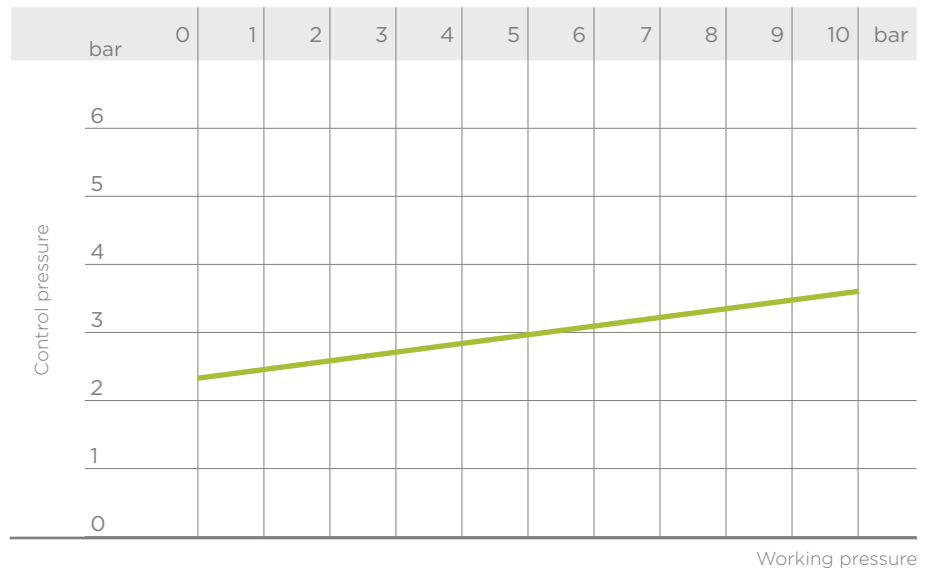
CONTROL PRESSURE ACCORDING TO WORKING PRESSURE DK/CP NO

Minimum control pressure according to working pressure with EPDM/FPM diaphragm



CONTROL PRESSURE ACCORDING TO WORKING PRESSURE DK/CP DA

Minimum control pressure according to working pressure with EPDM/FPM diaphragm



FUNCTIONAL CHARACTERISTICS

	Double-acting (DA)	Normally closed (NC)	Single-acting (SA)
Function type	double-acting	Normally closed (NC)	Normally Open (NO)
Valve opening	air	air	spring
Valve closing	air	spring	air

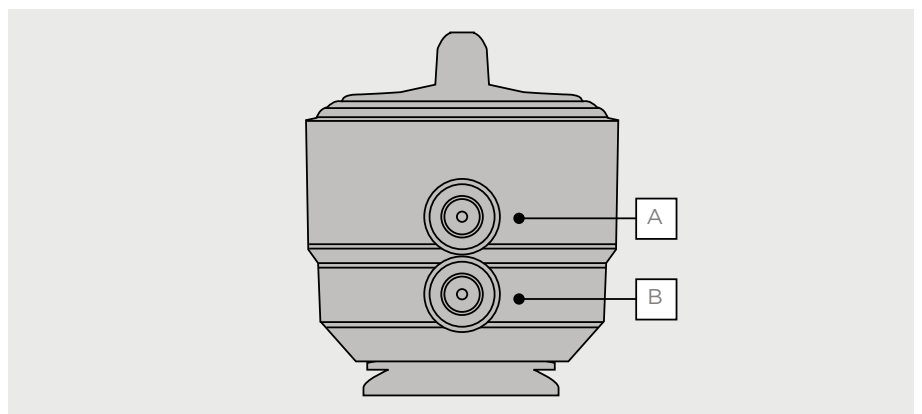
ACTUATOR CAPACITY

NI: Normal-litre
Volume at atmospheric

DN	15÷32
NC	0,12 NI
NO	0,16 NI
DA	0,23 NI

COMPRESSED AIR CONNECTIONS

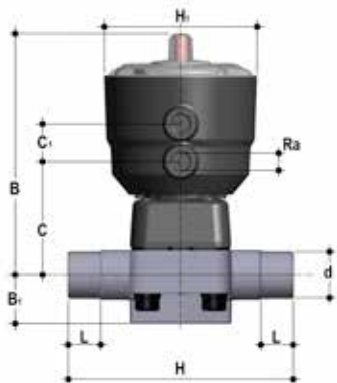
Function type	Double-acting (DA)	Normally closed (NC)	Normally Open (NO)
Valve opening	Inlet B	Inlet B	-
Valve closing	Inlet A	-	Inlet A



DK/CP DN 15÷32

PVC-U

PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKDV/CP NC

Pneumatically actuated diaphragm valve with male ends, metric series. Normally Closed function

d	DN	PN	B	B1	C	C1	H	H1	L	Ra	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	124	97	16	1/4"	695	DKDVNC020E	DKDVNC020F	DKDVNC020P
25	20	10	151	30	69	24	144	97	19	1/4"	717	DKDVNC025E	DKDVNC025F	DKDVNC025P
32	25	10	159	33	78	24	154	97	22	1/4"	917	DKDVNC032E	DKDVNC032F	DKDVNC032P
40	32	10	163	30	82	24	174	97	26	1/4"	961	DKDVNC040E	DKDVNC040F	DKDVNC040P



DKDV/CP NO

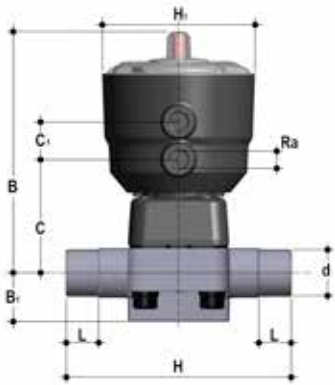
Pneumatically actuated diaphragm valve with male ends, metric series. Normally Open function

d	DN	PN	B	B1	C	C1	H	H1	L	Ra	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	124	97	16	1/4"	695	DKDVNO020E	DKDVNO020F	DKDVNO020P
25	20	10	151	30	69	24	144	97	19	1/4"	717	DKDVNO025E	DKDVNO025F	DKDVNO025P
32	25	10	159	33	78	24	154	97	22	1/4"	917	DKDVNO032E	DKDVNO032F	DKDVNO032P
40	32	10	163	30	82	24	174	97	26	1/4"	961	DKDVNO040E	DKDVNO040F	DKDVNO040P

DK/CP DN 15÷32

PVC-U

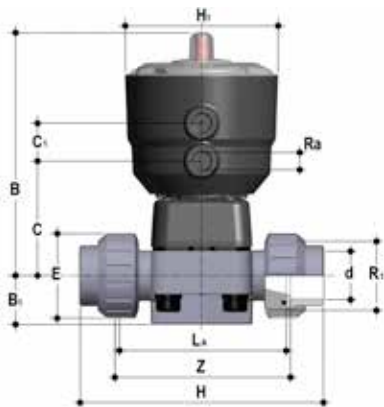
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKDV/CP DA

Pneumatically actuated diaphragm valve with male ends, metric series. Double-Acting function

d	DN	PN	B	B1	C	C1	H	H1	L	Ra	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	124	97	16	1/4"	575	DKDVDA020E	DKDVDA020F	DKDVDA020P
25	20	10	151	30	69	24	144	97	19	1/4"	597	DKDVDA025E	DKDVDA025F	DKDVDA025P
32	25	10	159	33	78	24	154	97	22	1/4"	797	DKDVDA032E	DKDVDA032F	DKDVDA032P
40	32	10	163	30	82	24	174	97	26	1/4"	841	DKDVDA040E	DKDVDA040F	DKDVDA040P



DKUIV/CP NC

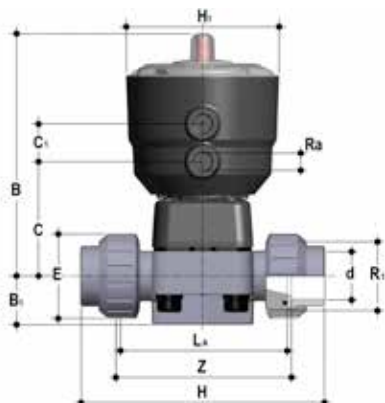
Pneumatically actuated diaphragm valve with female union ends, metric series. Normally Closed function

d	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	41	129	97	90	1"	1/4"	100	735	DKUIVNC020E	DKUIVNC020F	DKUIVNC020P
25	20	10	151	30	69	24	50	154	97	108	1 1/4"	1/4"	116	797	DKUIVNC025E	DKUIVNC025F	DKUIVNC025P
32	25	10	159	33	78	24	58	168	97	116	1 1/2"	1/4"	124	1025	DKUIVNC032E	DKUIVNC032F	DKUIVNC032P
40	32	10	163	30	82	24	72	192	97	134	2"	1/4"	140	1151	DKUIVNC040E	DKUIVNC040F	DKUIVNC040P

DK/CP DN 15÷32

PVC-U

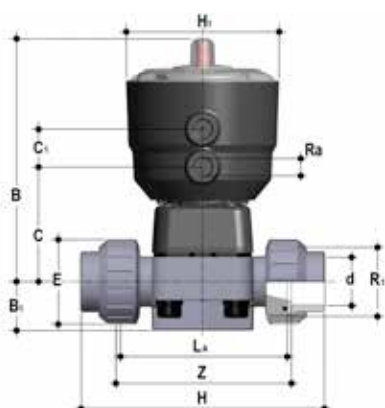
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKUIV/CP NO

Pneumatically actuated diaphragm valve with female union ends, metric series.
Normally Open function

d	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	41	129	97	90	1"	1/4"	100	735	DKUIVNO020E	DKUIVNO020F	DKUIVNO020P
25	20	10	151	30	69	24	50	154	97	108	1 1/4"	1/4"	116	797	DKUIVNO025E	DKUIVNO025F	DKUIVNO025P
32	25	10	159	33	78	24	58	168	97	116	1 1/2"	1/4"	124	1025	DKUIVNO032E	DKUIVNO032F	DKUIVNO032P
40	32	10	163	30	82	24	72	192	97	134	2"	1/4"	140	1151	DKUIVNO040E	DKUIVNO040F	DKUIVNO040P



DKUIV/CP DA

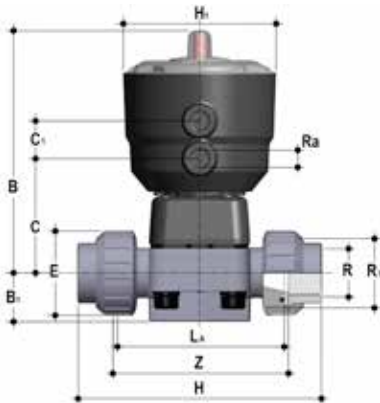
Pneumatically actuated diaphragm valve with female union ends, metric series. Double-Acting function

d	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	41	129	97	90	1"	1/4"	100	615	DKUIVDA020E	DKUIVDA020F	DKUIVDA020P
25	20	10	151	30	69	24	50	154	97	108	1 1/4"	1/4"	116	677	DKUIVDA025E	DKUIVDA025F	DKUIVDA025P
32	25	10	159	33	78	24	58	168	97	116	1 1/2"	1/4"	124	905	DKUIVDA032E	DKUIVDA032F	DKUIVDA032P
40	32	10	163	30	82	24	72	192	97	134	2"	1/4"	140	1031	DKUIVDA040E	DKUIVDA040F	DKUIVDA040P

DK/CP DN 15÷32

PVC-U

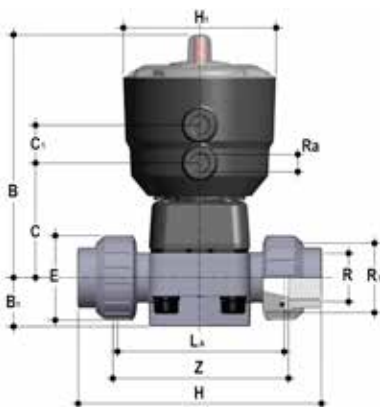
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKUFV/CP NC

Pneumatically actuated diaphragm valve with BSP threaded female union ends.
Normally Closed function

R	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	41	131	97	90	1"	1/4"	97	735	DKUFVNC012E	DKUFVNC012F	DKUFVNC012P
3/4"	20	10	151	30	69	24	50	151	97	108	1 1/4"	1/4"	118	797	DKUFVNC034E	DKUFVNC034F	DKUFVNC034P
1"	25	10	159	33	78	24	58	165	97	116	1 1/2"	1/4"	127	1025	DKUFVNC100E	DKUFVNC100F	DKUFVNC100P
1 1/4"	32	10	163	30	82	24	72	188	97	134	2"	1/4"	145	1151	DKUFVNC114E	DKUFVNC114F	DKUFVNC114P



DKUFV/CP NO

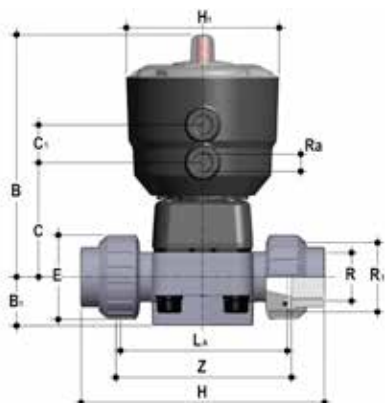
Pneumatically actuated diaphragm valve with BSP threaded female union ends.
Normally Open function

R	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	41	131	97	90	1"	1/4"	97	735	DKUFVNO012E	DKUFVNO012F	DKUFVNO012P
3/4"	20	10	151	30	69	24	50	151	97	108	1 1/4"	1/4"	118	797	DKUFVNO034E	DKUFVNO034F	DKUFVNO034P
1"	25	10	159	33	78	24	58	165	97	116	1 1/2"	1/4"	127	1025	DKUFVNO100E	DKUFVNO100F	DKUFVNO100P
1 1/4"	32	10	163	30	82	24	72	188	97	134	2"	1/4"	145	1151	DKUFVNO114E	DKUFVNO114F	DKUFVNO114P

DK/CP DN 15÷32

PVC-U

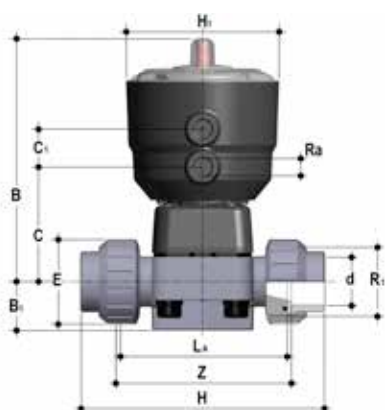
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKUFV/CP DA

Pneumatically actuated diaphragm valve with BSP threaded female union ends. Double-Acting function

R	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	41	131	97	90	1"	1/4"	97	615	DKUFVDA012E	DKUFVDA012F	DKUFVDA012P
3/4"	20	10	151	30	69	24	50	151	97	108	1 1/4"	1/4"	118	677	DKUFVDA034E	DKUFVDA034F	DKUFVDA034P
1"	25	10	159	33	78	24	58	165	97	116	1 1/2"	1/4"	127	905	DKUFVDA100E	DKUFVDA100F	DKUFVDA100P
1 1/4"	32	10	163	30	82	24	72	188	97	134	2"	1/4"	145	1031	DKUFVDA114E	DKUFVDA114F	DKUFVDA114P



DKUAV/CP NC

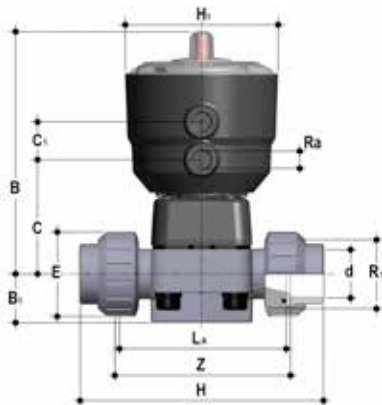
Pneumatically actuated diaphragm valve with female union ends for solvent welding, ASTM series Normally Closed function

R	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	41	143	97	90	1"	1/4"	98	735	DKUAVNC012E	DKUAVNC012F	DKUAVNC012P
3/4"	20	10	151	30	69	24	50	167	97	108	1 1/4"	1/4"	115	797	DKUAVNC034E	DKUAVNC034F	DKUAVNC034P
1"	25	10	159	33	78	24	58	180	97	116	1 1/2"	1/4"	122	1025	DKUAVNC100E	DKUAVNC100F	DKUAVNC100P
1 1/4"	32	10	163	30	82	24	72	208	97	134	2"	1/4"	144	1151	DKUAVNC114E	DKUAVNC114F	DKUAVNC114P

DK/CP DN 15÷32

PVC-U

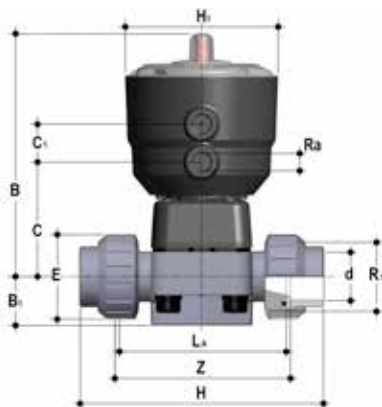
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKUAV/CP NO

Pneumatically actuated diaphragm valve with female union ends for solvent welding, ASTM series. Normally Open function

R	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	41	143	97	90	1"	1/4"	98	735	DKUAVNO012E	DKUAVNO012F	DKUAVNO012P
3/4"	20	10	151	30	69	24	50	167	97	108	1 1/4"	1/4"	115	797	DKUAVNO034E	DKUAVNO034F	DKUAVNO034P
1"	25	10	159	33	78	24	58	180	97	116	1 1/2"	1/4"	122	1025	DKUAVNO100E	DKUAVNO100F	DKUAVNO100P
1 1/4"	32	10	163	30	82	24	72	208	97	134	2"	1/4"	144	1151	DKUAVNO114E	DKUAVNO114F	DKUAVNO114P



DKUAV/CP DA

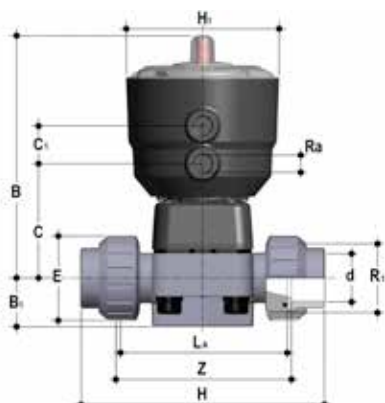
Pneumatically actuated diaphragm valve with female union ends for solvent welding, ASTM series. Double-Acting function

R	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	41	143	97	90	1"	1/4"	98	615	DKUAVDA012E	DKUAVDA012F	DKUAVDA012P
3/4"	20	10	151	30	69	24	50	167	97	108	1 1/4"	1/4"	115	677	DKUAVDA034E	DKUAVDA034F	DKUAVDA034P
1"	25	10	159	33	78	24	58	180	97	116	1 1/2"	1/4"	122	905	DKUAVDA100E	DKUAVDA100F	DKUAVDA100P
1 1/4"	32	10	163	30	82	24	72	208	97	134	2"	1/4"	144	1031	DKUAVDA114E	DKUAVDA114F	DKUAVDA114P

DK/CP DN 15÷32

PVC-U

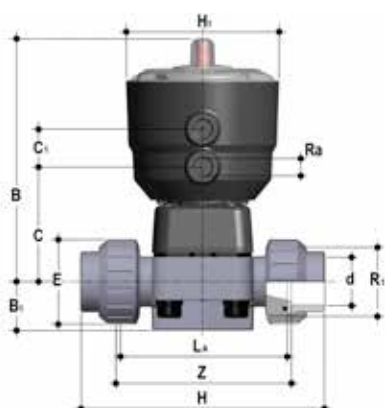
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKULV/CP NC

Pneumatically actuated diaphragm valve with female union ends for solvent welding, BS series. Normally Closed function

d	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	41	131	97	90	1"	1/4"	97	735	DKULVNC012E	DKULVNC012F	DKULVNC012P
3/4"	20	10	151	30	69	24	50	154	97	108	1 1/4"	1/4"	116	797	DKULVNC034E	DKULVNC034F	DKULVNC034P
1"	25	10	159	33	78	24	58	166	97	116	1 1/2"	1/4"	121	1025	DKULVNC100E	DKULVNC100F	DKULVNC100P
1 1/4"	32	10	163	30	82	24	72	194	97	134	2"	1/4"	142	1151	DKULVNC114E	DKULVNC114F	DKULVNC114P



DKULV/CP NO

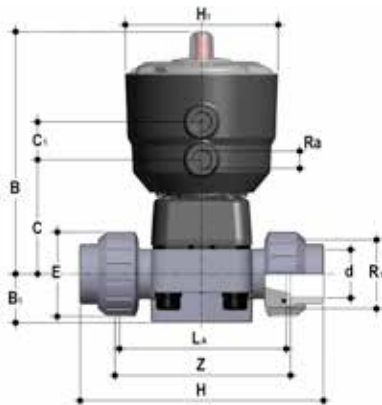
Pneumatically actuated diaphragm valve with female union ends for solvent welding, BS series. Normally Open function

d	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	41	131	97	90	1"	1/4"	97	735	DKULVNO012E	DKULVNO012F	DKULVNO012P
3/4"	20	10	151	30	69	24	50	154	97	108	1 1/4"	1/4"	116	797	DKULVNO034E	DKULVNO034F	DKULVNO034P
1"	25	10	159	33	78	24	58	166	97	116	1 1/2"	1/4"	121	1025	DKULVNO100E	DKULVNO100F	DKULVNO100P
1 1/4"	32	10	163	30	82	24	72	194	97	134	2"	1/4"	142	1151	DKULVNO114E	DKULVNO114F	DKULVNO114P

DK/CP DN 15÷32

PVC-U

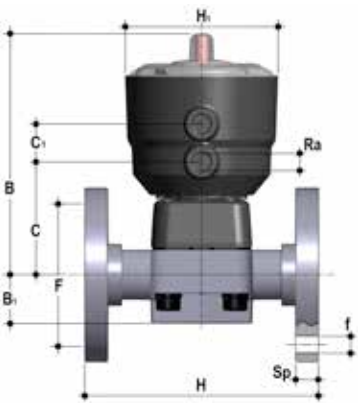
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKULV/CP DA

Pneumatically actuated diaphragm valve with female union ends for solvent welding, BS series. Double-Acting function

d	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	41	131	97	90	1"	1/4"	97	615	DKULVDA012E	DKULVDA012F	DKULVDA012P
3/4"	20	10	151	30	69	24	50	154	97	108	1 1/4"	1/4"	116	677	DKULVDA034E	DKULVDA034F	DKULVDA034P
1"	25	10	159	33	78	24	58	166	97	116	1 1/2"	1/4"	121	905	DKULVDA100E	DKULVDA100F	DKULVDA100P
1 1/4"	32	10	163	30	82	24	72	194	97	134	2"	1/4"	142	1031	DKULVDA114E	DKULVDA114F	DKULVDA114P



DKOV/CP NC

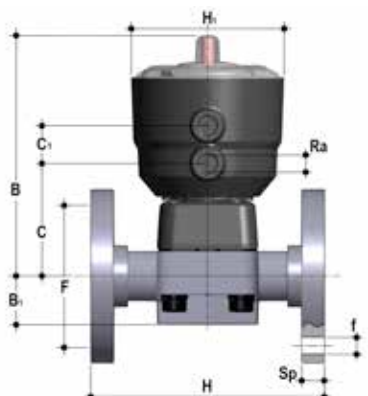
Pneumatically actuated diaphragm valve with flanged monolithic body, drilled PN10/16. Face to face according to EN 558-1. Normally Closed function

d	DN	PN	B	B1	C	C1	F	Øf	H	H1	Ra	U	Sp	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	65	14	130	97	1/4"	4	13.5	925	DKOVNC020E	DKOVNC020F	DKOVNC020P
25	20	10	151	30	69	24	75	14	150	97	1/4"	4	13.5	1005	DKOVNC025E	DKOVNC025F	DKOVNC025P
32	25	10	159	33	78	24	85	14	160	97	1/4"	4	13.5	1271	DKOVNC032E	DKOVNC032F	DKOVNC032P
40	32	10	163	30	82	24	100	18	180	97	1/4"	4	14	1461	DKOVNC040E	DKOVNC040F	DKOVNC040P

DK/CP DN 15÷32

PVC-U

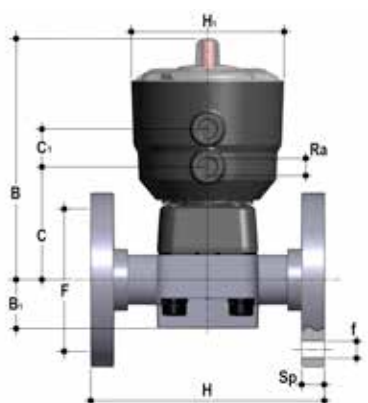
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKOV/CP NO

Pneumatically actuated diaphragm valve with flanged monolithic body, drilled PN10/16. Face to face according to EN 558-1. Normally Open function

d	DN	PN	B	B1	C	C1	F	Øf	H	H1	Ra	U	Sp	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	65	14	130	97	1/4"	4	13.5	925	DKOVNO020E	DKOVNO020F	DKOVNO020P
25	20	10	151	30	69	24	75	14	150	97	1/4"	4	13.5	1005	DKOVNO025E	DKOVNO025F	DKOVNO025P
32	25	10	159	33	78	24	85	14	160	97	1/4"	4	13.5	1271	DKOVNO032E	DKOVNO032F	DKOVNO032P
40	32	10	163	30	82	24	100	18	180	97	1/4"	4	14	1461	DKOVNO040E	DKOVNO040F	DKOVNO040P



DKOV/CP DA

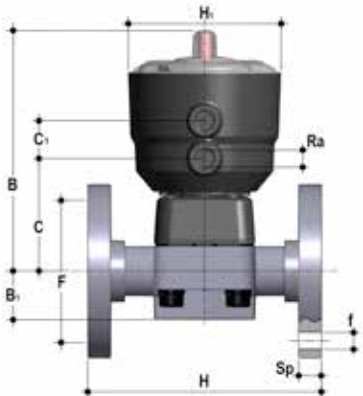
Pneumatically actuated diaphragm valve with flanged monolithic body, drilled PN10/16. Face to face according to EN 558-1. Double-Acting function

d	DN	PN	B	B1	C	C1	F	Øf	H	H1	Ra	U	Sp	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	65	14	130	97	1/4"	4	13.5	805	DKOVDA020E	DKOVDA020F	DKOVDA020P
25	20	10	151	30	69	24	75	14	150	97	1/4"	4	13.5	875	DKOVDA025E	DKOVDA025F	DKOVDA025P
32	25	10	159	33	78	24	85	14	160	97	1/4"	4	13.5	1151	DKOVDA032E	DKOVDA032F	DKOVDA032P
40	32	10	163	30	82	24	100	18	180	97	1/4"	4	14	1351	DKOVDA040E	DKOVDA040F	DKOVDA040P

DK/CP DN 15÷32

PVC-U

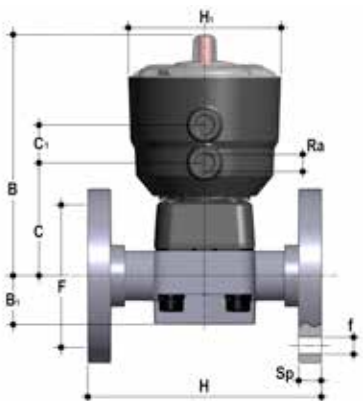
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKOAV/CP NC

Pneumatically actuated diaphragm valve with flanged monolithic body, drilled ANSI B16.5 cl. 150 #FF. Normally Closed function

d	DN	PN	B	B1	C	C1	F	Øf	H	H1	Ra	U	Sp	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	60.30	14	108	97	1/4"	4	13.5	925	DKOAVNC012E	DKOAVNC012F	DKOAVNC012P
3/4"	20	10	151	30	69	24	69.90	15.7	120	97	1/4"	4	13.5	1005	DKOAVNC034E	DKOAVNC034F	DKOAVNC034P
1"	25	10	159	33	78	24	79.40	15.7	131	97	1/4"	4	13.5	1271	DKOAVNC100E	DKOAVNC100F	DKOAVNC100P
1" 1/4	32	10	163	30	82	24	88.90	15.7	162	97	1/4"	4	14	1461	DKOAVNC114E	DKOAVNC114F	DKOAVNC114P



DKOAV/CP NO

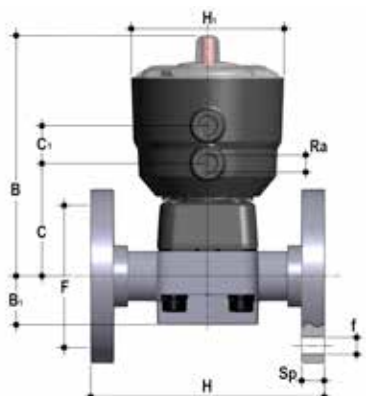
Pneumatically actuated diaphragm valve with flanged monolithic body, drilled ANSI B16.5 cl. 150 #FF. Normally Open function

d	DN	PN	B	B1	C	C1	F	Øf	H	H1	Ra	U	Sp	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	60.30	14	108	97	1/4"	4	13.5	925	DKOAVNO012E	DKOAVNO012F	DKOAVNO012P
3/4"	20	10	151	30	69	24	69.90	15.7	120	97	1/4"	4	13.5	1005	DKOAVNO034E	DKOAVNO034F	DKOAVNO034P
1"	25	10	159	33	78	24	79.40	15.7	131	97	1/4"	4	13.5	1271	DKOAVNO100E	DKOAVNO100F	DKOAVNO100P
1" 1/4	32	10	163	30	82	24	88.90	15.7	162	97	1/4"	4	14	1461	DKOAVNO114E	DKOAVNO114F	DKOAVNO114P

DK/CP DN 15÷32

PVC-U

PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKOAV/CP DA

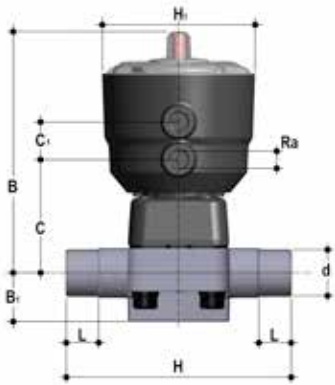
Pneumatically actuated diaphragm valve with flanged monolithic body, drilled ANSI B16.5 cl. 150 #FF. Double-Acting function

d	DN	PN	B	B1	C	C1	F	Øf	H	H1	Ra	U	Sp	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	60.30	14	108	97	1/4"	4	13.5	805	DKOAVDA012E	DKOAVDA012F	DKOAVDA012P
3/4"	20	10	151	30	69	24	69.90	15.7	120	97	1/4"	4	13.5	875	DKOAVDA034E	DKOAVDA034F	DKOAVDA034P
1"	25	10	159	33	78	24	79.40	15.7	131	97	1/4"	4	13.5	1151	DKOAVDA100E	DKOAVDA100F	DKOAVDA100P
1" 1/4	32	10	163	30	82	24	88.90	15.7	162	97	1/4"	4	14	1351	DKOAVDA114E	DKOAVDA114F	DKOAVDA114P

DK/CP DN 15÷32

PVC-C

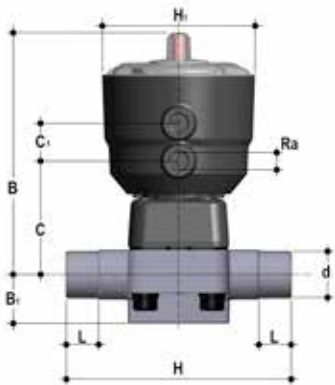
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKDC/CP NC

Pneumatically actuated diaphragm valve with male ends for solvent welding, metric series. Normally Closed function

d	DN	PN	B	B1	C	C1	H	H1	L	Ra	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	124	97	16	1/4"	701	DKDCNC020E	DKDCNC020F	DKDCNC020P
25	20	10	151	30	69	24	144	97	19	1/4"	726	DKDCNC025E	DKDCNC025F	DKDCNC025P
32	25	10	159	33	78	24	154	97	22	1/4"	931	DKDCNC032E	DKDCNC032F	DKDCNC032P
40	32	10	163	30	82	24	174	97	26	1/4"	978	DKDCNC040E	DKDCNC040F	DKDCNC040P



DKDC/CP NO

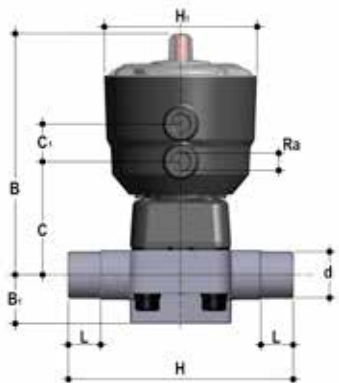
Pneumatically actuated diaphragm valve with male ends for solvent welding, metric series. Normally Open function

d	DN	PN	B	B1	C	C1	H	H1	L	Ra	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	124	97	16	1/4"	701	DKDCNO020E	DKDCNO020F	DKDCNO020P
25	20	10	151	30	69	24	144	97	19	1/4"	726	DKDCNO025E	DKDCNO025F	DKDCNO025P
32	25	10	159	33	78	24	154	97	22	1/4"	931	DKDCNO032E	DKDCNO032F	DKDCNO032P
40	32	10	163	30	82	24	174	97	26	1/4"	978	DKDCNO040E	DKDCNO040F	DKDCNO040P

DK/CP DN 15÷32

PVC-C

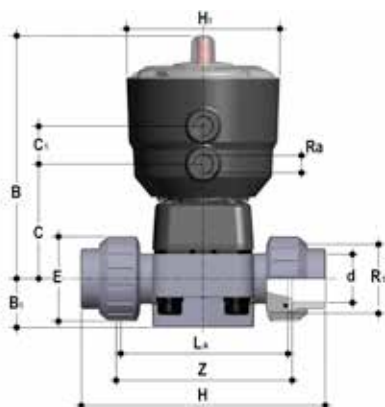
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKDC/CP DA

Pneumatically actuated diaphragm valve with male ends for solvent welding, metric series. Double-Acting function

d	DN	PN	B	B1	C	C1	H	H1	L	Ra	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	124	97	16	1/4"	581	DKDCDA020E	DKDCDA020F	DKDCDA020P
25	20	10	151	30	69	24	144	97	19	1/4"	606	DKDCDA025E	DKDCDA025F	DKDCDA025P
32	25	10	159	33	78	24	154	97	22	1/4"	811	DKDCDA032E	DKDCDA032F	DKDCDA032P
40	32	10	163	30	82	24	174	97	26	1/4"	858	DKDCDA040E	DKDCDA040F	DKDCDA040P



DKUIC/CP NC

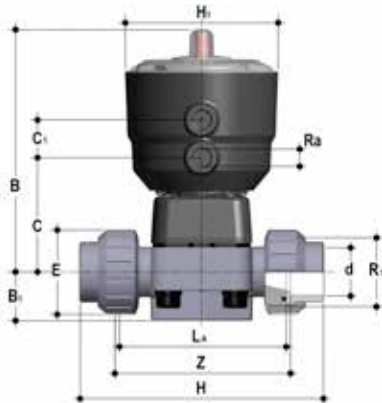
Pneumatically actuated diaphragm valve with female union ends for solvent welding, metric series. Normally Closed function

d	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	41	129	97	90	1"	1/4"	100	744	DKUICNC020E	DKUICNC020F	DKUICNC020P
25	20	10	151	30	69	24	50	154	97	108	1"1/4	1/4"	116	811	DKUICNC025E	DKUICNC025F	DKUICNC025P
32	25	10	159	33	78	24	58	168	97	116	1"1/2	1/4"	124	1047	DKUICNC032E	DKUICNC032F	DKUICNC032P
40	32	10	163	30	82	24	72	192	97	134	2"	1/4"	140	1180	DKUICNC040E	DKUICNC040F	DKUICNC040P

DK/CP DN 15÷32

PVC-C

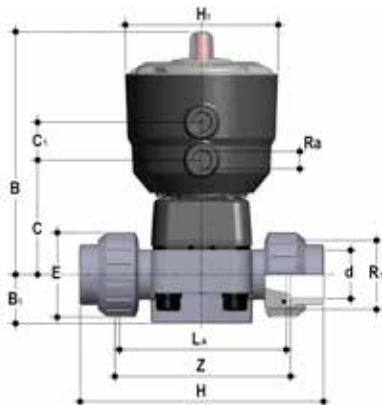
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKUIC/CP NO

Pneumatically actuated diaphragm valve with female union ends for solvent welding, metric series. Normally Open function

d	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	41	129	97	90	1"	1/4"	100	744	DKUICNO020E	DKUICNO020F	DKUICNO020P
25	20	10	151	30	69	24	50	154	97	108	1"1/4	1/4"	116	811	DKUICNO025E	DKUICNO025F	DKUICNO025P
32	25	10	159	33	78	24	58	168	97	116	1"1/2	1/4"	124	1047	DKUICNO032E	DKUICNO032F	DKUICNO032P
40	32	10	163	30	82	24	72	192	97	134	2"	1/4"	140	1180	DKUICNO040E	DKUICNO040F	DKUICNO040P



DKUIC/CP DA

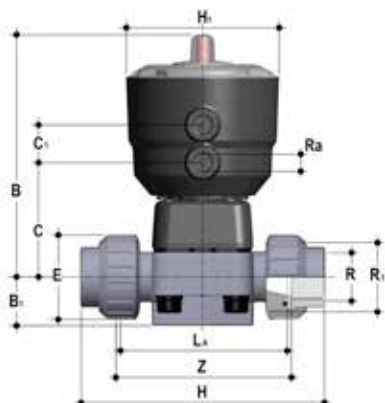
Pneumatically actuated diaphragm valve with female union ends, metric series. Double-Acting function

d	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	41	129	97	90	1"	1/4"	100	624	DKUICDA020E	DKUICDA020F	DKUICDA020P
25	20	10	151	30	69	24	50	154	97	108	1"1/4	1/4"	116	691	DKUICDA025E	DKUICDA025F	DKUICDA025P
32	25	10	159	33	78	24	58	168	97	116	1"1/2	1/4"	124	927	DKUICDA032E	DKUICDA032F	DKUICDA032P
40	32	10	163	30	82	24	72	192	97	134	2"	1/4"	140	1060	DKUICDA040E	DKUICDA040F	DKUICDA040P

DK/CP DN 15÷32

PVC-C

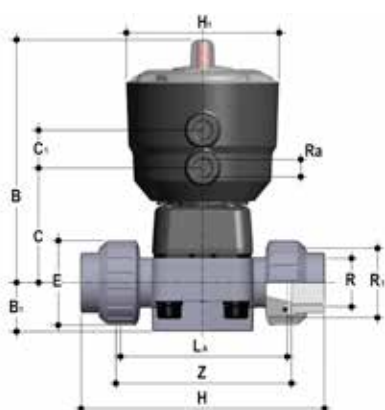
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKUFC/CP NC

Pneumatically actuated diaphragm valve with BSP threaded female union ends.
Normally Closed function

R	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	41	131	97	90	1"	1/4"	97	744	DKUFCNC012E	DKUFCNC012F	DKUFCNC012P
3/4"	20	10	151	30	69	24	50	151	97	108	1 1/4"	1/4"	118	811	DKUFCNC034E	DKUFCNC034F	DKUFCNC034P
1"	25	10	159	33	78	24	58	165	97	116	1 1/2"	1/4"	127	1047	DKUFCNC100E	DKUFCNC100F	DKUFCNC100P
1 1/4"	32	10	163	30	82	24	72	188	97	134	2"	1/4"	145	1180	DKUFCNC114E	DKUFCNC114F	DKUFCNC114P



DKUFC/CP NO

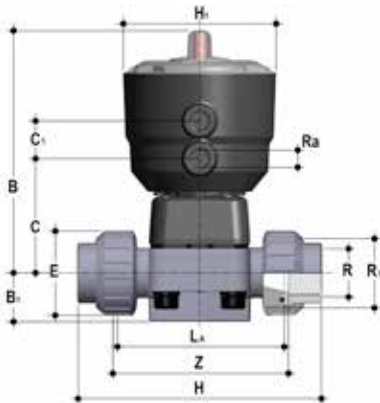
Pneumatically actuated diaphragm valve with BSP threaded female union ends.
Normally Open function

R	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	41	131	97	90	1"	1/4"	97	744	DKUFCNO012E	DKUFCNO012F	DKUFCNO012P
3/4"	20	10	151	30	69	24	50	151	97	108	1 1/4"	1/4"	118	811	DKUFCNO034E	DKUFCNO034F	DKUFCNO034P
1"	25	10	159	33	78	24	58	165	97	116	1 1/2"	1/4"	127	1047	DKUFCNO100E	DKUFCNO100F	DKUFCNO100P
1 1/4"	32	10	163	30	82	24	72	188	97	134	2"	1/4"	145	1180	DKUFCNO114E	DKUFCNO114F	DKUFCNO114P

DK/CP DN 15÷32

PVC-C

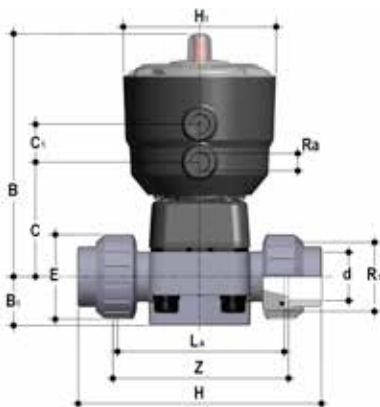
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKUFC/CP DA

Pneumatically actuated diaphragm valve with BSP threaded female union ends. Double-Acting function

R	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	41	131	97	90	1"	1/4"	97	624	DKUFCDA012E	DKUFCDA012F	DKUFCDA012P
3/4"	20	10	151	30	69	24	50	151	97	108	1 1/4"	1/4"	118	691	DKUFCDA034E	DKUFCDA034F	DKUFCDA034P
1"	25	10	159	33	78	24	58	165	97	116	1 1/2"	1/4"	127	927	DKUFCDA100E	DKUFCDA100F	DKUFCDA100P
1 1/4"	32	10	163	30	82	24	72	188	97	134	2"	1/4"	145	1060	DKUFCDA114E	DKUFCDA114F	DKUFCDA114P



DKUAC/CP NC

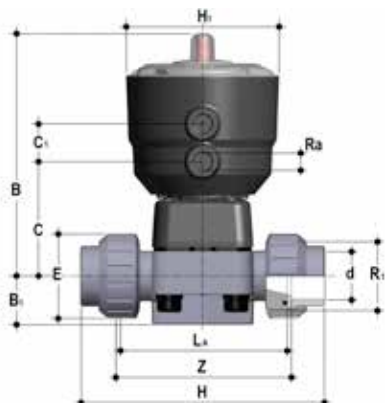
Pneumatically actuated diaphragm valve with female union ends for solvent welding, ASTM series Normally Closed function

R	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	41	143	97	90	1"	1/4"	98	744	DKUACNC012E	DKUACNC012F	DKUACNC012P
3/4"	20	10	151	30	69	24	50	167	97	108	1 1/4"	1/4"	115	811	DKUACNC034E	DKUACNC034F	DKUACNC034P
1"	25	10	159	33	78	24	58	180	97	116	1 1/2"	1/4"	122	1047	DKUACNC100E	DKUACNC100F	DKUACNC100P
1 1/4"	32	10	163	30	82	24	72	208	97	134	2"	1/4"	144	1180	DKUACNC114E	DKUACNC114F	DKUACNC114P

DK/CP DN 15÷32

PVC-C

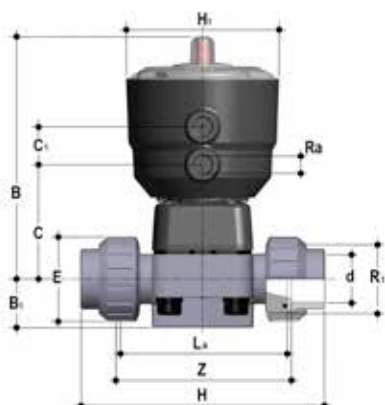
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKUAC/CP NO

Pneumatically actuated diaphragm valve with female union ends for solvent welding, ASTM series Normally Open function

R	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	41	143	97	90	1"	1/4"	98	744	DKUACNO012E	DKUACNO012F	DKUACNO012P
3/4"	20	10	151	30	69	24	50	167	97	108	1 1/4"	1/4"	115	811	DKUACNO034E	DKUACNO034F	DKUACNO034P
1"	25	10	159	33	78	24	58	180	97	116	1 1/2"	1/4"	122	1047	DKUACNO100E	DKUACNO100F	DKUACNO100P
1 1/4"	32	10	163	30	82	24	72	208	97	134	2"	1/4"	144	1180	DKUACNO114E	DKUACNO114F	DKUACNO114P



DKUAC/CP DA

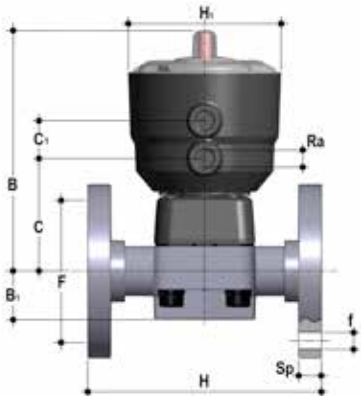
Pneumatically actuated diaphragm valve with female union ends for solvent welding, ASTM series. Double-Acting function

R	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	41	143	97	90	1"	1/4"	98	624	DKUACDA012E	DKUACDA012F	DKUACDA012P
3/4"	20	10	151	30	69	24	50	167	97	108	1 1/4"	1/4"	115	691	DKUACDA034E	DKUACDA034F	DKUACDA034P
1"	25	10	159	33	78	24	58	180	97	116	1 1/2"	1/4"	122	927	DKUACDA100E	DKUACDA100F	DKUACDA100P
1 1/4"	32	10	163	30	82	24	72	208	97	134	2"	1/4"	144	1060	DKUACDA114E	DKUACDA114F	DKUACDA114P

DK/CP DN 15÷32

PVC-C

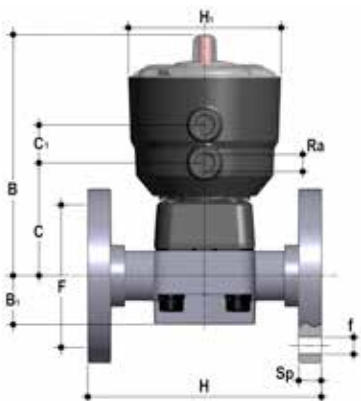
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKOC/CP NC

Pneumatically actuated diaphragm valve with flanged monolithic body, drilled PN10/16. Face to face according to EN 558-1. Normally Closed function

d	DN	PN	B	B1	C	C1	F	Øf	H	H1	Ra	U	Sp	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	65	14	130	97	1/4"	4	13.5	962	DKOCNC020E	DKOCNC020F	DKOCNC020P
25	20	10	151	30	69	24	75	14	150	97	1/4"	4	13.5	1053	DKOCNC025E	DKOCNC025F	DKOCNC025P
32	25	10	159	33	78	24	85	14	160	97	1/4"	4	13.5	1339	DKOCNC032E	DKOCNC032F	DKOCNC032P
40	32	10	163	30	82	24	100	18	180	97	1/4"	4	14	1553	DKOCNC040E	DKOCNC040F	DKOCNC040P



DKOC/CP NO

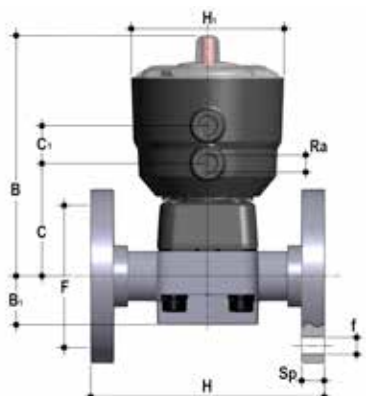
Pneumatically actuated diaphragm valve with flanged monolithic body, drilled PN10/16. Face to face according to EN 558-1. Normally Open function

d	DN	PN	B	B1	C	C1	F	Øf	H	H1	Ra	U	Sp	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	65	14	130	97	1/4"	4	13.5	962	DKOCNO020E	DKOCNO020F	DKOCNO020P
25	20	10	151	30	69	24	75	14	150	97	1/4"	4	13.5	1053	DKOCNO025E	DKOCNO025F	DKOCNO025P
32	25	10	159	33	78	24	85	14	160	97	1/4"	4	13.5	1339	DKOCNO032E	DKOCNO032F	DKOCNO032P
40	32	10	163	30	82	24	100	18	180	97	1/4"	4	14	1553	DKOCNO040E	DKOCNO040F	DKOCNO040P

DK/CP DN 15÷32

PVC-C

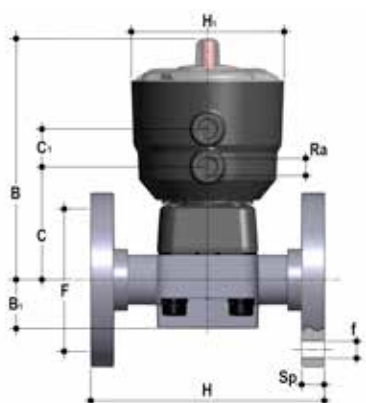
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKOC/CP DA

Pneumatically actuated diaphragm valve with flanged monolithic body, drilled PN10/16. Face to face according to EN 558-1. Double-Acting function

d	DN	PN	B	B1	C	C1	F	Øf	H	H1	Ra	U	Sp	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	65	14	130	97	1/4"	4	13.5	842	DKOCDA020E	DKOCDA020F	DKOCDA020P
25	20	10	151	30	69	24	75	14	150	97	1/4"	4	13.5	923	DKOCDA025E	DKOCDA025F	DKOCDA025P
32	25	10	159	33	78	24	85	14	160	97	1/4"	4	13.5	1219	DKOCDA032E	DKOCDA032F	DKOCDA032P
40	32	10	163	30	82	24	100	18	180	97	1/4"	4	14	1443	DKOCDA040E	DKOCDA040F	DKOCDA040P



DKOAC/CP NC

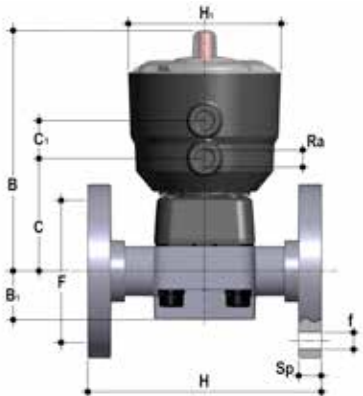
Pneumatically actuated diaphragm valve with flanged monolithic body, drilled ANSI B16.5 cl. 150 #FF. Normally Closed function

d	DN	PN	B	B1	C	C1	F	Øf	H	H1	Ra	U	Sp	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	60.30	14	108	97	1/4"	4	13.5	962	DKOACNC012E	DKOACNC012F	DKOACNC012P
3/4"	20	10	151	30	69	24	69.90	15.7	120	97	1/4"	4	13.5	1053	DKOACNC034E	DKOACNC034F	DKOACNC034P
1"	25	10	159	33	78	24	79.40	15.7	131	97	1/4"	4	13.5	1339	DKOACNC100E	DKOACNC100F	DKOACNC100P
1" 1/4	32	10	163	30	82	24	88.90	15.7	162	97	1/4"	4	14	1553	DKOACNC114E	DKOACNC114F	DKOACNC114P

DK/CP DN 15÷32

PVC-C

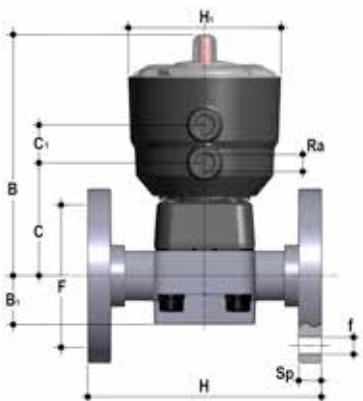
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKOAC/CP NO

Pneumatically actuated diaphragm valve with flanged monolithic body, drilled ANSI B16.5 cl. 150 #FF. Normally Open function

d	DN	PN	B	B1	C	C1	F	Øf	H	H1	Ra	U	Sp	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	60.30	14	108	97	1/4"	4	13.5	962	DKOACNO012E	DKOACNO012F	DKOACNO012P
3/4"	20	10	151	30	69	24	69.90	15.7	120	97	1/4"	4	13.5	1053	DKOACNO034E	DKOACNO034F	DKOACNO034P
1"	25	10	159	33	78	24	79.40	15.7	131	97	1/4"	4	13.5	1339	DKOACNO100E	DKOACNO100F	DKOACNO100P
1" 1/4	32	10	163	30	82	24	88.90	15.7	162	97	1/4"	4	14	1553	DKOACNO114E	DKOACNO114F	DKOACNO114P



DKOAC/CP DA

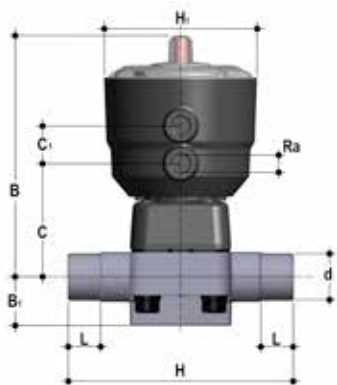
Pneumatically actuated diaphragm valve with flanged monolithic body, drilled ANSI B16.5 cl. 150 #FF. Double-Acting function

d	DN	PN	B	B1	C	C1	F	Øf	H	H1	Ra	U	Sp	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	60.30	14	108	97	1/4"	4	13.5	842	DKOACDA012E	DKOACDA012F	DKOACDA012P
3/4"	20	10	151	30	69	24	69.90	15.7	120	97	1/4"	4	13.5	923	DKOACDA034E	DKOACDA034F	DKOACDA034P
1"	25	10	159	33	78	24	79.40	15.7	131	97	1/4"	4	13.5	1219	DKOACDA100E	DKOACDA100F	DKOACDA100P
1" 1/4	32	10	163	30	82	24	88.90	15.7	162	97	1/4"	4	14	1443	DKOACDA114E	DKOACDA114F	DKOACDA114P

DK/CP DN 15÷32

PP-H

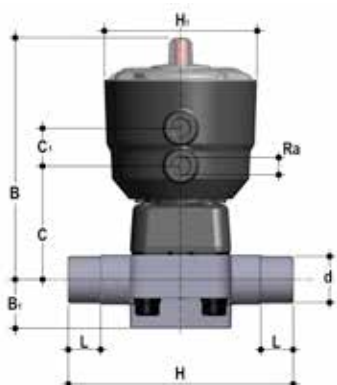
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKDM/CP NC

Pneumatically actuated diaphragm valve with male ends for socket fusion, metric series. Normally Closed function

d	DN	PN	B	B1	C	C1	H	H1	L	Ra	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	124	97	16	1/4"	665	DKDMNC020E	DKDMNC020F	DKDMNC020P
25	20	10	151	30	69	24	144	97	19	1/4"	680	DKDMNC025E	DKDMNC025F	DKDMNC025P
32	25	10	159	33	78	24	154	97	22	1/4"	855	DKDMNC032E	DKDMNC032F	DKDMNC032P
40	32	10	163	30	82	24	174	97	26	1/4"	885	DKDMNC040E	DKDMNC040F	DKDMNC040P



DKDM/CP NO

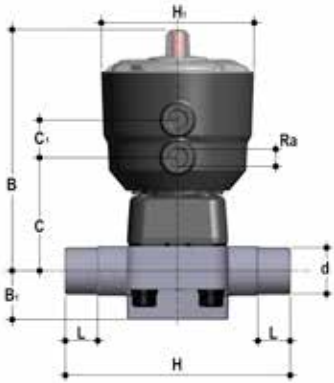
Pneumatically actuated diaphragm valve with male ends for socket fusion, metric series. Normally Open function

d	DN	PN	B	B1	C	C1	H	H1	L	Ra	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	124	97	16	1/4"	665	DKDMNO020E	DKDMNO020F	DKDMNO020P
25	20	10	151	30	69	24	144	97	19	1/4"	680	DKDMNO025E	DKDMNO025F	DKDMNO025P
32	25	10	159	33	78	24	154	97	22	1/4"	855	DKDMNO032E	DKDMNO032F	DKDMNO032P
40	32	10	163	30	82	24	174	97	26	1/4"	885	DKDMNO040E	DKDMNO040F	DKDMNO040P

DK/CP DN 15÷32

PP-H

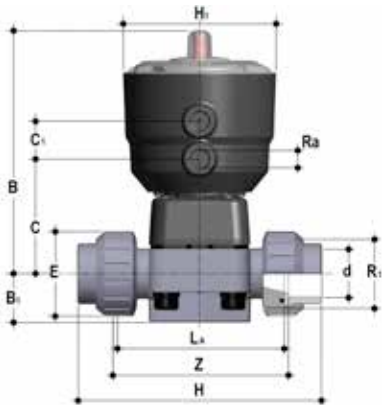
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKDM/CP DA

Pneumatically actuated diaphragm valve with male ends for socket fusion, metric series. Double-Acting function

d	DN	PN	B	B1	C	C1	H	H1	L	Ra	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	124	97	16	1/4"	545	DKDMA020E	DKDMA020F	DKDMA020P
25	20	10	151	30	69	24	144	97	19	1/4"	560	DKDMA025E	DKDMA025F	DKDMA025P
32	25	10	159	33	78	24	154	97	22	1/4"	735	DKDMA032E	DKDMA032F	DKDMA032P
40	32	10	163	30	82	24	174	97	26	1/4"	765	DKDMA040E	DKDMA040F	DKDMA040P



DKUIM/CP NC

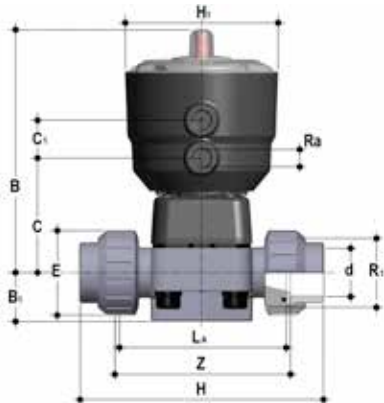
Pneumatically actuated diaphragm valve with female union ends for socket fusion, metric series. Normally Closed function

d	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	41	129	97	90	1"	1/4"	100	689	DKUIMNC020E	DKUIMNC020F	DKUIMNC020P
25	20	10	151	30	69	24	50	154	97	108	1 1/4"	1/4"	116	735	DKUIMNC025E	DKUIMNC025F	DKUIMNC025P
32	25	10	159	33	78	24	58	168	97	116	1 1/2"	1/4"	124	930	DKUIMNC032E	DKUIMNC032F	DKUIMNC032P
40	32	10	163	30	82	24	72	192	97	134	2"	1/4"	140	1016	DKUIMNC040E	DKUIMNC040F	DKUIMNC040P

DK/CP DN 15÷32

PP-H

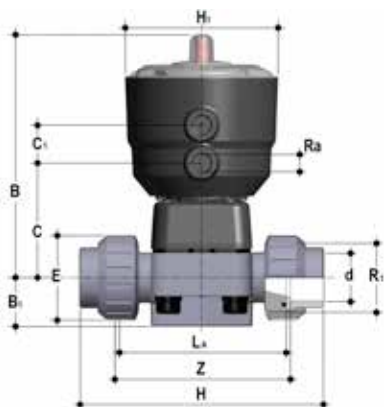
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKUIM/CP NO

Pneumatically actuated diaphragm valve with female union ends for socket fusion, metric series. Normally Open function

d	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	41	129	97	90	1"	1/4"	100	689	DKUIMNO020E	DKUIMNO020F	DKUIMNO020P
25	20	10	151	30	69	24	50	154	97	108	1"1/4	1/4"	116	735	DKUIMNO025E	DKUIMNO025F	DKUIMNO025P
32	25	10	159	33	78	24	58	168	97	116	1"1/2	1/4"	124	930	DKUIMNO032E	DKUIMNO032F	DKUIMNO032P
40	32	10	163	30	82	24	72	192	97	134	2"	1/4"	140	1016	DKUIMNO040E	DKUIMNO040F	DKUIMNO040P



DKUIM/CP DA

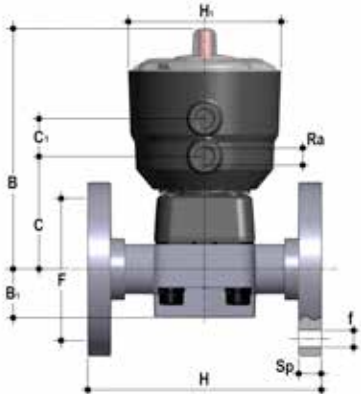
Pneumatically actuated diaphragm valve with female union ends for socket fusion, metric series. Double-Acting function

d	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	41	129	97	90	1"	1/4"	100	569	DKUIMDA020E	DKUIMDA020F	DKUIMDA020P
25	20	10	151	30	69	24	50	154	97	108	1"1/4	1/4"	116	615	DKUIMDA025E	DKUIMDA025F	DKUIMDA025P
32	25	10	159	33	78	24	58	168	97	116	1"1/2	1/4"	124	810	DKUIMDA032E	DKUIMDA032F	DKUIMDA032P
40	32	10	163	30	82	24	72	192	97	134	2"	1/4"	140	896	DKUIMDA040E	DKUIMDA040F	DKUIMDA040P

DK/CP DN 15÷32

PP-H

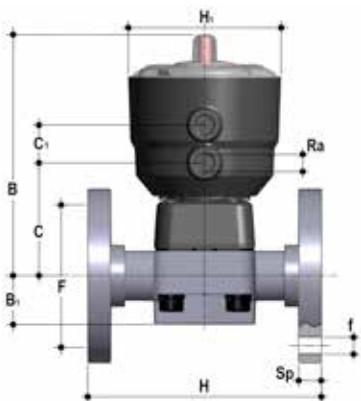
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKOM/CP NC

Pneumatically actuated diaphragm valve with flanged monolithic body, drilled PN10/16. Face to face according to EN 558-1. Normally Closed function

d	DN	PN	B	B1	C	C1	F	Øf	H	H1	Ra	U	Sp	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	65	14	130	97	1/4"	4	13.5	817	DKOMNC020E	DKOMNC020F	DKOMNC020P
25	20	10	151	30	69	24	75	14	150	97	1/4"	4	13.5	865	DKOMNC025E	DKOMNC025F	DKOMNC025P
32	25	10	159	33	78	24	85	14	160	97	1/4"	4	13.5	1109	DKOMNC032E	DKOMNC032F	DKOMNC032P
40	32	10	163	30	82	24	100	18	180	97	1/4"	4	14	1194	DKOMNC040E	DKOMNC040F	DKOMNC040P



DKOM/CP NO

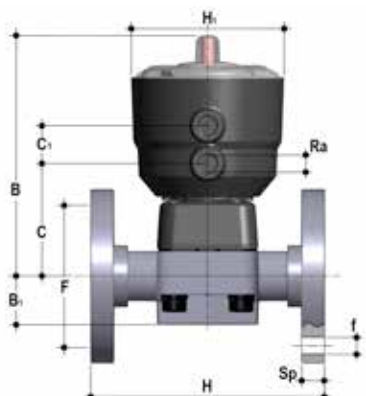
Pneumatically actuated diaphragm valve with flanged monolithic body, drilled PN10/16. Face to face according to EN 558-1. Normally Open function

d	DN	PN	B	B1	C	C1	F	Øf	H	H1	Ra	U	Sp	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	65	14	130	97	1/4"	4	13.5	817	DKOMNO020E	DKOMNO020F	DKOMNO020P
25	20	10	151	30	69	24	75	14	150	97	1/4"	4	13.5	865	DKOMNO025E	DKOMNO025F	DKOMNO025P
32	25	10	159	33	78	24	85	14	160	97	1/4"	4	13.5	1109	DKOMNO032E	DKOMNO032F	DKOMNO032P
40	32	10	163	30	82	24	100	18	180	97	1/4"	4	14	1194	DKOMNO040E	DKOMNO040F	DKOMNO040P

DK/CP DN 15÷32

PP-H

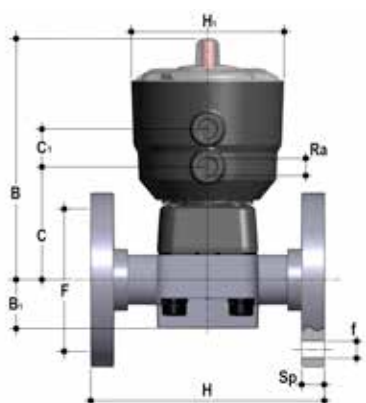
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKOM/CP DA

Pneumatically actuated diaphragm valve with flanged monolithic body, drilled PN10/16. Face to face according to EN 558-1. Double-Acting function

d	DN	PN	B	B1	C	C1	F	Øf	H	H1	Ra	U	Sp	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	65	14	130	97	1/4"	4	13.5	697	DKOMDA020E	DKOMDA020F	DKOMDA020P
25	20	10	151	30	69	24	75	14	150	97	1/4"	4	13.5	735	DKOMDA025E	DKOMDA025F	DKOMDA025P
32	25	10	159	33	78	24	85	14	160	97	1/4"	4	13.5	989	DKOMDA032E	DKOMDA032F	DKOMDA032P
40	32	10	163	30	82	24	100	18	180	97	1/4"	4	14	1084	DKOMDA040E	DKOMDA040F	DKOMDA040P



DKOAM/CP NC

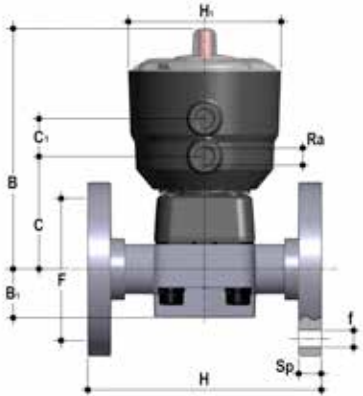
Pneumatically actuated diaphragm valve with flanged monolithic body, drilled ANSI B16.5 cl. 150 #FF. Normally Closed function

d	DN	PN	B	B1	C	C1	F	Øf	H	H1	Ra	U	Sp	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	60.30	14	108	97	1/4"	4	13.5	817	DKOAMNC012E	DKOAMNC012F	DKOAMNC012P
3/4"	20	10	151	30	69	24	69.90	15.7	120	97	1/4"	4	13.5	865	DKOAMNC034E	DKOAMNC034F	DKOAMNC034P
1"	25	10	159	33	78	24	79.40	15.7	131	97	1/4"	4	13.5	1109	DKOAMNC100E	DKOAMNC100F	DKOAMNC100P
1" 1/4	32	10	163	30	82	24	88.90	15.7	162	97	1/4"	4	14	1194	DKOAMNC114E	DKOAMNC114F	DKOAMNC114P

DK/CP DN 15÷32

PP-H

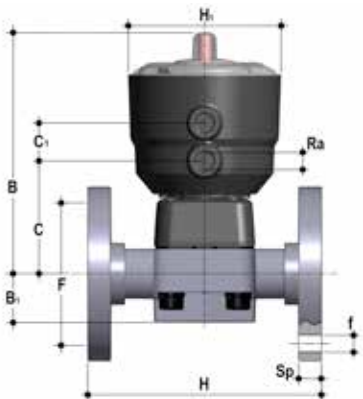
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKOAM/CP NO

Pneumatically actuated diaphragm valve with flanged monolithic body, drilled ANSI B16.5 cl. 150 #FF. Normally Open function

d	DN	PN	B	B1	C	C1	F	Øf	H	H1	Ra	U	Sp	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	60.30	14	108	97	1/4"	4	13.5	817	DKOAMNO012E	DKOAMNO012F	DKOAMNO012P
3/4"	20	10	151	30	69	24	69.90	15.7	120	97	1/4"	4	13.5	865	DKOAMNO034E	DKOAMNO034F	DKOAMNO034P
1"	25	10	159	33	78	24	79.40	15.7	131	97	1/4"	4	13.5	1109	DKOAMNO100E	DKOAMNO100F	DKOAMNO100P
1" 1/4	32	10	163	30	82	24	88.90	15.7	162	97	1/4"	4	14	1194	DKOAMNO114E	DKOAMNO114F	DKOAMNO114P



DKOAM/CP DA

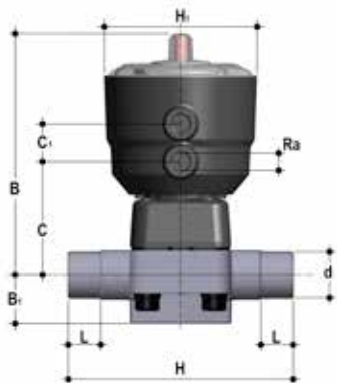
Pneumatically actuated diaphragm valve with flanged monolithic body, drilled ANSI B16.5 cl. 150 #FF. Double-Acting function

d	DN	PN	B	B1	C	C1	F	Øf	H	H1	Ra	U	Sp	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	60.30	14	108	97	1/4"	4	13.5	697	DKOAMDA012E	DKOAMDA012F	DKOAMDA012P
3/4"	20	10	151	30	69	24	69.90	15.7	120	97	1/4"	4	13.5	735	DKOAMDA034E	DKOAMDA034F	DKOAMDA034P
1"	25	10	159	33	78	24	79.40	15.7	131	97	1/4"	4	13.5	989	DKOAMDA100E	DKOAMDA100F	DKOAMDA100P
1" 1/4	32	10	163	30	82	24	88.90	15.7	162	97	1/4"	4	14	1084	DKOAMDA114E	DKOAMDA114F	DKOAMDA114P

DK/CP DN 15÷32

PVDF

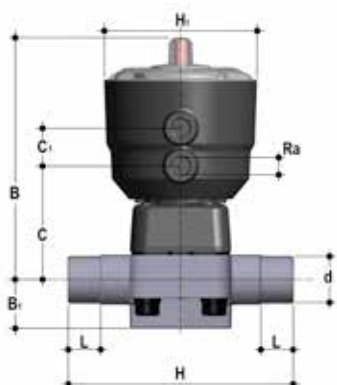
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKDF/CP NC

Pneumatically actuated diaphragm valve with male ends for socket fusion, metric series. Normally Closed function

d	DN	PN	B	B1	C	C1	H	H1	L	Ra	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	124	97	16	1/4"	732	DKDFNC020E	DKDFNC020F	DKDFNC020P
25	20	10	151	30	69	24	144	97	19	1/4"	762	DKDFNC025E	DKDFNC025F	DKDFNC025P
32	25	10	159	33	78	24	154	97	22	1/4"	991	DKDFNC032E	DKDFNC032F	DKDFNC032P
40	32	10	163	30	82	24	174	97	26	1/4"	1052	DKDFNC040E	DKDFNC040F	DKDFNC040P



DKDF/CP NO

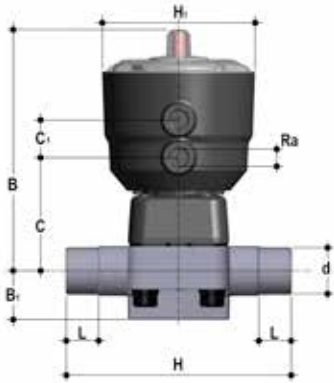
Pneumatically actuated diaphragm valve with male ends for socket fusion, metric series. Normally Open function

d	DN	PN	B	B1	C	C1	H	H1	L	Ra	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	124	97	16	1/4"	732	DKDFNO020E	DKDFNO020F	DKDFNO020P
25	20	10	151	30	69	24	144	97	19	1/4"	762	DKDFNO025E	DKDFNO025F	DKDFNO025P
32	25	10	159	33	78	24	154	97	22	1/4"	991	DKDFNO032E	DKDFNO032F	DKDFNO032P
40	32	10	163	30	82	24	174	97	26	1/4"	1052	DKDFNO040E	DKDFNO040F	DKDFNO040P

DK/CP DN 15÷32

PVDF

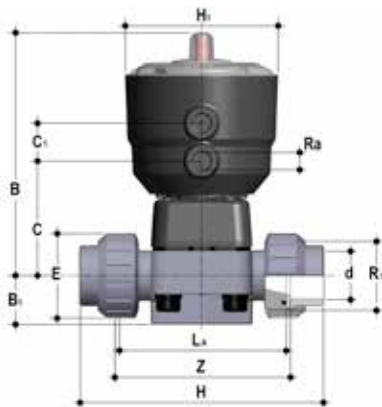
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKDF/CP DA

Pneumatically actuated diaphragm valve with male ends for socket fusion, metric series. Double-Acting function

d	DN	PN	B	B1	C	C1	H	H1	L	Ra	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	124	97	16	1/4"	612	DKDFDA020E	DKDFDA020F	DKDFDA020P
25	20	10	151	30	69	24	144	97	19	1/4"	642	DKDFDA025E	DKDFDA025F	DKDFDA025P
32	25	10	159	33	78	24	154	97	22	1/4"	871	DKDFDA032E	DKDFDA032F	DKDFDA032P
40	32	10	163	30	82	24	174	97	26	1/4"	932	DKDFDA040E	DKDFDA040F	DKDFDA040P



DKUIF/CP NC

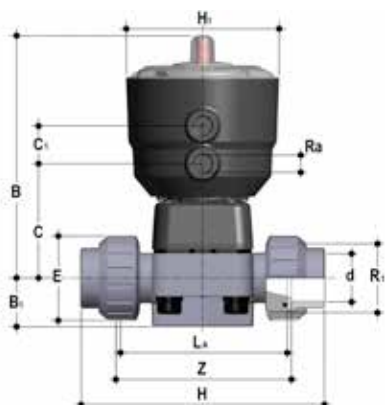
Pneumatically actuated diaphragm valve with female union ends for socket fusion, metric series. Normally Closed function

d	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	41	129	97	90	1"	1/4"	100	786	DKUIFNC020E	DKUIFNC020F	DKUIFNC020P
25	20	10	151	30	69	24	50	154	97	108	1"1/4	1/4"	116	871	DKUIFNC025E	DKUIFNC025F	DKUIFNC025P
32	25	10	159	33	78	24	58	168	97	116	1"1/2	1/4"	124	1140	DKUIFNC032E	DKUIFNC032F	DKUIFNC032P
40	32	10	163	30	82	24	72	192	97	134	2"	1/4"	140	1312	DKUIFNC040E	DKUIFNC040F	DKUIFNC040P

DK/CP DN 15÷32

PVDF

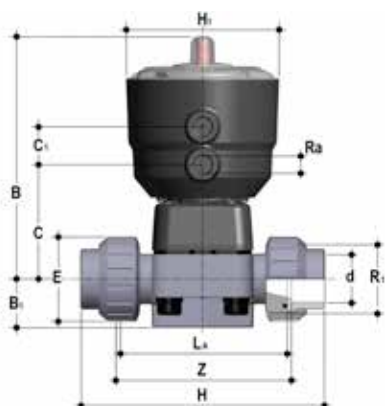
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKUIF/CP NO

Pneumatically actuated diaphragm valve with female union ends for socket fusion, metric series. Normally Open function

d	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	41	129	97	90	1"	1/4"	100	786	DKUIFNO020E	DKUIFNO020F	DKUIFNO020P
25	20	10	151	30	69	24	50	154	97	108	1"1/4	1/4"	116	871	DKUIFNO025E	DKUIFNO025F	DKUIFNO025P
32	25	10	159	33	78	24	58	168	97	116	1"1/2	1/4"	124	1140	DKUIFNO032E	DKUIFNO032F	DKUIFNO032P
40	32	10	163	30	82	24	72	192	97	134	2"	1/4"	140	1312	DKUIFNO040E	DKUIFNO040F	DKUIFNO040P



DKUIF/CP DA

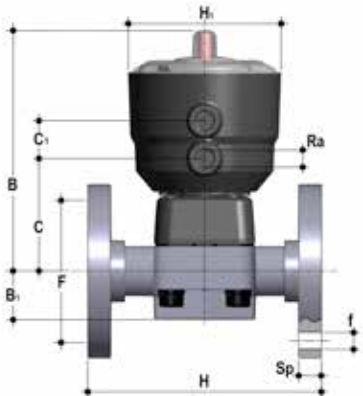
Pneumatically actuated diaphragm valve with female union ends for socket fusion, metric series. Double-Acting function

d	DN	PN	B	B1	C	C1	E	H	H1	La	R1	Ra	Z	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	41	129	97	90	1"	1/4"	100	666	DKUIFDA020E	DKUIFDA020F	DKUIFDA020P
25	20	10	151	30	69	24	50	154	97	108	1"1/4	1/4"	116	751	DKUIFDA025E	DKUIFDA025F	DKUIFDA025P
32	25	10	159	33	78	24	58	168	97	116	1"1/2	1/4"	124	1020	DKUIFDA032E	DKUIFDA032F	DKUIFDA032P
40	32	10	163	30	82	24	72	192	97	134	2"	1/4"	140	1192	DKUIFDA040E	DKUIFDA040F	DKUIFDA040P

DK/CP DN 15÷32

PVDF

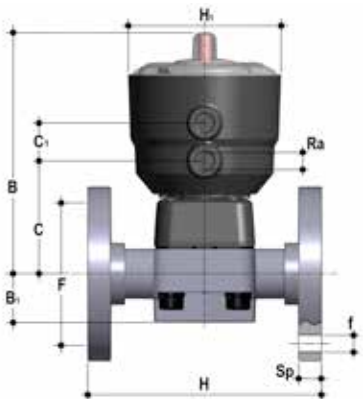
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKOF/CP NC

Pneumatically actuated diaphragm valve with flanged monolithic body, drilled PN10/16. Face to face according to EN 558-1. Normally Closed function

d	DN	PN	B	B1	C	C1	F	Øf	H	H1	Ra	U	Sp	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	65	14	130	97	1/4"	4	13.5	1011	DKOFNC020E	DKOFNC020F	DKOFNC020P
25	20	10	151	30	69	24	75	14	150	97	1/4"	4	13.5	1117	DKOFNC025E	DKOFNC025F	DKOFNC025P
32	25	10	159	33	78	24	85	14	160	97	1/4"	4	13.5	1429	DKOFNC032E	DKOFNC032F	DKOFNC032P
40	32	10	163	30	82	24	100	18	180	97	1/4"	4	14	1675	DKOFNC040E	DKOFNC040F	DKOFNC040P



DKOF/CP NO

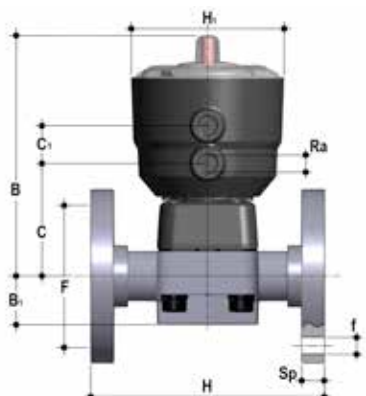
Pneumatically actuated diaphragm valve with flanged monolithic body, drilled PN10/16. Face to face according to EN 558-1. Normally Open function

d	DN	PN	B	B1	C	C1	F	Øf	H	H1	Ra	U	Sp	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	65	14	130	97	1/4"	4	13.5	1011	DKOFNO020E	DKOFNO020F	DKOFNO020P
25	20	10	151	30	69	24	75	14	150	97	1/4"	4	13.5	1117	DKOFNO025E	DKOFNO025F	DKOFNO025P
32	25	10	159	33	78	24	85	14	160	97	1/4"	4	13.5	1429	DKOFNO032E	DKOFNO032F	DKOFNO032P
40	32	10	163	30	82	24	100	18	180	97	1/4"	4	14	1675	DKOFNO040E	DKOFNO040F	DKOFNO040P

DK/CP DN 15÷32

PVDF

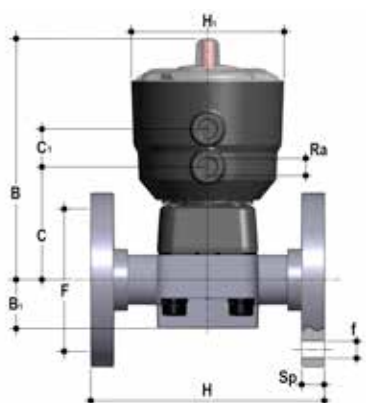
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKOF/CP DA

Pneumatically actuated diaphragm valve with flanged monolithic body, drilled PN10/16. Face to face according to EN 558-1. Double-Acting function

d	DN	PN	B	B1	C	C1	F	Øf	H	H1	Ra	U	Sp	g	Code EPDM	Code FPM	Code PTFE
20	15	10	148	25	66	24	65	14	130	97	1/4"	4	13.5	891	DKOFDA020E	DKOFDA020F	DKOFDA020P
25	20	10	151	30	69	24	75	14	150	97	1/4"	4	13.5	987	DKOFDA025E	DKOFDA025F	DKOFDA025P
32	25	10	159	33	78	24	85	14	160	97	1/4"	4	13.5	1309	DKOFDA032E	DKOFDA032F	DKOFDA032P
40	32	10	163	30	82	24	100	18	180	97	1/4"	4	14	1565	DKOFDA040E	DKOFDA040F	DKOFDA040P



DKOAF/CP NC

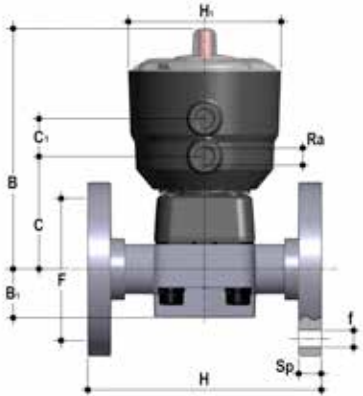
Pneumatically actuated diaphragm valve with flanged monolithic body, drilled ANSI B16.5 cl. 150 #FF. Normally Closed function

d	DN	PN	B	B1	C	C1	F	Øf	H	H1	Ra	U	Sp	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	60.30	14	108	97	1/4"	4	13.5	1011	DKOAFNC012E	DKOAFNC012F	DKOAFNC012P
3/4"	20	10	151	30	69	24	69.90	15.7	120	97	1/4"	4	13.5	1117	DKOAFNC034E	DKOAFNC034F	DKOAFNC034P
1"	25	10	159	33	78	24	79.40	15.7	131	97	1/4"	4	13.5	1429	DKOAFNC100E	DKOAFNC100F	DKOAFNC100P
1" 1/4	32	10	163	30	82	24	88.90	15.7	162	97	1/4"	4	14	1675	DKOAFNC114E	DKOAFNC114F	DKOAFNC114P

DK/CP DN 15÷32

PVDF

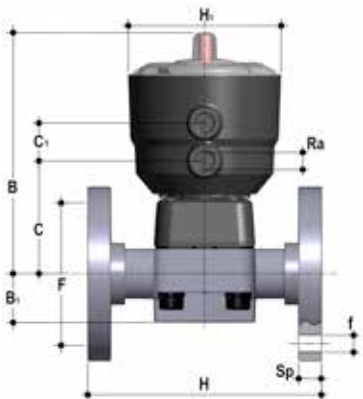
PNEUMATICALLY ACTUATED DIAPHRAGM VALVE



DKOAF/CP NO

Pneumatically actuated diaphragm valve with flanged monolithic body, drilled ANSI B16.5 cl. 150 #FF. Normally Open function

d	DN	PN	B	B1	C	C1	F	Øf	H	H1	Ra	U	Sp	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	60.30	14	108	97	1/4"	4	13.5	1011	DKOAFNO012E	DKOAFNO012F	DKOAFNO012P
3/4"	20	10	151	30	69	24	69.90	15.7	120	97	1/4"	4	13.5	1117	DKOAFNO034E	DKOAFNO034F	DKOAFNO034P
1"	25	10	159	33	78	24	79.40	15.7	131	97	1/4"	4	13.5	1429	DKOAFNO100E	DKOAFNO100F	DKOAFNO100P
1" 1/4	32	10	163	30	82	24	88.90	15.7	162	97	1/4"	4	14	1675	DKOAFNO114E	DKOAFNO114F	DKOAFNO114P

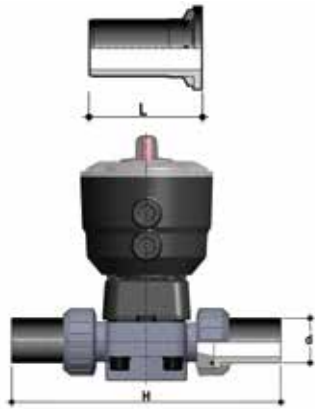


DKOAF/CP DA

Pneumatically actuated diaphragm valve with flanged monolithic body, drilled ANSI B16.5 cl. 150 #FF. Double-Acting function

d	DN	PN	B	B1	C	C1	F	Øf	H	H1	Ra	U	Sp	g	Code EPDM	Code FPM	Code PTFE
1/2"	15	10	148	25	66	24	60.30	14	108	97	1/4"	4	13.5	891	DKOAFDA012E	DKOAFDA012F	DKOAFDA012P
3/4"	20	10	151	30	69	24	69.90	15.7	120	97	1/4"	4	13.5	987	DKOAFDA034E	DKOAFDA034F	DKOAFDA034P
1"	25	10	159	33	78	24	79.40	15.7	131	97	1/4"	4	13.5	1309	DKOAFDA100E	DKOAFDA100F	DKOAFDA100P
1" 1/4	32	10	163	30	82	24	88.90	15.7	162	97	1/4"	4	14	1565	DKOAFDA114E	DKOAFDA114F	DKOAFDA114P

ACCESSORIES



Q/BBE-L

Long spigot PE100 end connectors for electrofusion or butt welding

d	DN	L	H	SDR	Code
20	15	95	280	11	QBBEL11020
25	20	95	298	11	QBBEL11025
32	25	95	306	11	QBBEL11032
40	32	95	324	11	QBBEL11040

Q/BBM-L

Long spigot PP-H end connectors for butt welding

d	DN	L	H	SDR	Code
20	15	95	280	11	QBBML11020
25	20	95	298	11	QBBML11025
32	25	95	306	11	QBBML11032
40	32	95	324	11	QBBML11040

Q/BBM-C

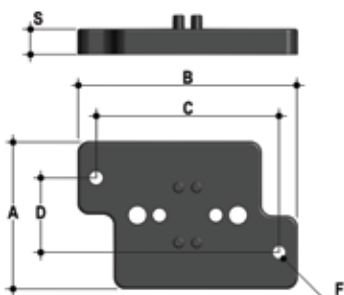
Short spigot PP-H end connectors for butt welding

d	DN	L	H	SDR	Code
20	15	55	200	11	QBBMC11020
25	20	55	218	11	QBBMC11025
32	25	55	226	11	QBBMC11032
40	32	55	244	11	QBBMC11040

Q/BBF-L

Long spigot PVDF end connectors for butt welding

d	DN	L	H	SDR	Code
20	15	95	280	21	QBBFL21020
25	20	95	298	21	QBBFL21025
32	25	95	306	21	QBBFL21032
40	32	95	324	21	QBBFL21040



PMDK

Mounting plate

d	DN	A	B	C	D	F	S	Code
20	15	65	97	81	33	5.5	11	PMDK1
25	20	65	97	81	33	5.5	11	PMDK1
32	25	65	97	81	33	5.5	11	PMDK1
40	32	65	97	81	33	5.5	11	PMDK1

FASTENING AND SUPPORTING

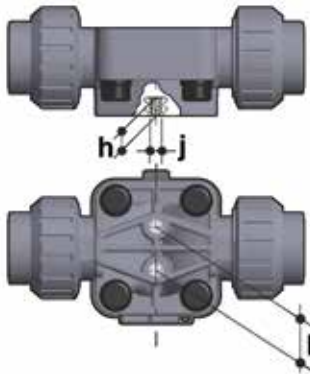


All valves, whether manual or actuated, must be adequately supported in many applications.

The DK valve series is therefore provided with an integrated bracket that permits direct anchoring of the valve body without the need of other components.

For wall or panel installation, dedicated PMDK mounting plates which are available as accessories can be used. These plates should be fastened to the valve before wall installation.

PMDK plates also allow DK valve alignment with FIP ZIKM pipe clips.



d	DN	h	l	J
20	15	10	25	M6
25	20	10	25	M6
32	25	10	25	M6
40	32	10	25	M6

CUSTOMISATION

The DK/CP DN 15÷32 valve can be customised using a customisation plate in white PVC.

The plate (B), housed in the transparent protection cap (A), can be removed and, once overturned, used for indicating identification serial numbers or service indications on the valves such as, for example, the valve function in the system, the conveyed fluid and specific information for customer service, such as the customer name or installation date or location. The waterproof transparent protection cap with seal O-Ring protects the customisation plate against deterioration.

To access the customisation plate, proceed as follows:

- 1) Disconnect the valve from the pneumatic connections.
- 2) Unscrew the transparent protection cap (fig. 1).
- 3) Remove the plate and proceed with the customisation (fig. 2).
- 4) Re-assemble everything making sure that the transparent protection cap O-Ring remains in its seating.

Fig. 1

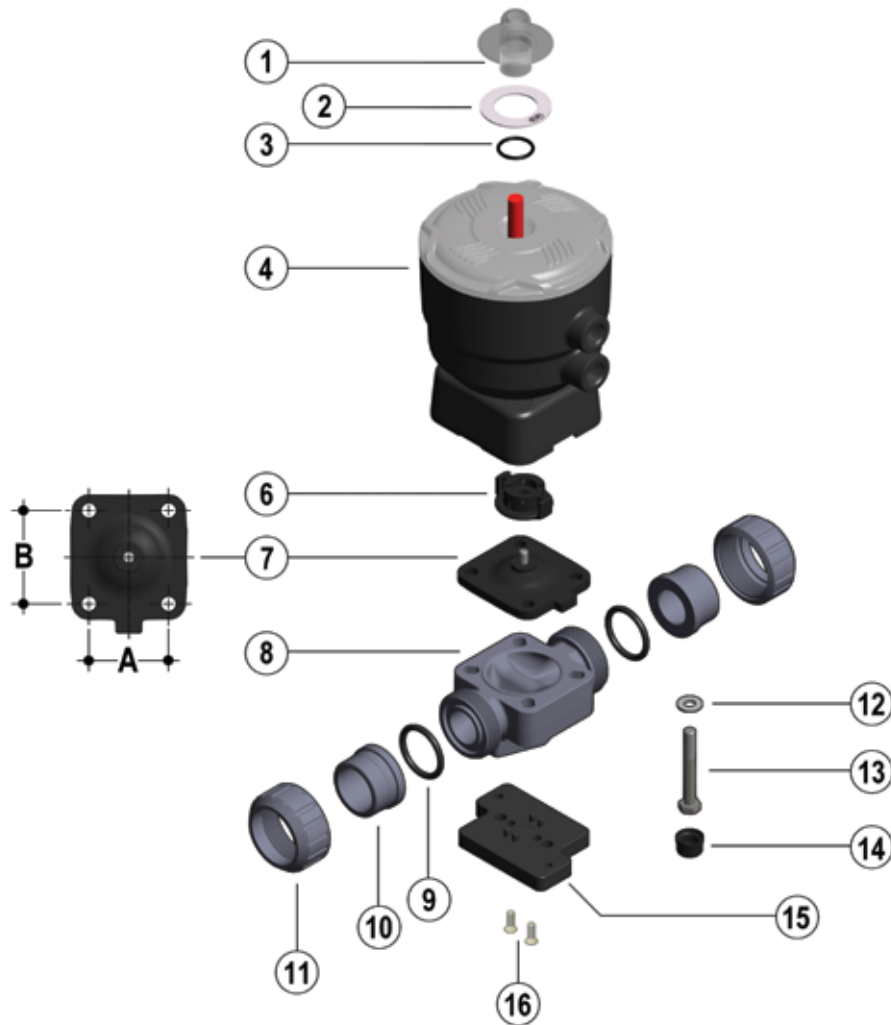


Fig. 2



COMPONENTS

EXPLODED VIEW DN 15÷32



DN	15	20	25	32
A	40	40	46	46
B	44	44	54	54

- 1** · Transparent cap (PC- 1)*
- 2** · Customisation plate (PVC - 1)
- 3** · O-Ring (EPDM - 1)
- 4** · Actuator (PP-GR - 1)*
- 6** · Compressor (PA-GR IXEF® - 1)
- 7** · Diaphragm seal (EPDM, FPM, PTFE - 1)*
- 8** · Valve body (PVC-U, PVCC, PPH, PVDF - 1)*
- 9** · Socket seal O-Ring (EPDM-FPM - 2)*
- 10** · End connector (PVC-U, PVCC, PPH, PVDF - 2)*
- 11** · Union nut (PVC-U, PVCC, PPH, PVDF - 2)*
- 12** · Washer (STAINLESS steel - 4)
- 13** · Bolt (STAINLESS steel - 4)
- 14** · Protection plug (PE - 4)
- 15** · Distance plate (PP-GR - 1)**
- 16** · Screw (STAINLESS steel - 2)**

* Spare parts

** Accessories

The material of the component and the quantity supplied are indicated between brackets

DISASSEMBLY

- 1) Isolate the valve from the line (release the pressure and empty the pipeline).
- 2) Open the valve with compressed air (NC-DA) to drain any residual liquid from the valve.
- 3) Disconnect the valve from the pneumatic and electrical connections.
- 4) Unscrew the union nuts (11) and extract the valve.
- 5) Remove the protection plugs (14) and bolts (13) with their washers (12); this operation will be made easier if the actuator is pressurised (NC).
- 6) Separate the valve body (8) from the actuator (4).
- 7) Unscrew the diaphragm (7) and remove the compressor (6); this operation will be made easier if the actuator is not pressurised (NC).

ASSEMBLY

- 1) Insert the compressor (6) on the actuator stem (4), aligning it correctly in its housing (fig. 3).
- 2) Screw the diaphragm (7) onto the stem, aligning it correctly with its housing on the actuator.
- 3) Mount the actuator (4) on the valve body (8) and screw in the bolts (13) with the relative washers (12); this operation will be made easier if the actuator is pressurised (NC).
- 4) Tighten the bolts (13) evenly (diagonally) to the tightening torque suggested on the relative instruction sheet.
- 5) Replace the protection plugs (14).
- 6) Position the valve between the end connectors (10) and tighten the union nuts (11), making sure that the socket seal O-rings (9) do not exit their seats.
- 7) Reconnect the valve to the pneumatic and electrical connections



Note: All operations on equipment under pressure or containing compressed springs must be carried out under safe conditions for the operator.

Fig. 3

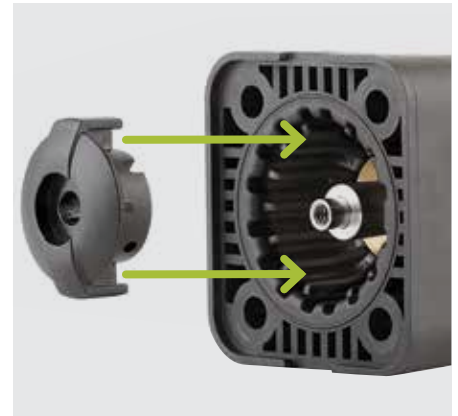


Fig. 4



INSTALLATION

Before proceeding with installation, please follow these instructions carefully: (instructions refer to versions with union ends). The valve can be installed in any position and in any direction.

- 1) Check that the pipes to be connected to the valve are aligned in order to avoid mechanical stress on the threaded joints.
- 2) Unscrew the union nuts (11) and insert them on the pipe segments.
- 3) Solvent weld or screw the end connectors (10) onto the pipe ends.
- 4) Position the valve body between the end connectors making sure the socket seal O-Rings (9) do not exit the seats.
- 5) Completely tighten the union nuts (11).
- 6) If necessary, support the pipework with FIP pipe clips or by means of the carrier built into the valve itself (see paragraph "Fastening and supporting").
- 7) Connect the compressed air as indicated in paragraph "Compressed air connections". For valves with electric accessories, refer to the specific technical manual supplied with the accessory-

When installing in confined spaces, the connections can be oriented in line with the piping (fig. 4).



Note: before putting the valve into service, check that the bolts on the valve body (8) are tightened correctly at the suggested torque.

 Aliaxis



DKM/CP DN 40÷65
PVC-U / PVC-C / PP-H / PVDF

Pneumatically actuated 2-way diaphragm valve

DKM/CP DN 40÷65

The DKM/CP diaphragm valve is particularly suitable for shutting off and regulating abrasive or dirty fluids.

The new internal geometry of the body optimises fluid dynamic efficiency by increasing the flow rate and ensuring an optimum linearity of the flow adjustment curve. The DKM/CP is extremely compact and very light.

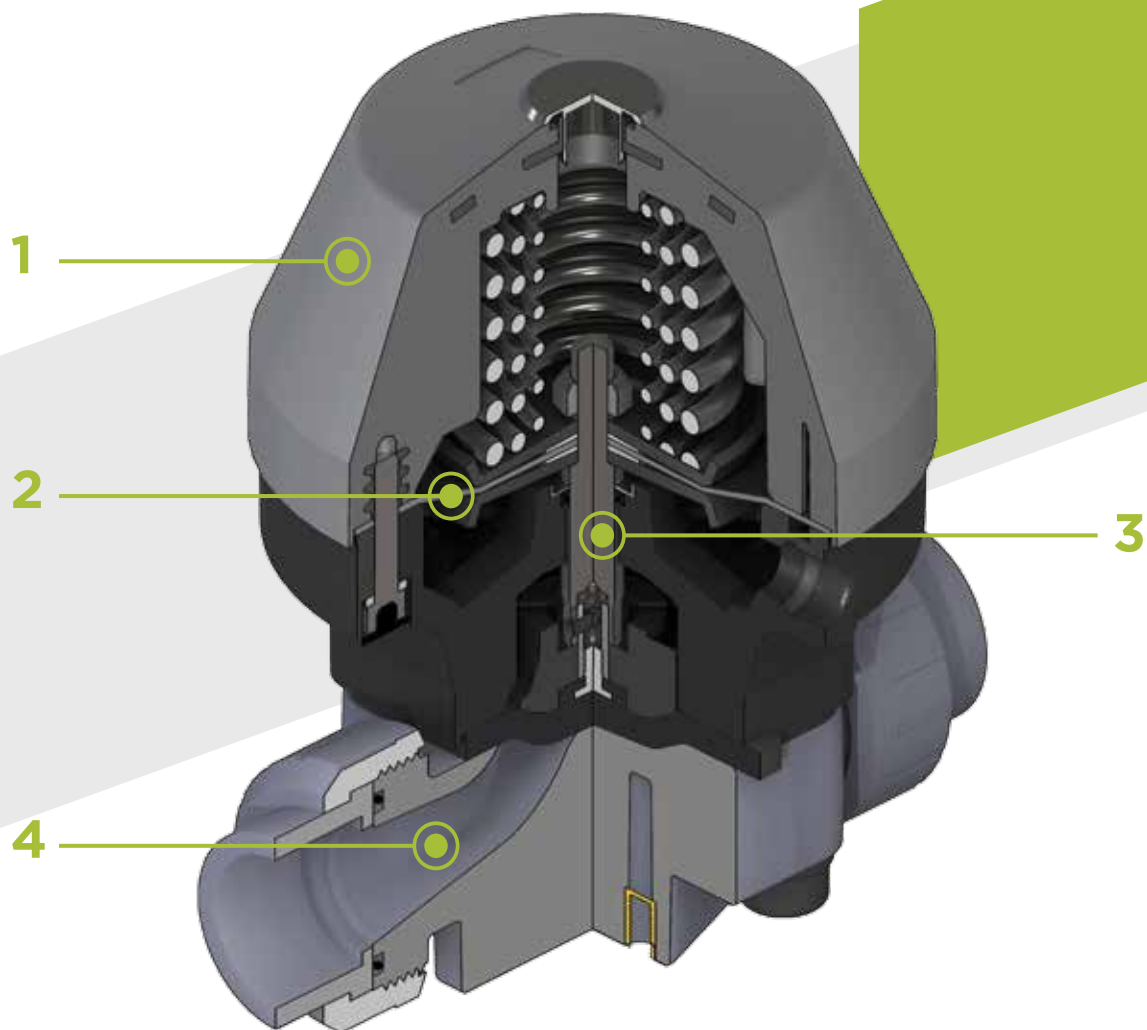
PNEUMATICALLY ACTUATED 2-WAY DIAPHRAGM VALVE

- Connection system for solvent weld, threaded and flanged joints
- **Optimised fluid dynamic design:** maximum output flow rate thanks to the optimised efficiency of the fluid dynamics that characterise the new internal geometry of the body
- **Robust and reliable diaphragm actuator in PP-GR** ideal for heavy-duty applications in chemically aggressive environments
- **Modularity of the range:** only 3 actuators and diaphragms for 5 different valve sizes
- Bonnet fastening screws in stainless steel protected against the external environment by PE plugs.
- **CDSA** (Circular Diaphragm Sealing Angle) system that, thanks to the uniform distribution of shutter pressure on the diaphragm seal, offers the following advantages:
 - reduction in the tightening torque of the screws fixing the actuator to the valve body
 - reduced mechanical stress on all valve components (actuator, body and diaphragm)
 - easy to clean valve interior
 - low risk of the accumulation of deposits, contamination or damage to the diaphragm due to crystallisation

Technical specifications	
Construction	Pneumatically actuated diaphragm valve with body at maximized flow rate
Size range	DN 40 ÷ 65
Nominal pressure	PN 10 with water at 20 °C
Temperature range	PVC-U: 0 °C ÷ 60 °C - PVC-C: 0 °C ÷ 100 °C PP-H: 0 °C ÷ 100 °C - PVDF: -20 °C ÷ 120 °C
Coupling standards	Solvent welding/Welding EN ISO 1452, EN ISO 15493, EN ISO 15494, EN ISO 10931, BS 4346-1, DIN 8063, NF T54-028, ASTM D 2467, ASTM F 439. Can be coupled to pipes according to EN ISO 1452, EN ISO 15493, EN ISO 15494, EN ISO 10931, DIN 8062, NF T54-016, ASTM D 1785, ASTM F 441 Thread: ISO 228-1, DIN 2999, ASTM D 2464 Flanging system: ISO 7005-1, EN ISO 1452, EN ISO 15493, EN 1092-1, EN ISO 15494, EN ISO 10931, EN 558-1, DIN 2501, ANSI B16.5 Cl.150, JIS B2220
Reference standards	Construction criteria: EN ISO 16138, EN ISO 1452, EN ISO 15493, EN ISO 15494, EN ISO 10931 Test methods and requirements: ISO 9393 Installation criteria: DVS 2204, DVS 2221, DVS 2202-1, DVS 2201-1, DVS 2207-11, DVS 2207-15, DVS 2208-1, UNI 11242, UNI 11318
Valve material	PVC-U / PVC-C / PP-H / PVDF
Diaphragm material	EPDM, FPM, PTFE (on request NBR)
Control options	Pneumatic actuator

The diaphragm actuator in PP-GR is characterized by its robust construction, making DKM the ideal choice for demanding and chemically aggressive applications.

Technical specifications - pneumatic actuator	
Construction	Single-acting (NC-NO) and double-acting (DA) pneumatic piston actuator
Actuator Material	Body and bonnet: PP-GR
Control air pressure	Minimum: according to the working pressure and operation of the actuator (see detailed graphs) Maximum: NC: 6 bar - NO: 5 bar - DA: 5 bar
Power supply	Dry or lubricated filtered compressed air. If using other fluids, contact the FIP service centre
Control fluid temperature	Max 40 °C
Working temperature	-20 °C ÷ 50 °C
Accessories	<ul style="list-style-type: none"> • Optical position indicator • Stroke limiter with position indicator • Stroke limiter with position indicator and emergency manual override • Limit switch boxes • Electro-pneumatic positioner • Pilot solenoid valves 3/2 ways for direct or manifold mounting • Distance plate



1 Diaphragm actuator in PP-GR characterized by its robust construction. In the configuration Normally Closed, the upper part is equipped with steel reinforcement. **Absence of metal parts exposed to the external environment** prevents any risk of corrosion

2 The special **control diaphragm** reinforced with fibres can reach up to 10 million drives without showing signs of wear

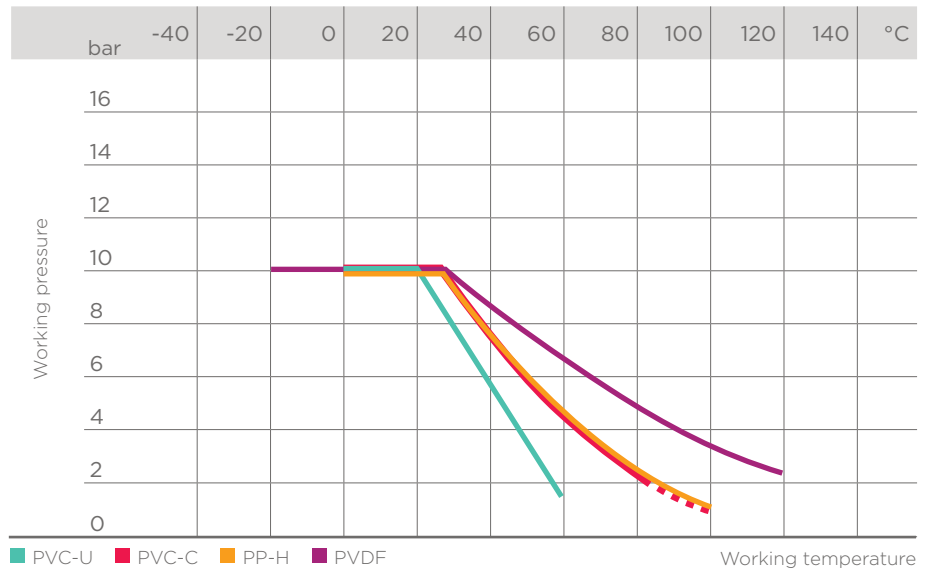
3 High strength stainless steel stem with floating pin connection between the actuator stem and diaphragm to prevent concentrated loads, improve the seal and extend its lifetime

4 New design of valve body interior
Substantially increased flow coefficient and reduced pressure drop. The degree of efficiency reached has also enabled **the size and weight** of the valve to be **reduced**
Adjustment linearity: the internal profiles of the valve also greatly improve its characteristic curve, resulting in **extremely sensitive and precise adjustment** along the entire stroke of the shutter

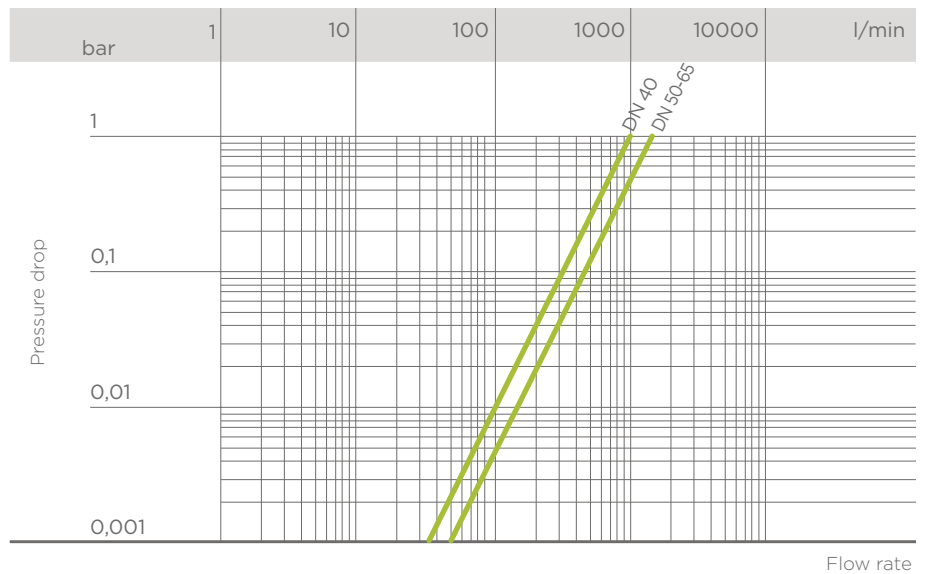
TECHNICAL DATA

PRESSURE VARIATION ACCORDING TO TEMPERATURE

For water and non-hazardous fluids with regard to which the material is classified as CHEMICALLY RESISTANT. In other cases, a reduction of the nominal pressure PN is required (25 years with safety factor).



PRESSURE DROP GRAPH



K_v100 FLOW COEFFICIENT

The K_v100 flow coefficient is the Q flow rate of litres per minute of water at a temperature of 20 °C that will generate Δp= 1 bar pressure drop at a certain valve position.

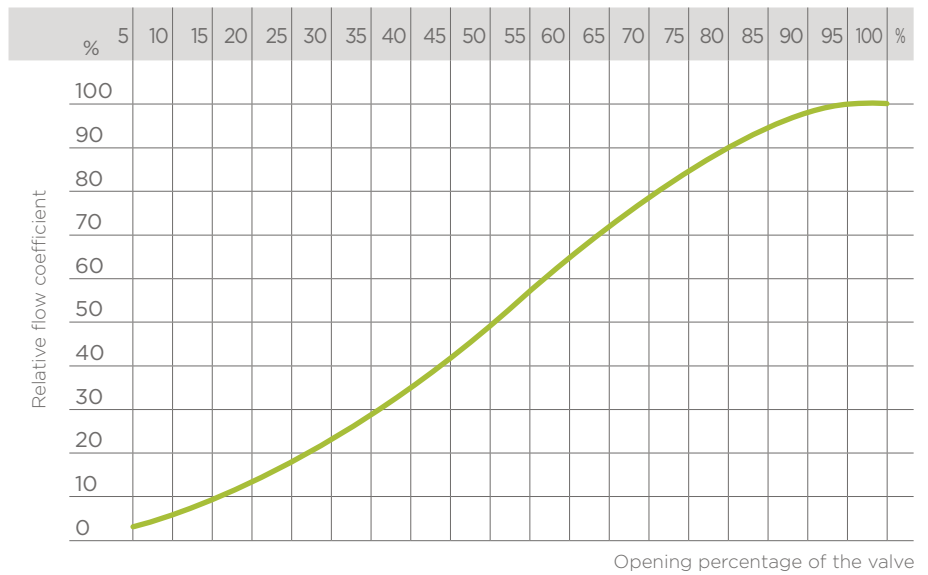
The K_v100 values shown in the table are calculated with the valve completely open.

DN	40	50	65
K _v 100 l/min	1087	1648	1600

TECHNICAL DATA

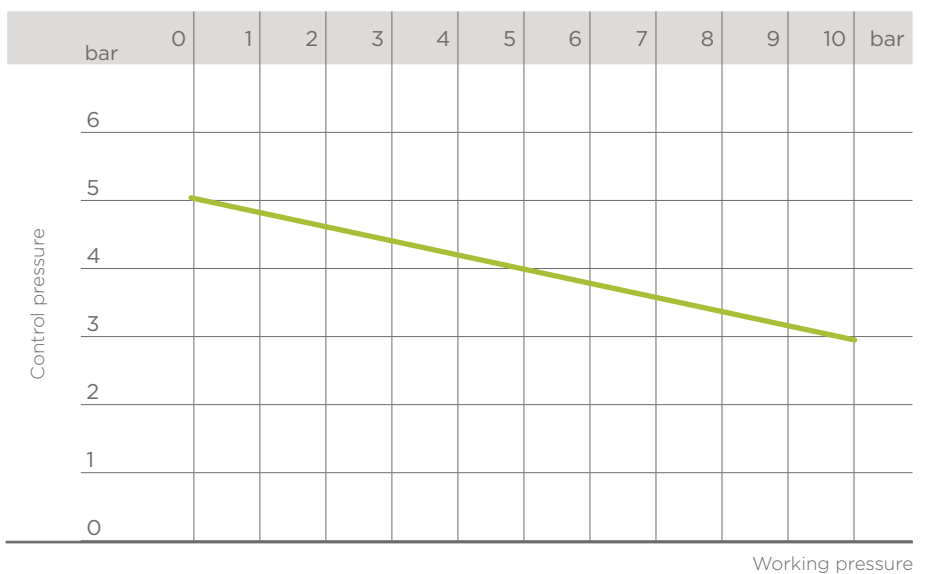
RELATIVE FLOW COEFFICIENT GRAPH

The relative flow coefficient refers to the variation in the flow rate as a function of the valve opening stroke.



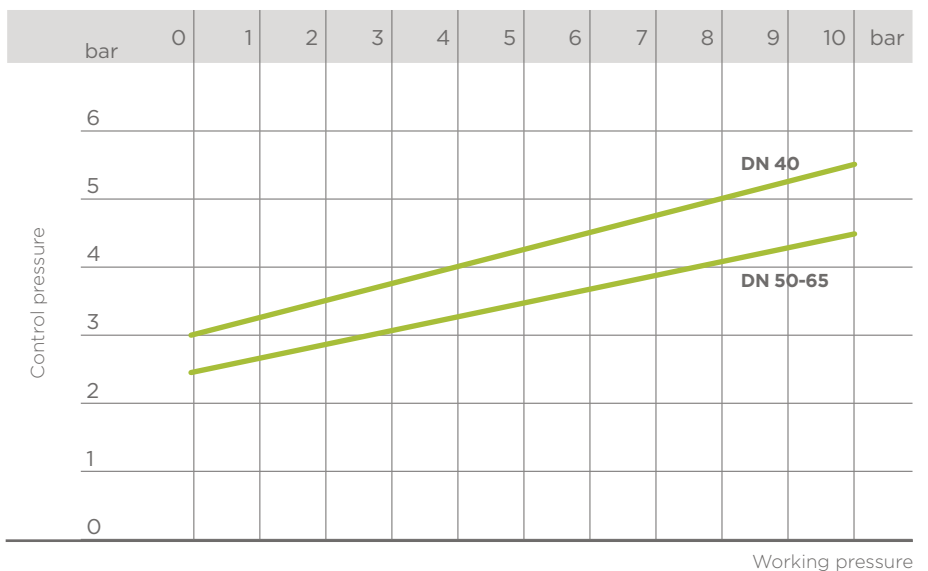
CONTROL PRESSURE ACCORDING TO WORKING PRESSURE DKM/CP NC

Minimum control pressure according to working pressure with EPDM/FPM diaphragm



CONTROL PRESSURE ACCORDING TO WORKING PRESSURE DKM/CP NO-DA

Minimum control pressure according to working pressure with EPDM/FPM diaphragm



FUNCTIONAL CHARACTERISTICS

	Double-acting (DA)		Single-acting (SA)
Function type	double-acting	normally closed (NC)	normally open (NO)
Valve opening	air	air	spring
Valve closing	air	spring	air

ACTUATOR CAPACITY

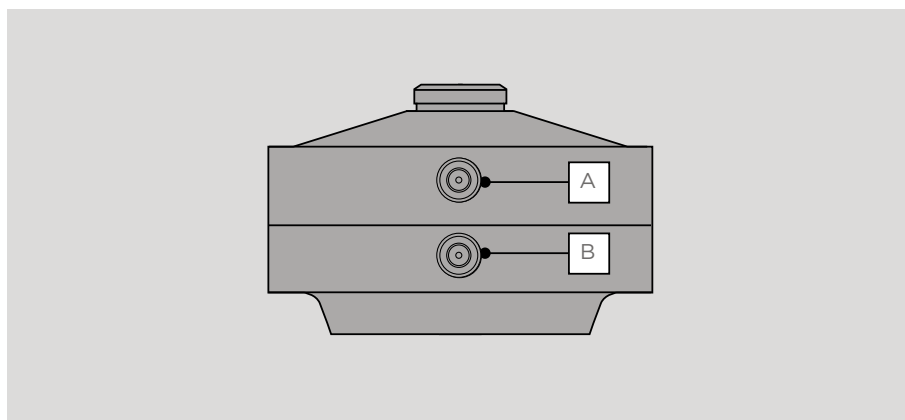
NI: Normal-liter

Volume at atmospheric pressure

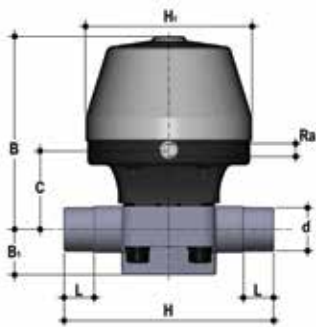
DN	40	50	65
NC	0.36 NI	1.15 NI	1.15 NI
NO	0.28 NI	0.50 NI	0.50 NI
DA	0.28 NI	0.50 NI	0.50 NI

COMPRESSED AIR CONNECTIONS

Function type	Normally open (NO)	Double-acting (DA)
Valve opening	-	Inlet B
Valve closing	Inlet A	Inlet A



DIMENSIONS



DKMDV/CP DKMDC/CP DKMDM/CP DKMDF/CP

Pneumatically actuated diaphragm valve, Normally Closed, with male ends, metric series PVC-U, PVC-C, PP-H, PVDF

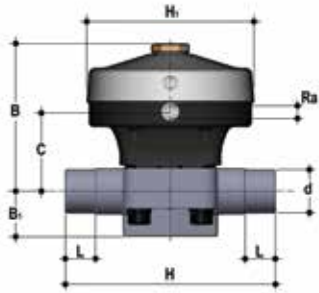
d	DN	PN	B	B ₁	C	H	H ₁	L	Ra	g NC
50	40	10	202	35	96	194	155	31	1/4"	3900
63	50	10	254	46	113	224	210	38	1/4"	7724
75	65	10	254	46	113	284	210	44	1/4"	7854

Figures for PVC-U version

DKM/CP NC Codes

d	DN	DKMDV/CP PVC-U						DKMDC/CP PVC-C		
		EPDM	FPM	PTFE	EPDM	FPM	PTFE	EPDM	FPM	PTFE
50	40	DKMDVNC050E	DKMDVNC050F	DKMDVNC050P	DKMDCNC050E	DKMDCNC050F	DKMDCNC050P	DKMDCNC050E	DKMDCNC050F	DKMDCNC050P
63	50	DKMDVNC063E	DKMDVNC063F	DKMDVNC063P	DKMDCNC063E	DKMDCNC063F	DKMDCNC063P	DKMDCNC063E	DKMDCNC063F	DKMDCNC063P
75	65	DKMDVNC075E	DKMDVNC075F	DKMDVNC075P	DKMDCNC075E	DKMDCNC075F	DKMDCNC075P	DKMDCNC075E	DKMDCNC075F	DKMDCNC075P

d	DN	DKMDM/CP PP-H						DKMDF/CP PVDF		
		EPDM	FPM	PTFE	EPDM	FPM	PTFE	EPDM	FPM	PTFE
50	40	DKMDMNC050E	DKMDMNC050F	DKMDMNC050P	DKMDFNC050E	DKMDFNC050F	DKMDFNC050P	DKMDFNC050E	DKMDFNC050F	DKMDFNC050P
63	50	DKMDMNC063E	DKMDMNC063F	DKMDMNC063P	DKMDFNC063E	DKMDFNC063F	DKMDFNC063P	DKMDFNC063E	DKMDFNC063F	DKMDFNC063P
75	65	DKMDMNC075E	DKMDMNC075F	DKMDMNC075P	DKMDFNC075E	DKMDFNC075F	DKMDFNC075P	DKMDFNC075E	DKMDFNC075F	DKMDFNC075P



DKMDV/CP DKMDC/CP DKMDM/CP DKMDF/CP

Pneumatically actuated diaphragm valve, Normally Open - Double-Acting, with male ends, metric series PVC-U, PVC-C, PP-H, PVDF

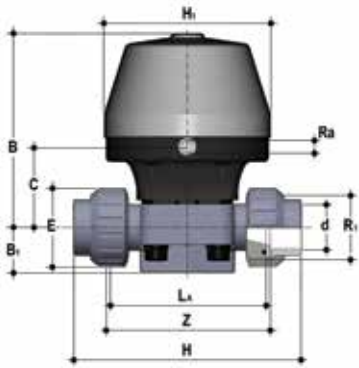
d	DN	PN	B	B ₁	C	H	H ₁	L	Ra	^g NO-DA
50	40	10	160	35	94	194	155	31	1/4"	3320
63	50	10	200	46	123	224	218	38	1/4"	5624
75	65	10	200	46	123	284	218	44	1/4"	5754

Figures for PVC-U version

DKM/CP NO-DA Codes

d	DN	DKMDV/CP PVC-U						DKMDC/CP PVC-C	
		EPDM	FPM	PTFE	EPDM	FPM	PTFE		
50	40	DKMDVNO050E	DKMDVNO050F	DKMDVNO050P	DKMDCNO050E	DKMDCNO050F	DKMDCNO050P		
63	50	DKMDVNO063E	DKMDVNO063F	DKMDVNO063P	DKMDCNO063E	DKMDCNO063F	DKMDCNO063P		
75	65	DKMDVNO075E	DKMDVNO075F	DKMDVNO075P	DKMDCNO075E	DKMDCNO075F	DKMDCNO075P		

d	DN	DKMDM/CP PP-H			DKMDF/CP PVDF		
		EPDM	FPM	PTFE	EPDM	FPM	PTFE
50	40	DKMDMNO050E	DKMDMNO050F	DKMDMNO050P	DKMDFNO050E	DKMDFNO050F	DKMDFNO050P
63	50	DKMDMNO063E	DKMDMNO063F	DKMDMNO063P	DKMDFNO063E	DKMDFNO063F	DKMDFNO063P
75	65	DKMDMNO075E	DKMDMNO075F	DKMDMNO075P	DKMDFNO075E	DKMDFNO075F	DKMDFNO075P



DKMUIV/CP DKMUIC/CP DKMUIM/CP DKMUIF/CP

Pneumatically actuated diaphragm valve, Normally Closed, with female union ends, metric series PVC-U, PVC-C, PP-H, PVDF

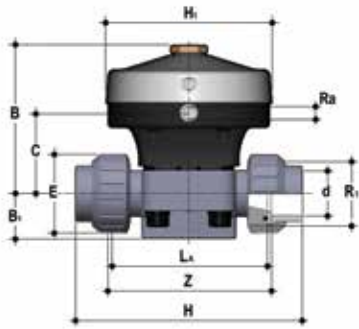
d	DN	PN	B	B ₁	C	E	H	H ₁	La	R ₁	R _a	Z	g NC
50	40	10	202	35	96	79	222	155	154	2" 1/4	1/4"	160	4112
63	50	10	254	46	113	98	266	210	184	2" 3/4	1/4"	190	8120

Figures for PVC-U version

DKM/CP NC Codes

d	DN	DKMUIV/CP PVC-U				DKMUIC/CP PVC-C			
		EPDM	FPM	PTFE	EPDM	FPM	PTFE		
50	40	DKMUIVNC050E	DKMUIVNC050F	DKMUIVNC050P	DKMUICNC050E	DKMUICNC050F	DKMUICNC050P		
63	50	DKMUIVNC063E	DKMUIVNC063F	DKMUIVNC063P	DKMUICNC063E	DKMUICNC063F	DKMUICNC063P		

d	DN	DKMUIM/CP PP-H				DKMUIF/CP PVDF			
		EPDM	FPM	PTFE	EPDM	FPM	PTFE		
50	40	DKMUIMNC050E	DKMUIMNC050F	DKMUIMNC050P	DKMUIFNC050E	DKMUIFNC050F	DKMUIFNC050P		
63	50	DKMUIMNC063E	DKMUIMNC063F	DKMUIMNC063P	DKMUIFNC063E	DKMUIFNC063F	DKMUIFNC063P		



DKMUIV/CP DKMUIC/CP DKMUIM/CP DKMUIF/CP

Pneumatically actuated diaphragm valve, Normally Open - Double-Acting, with female union ends, metric series PVC-U, PVC-C, PP-H, PVDF

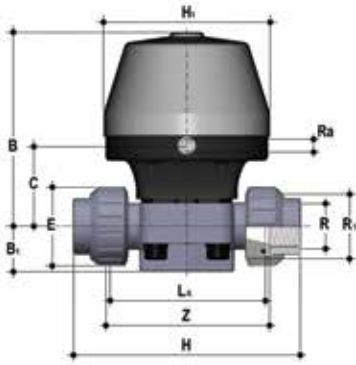
d	DN	PN	B	B ₁	C	E	H	H ₁	La	R ₁	R _a	Z	^g NO-DA
50	40	10	160	35	94	79	222	155	154	2" 1/4	1/4"	160	3532
63	50	10	200	46	123	98	266	218	184	2" 3/4	1/4"	190	6020

Figures for PVC-U version

DKM/CP NO-DA Codes

d	DN	DKMUIV/CP PVC-U				DKMUIC/CP PVC-C		
		EPDM	FPM	PTFE	EPDM	FPM	PTFE	
50	40	DKMUIVNO050E	DKMUIVNO050F	DKMUIVNO050P	DKMUICNO050E	DKMUICNO050F	DKMUICNO050P	
63	50	DKMUIVNO063E	DKMUIVNO063F	DKMUIVNO063P	DKMUICNO063E	DKMUICNO063F	DKMUICNO063P	

d	DN	DKMUIM/CP PP-H			DKMUIF/CP PVDF		
		EPDM	FPM	PTFE	EPDM	FPM	PTFE
50	40	DKMUIMNO050E	DKMUIMNO050F	DKMUIMNO050P	DKMUIFNO050E	DKMUIFNO050F	DKMUIFNO050P
63	50	DKMUIMNO063E	DKMUIMNO063F	DKMUIMNO063P	DKMUIFNO063E	DKMUIFNO063F	DKMUIFNO063P



DKMUFC/CP

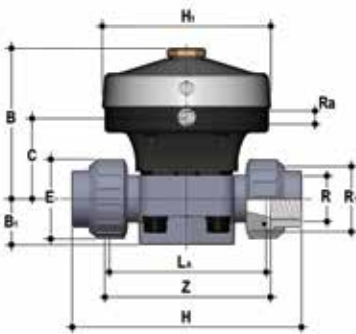
Pneumatically actuated diaphragm valve, Normally Closed, with BSP threaded female union ends, PVC-U, PVC-C series

R	DN	PN	B	B ₁	C	E	H	H ₁	La	R ₁	R _a	Z	^g NC
1" 1/2	40	10	202	35	96	79	208	155	154	2" 1/4	1/4"	165	4112
2"	50	10	254	46	113	98	246	210	184	2" 3/4	1/4"	195	8120

Figures for PVC-U version

DKM/CP NC Codes

R	DN	DKMUFC/CP PVC-U			DKMUFC/CP PVC-C		
		EPDM	FPM	PTFE	EPDM	FPM	PTFE
1" 1/2	40	DKMUFCNC112E	DKMUFCNC112F	DKMUFCNC112P	DKMUFCNC112E	DKMUFCNC112F	DKMUFCNC112P
2"	50	DKMUFCNC200E	DKMUFCNC200F	DKMUFCNC200P	DKMUFCNC200E	DKMUFCNC200F	DKMUFCNC200P



DKMUFC/CP

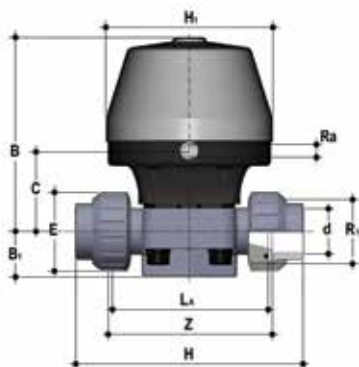
Pneumatically actuated diaphragm valve, Normally Open - Double-Acting, with BSP threaded female union ends, PVC-U, PVC-C series

R	DN	PN	B	B ₁	C	E	H	H ₁	La	R ₁	R _a	Z	^g NO-DA
1" 1/2	40	10	160	35	94	79	208	155	154	2" 1/4	1/4"	165	3532
2"	50	10	200	46	123	98	246	218	184	2" 3/4	1/4"	195	6020

Figures for PVC-U version

DKM/CP NO-DA Codes

R	DN	DKMUFC/CP PVC-U			DKMUFC/CP PVC-C		
		EPDM	FPM	PTFE	EPDM	FPM	PTFE
1" 1/2	40	DKMUFCNO112E	DKMUFCNO112F	DKMUFCNO112P	DKMUFCNO112E	DKMUFCNO112F	DKMUFCNO112P
2"	50	DKMUFCNO200E	DKMUFCNO200F	DKMUFCNO200P	DKMUFCNO200E	DKMUFCNO200F	DKMUFCNO200P



DKMUAV/CP DKMUAC/CP

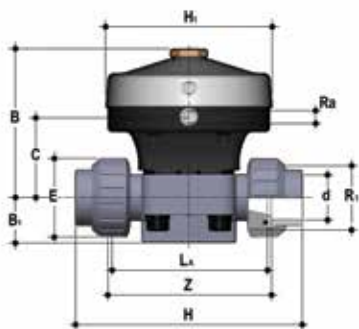
Pneumatically actuated diaphragm valve, Normally Closed, with female union ends for solvent welding, ASTM PVC-U, PVC-C series

d	DN	PN	B	B ₁	C	E	H	H ₁	La	R ₁	R _a	Z	g _{NC}
1" 1/2	40	10	202	35	96	79	234	155	154	2" 1/4	1/4"	164	4112
2"	50	10	254	46	113	98	272	210	184	2" 3/4	1/4"	195	8120

Figures for PVC-U version

DKM/CP NC Codes

d	DN	DKMUAV/CP PVC-U			DKMUAC/CP PVC-C		
		EPDM	FPM	PTFE	EPDM	FPM	PTFE
1" 1/2	40	DKMUAVNC112E	DKMUAVNC112F	DKMUAVNC112P	DKMUACNC112E	DKMUACNC112F	DKMUACNC112P
2"	50	DKMUAVNC200E	DKMUAVNC200F	DKMUAVNC200P	DKMUACNC200E	DKMUACNC200F	DKMUACNC200P



DKMUAV/CP DKMUAC/CP

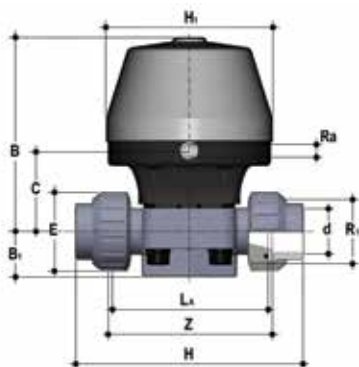
Pneumatically actuated diaphragm valve, Normally Open - Double-Acting, with female union ends for solvent welding, ASTM PVC-U, PVC-C series

d	DN	PN	B	B ₁	C	E	H	H ₁	La	R ₁	R _a	Z	g _{NO-DA}
1" 1/2	40	10	160	35	94	79	234	155	154	2" 1/4	1/4"	164	3532
2"	50	10	200	46	123	98	272	218	184	2" 3/4	1/4"	195	6020

Figures for PVC-U version

DKM/CP NO-DA Codes

d	DN	DKMUAV/CP PVC-U			DKMUAC/CP PVC-C		
		EPDM	FPM	PTFE	EPDM	FPM	PTFE
1" 1/2	40	DKMUAVNO112E	DKMUAVNO112F	DKMUAVNO112P	DKMUACNO112E	DKMUACNO112F	DKMUACNO112P
2"	50	DKMUAVNO200E	DKMUAVNO200F	DKMUAVNO200P	DKMUACNO200E	DKMUACNO200F	DKMUACNO200P



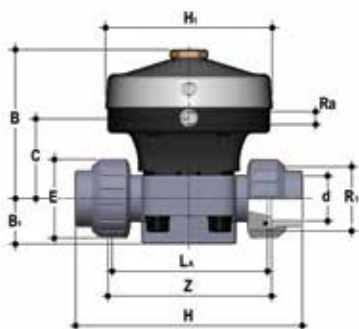
DKMULV/CP

Pneumatically actuated diaphragm valve, Normally Closed, with female union ends for solvent welding, ASTM PVC-U series

d	DN	PN	B	B ₁	C	E	H	H ₁	La	R ₁	R _a	Z	g _{NC}
1" 1/2	40	10	202	35	96	79	222	155	154	2" 1/4	1/4"	162	4112
2"	50	10	254	46	113	98	266	210	184	2" 3/4	1/4"	194	8120

DKM/CP NC Codes

d	DN	EPDM	FPM	DKMULV/CP PVC-U PTFE
1" 1/2	40	DKMULVNC112E	DKMULVNC112F	DKMULVNC112P
2"	50	DKMULVNC200E	DKMULVNC200F	DKMULVNC200P



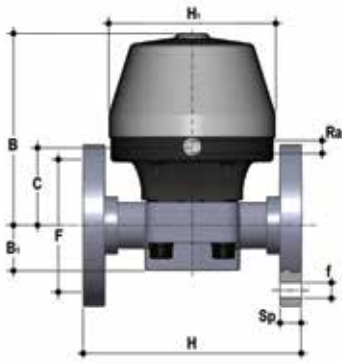
DKMULV/CP

Pneumatically actuated diaphragm valve, Normally Open - Double-Acting, with female union ends for solvent welding, PVC-U series

d	DN	PN	B	B ₁	C	E	H	H ₁	La	R ₁	R _a	Z	g _{NO-DA}
1" 1/2	40	10	160	35	94	79	222	155	154	2" 1/4	1/4"	222	3532
2"	50	10	200	46	123	98	266	218	184	2" 3/4	1/4"	266	6020

DKM/CP NO-DA Codes

d	DN	EPDM	FPM	DKMULV/CP PVC-U PTFE
1" 1/2	40	DKMULVNO112E	DKMULVNO112F	DKMULVNO112P
2"	50	DKMULVNO200E	DKMULVNO200F	DKMULVNO200P



DKMOV/CP DKMOC/CP DKMOM/CP DKMOF/CP

Pneumatically actuated diaphragm valve, Normally Closed, with a monolithic flanged body, drilled PN10/16. Face to face according to EN 558-1 PVC-U, PVC-C, PP-H, PVDF

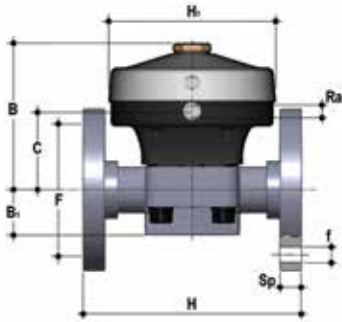
d	DN	PN	B	B ₁	C	F	Øf	H	H ₁	Ra	U	Sp	g NC
50	40	10	202	35	96	110	18	200	155	1/4"	4	16	4475
63	50	10	254	46	113	125	18	230	210	1/4"	4	16	8494
75	65	10	254	46	113	145	18	290	210	1/4"	4	21	8954

Figures for PVC-U version

DKM/CP NC Codes

d	DN	DKMOV/CP PVC-U			DKMOC/CP PVC-C		
		EPDM	FPM	PTFE	EPDM	FPM	PTFE
50	40	DKMOVNC050E	DKMOVNC050F	DKMOVNC050P	DKMOCNC050E	DKMOCNC050F	DKMOCNC050P
63	50	DKMOVNC063E	DKMOVNC063F	DKMOVNC063P	DKMOCNC063E	DKMOCNC063F	DKMOCNC063P
75	65	DKMOVNC075E	DKMOVNC075F	DKMOVNC075P	DKMOCNC075E	DKMOCNC075F	DKMOCNC075P

d	DN	DKMOM/CP PP-H			DKMOF/CP PVDF		
		EPDM	FPM	PTFE	EPDM	FPM	PTFE
50	40	DKMOMNC050E	DKMOMNC050F	DKMOMNC050P	DKMOFNC050E	DKMOFNC050F	DKMOFNC050P
63	50	DKMOMNC063E	DKMOMNC063F	DKMOMNC063P	DKMOFNC063E	DKMOFNC063F	DKMOFNC063P
75	65	DKMOMNC075E	DKMOMNC075F	DKMOMNC075P	DKMOFNC075E	DKMOFNC075F	DKMOFNC075P



DKMOV/CP DKMOC/CP DKMOM/CP DKMOF/CP

Pneumatically actuated diaphragm valve, Normally Open - Double-Acting, with a monolithic flanged body, drilled PN10/16. Face to face according to EN 558-1 PVC-U, PVC-C, PP-H, PVDF

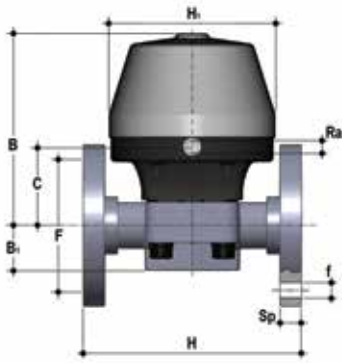
d	DN	PN	B	B ₁	C	F	Øf	H	H ₁	Ra	U	Sp	^g NO-DA
50	40	10	160	35	94	110	18	200	155	1/4"	4	16	3895
63	50	10	200	46	123	125	18	230	218	1/4"	4	16	6394
75	65	10	200	46	123	145	18	290	218	1/4"	4	21	6854

Figures for PVC-U version

DKM/CP NO-DA Codes

d	DN	DKMOV/CP PVC-U			DKMOC/CP PVC-C		
		EPDM	FPM	PTFE	EPDM	FPM	PTFE
50	40	DKMOVNO050E	DKMOVNO050F	DKMOVNO050P	DKMOCNO050E	DKMOCNO050F	DKMOCNO050P
63	50	DKMOVNO063E	DKMOVNO063F	DKMOVNO063P	DKMOCNO063E	DKMOCNO063F	DKMOCNO063P
75	65	DKMOVNO075E	DKMOVNO075F	DKMOVNO075P	DKMOCNO075E	DKMOCNO075F	DKMOCNO075P

d	DN	DKMOM/CP PP-H			DKMOF/CP PVDF		
		EPDM	FPM	PTFE	EPDM	FPM	PTFE
50	40	DKMOMNO050E	DKMOMNO050F	DKMOMNO050P	DKMOFNO050E	DKMOFNO050F	DKMOFNO050P
63	50	DKMOMNO063E	DKMOMNO063F	DKMOMNO063P	DKMOFNO063E	DKMOFNO063F	DKMOFNO063P
75	65	DKMOMNO075E	DKMOMNO075F	DKMOMNO075P	DKMOFNO075E	DKMOFNO075F	DKMOFNO075P



DKMOAV/CP DKMOAC/CP DKMOAM/CP DKMOAF/CP

Pneumatically actuated diaphragm valve, Normally Closed, with a monolithic flanged body, drilled ANSI B16.5 cl. 150 #FF. Face to face according to EN 558-1 PVC-U, PVC-C, PP-H, PVDF

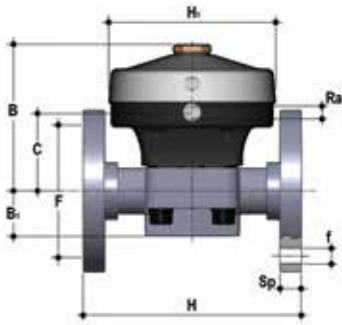
Size	DN	PN	B	B ₁	C	F	Øf	H	H ₁	Ra	U	Sp	g NC
1" 1/2	40	10	202	35	96	98.4	15.9	180	155	1/4"	4	16	4475
2"	50	10	254	46	113	120.7	19.1	210	210	1/4"	4	16	8494
2" 1/2	65	10	254	46	113	139.7	19.1	250	210	1/4"	4	21	8954

Figures for PVC-U version

DKM/CP NC Codes

Size	DN	DKMOAV/CP PVC-U			DKMOAC/CP PVC-C		
		EPDM	FPM	PTFE	EPDM	FPM	PTFE
1" 1/2	40	DKMOAVNC112E	DKMOAVNC112F	DKMOAVNC112P	DKMOACNC112E	DKMOACNC112F	DKMOACNC112P
2"	50	DKMOAVNC200E	DKMOAVNC200F	DKMOAVNC200P	DKMOACNC200E	DKMOACNC200F	DKMOACNC200P
2" 1/2	65	DKMOAVNC212E	DKMOAVNC212F	DKMOAVNC212P	DKMOACNC212E	DKMOACNC212F	DKMOACNC212P

Size	DN	DKMOAM/CP PP-H			DKMOAF/CP PVDF		
		EPDM	FPM	PTFE	EPDM	FPM	PTFE
1" 1/2	40	DKMOAMNC112E	DKMOAMNC112F	DKMOAMNC112P	DKMOAFNC112E	DKMOAFNC112F	DKMOAFNC112P
2"	50	DKMOAMNC200E	DKMOAMNC200F	DKMOAMNC200P	DKMOAFNC200E	DKMOAFNC200F	DKMOAFNC200P
2" 1/2	65	DKMOAMNC212E	DKMOAMNC212F	DKMOAMNC212P	DKMOAFNC212E	DKMOAFNC212F	DKMOAFNC212P



DKMOAV/CP DKMOAC/CP DKMOAM/CP DKMOAF/CP

Pneumatically actuated diaphragm valve, Normally Open - Double-Acting, with a monolithic flanged body, drilled ANSI B16.5 cl. 150 #FF. Face to face according to EN 558-1 PVC-U, PVC-C, PP-H, PVDF

Size	DN	PN	B	B ₁	C	F	Øf	H	H ₁	Ra	U	Sp	^g NO-DA
1" 1/2	40	10	160	35	94	98.4	15.9	180	155	1/4"	4	16	3895
2"	50	10	200	46	123	120.7	19.1	210	218	1/4"	4	16	6394
2" 1/2	65	10	200	46	123	139.7	19.1	250	218	1/4"	4	21	6854

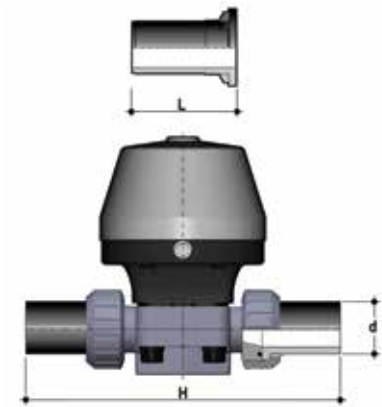
Figures for PVC-U version

DKM/CP NO-DA Codes

Size	DN	DKMOAV/CP PVC-U			DKMOAC/CP PVC-C		
		EPDM	FPM	PTFE	EPDM	FPM	PTFE
1" 1/2	40	DKMOAVNO112E	DKMOAVNO112F	DKMOAVNO112P	DKMOACNO112E	DKMOACNO112F	DKMOACNO112P
2"	50	DKMOAVNO200E	DKMOAVNO200F	DKMOAVNO200P	DKMOACNO200E	DKMOACNO200F	DKMOACNO200P
2" 1/2	65	DKMOAVNO212E	DKMOAVNO212F	DKMOAVNO212P	DKMOACNO212E	DKMOACNO212F	DKMOACNO212P

Size	DN	DKMOAM/CP PP-H			DKMOAF/CP PVDF		
		EPDM	FPM	PTFE	EPDM	FPM	PTFE
1" 1/2	40	DKMOAMNO112E	DKMOAMNO112F	DKMOAMNO112P	DKMOAFNO112E	DKMOAFNO112F	DKMOAFNO112P
2"	50	DKMOAMNO200E	DKMOAMNO200F	DKMOAMNO200P	DKMOAFNO200E	DKMOAFNO200F	DKMOAFNO200P
2" 1/2	65	DKMOAMNO212E	DKMOAMNO212F	DKMOAMNO212P	DKMOAFNO212E	DKMOAFNO212F	DKMOAFNO212P

ACCESSORIES



Q/BBE-L

Long spigot PE100 end connectors for electrofusion or butt welding

d	DN	L	H	SDR	Code
50	40	95	344	11	QBBEL11050
63	50	95	374	11	QBBEL11063

Q/BBM-L

Long spigot PP-H end connectors for butt welding

d	DN	L	H	SDR	Code
50	40	95	344	11	QBBML11050
63	50	95	374	11	QBBML11063

Q/BBM-C

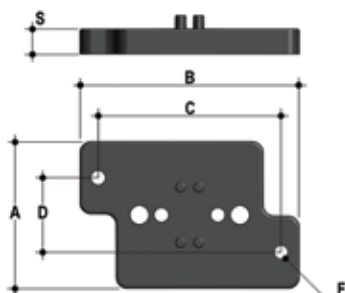
Short spigot PP-H end connectors for butt welding

d	DN	L	H	SDR	Code
50	40	55	264	11	QBBMC11050
63	50	55	294	11	QBBMC11063

Q/BBF-L

Long spigot PVDF end connectors for butt welding

d	DN	L	H	SDR	Code
50	40	95	344	21	QBBFL21050
63	50	95	374	21	QBBFL21063



PMDK

Wall mounting plate

d	DN	A	B	C	D	F	S	Code
50	40	65	144	130	33	6.5	11	PMDK2
63	50	65	144	130	33	6.5	11	PMDK2
75	65	65	144	130	33	6.5	11	PMDK2

FASTENING AND SUPPORTING

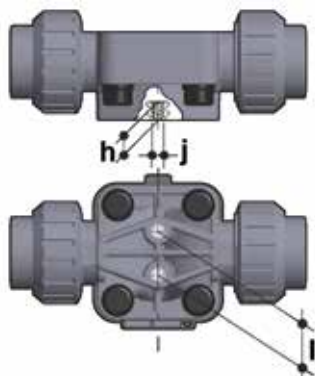


All valves, whether manual or actuated, must be adequately supported in many applications.

The DK valve series is therefore provided with an integrated bracket that permits direct anchoring of the valve body without the need of other components.

For wall installation, dedicated PMDK mounting plates which are available as accessories can be used. These plates should be fastened to the valve before wall installation.

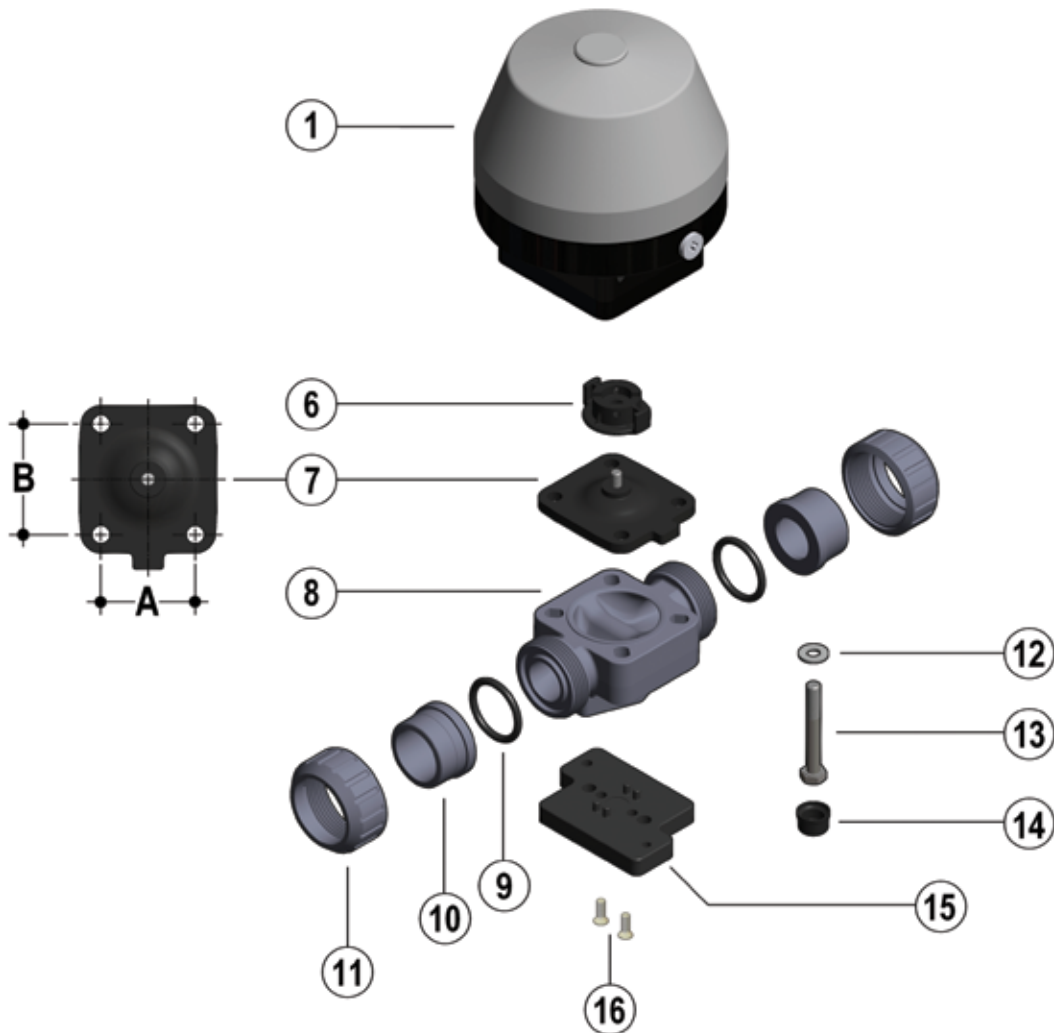
The PMDK plate also allows the DK valve to be aligned with FIP ZIKM pipe clips.



d	DN	h	l	j
50	40	13	44,5	M8
63	50	13	44,5	M8
75	65	13	44,5	M8

COMPONENTS

EXPLODED VIEW DKM/CP-NC DN 40÷65



DN	40	50	65
A	65	78	78
B	70	82	82

1. Actuator (PP-GR - 1)*

6. Compressor (IXEF® - 1)

7. Diaphragm seal (EPDM, FPM, PTFE - 1)*

8. Valve body (PVC-U, PVCC, PPH, PVDF - 1)*

9. Socket seal O-ring (EPDM-FPM - 2)*

10. End connector (PVC-U, PVCC, PPH, PVDF - 2)*

11. Union nut (PVC-U, PVCC, PPH, PVDF - 2)*

12. Washer (Stainless steel - 4)

13. Bolt (Stainless steel - 4)

14. Protection plug (PE - 4)

15. Distance plate (PP-GR - 1)**

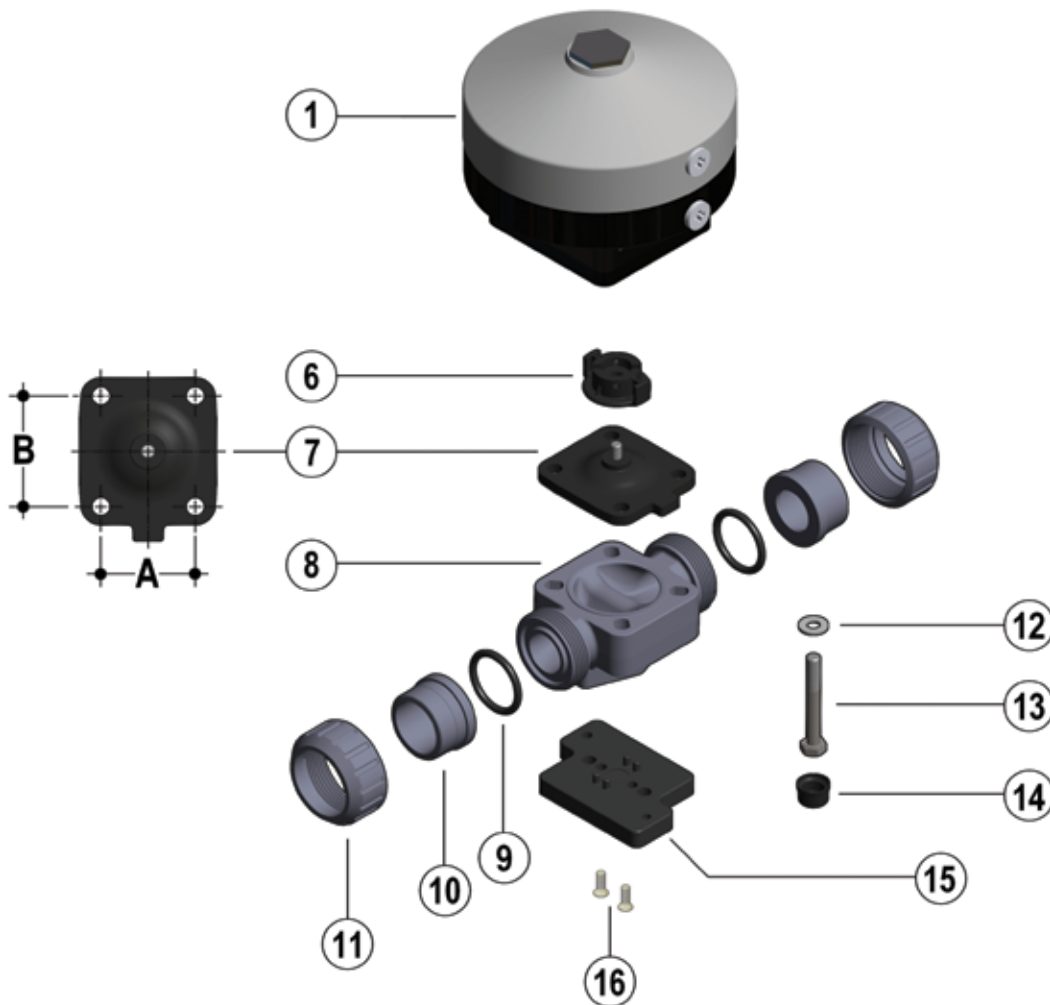
16. Screw (Stainless steel - 2)**

* Spare parts

** Accessories

The material of the component and the quantity supplied are indicated between brackets

EXPLODED VIEW DKM/CP-NO-DA DN 40÷65



DN	40	50	65
A	65	78	78
B	70	82	82

1 · Actuator (PP-GR - 1)*

6 · Compressor (IXEF® - 1)

7 · Diaphragm seal (EPDM, FPM, PTFE - 1)*

8 · Valve body (PVC-U, PVCC, PPH, PVDF - 1)*

9 · Socket seal O-ring (EPDM-FPM - 2)*

10 · End connector (PVC-U, PVCC, PPH, PVDF - 2)*

11 · Union nut (PVC-U, PVCC, PPH, PVDF - 2)*

12 · Washer (Stainless steel - 4)

13 · Bolt (Stainless steel - 4)

14 · Protection plug (PE - 4)

15 · Distance plate (PP-GR - 1)**

16 · Screw (Stainless steel - 2)**

* Spare parts

** Accessories

The material of the component and the quantity supplied are indicated between brackets

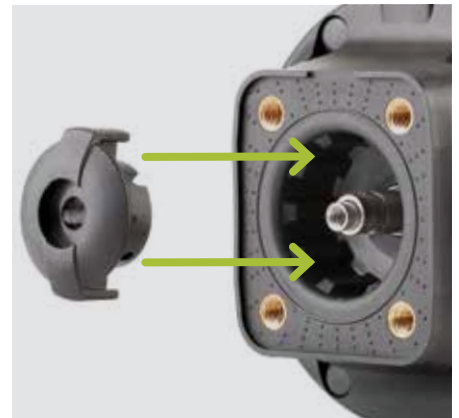
DISASSEMBLY

- 1) Isolate the valve from the line (release the pressure and empty the pipeline).
- 2) Open the valve with compressed air (NC-DA) to drain any residual liquid from the valve.
- 3) Disconnect the valve from the pneumatic and electrical connections.
- 4) Fully unscrew the union nuts (11) and extract the valve sideways.
- 5) Remove the protection plugs (14) and bolts (13) with the relative washers (12). This operation will be made easier if the actuator is pressurised (NC).
- 6) Separate the valve body (8) from the actuator (1).
- 7) Unscrew the diaphragm (7) and remove the compressor (6). This operation will be made easier if the actuator is not pressurised (NC).

ASSEMBLY

- 1) Insert the compressor (6) on the actuator stem (1) aligning it correctly in its housing (fig. 1).
- 2) Screw the diaphragm (7) onto the stem, aligning it correctly with its housing on the actuator.
- 3) Fit the actuator (1) on the valve body (8) and tighten the bolts (13) with the relative washers (12). This operation will be made easier if the actuator is pressurised (NC).
- 4) Tighten the bolts (13) evenly (diagonally) to the tightening torque suggested on the relative instruction sheet.
- 5) Replace the protection plugs (14)
- 6) Position the valve between the end connectors (10) and tighten the union nuts (11), making sure that the socket seal O-rings (9) do not exit their seats.
- 7) Reconnect the valve to the pneumatic and electrical connections

Fig. 1



Note: All operations on equipment under pressure or containing compressed springs must be carried out under safe conditions for the operator.

INSTALLATION

Before proceeding with installation, please follow these instructions carefully: (these instructions refer to union end versions). The valve can be installed in any position and in any direction.

- 1) Check that the pipes to be connected to the valve are aligned in order to avoid mechanical stress on the threaded joints.
- 2) Unscrew the union nuts (11) and insert them on the pipe segments.
- 3) Solvent weld or screw the end connectors (10) onto the pipe ends.
- 4) Position the valve body between the end connectors, making sure that the socket seal O-rings (9) do not exit their seats.
- 5) Fully tighten the union nuts (11).
- 6) If necessary, support the pipework with FIP pipe clips or by means of the carrier built into the valve itself (see paragraph "Fastening and supporting").
- 7) Connect the compressed air as indicated in paragraph "Compressed air connections". For valves with electric accessories, refer to the specific technical manual supplied with the accessory.



Note: before putting the valve into service, check that the bolts on the valve body (8) are tightened correctly at the suggested torque.



**Valvola a membrana a comando
pneumatico, NC**

**Pneumatically actuated diaphragm
valve, NC**

**Vanne à membrane à commande
pneumatique, NC**

**Pneumatisch gesteuertes
Membranventil, NC**

VM/NC



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Valvola a membrana a comando pneumatico, NC

La VM/NC è una valvola dotata di un attuatore a membrana a semplice effetto normalmente chiuso che non richiede manutenzione.

Il vantaggio della valvola a membrana rispetto ad altri sistemi è la semplicità di funzionamento, unitamente al design compatto.

Può venire installata in qualsiasi posizione e può essere impiegata con fluidi liquidi o gassosi; inoltre è particolarmente adatta per fluidi abrasivi o contenenti impurità.

Con questo tipo di valvola vengono ridotti al minimo i rischi di colpo d'ariete.

L'innovativo sistema di tenuta CDSA - Circular Diaphragm Sealing Area - utilizzato fino al DN50, offre, inoltre, i seguenti vantaggi:

- distribuzione uniforme della pressione dell'otturatore sulla membrana di tenuta
 - diminuzione fino al 20% della coppia di serraggio delle viti che fissano il corpo valvola all'attuatore
 - minore stress meccanico per tutti i componenti della valvola (attuatore, corpo e membrana)
 - facilità di pulizia delle zone interne della valvola
 - minimizzazione del rischio di accumulo di depositi, contaminazione o danneggiamento della membrana a causa di fenomeni di cristallizzazione
 - riduzione della coppia di manovra fino al 40%
- La speciale membrana in fibra tessile dell'attuatore, permette di aprire/chiedere fino a 10⁶ volte senza mostrare segni di usura.

PECULIARITÀ

- gamma dimensionale da DN 15 mm a DN 100 mm
- costruzione robusta con attuatore adatto ad ambienti chimicamente aggressivi
- possibilità di allineare sul medesimo asse di centro tubo tutti i corpi valvola dal DN 15 al DN 50
- sospensione flottante della membrana, per evitare carichi concentrati ed aumentarne la tenuta e la durata
- tenuta superiore membrana completamente circolare (CDSA).

ACCESSORI

- limitatore di corsa
- limitatore di corsa con indicatore visivo di posizione
- limitatore di corsa con indicatore di posizione e comando manuale di emergenza
- indicatore visivo di posizione
- microinterruttori di fine corsa
- posizionatore elettropneumatico
- elettrovalvola pilota 3/2 vie per montaggio diretto o in batteria

- Per maggiori informazioni visitare il sito: www.fipnet.it

Pneumatically actuated diaphragm valve, NC

The diaphragm valve type VM/NC is equipped with a maintenance free single acting normally closed actuator, diaphragm type.

The advantage of the diaphragm valves, against other types of valves, consists of simplicity in function and compact design.

The diaphragm valve can be installed in any position and it can be used with liquid and gaseous fluids, and is particularly suitable for dirty or abrasive media.

Water hammer risk is reduced with this valve.

The innovative CDSA - Circular Diaphragm Sealing Area - system (up to DN50) offers the following mechanical advantages:

- uniform distribution of the pressure made by the compressor on the sealing diaphragm
 - up to 20% of bolt tightening torque reduction
 - reduced mechanical stress on all valve components (actuator, body and diaphragm)
 - easy internal cleaning
 - lower risk of deposit accumulation, fluid contamination and damaging of the diaphragm due to the eventual crystallization
 - reduction of the closing handwheel torque of the manual valves up to 40%
- The flat, cloth reinforced, neoprene control diaphragm shows little wear and tear after 10⁶ duty cycles.

CHARACTERISTICS

- size range from DN 15 mm up to DN 100 mm
- rugged construction with actuator suitable for use in chemically aggressive environments
- possible alignment of all valve bodies DN15÷50 at the same height from the ground
- floating diaphragm suspension, to prevent point loading in the diaphragm center, for better sealing and endurance
- fully circular top diaphragm sealing (CDSA).

ACCESSORIES

- stroke limiter
- stroke limiter with optical Position indicator
- stroke limiter with optical Position indicator and emergency manual override
- optical position indicator
- limit-switches box
- electro pneumatic positioner
- direct or gang mounting 3/2 way pilot solenoid valve

- For more information please visit our website: www.fipnet.it

Vanne à membrane à commande pneumatique, NC

La vanne à membrane type VM/NC est équipée d'un actionneur pneumatique normalment fermée qui ne nécessite pas d'entretien.

L'avantage du robinet à membrane, en comparaison avec d'autres types de robinets, réside dans sa simplicité de fonctionnement et sa conception compacte.

Ce robinet est principalement utilisé pour éviter les problèmes de contamination ou pour le transport de fluides abrasifs.

Il peut être installé dans n'importe quelle position et réduit le risque de "coup de bélier".

Le nouveau système CDSA - Circular Diaphragm Sealing Area - utilisé jusqu'au DN50, offre les avantages suivantes:

- distribution uniforme de la pression du compresseur sur la membrane.
 - réduction jusqu'au 20% de la couple de serrage des écrous qui fixent le corps de la vanne à son actuateur
 - réduit stress mécanique pour tous les composants de la vanne (actuateur, corps et membrane)
 - simple nettoyage des parties internes du corps de la vanne
 - réduction du risque d'accumulation de dépôts, de contamination ou de causer des dégâts à la membrane par cristallisation
 - réduction de la couple de serrage jusqu'au 40%
- L'actionneur peut fonctionner jusqu'à 10⁶ cycles sans montrer aucune usure considérable.

CHARACTERISTIQUES

- gamme dimensionnelle de DN 15 mm à DN 100 mm
- construction robuste avec actionneur qui peut être utilisé dans environnements chimiquement agressives
- alignement possible des axes (DN 15-50)
- suspension flottante de la membrane évitant une charge concentrée sur le centre de la membrane, pour une meilleure étanchéité et durée de vie
- étanchéité supérieure de la membrane complètement circulaire (CDSA).

ACCESSOIRES

- limiteur de course
- limiteur de course avec indicateur de position
- limiteur de course avec indicateur de position et commande manuelle de secours
- indicateur de position
- boîtier avec 2 contacts de fin course
- positionneur électropneumatique
- électrovanne de commande 3/2. Montage direct ou en batterie

- Pour avoir d'autres informations, visiter le site: www.fipnet.it

Pneumatisch gesteuertes Membranventil, NC Typ 485

Das Ventil ist durch Federkraft normal geschlossen (NC) und wird durch das Steuermedium geöffnet.

Der glattflächige Antrieb ist wartungsfrei und kann mit neutralen, flüssigen und gasförmigen Steuermedien betrieben werden. Die gewebeverstärkte Steuermembrane ist außen gefasst und für eine hohe Schaltspielzahl ausgelegt.

Das Membranventil wird vorzugsweise für flüssige Medien eingesetzt, die aggressiv, abrasiv, verschmutzt oder breig bis pastös sein können.

Das innovative CDSA-Design - Kreisrundes Membran Dichtsystem (bis DN 50) bietet folgende mechanischen Vorteile:

- Optimale Druckverteilung über das Druckstück auf die abdichtende Membran
- bis zu 20% Reduzierung der Anzugsdrehmomente
- geringere Belastung aller Ventilkomponenten (Antrieb, Ventilkörper und Dichtmembran)
- einfache und effiziente interne Reinigung
- deutlich geringeres Risiko der Ansammlung von Feststoffen und Auskristallisationen, dadurch werden Rekontaminationen und Beschädigung der Membrane reduziert
- Reduzierung der notwendigen Schließkräfte bei handbetätigten Ventilen um bis zu 40%

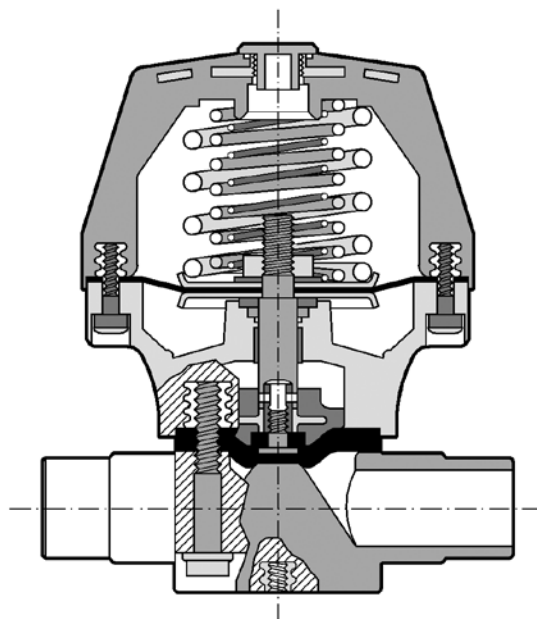
HAUPTMERKMALE

- Größen von DN 15 mm bis DN100 mm
- robuste Bauform mit Antriebsmaterial geeignet für aggressive Atmosphäre - Mittelachsen der Ventilkörper können auf dasselbe Niveau gebracht werden
- flexible Membranaufhängung um punktuelle Anpressung der Mediumsmembrane zu vermeiden
- Konstruktiv bedingte kreisrunde und damit gleichmäßige Membranklemmung (CDSA)

ZUBEHÖR

- Hubbegrenzung
- Hubbegrenzung mit optischer Stellungsanzeige
- Hubbegrenzung mit optischer Stellungsanzeige und Handnothandbetätigung
- optischer Stellungsanzeige
- elektromechanischer Stellungsanzeige Auf und Zu
- elektronischer Stellungsanzeige Auf und Zu
- Elektropneumatischer Stellungsregler
- 3/2 Wege Pilotventil einzeln oder als Anreihventil.

- Für weitere Details schauen Sie auf unsere Website: www.fipnet.it



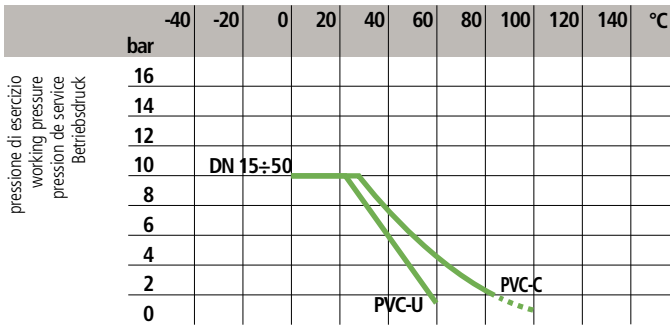
LEGENDA

d	diametro nominale esterno del tubo in mm	d	nominal outside diameter of the pipe in mm	d	diamètre extérieur nominal du tube en mm	d	Rohraußendurchmesser in mm
DN	diametro nominale interno in mm	DN	nominal internal diameter in mm	DN	diamètre intérieur nominal du tube en mm PN	DN	Rohrinnweite in mm
R	dimensione nominale della filettatura in pollici	R	nominal size of the thread in inches	R	dimension nominale du filetage en pouces	R	Gewinde
PN	pressione nominale in bar (pressione max di esercizio a 20°C in acqua)	PN	nominal pressure in bar (max. working pressure at 20°C - water)	PN	pression nominale en bar (pression de service max à 20°C- eau)	PN	Nennndruck; höchstzulässiger Betriebsdruck in bar, bei 20° C Wasser
g	peso in grammi	g	weight in grams	g	poids en grammes	g	Gewicht in Gramm
U	numero dei fori	U	number of holes	U	nombre de trous	U	Anzahl der Schraubenlöcher
PVC-U	cloruro di polivinile rigido	PVC-U	unplasticized polyvinyl chloride	PVC-U	polychlorure de vinyle non plastifié	PVC-U	Polyvinylchlorid hart
PP-H	polipropilene omopolimero	PP-H	polypropylene homopolymer	PP-H	polypropylène homopolymère	PP-H	Polypropylen Homopolimerisat
PP-GR	polipropilene rinforzato fibre di vetro	PP-GR	polypropylene fiber glass reinforced	PP-GR	polypropylène renforcé fibre de verre	PP-GR	Polypropylen glasfaserverstärkt
PVC-C	cloruro di polivinile surclorato	PVC-C	chlorinated polyvinyl chloride	PVC-C	polychlorure de vinyle surchloré	PVC-C	Polyvinylchlorid nachchloriert
PVDF	polifluoruro di vinilidene	PVDF	polyvinylidene fluoride	PVDF	polyfluorure de vinylidène	PVDF	Polyvinylidenfluorid
EPDM	elastomero etilene propilene	EPDM	ethylene propylene rubber	EPDM	élastomère éthylène propylène	EPDM	Ethylenpropylen-dienelastomer
FPM	fluoroelastomero	FPM	vinylidene fluoride rubber	FPM	fluorélastomère de vinylidène	FPM	Fluorelastomer
PTFE	politetrafluoroetilene	PTFE	polytetrafluoroethylene	PTFE	polytétrafluoroéthylène	PTFE	Polytetrafluorethylen
PA-GR	poliammide rinforzato fibre di vetro	PA-GR	polyamid fiber glass reinforced	PA-GR	polyamide renforcé fibre de verre	PA-GR	polyamid glasfaserverstärkt
PE	polietilene	PE	polyethylene	PE	polyéthylène	PE	Polyethylen
NC	normalmente chiusa	NC	normally closed	NC	normalement fermée	NC	Normal Geschlossen

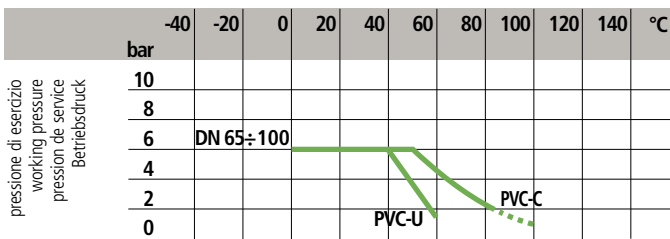
**Dati
Tecnici**

**Technical
Data**

1



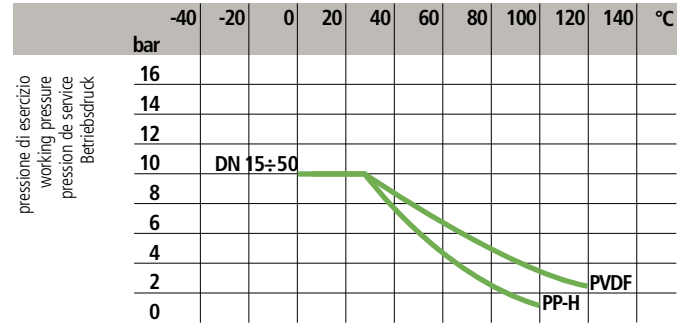
temperatura di esercizio - working temperature
température de service - Betriebstemperatur



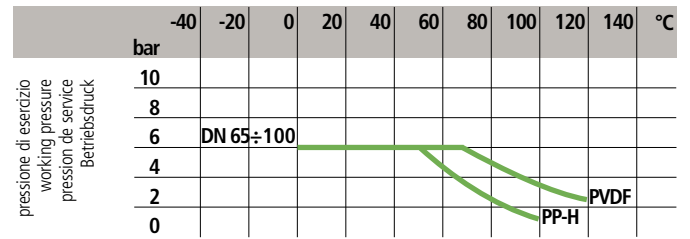
temperatura di esercizio - working temperature
température de service - Betriebstemperatur

**Données
Techniques**

**Technische
Daten**

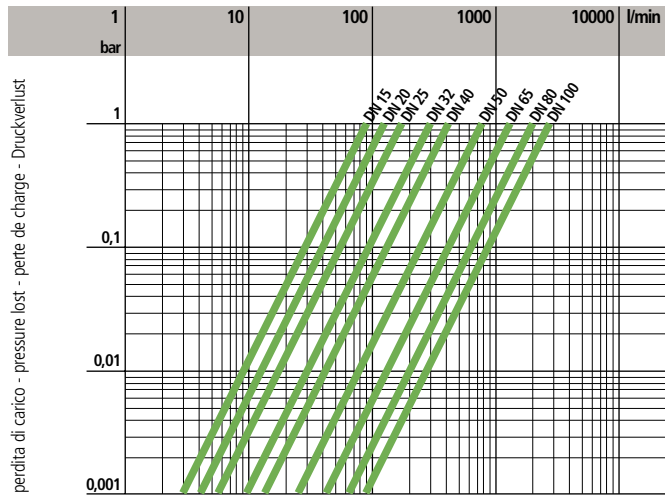


temperatura di esercizio - working temperature
température de service - Betriebstemperatur



temperatura di esercizio - working temperature
température de service - Betriebstemperatur

2



portata - flow rate - débit - Durchflußmenge

1

Variazione della pressione in funzione della temperatura per acqua o fluidi non pericolosi nei confronti dei quali il materiale è classificato CHIMICAMENTE RESISTENTE. In altri casi è richiesta un'adeguata diminuzione della pressione nominale PN. (25 anni con fattore di sicurezza).

Per l'impiego del PVC-C con temperature di esercizio superiori a 90° C, si consiglia di contattare il servizio tecnico.

Pressure/temperature rating for water and harmless fluids to which the material is RESISTANT. In other cases a reduction of the rated PN is required. (25 years with safety factor).

For PVC-C usage with working temperature higher than 90° C please contact the technical service.

Variation de la pression en fonction de la température pour l'eau et les fluides non agressifs pour lequel le matériau est considéré CHIMIQUEMENT RESISTANT. Pour les autres cas une diminution du PN est nécessaire. (25 années avec facteur de sécurité inclus).

Avant d'utiliser le PVC-C à température de service au-dessus de 90° C nous vous prions de contacter le service technique.

Druck/Temperatur-Diagramm für Wasser und ungefährliche Medien gegen die das Material BESTÄNDIG ist. In allen anderen Fällen ist eine entsprechende Reduzierung der Druckstufe erforderlich. (Unter Berücksichtigung des Sicherheitsfaktors für 25 Jahre).

Für Anwendungen von PVC-C mit Betriebstemperaturen höher als 90° C, bitte wenden Sie sich an den technischen Dienst.

2

Diagramma delle perdite di carico

Pressure loss chart

Table de perte de charge

Druckverlust-Diagramm

3

DN	15	20	25	32	40	50	65	80	100
k_{v100}	93	136	175	300	416	766	1300	2000	2700

3

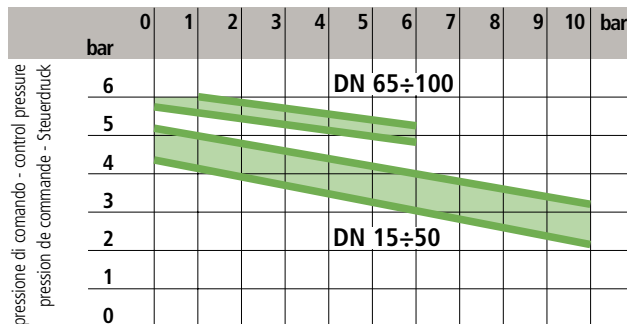
Coefficiente di flusso k_{v100}
Per coefficiente di flusso k_{v100} si intende la portata Q in litri al minuto di acqua a 20°C che genera una perdita di carico $\Delta p = 1$ bar per una determinata posizione della valvola. I valori k_{v100} indicati in tabella si intendono per valvola completamente aperta.

Flow coefficient k_{v100}
 k_{v100} is the number of litres per minute of water at a temperature of 20°C that will flow through the valve with $\Delta p = 1$ bar differential-pressure at a specified position. The k_{v100} values shown in the table are calculated with the valve completely open.

4

Pressione di comando in funzione della pressione di esercizio.

Control pressure relative to working pressure.



4

pressione di esercizio - working pressure
pression de service - Betriebsdruck

Coefficient de débit k_{v100}
 k_{v100} est le nombre de litres d'eau, à une température de 20°C, qui s'écoule en une minute dans une vanne pour une position donnée avec une pression différentielle Δp de 1 bar. Les valeurs k_{v100} indiquées sur la table sont évaluées lorsque le robinet est entièrement ouvert.

k_{v100} – Wert
Der k_{v100} -Wert nennt den Urchsatz in l/min für Wasser bei 20°C und einem Δp von 1 bar bei völlig geöffnetem Ventil.

Pression de commande en fonction de la pression de service.

Steuerdruck je nach Betriebsdruck abhängig.

Pressione di esercizio - Working Pressure - Pression de service - Betriebsdruck	max 10 bar (DN 15÷50) max 6 bar (DN 65÷100)
Pressione di comando - Control pressure - Pression de commande - Steuerdruck	max 6 bar
Funzione di comando - Control function - Fonction de commande - Steuerfunktion	NC
Temperatura del fluido di comando* - Control fluid temperature* Température de le fluid de commande* - Temperatur des Steuemediums*	max 40° C
Capacità attuatore** - Actuator capacity** - Capacité actionneur** - Steuervolumen**	DN 15-25=0.16 NI DN 32-40=0.36 NI DN 50=1.15 NI DN 65-80=2.1 NI DN 100=2.1 NI

* Fluido di comando: usare sia aria filtrata secca che aria lubrificata. (Per utilizzo di altri fluidi consultare il ns. servizio tecnico).

** NI: Normal-litro volume alla pressione atmosferica

* The control fluid: use both dry filtered air and lubricated air (for others fluids please contact out technical service).

** NI: Normal-liter volume et atmosferic pressure

* Le fluide de commande: utiliser de l'air filtré soit sec soit lubrifié (Pour utilisation de autres fluides consulter le bureau technique).

** NI: Normal-litre volume à la pression atmosphérique

* Das Steuermedium soll neutral und sauber sein: Benutzen Sie sowohl filtrierte trockene Luft, als auch befeuchtete Luft. Wenn Sie andere Flüssigkeiten verwenden möchten, fragen Sie bitte unseren technischen Dienst.

** NI: Normale Liter Volumen bei atmosphärischem Druck

Dimensioni

La valvola a membrana VM è disponibile nelle seguenti versioni, i cui attacchi sono in accordo con le seguenti norme:

- Incollaggio PVC-U:
EN ISO 1452, EN ISO 15493, ISO 727, DIN 8062, DIN 8063, ASTM D2467, BS 4346-1, ISO 727-2
- Incollaggio PVC-C:
EN ISO 15493, ISO 727-1, ASTM F439
- Saldatura nel bicchiere PP-H:
EN ISO 15494
- Saldatura nel bicchiere PVDF:
EN ISO 10931
- Filettatura:
ISO 228-1, DIN 2999, ISO 7-1, BS 21, BS 10226
- Flangiatura:
EN ISO 1092-1, EN ISO 1452, EN ISO 15493, EN 558, ISO 7005-1, ASTM ANSI B16.5 CL 150.

Dimensions

The VM diaphragm valve is available in the following versions, whose coupling comply with the following standards:

- Solvent welding PVC-U:
EN ISO 1452, EN ISO 15493, ISO 727, DIN 8062, DIN 8063, ASTM D2467, BS 4346-1, ISO 727-2
- Solvent welding PVC-C:
EN ISO 15493, ISO 727-1, ASTM F439
- Socket fusion PP-H:
EN ISO 15494.
- Socket fusion PVDF:
EN ISO 10931
- Threaded coupling:
ISO 228-1, DIN 2999, ISO 7-1, BS 21, BS 10226
- Flanged couplings:
EN ISO 1092-1, EN ISO 1452, EN ISO 15493, EN 558, ISO 7005-1, ASTM ANSI B16.5 CL 150.

Dimensions

La vanne à membrane VM est disponible dans les suivantes versions, dont les embouts sont conformes aux normes suivantes

- Encollage PVC-U:
EN ISO 1452, EN ISO 15493, ISO 727, DIN 8062, DIN 8063, ASTM D2467, BS 4346-1, ISO 727-2
- Encollage PVC-C:
EN ISO 15493, ISO 727-1, ASTM F439
- Soudure par fusion PP-H:
EN ISO 15494
- Soudure par fusion PVDF:
EN ISO 10931
- Filetage:
ISO 228-1, DIN 2999, ISO 7-1, BS 21, BS 10226
- Brides:
EN ISO 1092-1, EN ISO 1452, EN ISO 15493, EN 558, ISO 7005-1, ASTM ANSI B16.5 CL 150.

Dimensionen

Die VM Membraneventile entsprechen mit ihren Anschlußmöglichkeiten folgenden Normen:

- Klebeanschluß PVC-U:
EN ISO 1452, EN ISO 15493, ISO 727, DIN 8062, DIN 8063, ASTM D2467, BS 4346-1, ISO 727-2
- Klebeanschluß PVC-C:
EN ISO 15493, ISO 727-1, ASTM F439
- Schweißanschluß PP-H:
EN ISO 15494
- Schweißanschluß PVDF:
EN ISO 10931
- Gewindeverbindung:
ISO 228-1, DIN 2999, ISO 7-1, BS 21, BS 10226
- Flanschanschluss:
EN ISO 1092-1, EN ISO 1452, EN ISO 15493, EN 558, ISO 7005-1, ASTM ANSI B16.5 CL 150.

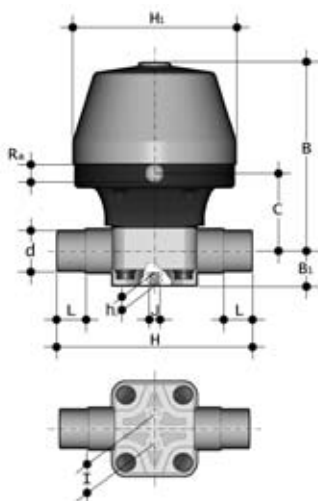
VMDV/NC VMDM/NC VMDF/NC VMDC/NC

VALVOLA A MEMBRANA A COMANDO PNEUMATICO
Normalmente Chiusa
con attacchi maschio, serie metrica
PVC-U, PP-H, PVDF, PVC-C

DIAPHRAGM VALVE
PNEUMATICALLY ACTUATED
Normally Closed
with metric series spigot ends
PVC-U, PP-H, PVDF, PVC-C

VANNE à MEMBRANE
à COMMANDE PNEUMATIQUE
Normalement Fermée
avec embouts mâle série métrique
PVC-U, PP-H, PVDF, PVC-C

MEMBRANVENTIL
PNEUMATISCH GERSTEUERTES
Normal geschlossen
Verschraubung mit Klebestutzen
nach ISO
PVC-U, PP-H, PVDF, PVC-C



d	DN	PN	B	B ₁	C	H	h	H ₁	I	J	L	Ra	g
20	15	10	175	26	66	124	12	126	25	M6	16	1/4"	1850
25	20	10	175	26	66	144	12	126	25	M6	19	1/4"	1850
32	25	10	175	26	66	154	12	126	25	M6	22	1/4"	1850
40	32	10	244	40	103	174	18	155	44,5	M8	26	1/4"	4000
50	40	10	244	40	103	194	18	155	44,5	M8	31	1/4"	4000
63	50	10	292	40	125	224	18	210	44,5	M8	38	1/4"	6950
75	65	6	325	55	187	284	23	258	100	M12	44	1/4"	15000
90	80	6	325	55	187	300	23	258	100	M12	51	1/4"	15500
110	100	6	355	69	268	340	23	258	120	M12	61	1/4"	25500

Tabella relativa al PVC-U

Tables relevant to PVC-U

Tableaux concernant le PVC-U

Tabellen gültig für PVC-U

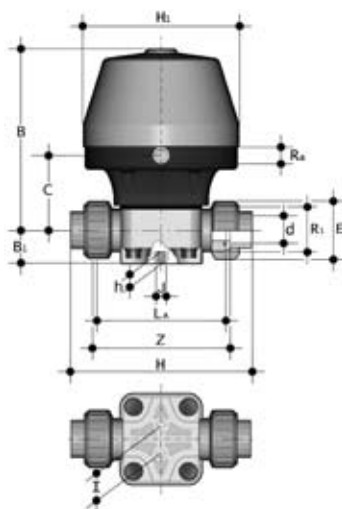
VMUIV/NC VMUIM/NC VMUIF/NC VMUIC/NC

VALVOLA A MEMBRANA
A COMANDO PNEUMATICO
Normalmente Chiusa
con attacchi femmina a bocchettone,
serie metrica
PVC-U, PP-H, PVDF, PVC-C

DIAPHRAGM VALVE
PNEUMATICALLY ACTUATED
Normally Closed
with unionised metric series plain
female ends
PVC-U, PP-H, PVDF, PVC-C

VANNE À MEMBRANE
à COMMANDE PNEUMATIQUE
Normalement Fermée
avec raccordement union femelles
série métrique
PVC-U, PP-H, PVDF, PVC-C

MEMBRANVENTIL
PNEUMATISCH GERSTEUERTES
Normal geschlossen
Verschraubung mit Klebemuffen
nach ISO
PVC-U, PP-H, PVDF, PVC-C



d	DN	PN	B	C	B ₁	H	h	H ₁	I	La	J	Z	E	R ₁	Ra	g
20	15	10	180	66	26	147	12	126	25	108	M6	115	41	1"	G 1/4"	1980
25	20	10	180	66	26	154	12	126	25	108	M6	116	50	1 1/4"	G 1/4"	1980
32	25	10	180	66	26	168	12	126	25	116	M6	124	58	1 1/2"	G 1/4"	1980
40	32	10	249	103	40	192	16	155	44,5	134	M8	140	72	2"	G 1/4"	4200
50	40	10	249	103	40	222	16	155	44,5	154	M8	160	79	2 1/4"	G 1/4"	4200
63	50	10	297	125	40	266	16	210	44,5	184	M8	190	98	2 3/4"	G 1/4"	7350

Tabella relativa al PVC-U

Tables relevant to PVC-U

Tableaux concernant le PVC-U

Tabellen gültig für PVC-U

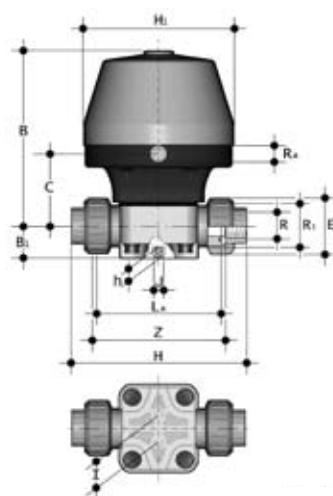
VMUFV/NC

VALVOLA A MEMBRANA
A COMANDO PNEUMATICO
Normalmente Chiusa
con attacchi femmina a bocchettone,
filettatura cilindrica gas
PVC-U

DIAPHRAGM VALVE
PNEUMATICALLY ACTUATED
Normally Closed
with unionised BS parallel threaded
female ends
PVC-U

VANNE à MEMBRANE
à COMMANDE PNEUMATIQUE
Normalement Fermée
avec raccordement union filetage
cylindrique gaz
PVC-U

MEMBRANVENTIL
PNEUMATISCH GERSTEUERTES
Normal geschlossen
mit Innengewinde
PVC-U



R	DN	PN	B	C	B ₁	H	h	H ₁	I	La	J	Z	E	R ₁	Ra	g
1/2"	15	10	180	66	26	147	12	126	25	108	M6	118	41	1"	G 1/4"	1980
3/4"	20	10	180	66	26	154	12	126	25	108	M6	118	50	1 1/4"	G 1/4"	1980
1"	25	10	180	66	26	168	12	126	25	116	M6	127	58	1 1/2"	G 1/4"	1980
1 1/4"	32	10	249	103	40	192	16	155	44,5	134	M8	145	72	2"	G 1/4"	4200
1 1/2"	40	10	249	103	40	222	16	155	44,5	154	M8	165	79	2 1/4"	G 1/4"	4200
2"	50	10	297	125	40	266	16	210	44,5	184	M8	195	98	2 3/4"	G 1/4"	7350

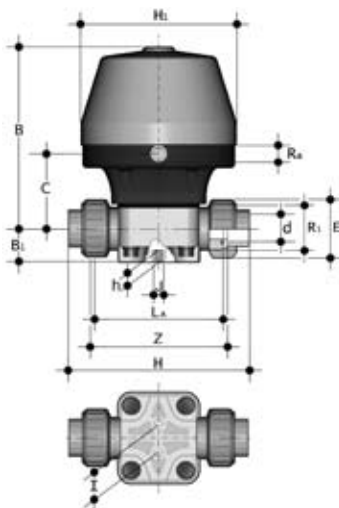
VMUAV/NC VMUAC/NC

VALVOLA A MEMBRANA
A COMANDO PNEUMATICO
Normalmente Chiusa
con attacchi femmina a bocchetto-
ne per incollaggio, serie ASTM
PVC-U, PVC-C

DIAPHRAGM VALVE
PNEUMATICALLY ACTUATED
Normally Closed
with unionised ASTM series plain
female ends for solvent welding
PVC-U, PVC-C

VANNE à MEMBRANE
à COMMANDE PNEUMATIQUE
Normalement Fermée
avec raccordement union femelles à
coller, série ASTM
PVC-U, PVC-C

MEMBRANVENTIL
PNEUMATISCH GERSTEUERTES
Normal geschlossen
mit ASTM Klebemuffen
PVC-U, PVC-C



d	DN	PN	B	C	B ₁	H	h	H ₁	I	La	J	Z	E	R ₁	Ra	g
1/2"	15	10	180	66	26	160	12	126	25	108	M6	115	41	1"	G 1/4"	1980
3/4"	20	10	180	66	26	167	12	126	25	108	M6	115	50	1 1/4"	G 1/4"	1980
1"	25	10	180	66	26	180	12	126	25	116	M6	122	58	1 1/2"	G 1/4"	1980
1 1/4"	32	10	249	103	40	208	16	155	44,5	134	M8	144	72	2"	G 1/4"	4200
1 1/2"	40	10	249	103	40	234	16	155	44,5	154	M8	164	79	2 1/4"	G 1/4"	4200
2"	50	10	297	125	40	272	16	210	44,5	184	M8	195	98	2 3/4"	G 1/4"	7350

Tabella relativa al PVC-U

Tables relevant to PVC-U

Tableaux concernant le PVC-U

Tabellen gültig für PVC-U

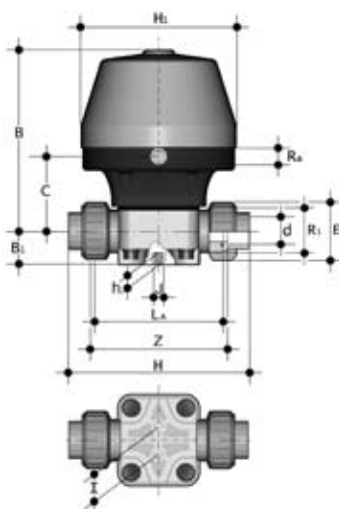
VMULV/NC

VALVOLA A MEMBRANA
A COMANDO PNEUMATICO
Normalmente Chiusa
con attacchi femmina a bocchettone
per incollaggio, serie BS
PVC-U

DIAPHRAGM VALVE
PNEUMATICALLY ACTUATED
Normally Closed
with unionised BS series plain
female ends for solvent welding
PVC-U

VANNE à MEMBRANE
à COMMANDE PNEUMATIQUE
Normalement Fermée
avec raccordement union femelles à
coller, série BS
PVC-U

MEMBRANVENTIL
PNEUMATISCH GERSTEUERTES
Normal geschlossen
mit BS Klebemuffen
PVC-U



d	DN	PN	B	C	B ₁	H	h	H ₁	I	La	J	Z	E	R ₁	Ra	g
1/2"	15	10	180	66	26	147	12	126	25	108	M6	114	41	1"	G 1/4"	1980
3/4"	20	10	180	66	26	154	12	126	25	108	M6	116	50	1 1/4"	G 1/4"	1980
1"	25	10	180	66	26	168	12	126	25	116	M6	121	58	1 1/2"	G 1/4"	1980
1 1/4"	32	10	249	103	40	192	16	155	44,5	134	M8	142	72	2"	G 1/4"	4200
1 1/2"	40	10	249	103	40	222	16	155	44,5	154	M8	162	79	2 1/4"	G 1/4"	4200
2"	50	10	297	125	40	266	16	210	44,5	184	M8	194	98	2 3/4"	G 1/4"	7350

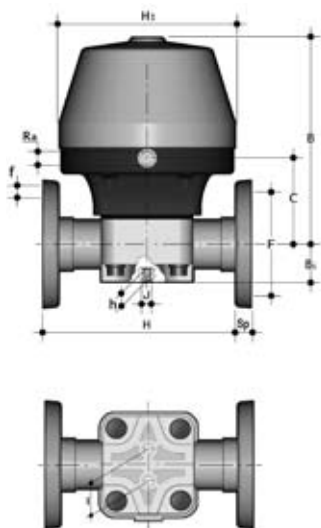
VMOV/NC VMOM/NC VMOF/NC VMOC/NC

VALVOLA A MEMBRANA
A COMANDO PNEUMATICO
Normalmente Chiusa
con flange fisse foratura ISO DIN
PN 10/16.
PVC-U, PP-H, PVDF, PVC-C

DIAPHRAGM VALVE
PNEUMATICALLY ACTUATED
Normally Closed
with ISO DIN PN 10/16
fixed flanges.
PVC-U, PP-H, PVDF, PVC-C

VANNE à MEMBRANE
à COMMANDE PNEUMATIQUE
Normalement Fermée
avec brides fixes
ISO DIN PN 10/16.
PVC-U, PP-H, PVDF, PVC-C

MEMBRANVENTIL
PNEUMATISCH GERSTEUERTES
Normal geschlossen
mit Flanschen, nach ISO DIN
PN 10/16.
PVC-U, PP-H, PVDF, PVC-C



d	DN	PN	B	B ₁	C	H	h	H ₁	Ra	I	J	F	øf	U	Sp	g
20	15	10	175	26	66	130	12	126	G 1/4"	25	M6	65	14	4	11	1990
25	20	10	175	26	66	150	12	126	G 1/4"	25	M6	75	14	4	13,5	2050
32	25	10	175	26	66	160	12	126	G 1/4"	25	M6	85	14	4	14	2130
40	32	10	244	40	103	180	18	155	G 1/4"	44,5	M8	100	18	4	14	4460
50	40	10	244	40	103	200	18	155	G 1/4"	44,5	M8	110	18	4	16	4575
63	50	10	292	40	125	230	18	210	G 1/4"	44,5	M8	125	18	4	16	7720
75	65	6	325	55	187	290	23	258	G 1/4"	100	M12	145	18	4	21	16100
90	80	6	325	55	187	310	23	258	G 1/4"	100	M12	160	18	8	21,5	17000
110	110	6	355	69	268	350	23	258	G 1/4"	120	M12	180	18	8	22,5	27900

Tabella relativa al PVC-U

Tables relevant to PVC-U

Tableaux concernant le PVC-U

Tabellen gültig für PVC-U

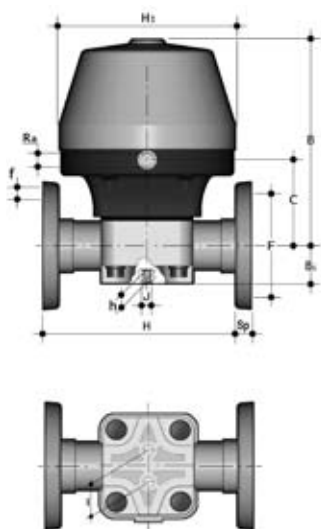
VMOAV/NC VMOAM/NC VMOAF/NC VMOAC/NC

VALVOLA A MEMBRANA
A COMANDO PNEUMATICO
Normalmente Chiusa
con flange fisse foratura
ANSI 150 #FF
PVC-U, PP-H, PVDF, PVC-C

DIAPHRAGM VALVE
PNEUMATICALLY ACTUATED
Normally Closed
with ANSI 150 #FF fixed flanges
PVC-U, PP-H, PVDF, PVC-C

VANNE à MEMBRANE
à COMMANDE PNEUMATIQUE
Normalement Fermée
avec brides fixes ANSI 150 #FF
PVC-U, PP-H, PVDF, PVC-C

MEMBRANVENTIL
PNEUMATISCH GERSTEUERTES
Normal geschlossen
mit Flanschen, nach ANSI 150 #FF
PVC-U, PP-H, PVDF, PVC-C



size	PN	B	B ₁	C	H	h	H ₁	Ra	I	J	F	øf	U	Sp	g
1/2"	10	175	26	66	130	12	126	G 1/4"	25	M6	60,3	15,9	4	11	1990
3/4"	10	175	26	66	150	12	126	G 1/4"	25	M6	69,9	15,9	4	13,5	2050
1"	10	175	26	66	160	12	126	G 1/4"	25	M6	79,4	15,9	4	14	2130
1 1/4"	10	244	40	103	180	18	155	G 1/4"	44,5	M8	88,9	15,9	4	14	4460
1 1/2"	10	244	40	103	200	18	155	G 1/4"	44,5	M8	98,4	15,9	4	16	4575
2"	10	292	40	125	230	18	210	G 1/4"	44,5	M8	120,7	19,1	4	16	7720
2 1/2"	6	325	55	187	290	23	258	G 1/4"	100	M12	139,7	19,1	4	21	16100
3"	6	325	55	187	310	23	258	G 1/4"	100	M12	152,4	19,1	4	21,5	17000
4"	6	355	69	268	350	23	258	G 1/4"	120	M12	190,5	19,1	8	22,5	27900

Tabella relativa al PVC-U

Tables relevant to PVC-U

Tableaux concernant le PVC-U

Tabellen gültig für PVC-U

Installazione sull'impianto

- 1) La valvola può essere installata in qualsiasi posizione e direzione. Nelle giunzioni per incollaggio prestare la massima attenzione affinché il collante non penetri nella valvola stessa.
- 2) Collegare l'attuatore con un sistema di pilotaggio appropriato. Controllare che la pressione del fluido di comando e di esercizio sia conforme alle specifiche.
- 3) Pressioni di esercizio esageratamente elevate riducono la durata della membrana di comando (usare riduttori di pressione). Tempi di apertura lenti ne migliorano invece la durata.
- 4) E' consigliabile ancorare la valvola ad un punto fisso.

Nota

Poiché la guarnizione a membrana è compressa tra corpo ed attuatore, bulloni del corpo valvola devono essere controllati e serrati, se necessario, prima dell'installazione. Per questa operazione fare riferimento al foglio istruzioni.

Smontaggio

- 1) Intercettare il fluido a monte della valvola ed assicurarsi che non rimanga in pressione (scaricare a valle se necessario).
- 2) Rimuovere i tappi di protezione (12), svitare le viti (11) per separare il corpo (9) dal gruppo attuatore (1). Questa operazione risulta più agevole se effettuata con attuatore in pressione.
- 3) Svitare la membrana di tenuta (8) e rimuovere l'otturatore (6).

Connection to the system

- 1) The valve can be installed in any position and direction. When installing the valve by solvent welding take extreme care to ensure that the solvent does not run into the valve body.
- 2) Connect the actuator with a suitable pilot System. Check that both working and control pressure are in accordance with the specifications.
- 3) Unnecessary high pressure shorten control diaphragm's life (use pressure reducers). Slow opening times make it longer.
- 4) To fix the valve body to a steady point is recommended.

Note

As the diaphragm is compressed between body and actuator, the bolts of the valve body should be checked and tightened, if necessary, before the installation. For this operation please read the instruction sheet.

Disassembly

- 1) Intercept the conveyed fluid upstream the valve and ensure that it is not under pressure (vent downstream if necessary).
- 2) Remove the protecting plugs (12), unscrew the bolts (11) to separate the body (9) from the actuator group (1). This operation will be easier with air pressure into the actuator.
- 3) Unscrew the diaphragm (8) and remove the loose compressor (6).

Montage sur l'installation

- 1) Le robinet peut être installé dans n'importe quelle position. Lorsque le raccordement est effectué par collage il faut veiller à ce que le collant ne coule pas à l'intérieur du corps, compromettant l'étanchéité.
- 2) Connecter l'actionneur avec un système de pilotage approprié. Contrôler que les pressions du fluide de commande et d'exercice soient conformes aux spécifications.
- 3) Des pressions d'exercice exagérément élevées réduisent beaucoup la vie de la membrane. Des temps d'ouverture lents assurent une durée prolongée.
- 4) Il est conseillé de ancrer la vanne à un point fixe.

Note

Avant l'installation c'est nécessaire de vérifier et, si nécessaire, de bien serrer les boulons car la membrane est comprimée entre le corps et la tête. Pour cette opération, lisez la fiche d'instructions.

Démontage

- 1) Arrêtez le fluide en amont du robinet et s'assurer qu'il ne soit plus sous pression (si nécessaire décharger en aval).
- 2) Enlever les bouchons (12), dévisser les vis (11) et séparer le corps (9) du groupe actionneur (1). Cette opération sera plus facile en présence d'air dans l'actionneur.
- 3) Dévisser la membrane (8) et enlever l'obturateur (6).

Einbau in eine Leitung

- 1) Das Ventil kann unabhängig von Lage und Durchflußrichtung eingebaut werden. Bei Klebeanschlüssen ist unbedingt darauf zu achten, daß kein Klebstoff in das Ventilgehäuse hineinläuft.
- 2) Der Antrieb ist mit einem passenden Pilot-Ventil zu versehen. Es ist zu überprüfen, daß Betriebsdruck und Steuerdruck den Angaben unter "Technische Daten" entsprechen.
- 3) Unnötig hohe Steuerdrücke verkürzen die Lebensdauer der Steuermembrane (Druckminderventil!). Langsame Öffnungszeiten verbessern die Lebensdauer.
- 4) Eine Befestigung des Ventils ist zu empfehlen.

Merke

Da sich Dichtungen im Laufe der Zeit setzen, sollten vor Inbetriebnahme der Ventile Schrauben und Muttern körperseitig auf festen Sitz überprüft und gegebenenfalls nachgezogen werden. Für diesen Vorgang lesen Sie bitte die Anleitung.

Demontage

- 1) Die Leitung ist an geeigneter Stelle drucklos zu machen und zu entleeren.
- 2) Schutzkappen (12) wegnehmen und die Schrauben (11) abschrauben, um den Körper (9) von dem Antrieb zu entfernen. Diese Operation wird erleichtert, wenn das Ventil mit Steuerluft geöffnet wird.
- 3) Membrane abschrauben (8) und Druckstück (6) entfernen.

Montaggio

- 1) Inserire l'otturatore (6) sullo stelo dell'attuatore (1).
- 2) Avvitare la membrana (8) sullo stelo, attraverso l'otturatore (6), in senso orario fino a quando non si incontra resistenza. Quindi svitare la membrana in senso antiorario fino al suo allineamento con i fori dei bulloni.
- 3) Posizionare il gruppo attuatore sul corpo valvola (9) ed avvitare le viti (11). Questa operazione sarà più facile con attuatore in pressione.
- 4) Quindi togliere pressione e stringere le viti (11) con una chiave dinamometrica, applicando le coppie raccomandate nel foglio istruzioni.
- 5) Coprire quindi le viti con i tappi di protezione (12).



Attenzione

Tutte le operazioni su apparecchiature in pressione, o contenenti molle compresse, devono essere effettuate in condizioni di sicurezza per l'operatore.

Assembly

- 1) Put the compressor (6) on the actuator spindle (1).
- 2) Screw the diaphragm (8) clockwise in the valve spindle via the compressor (6) until resistant is felt upon which the diaphragm should be screwed anti-clockwise until alignment with the bolt hole centres is achieved. Open the actuator with air pressure.
- 3) Put the actuator group on the body (9) and screw in the bolts (11).
- 4) Then exhaust the air pressure and tighten the bolts (11), by mean of a torque meter wrench, and applying the torques recommended in the instructions sheet.
- 5) Then cover the bolts with the protection caps (12).



Warning

All the activities with pressurized equipments, or including compressed springs, must be undertaken in safety conditions for the operators.

Montage

- 1) Positioner l'obturbateur (6) sur la bague de l'actionneur (1).
- 2) Visser la membrane (8) sur la tige de manoeuvre, à travers l'obturbateur (6), dans le sense horaire jusqu'à rencontrer résistance; ensuite dévisser la membrane jusqu'à la correspondance des trous de la membrane de commande avec les trous de l'actionneur.
- 3) Positioner le groupe actionneur sur le corps (9) et placer les vis (11). Cette opération sera plus facile en présence d'air dans l'actionneur.
- 4) Enlever ensuite la pression d'air et serrer les vis (11), avec une clef dynamométrique, en appliquant les couples de serrage indiqués sur la notice d'instruction.
- 5) Placer les bouchons de protection (12).



Attention

Toute opération sur les appareils en pression, ou réglés par des ressorts comprimés, doit être effectuée en état de sécurité du personnel.

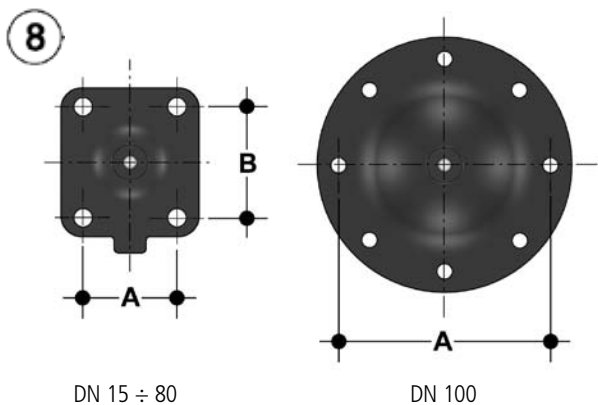
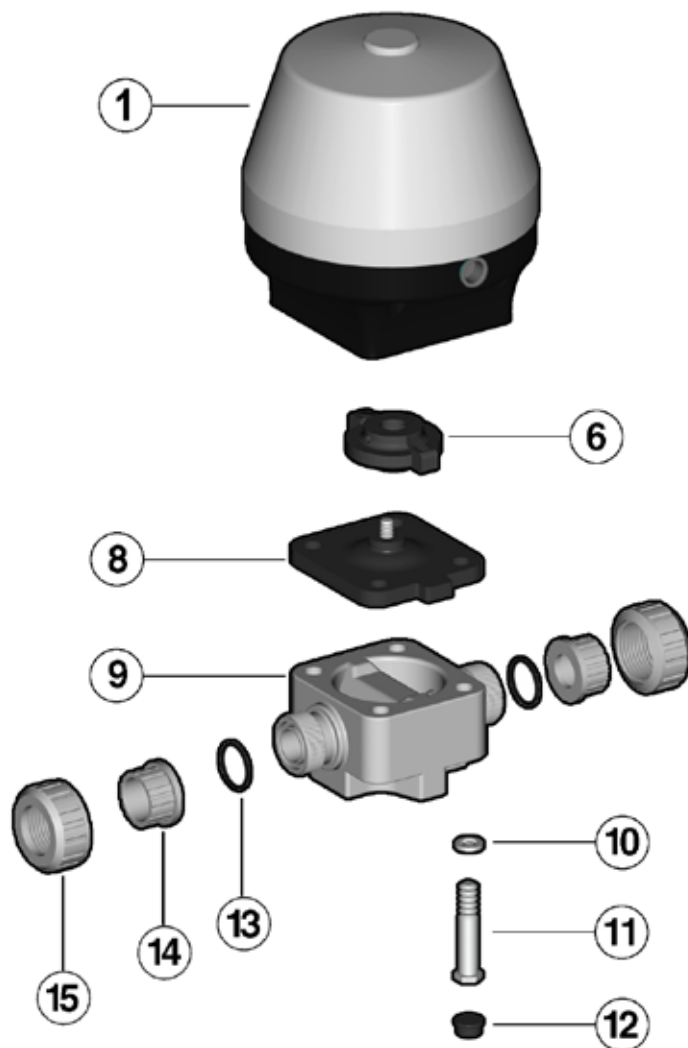
Montage

- 1) Setzen Sie den Kompressor (6) an der Ventilspindel (1).
- 2) Die Membrane (8) ist in der Ventilspindel durch den Kompressor (6) im Uhrzeigersinn zu schrauben, bis Resistenz zu spüren ist. Jetzt ist die Membrane gegen den Uhrzeigersinn abzuschrauben um die Membrane mit den Loechern der Schrauben zu zentrieren. Öffnen Sie den Antrieb mit Druckluft (NC).
- 3) Der Antrieb auf dem Koerper (9) legen und die Schrauben (11) mit den Muttern (26) ziehen. Diese Operation wird erleichtert, wenn das Ventil mit Steuerluft geöffnet wird. 4) Luftdruck ausströmen und die Schrauben (11) mit einer Drehmomentenschlüssel mit den in der Gebrauchsanweisung empfohlenene Werte festziehen.
- 5) Dann decken Sie die Schrauben mit den Schutzkappen (12).



Warnung

Alle Tätigkeiten mit druckbeaufschlagten Geräten inklusiv vorgespannter Federn, dürfen nur unter Voraussetzung von entsprechenden Sicherheitsbedingungen für das Personal durchgeführt werden.



DN	15	20	25	32	40	50	65	80	100
A	46	46	46	65	65	78	114	114	193
B	54	54	54	70	70	82	127	127	-

Pos.	Componenti	Materiale	Q.tà
1	attuatore	PP-GR	1
6	otturatore	PA-GR	1
8	membrana di tenuta	EPDM, FPM, NBR, PTFE	1
9	corpo valvola	PVC-U, PVC-C, PP-H, PVDF	1
10	rondella	(*) acciaio zincato	4
11	viti esagonali	(*) acciaio zincato	4
12	tappo di protezione	PE	4
13	o-ring	EPDM, FPM	1
14	manicotto	PVC-U, PVC-C, PP-H, PVDF	2
15	ghiera	PVC-U, PVC-C, PP-H, PVDF	2

(*) acciaio inox per valvole in PVDF

Pos.	Composants	Materiaux	Q.té
1	actionneur	PP-GR	1
6	compresseur	PA-GR	1
8	membrane de corps	EPDM, FPM, NBR, PTFE	1
9	corps de vanne	PVC-U, PVC-C, PP-H, PVDF	1
10	rondelle	(*) acier zingué	4
11	vis	(*) acier zingué	4
12	bouchon de protection	PE	4
13	o-ring	EPDM, FPM	1
14	collet	PVC-U, PVC-C, PP-H, PVDF	2
15	écrou union	PVC-U, PVC-C, PP-H, PVDF	2

(*) acier inoxydable pour vannes PVDF

Pos.	Components	Material	Q.ty
1	actuator	PA-GR	1
6	compressor	PA-GR	1
8	sealing diaphragm	EPDM, FPM, NBR, PTFE	1
9	valve body	PVC-U, PVC-C, PP-H, PVDF	1
10	washer	(*) zincplated steel	4
11	hexagonal screw	(*) zincplated steel	4
12	plug	PE	4
13	o-ring	EPDM, FPM	2
14	end connector	PVC-U, PVC-C, PP-H, PVDF	2
15	union nut	PVC-U, PVC-C, PP-H, PVDF	2

(*) stainless steel for PVDF valves

Pos.	Benennung	Werkstoff	Stk
1	Antrieb	PA-GR	1
6	Druckstück	PA-GR	1
8	Membrane	EPDM, FPM, NBR, PTFE	1
9	Ventilkörper	PVC-U, PVC-C, PP-H, PVDF	1
10	Scheibe	(*) St. Verzinkt	4
11	Schraube	(*) St. Verzinkt	4
12	Schutzkappe	PE	4
13	o-ring	EPDM, FPM	2
14	Anschlußteile	PVC-U, PVC-C, PP-H, PVDF	2
15	Überwurfmutter	PVC-U, PVC-C, PP-H, PVDF	2

(*) Edelstahl bei PVDF-Ventile

Code

VMDV/CP NC VMDM/CP NC VMDF/CP NC VMDC/CP NC

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		EPDM	FPM	EPDM	FPM	EPDM	FPM	EPDM	FPM
20	15	VMDVNC020E	VMDVNC020F	VMDMNC020E	VMDMNC020F	VMDFNC020E	VMDFNC020F	VMDCNC020E	VMDCNC020F
25	20	VMDVNC025E	VMDVNC025F	VMDMNC025E	VMDMNC025F	VMDFNC025E	VMDFNC025F	VMDCNC025E	VMDCNC025F
32	25	VMDVNC032E	VMDVNC032F	VMDMNC032E	VMDMNC032F	VMDFNC032E	VMDFNC032F	VMDCNC032E	VMDCNC032F
40	32	VMDVNC040E	VMDVNC040F	VMDMNC040E	VMDMNC040F	VMDFNC040E	VMDFNC040F	VMDCNC040E	VMDCNC040F
50	40	VMDVNC050E	VMDVNC050F	VMDMNC050E	VMDMNC050F	VMDFNC050E	VMDFNC050F	VMDCNC050E	VMDCNC050F
63	50	VMDVNC063E	VMDVNC063F	VMDMNC063E	VMDMNC063F	VMDFNC063E	VMDFNC063F	VMDCNC063E	VMDCNC063F
75	65	VMDVNC075E	VMDVNC075F	VMDMNC075E	VMDMNC075F	VMDFNC075E	VMDFNC075F	VMDCNC075E	VMDCNC075F
90	80	VMDVNC090E	VMDVNC090F	VMDMNC090E	VMDMNC090F	VMDFNC090E	VMDFNC090F	VMDCNC090E	VMDCNC090F
110	100	VMDVNC110E	VMDVNC110F	VMDMNC110E	VMDMNC110F	VMDFNC110E	VMDFNC110F	VMDCNC110E	VMDCNC110F

VMDV/CP NC VMDM/CP NC VMDF/CP NC VMDC/CP NC

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
20	15		VMDVNC020P		VMDMNC020P		VMDFNC020P		VMDCNC020P
25	20		VMDVNC025P		VMDMNC025P		VMDFNC025P		VMDCNC025P
32	25		VMDVNC032P		VMDMNC032P		VMDFNC032P		VMDCNC032P
40	32		VMDVNC040P		VMDMNC040P		VMDFNC040P		VMDCNC040P
50	40		VMDVNC050P		VMDMNC050P		VMDFNC050P		VMDCNC050P
63	50		VMDVNC063P		VMDMNC063P		VMDFNC063P		VMDCNC063P
75	65		VMDVNC075P		VMDMNC075P		VMDFNC075P		VMDCNC075P
90	80		VMDVNC090P		VMDMNC090P		VMDFNC090P		VMDCNC090P
110	100		VMDVNC110P		VMDMNC110P		VMDFNC110P		VMDCNC110P

VMUV/CP NC VMUIM/CP NC VMUIF/CP NC VMUIC/CP NC

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		EPDM	FPM	EPDM	FPM	EPDM	FPM	EPDM	FPM
20	15	VMUVNC020E	VMUVNC020F	VMUMNC020E	VMUMNC020F	VMUFNC020E	VMUFNC020F	VMUCNC020E	VMUCNC020F
25	20	VMUVNC025E	VMUVNC025F	VMUMNC025E	VMUMNC025F	VMUFNC025E	VMUFNC025F	VMUCNC025E	VMUCNC025F
32	25	VMUVNC032E	VMUVNC032F	VMUMNC032E	VMUMNC032F	VMUFNC032E	VMUFNC032F	VMUCNC032E	VMUCNC032F
40	32	VMUVNC040E	VMUVNC040F	VMUMNC040E	VMUMNC040F	VMUFNC040E	VMUFNC040F	VMUCNC040E	VMUCNC040F
50	40	VMUVNC050E	VMUVNC050F	VMUMNC050E	VMUMNC050F	VMUFNC050E	VMUFNC050F	VMUCNC050E	VMUCNC050F
63	50	VMUVNC063E	VMUVNC063F	VMUMNC063E	VMUMNC063F	VMUFNC063E	VMUFNC063F	VMUCNC063E	VMUCNC063F

VMUV/CP NC VMUIM/CP NC VMUIF/CP NC VMUIC/CP NC

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
20	15		VMUVNC020P		VMUMNC020P		VMUFNC020P		VMUCNC020P
25	20		VMUVNC025P		VMUMNC025P		VMUFNC025P		VMUCNC025P
32	25		VMUVNC032P		VMUMNC032P		VMUFNC032P		VMUCNC032P
40	32		VMUVNC040P		VMUMNC040P		VMUFNC040P		VMUCNC040P
50	40		VMUVNC050P		VMUMNC050P		VMUFNC050P		VMUCNC050P
63	50		VMUVNC063P		VMUMNC063P		VMUFNC063P		VMUCNC063P

VMUFV/CP NC

d	DN	PVC-U		PVC-U		PVC-U	
		EPDM	FPM	EPDM	FPM	EPDM	PTFE
1/2"	15		VMUFVNC012E		VMUFVNC012F		VMUFVNC012P
3/4"	20		VMUFVNC034E		VMUFVNC034F		VMUFVNC034P
1"	25		VMUFVNC100E		VMUFVNC100F		VMUFVNC100P
1 1/4"	32		VMUFVNC114E		VMUFVNC114F		VMUFVNC114P
1 1/2"	40		VMUFVNC112E		VMUFVNC112F		VMUFVNC112P
2"	50		VMUFVNC200E		VMUFVNC200F		VMUFVNC200P

VMUAV/CP NC VMUAC/CP NC

d	DN	PVC-U		PVC-U		PVC-U	
		EPDM	FPM	EPDM	FPM	EPDM	PTFE
1/2"	15	VMUAVNC012E	VMUAVNC012F	VMUAVNC012P	VMUACNC012E	VMUACNC012F	VMUACNC012P
3/4"	20	VMUAVNC034E	VMUAVNC034F	VMUAVNC034P	VMUACNC034E	VMUACNC034F	VMUACNC034P
1"	25	VMUAVNC100E	VMUAVNC100F	VMUAVNC100P	VMUACNC100E	VMUACNC100F	VMUACNC100P
1 1/4"	32	VMUAVNC114E	VMUAVNC114F	VMUAVNC114P	VMUACNC114E	VMUACNC114F	VMUACNC114P
1 1/2"	40	VMUAVNC112E	VMUAVNC112F	VMUAVNC112P	VMUACNC112E	VMUACNC112F	VMUACNC112P
2"	50	VMUAVNC200E	VMUAVNC200F	VMUAVNC200P	VMUACNC200E	VMUACNC200F	VMUACNC200P

VMULV/CP NC

d	DN	PVC-U		PVC-U		PVC-U	
		EPDM	FPM	EPDM	FPM	EPDM	PTFE
1/2"	15		VMULVNC012E		VMULVNC012F		VMULVNC012P
3/4"	20		VMULVNC034E		VMULVNC034F		VMULVNC034P
1"	25		VMULVNC100E		VMULVNC100F		VMULVNC100P
1 1/4"	32		VMULVNC114E		VMULVNC114F		VMULVNC114P
1 1/2"	40		VMULVNC112E		VMULVNC112F		VMULVNC112P
2"	50		VMULVNC200E		VMULVNC200F		VMULVNC200P

VMOV/CP NC VMOM/CP NC VMOF/CP NC VMOC/CP NC

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		EPDM	FPM	EPDM	FPM	EPDM	FPM	EPDM	FPM
20	15	VMOVNC020E	VMOVNC020F	VMOMNC020E	VMOMNC020F	VMOFNC020E	VMOFNC020F	VMOCNC020E	VMOCNC020F
25	20	VMOVNC025E	VMOVNC025F	VMOMNC025E	VMOMNC025F	VMOFNC025E	VMOFNC025F	VMOCNC025E	VMOCNC025F
32	25	VMOVNC032E	VMOVNC032F	VMOMNC032E	VMOMNC032F	VMOFNC032E	VMOFNC032F	VMOCNC032E	VMOCNC032F
40	32	VMOVNC040E	VMOVNC040F	VMOMNC040E	VMOMNC040F	VMOFNC040E	VMOFNC040F	VMOCNC040E	VMOCNC040F
50	40	VMOVNC050E	VMOVNC050F	VMOMNC050E	VMOMNC050F	VMOFNC050E	VMOFNC050F	VMOCNC050E	VMOCNC050F
63	50	VMOVNC063E	VMOVNC063F	VMOMNC063E	VMOMNC063F	VMOFNC063E	VMOFNC063F	VMOCNC063E	VMOCNC063F
75	65	VMOVNC075E	VMOVNC075F	VMOMNC075E	VMOMNC075F	VMOFNC075E	VMOFNC075F	VMOCNC075E	VMOCNC075F
90	80	VMOVNC090E	VMOVNC090F	VMOMNC090E	VMOMNC090F	VMOFNC090E	VMOFNC090F	VMOCNC090E	VMOCNC090F
110	100	VMOVNC110E	VMOVNC110F	VMOMNC110E	VMOMNC110F	VMOFNC110E	VMOFNC110F	VMOCNC110E	VMOCNC110F

Code

VMOV/CP NC VMOM/CP NC VMOF/CP NC VMOC/CP NC

d	DN	PVC-U PTFE	PP-H PTFE	PVDF PTFE	PVC-C PTFE
20	15	VMOVNC020P	VMOMNC020P	VMOFNC020P	VMOCNC020P
25	20	VMOVNC025P	VMOMNC025P	VMOFNC025P	VMOCNC025P
32	25	VMOVNC032P	VMOMNC032P	VMOFNC032P	VMOCNC032P
40	32	VMOVNC040P	VMOMNC040P	VMOFNC040P	VMOCNC040P
50	40	VMOVNC050P	VMOMNC050P	VMOFNC050P	VMOCNC050P
63	50	VMOVNC063P	VMOMNC063P	VMOFNC063P	VMOCNC063P
75	65	VMOVNC075P	VMOMNC075P	VMOFNC075P	VMOCNC075P
90	80	VMOVNC090P	VMOMNC090P	VMOFNC090P	VMOCNC090P
110	100	VMOVNC110P	VMOMNC110P	VMOFNC110P	VMOCNC110P

VMOAV/CP NC VMOAM/CP NC VMOAF/CP NC VMOAC/CP NC

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		EPDM	FPM	EPDM	FPM	EPDM	FPM	EPDM	FPM
1/2"	15	VMOAVNC012E	VMOAVNC012F	VMOAMNC012E	VMOAMNC012F	VMOAFNC012E	VMOAFNC012F	VMOACNC012E	VMOACNC012F
3/4"	20	VMOAVNC034E	VMOAVNC034F	VMOAMNC034E	VMOAMNC034F	VMOAFNC034E	VMOAFNC034F	VMOACNC034E	VMOACNC034F
1"	25	VMOAVNC100E	VMOAVNC100F	VMOAMNC100E	VMOAMNC100F	VMOAFNC100E	VMOAFNC100F	VMOACNC100E	VMOACNC100F
1 1/4"	32	VMOAVNC114E	VMOAVNC114F	VMOAMNC114E	VMOAMNC114F	VMOAFNC114E	VMOAFNC114F	VMOACNC114E	VMOACNC114F
1 1/2"	40	VMOAVNC112E	VMOAVNC112F	VMOAMNC112E	VMOAMNC112F	VMOAFNC112E	VMOAFNC112F	VMOACNC112E	VMOACNC112F
2"	50	VMOAVNC200E	VMOAVNC200F	VMOAMNC200E	VMOAMNC200F	VMOAFNC200E	VMOAFNC200F	VMOACNC200E	VMOACNC200F
2 1/2"	65	VMOVNC075E	VMOVNC075F	VMOVNC075E	VMOVNC075F	VMOVNC075E	VMOVNC075F	VMOVNC075E	VMOVNC075F
3"	80	VMOAVNC300E	VMOAVNC300F	VMOAMNC300E	VMOAMNC300F	VMOAFNC300E	VMOAFNC300F	VMOACNC300E	VMOACNC300F
4"	100	VMOVNC110E	VMOVNC110F	VMOVNC110E	VMOVNC110F	VMOVNC110E	VMOVNC110F	VMOVNC110E	VMOVNC110F

VMOAV/CP NC VMOAM/CP NC VMOAF/CP NC VMOAC/CP NC

d	DN	PVC-U PTFE	PP-H PTFE	PVDF PTFE	PVC-C PTFE
1/2"	15	VMOAVNC012P	VMOAMNC012P	VMOAFNC012P	VMOACNC012P
3/4"	20	VMOAVNC034P	VMOAMNC034P	VMOAFNC034P	VMOACNC034P
1"	25	VMOAVNC100P	VMOAMNC100P	VMOAFNC100P	VMOACNC100P
1 1/4"	32	VMOAVNC114P	VMOAMNC114P	VMOAFNC114P	VMOACNC114P
1 1/2"	40	VMOAVNC112P	VMOAMNC112P	VMOAFNC112P	VMOACNC112P
2"	50	VMOAVNC200P	VMOAMNC200P	VMOAFNC200P	VMOACNC200P
2 1/2"	65	VMOVNC075P	VMOVNC075P	VMOVNC075P	VMOVNC075P
3"	80	VMOAVNC090P	VMOAMNC090P	VMOAFNC090P	VMOACNC090P
4"	100	VMOVNC110P	VMOVNC110P	VMOVNC110P	VMOVNC110P



**Valvola a membrana a comando
pneumatico, NO - DA**

**Pneumatically actuated diaphragm
valve, NO - DA**

**Vanne à membrane à commande
pneumatique, NO - DA**

**Pneumatisch gesteuertes
Membranventil, NO - DA**

VM/NO - DA



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Valvola a membrana a comando pneumatico, NO - DA

La VM/NO - DA è una valvola dotata di un attuatore a membrana a semplice effetto normalmente aperto o doppio effetto che non richiede manutenzione.

Il vantaggio della valvola a membrana rispetto ad altri sistemi è la semplicità di funzionamento, unitamente al design compatto.

Può venire installata in qualsiasi posizione e può essere impiegata con fluidi liquidi o gassosi; inoltre è particolarmente adatta per fluidi abrasivi o contenenti impurità.

Con questo tipo di valvola vengono ridotti al minimo i rischi di colpo d'ariete. L'innovativo sistema di tenuta CDSA - Circular Diaphragm Sealing Area - utilizzato fino al DN50, offre, inoltre, i seguenti vantaggi:

- distribuzione uniforme della pressione dell'otturatore sulla membrana di tenuta
- diminuzione fino al 20% della coppia di serraggio delle viti che fissano il corpo valvola all'attuatore
- minore stress meccanico per tutti i componenti della valvola
- facilità di pulizia delle zone interne della valvola
- minimizzazione del rischio di accumulo di depositi, contaminazione o danneggiamento della membrana a causa di fenomeni di cristallizzazione
- riduzione della coppia di manovra fino al 40%

La speciale membrana in fibra tessile dell'attuatore, permette di aprire/chiedere fino a 10⁶ volte senza mostrare segni di usura.

PECULIARITÀ

- gamma dimensionale da DN 15 mm a DN 100 mm
- costruzione robusta con attuatore adatto ad ambienti chimicamente aggressivi
- possibilità di allineare sul medesimo asse di centro tubo tutti i corpi valvola dal DN 15 al DN 50
- sospensione flottante della membrana, per evitare carichi concentrati ed aumentarne la tenuta e la durata
- tenuta superiore membrana completamente circolare (CDSA).

ACCESSORI

- limitatore di corsa
- limitatore di corsa con indicatore visivo di posizione
- limitatore di corsa con indicatore di posizione e comando manuale di emergenza
- indicatore visivo di posizione
- microinterruttori di fine corsa
- posizionario elettropneumatico
- elettrovalvola pilota 3/2 vie per montaggio diretto o in batteria.

Per maggiori informazioni visitare il sito: www.fipnet.it.

Pneumatically actuated diaphragm valve, NO - DA

The diaphragm valve type VM/NO - DA is equipped with a maintenance free single acting normally open or double acting actuator, diaphragm type.

The advantage of the diaphragm valves, against other types of valves, consists of simplicity in function and compact design.

The diaphragm valve can be installed in any position and it can be used with liquid and gaseous fluids, and is particularly suitable for dirty or abrasive media.

Water hammer risk is reduced with this valve.

The innovative CDSA - Circular Diaphragm Sealing Area - system (up to DN50) offers the following mechanical advantages:

- uniform distribution of the pressure made by the compressor on the sealing diaphragm
- up to 20% of bolt tightening torque reduction
- reduced mechanical stress on all valve components
- easy internal cleaning
- lower risk of deposit accumulation, fluid contamination and damaging of the diaphragm due to the eventual crystallization
- reduction of the closing handwheel torque of the manual valves up to 40%

The flat, cloth reinforced, neoprene control diaphragm shows little wear and tear after 10⁶ duty cycles.

CHARACTERISTICS

- size range from DN 15 mm up to DN 100 mm
- rugged construction with actuator suitable for use in chemically aggressive environments
- possible alignment of all valve bodies DN15÷50 at the same height from the ground
- floating diaphragm suspension, to prevent point loading in the diaphragm center, for better sealing and endurance
- fully circular top diaphragm sealing (CDSA).

ACCESSORIES

- stroke limiter
- stroke limiter with optical Position indicator
- stroke limiter with optical Position indicator and emergency manual override
- optical position indicator
- limit-switches box
- electro pneumatic positioner
- direct or gang mounting 3/2 way pilot solenoid valve.

For more information please visit our website: www.fipnet.it.

Vanne à membrane à commande pneumatique, NO - DA

La vanne à membrane type VM/NO - DA est équipée d'un actionneur pneumatique normalement ouvert ou double effet qui ne nécessite pas d'entretien.

L'avantage du robinet à membrane, en comparaison avec d'autres types de robinets, réside dans sa simplicité de fonctionnement et sa conception compacte.

Ce robinet est principalement utilisé pour éviter les problèmes de contamination ou pour le transport de fluides abrasifs.

Il peut être installé dans n'importe quelle position et réduit le risque de "coup de bélier".

Le nouveau système CDSA - Circular Diaphragm Sealing Area - utilisé jusqu'au DN50, offre les avantages suivantes:

- distribution uniforme de la pression du compresseur sur la membrane.
- réduction jusqu'au 20% de la couple de serrage des écrous qui fixent le corps de la vanne à son actuateur
- réduit stress mécanique pour tous les composants de la vanne
- simple nettoyage des parties internes du corps de la vanne
- réduction du risque d'accumulation de dépôts, de contamination ou de causer des dégâts à la membrane par cristallisation
- réduction de la couple de serrage jusqu'au 40%

L'actionneur peut fonctionner jusqu'à 10⁶ cycles sans montrer aucune usure considérable.

CHARACTERISTIQUES

- gamme dimensionnelle de DN 15 mm à DN 100 mm
- construction robuste avec actionneur qui peut être utilisé dans environnements chimiquement agressives
- alignement possible des axes (DN 15-50)
- suspension flottante de la membrane évitant une charge concentrée sur le centre de la membrane, pour une meilleure étanchéité et durée de vie
- étanchéité supérieure de la membrane complètement circulaire (CDSA).

ACCESSOIRES

- limiteur de course
- limiteur de course avec indicateur de position
- limiteur de course avec indicateur de position et commande manuelle de secours
- indicateur de position
- boîtier avec 2 contacts de fin course
- positionneur électropneumatique
- électrovanne de commande 3/2. Montage direct ou en batterie.

Pour avoir d'autres informations, visiter le site: www.fipnet.it.

Pneumatischem gesteuertes Membranventil, NO - DA Typ 285

Das Ventil ist durch Federkraft normal geöffnet und doppelwirkend (NO - DA) und wird durch das Steuermedium geschlossen.

Der glattflächige Antrieb ist wartungsfrei und kann mit neutralen, flüssigen und gasförmigen Steuermedien betrieben werden. Die gewebeverstärkte Steuermembran ist außen gefasst und für eine hohe Schaltspielzahl ausgelegt.

Das Membranventil wird vorzugsweise für flüssige Medien eingesetzt, die aggressiv, abrasiv, verschmutzt oder breiig bis pastös sein können.

Das innovative CDSA-Design - Kreisrundes Membran Dichtsystem (bis DN 50) bietet folgende mechanischen Vorteile:

- Optimale Druckverteilung über das Druckstück auf die abdichtende Membran
- bis zu 20% Reduzierung der Anzugsdrehmomente
- geringere Belastung aller Ventilkomponenten (Antrieb, Ventilkörper und Dichtmembran)
- einfache und effiziente interne Reinigung
- deutlich geringeres Risiko der Ansammlung von Feststoffen und Auskristallisationen, dadurch werden Rekontaminationen und Beschädigung der Membrane reduziert
- Reduzierung der notwendigen Schließkräfte bei handbetätigten Ventilen um bis zu 40%

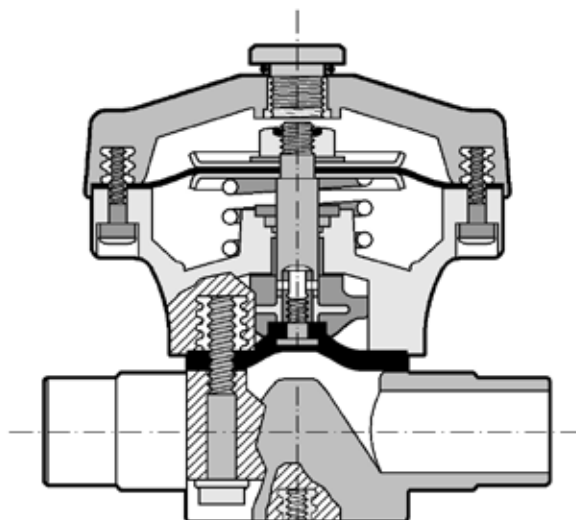
HAUPTMERKMALE

- Größen von DN 15 mm bis DN 100 mm
- robuste Bauform mit Antriebsmaterial geeignet für aggressive Atmosphäre
- Mittelachsen der Ventilkörper können auf dasselbe Niveau gebracht werden (DN15-50)
- flexible Membranaufhängung um punktuelle Anpressung der Mediumsmembrane zu vermeiden
- Konstruktiv bedingte kreisrunde und damit gleichmäßige Membranklemmung (CDSA).

ZUBEHÖR

- Hubbegrenzung
- Hubbegrenzung mit optischer Stellungsanzeige
- Hubbegrenzung mit optischer Stellungsanzeige und Handnothandbetätigung
- optischer Stellungsanzeige
- elektromechanische oder elektronische (berührungslose) Stellungsanzeige
- Elektropneumatischer Stellungsregler
- angebauten 3/2 Wege Pilotventil der Baureihe 600 / 605

Für weitere Details schauen Sie auf unsere Website: www.fipnet.it.



LEGENDA

d	diametro nominale esterno del tubo in mm	d	nominal outside diameter of the pipe in mm	d	diamètre extérieur nominal du tube en mm	d	Rohraußendurchmesser in mm
DN	diametro nominale interno in mm	DN	nominal internal diameter in mm	DN	diamètre intérieur nominal du tube en mm PN	DN	Rohrinnenweite in mm
R	dimensione nominale della filettatura in pollici	R	nominal size of the thread in inches	R	dimension nominale du filetage en pouces	R	Gewinde
PN	pressione nominale in bar (pressione max di esercizio a 20°C in acqua)	PN	nominal pressure in bar (max. working pressure at 20°C - water)	PN	pression nominale en bar (pression de service max à 20°C- eau)	PN	Nenndruck; höchstzulässiger Betriebsdruck in bar, bei 20° C Wasser
g	peso in grammi	g	weight in grams	g	poids en grammes	g	Gewicht in Gramm
U	numero dei fori	U	number of holes	U	nombre de trous	U	Anzahl der Schraubenlöcher
PVC-U	cloruro di polivinile rigido	PVC-U	unplasticized polyvinyl chloride	PVC-U	polychlorure de vinyle non plastifié	PVC-U	Polyvinylchlorid hart
PP-H	polipropilene omopolimero	PP-H	polypropylene homopolymer	PP-H	polypropylène homopolymère	PP-H	Polypropylen Homopolimerisat
PP-GR	polipropilene rinforzato fibre di vetro	PP-GR	polypropylene fiber glass reinforced	PP-GR	polypropylène renforcé fibre de verre	PP-GR	Polypropylen glasfaserverstärkt
PVC-C	cloruro di polivinile surclorato	PVC-C	chlorinated polyvinyl chloride	PVC-C	polychlorure de vinyle surchloré	PVC-C	Polyvinylchlorid nachchloriert
PVDF	polifluoruro di vinilidene	PVDF	polyvinylidene fluoride	PVDF	polyfluorure de vinylidène	PVDF	Polyvinylidenfluorid
EPDM	elastomero etilene propilene	EPDM	ethylene propylene rubber	EPDM	élastomère éthylène propylène	EPDM	Ethylenpropylen-dienelastomer
FPM	fluoroelastomero	FPM	vinylidene fluoride rubber	FPM	fluoroélastomère de vinylidène	FPM	Fluorelastomer
PTFE	politetrafluoroetilene	PTFE	polytetrafluoroethylene	PTFE	polytétrafluoroéthylène	PTFE	Polytetrafluorethylen
PA-GR	poliammide rinforzato fibre di vetro	PA-GR	polyamid fiber glass reinforced	PA-GR	polyamide renforcé fibre de verre	PA-GR	polyamid glasfaserverstärkt
PE	polietilene	PE	polyethylene	PE	polyéthylène	PE	Polyethylen
NO	normalmente aperta	NO	normally open	NO	normalement ouvert	NO	Normal Geöffnet
DA	doppio effetto	DA	double acting	DA	double effet	DA	Dopplet Wirkend
k_{V100}	Coefficiente di flusso	k_{V100}	Flow coefficient	k_{V100}	Coefficient de débit	k_{V100}	kv100 -Wert

Per coefficiente di flusso k_{V100} si intende la portata Q in litri al minuto di acqua a 20°C che genera una perdita di carico $\Delta p = 1$ bar per una determinata posizione della valvola. I valori k_{V100} indicati in tabella si intendono per valvola completamente aperta.

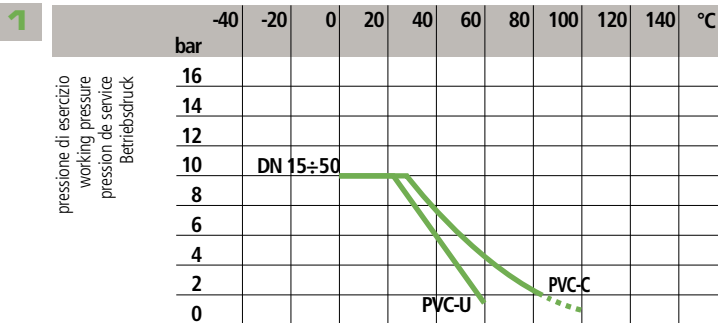
k_{V100} is the number of litres per minute of water at a temperature of 20°C that will flow through the valve with $\Delta p = 1$ bar differential-pressure at a specified position. The k_{V100} values shown in the table are calculated with the valve completely open.

k_{V100} est le nombre de litres d'eau, à une température de 20°C, qui s'écoule en une minute dans une vanne pour une position donnée avec une pression différentielle Δp de 1 bar. Les valeurs k_{V100} indiquées sur la table sont évaluées lorsque le robinet est entièrement ouvert

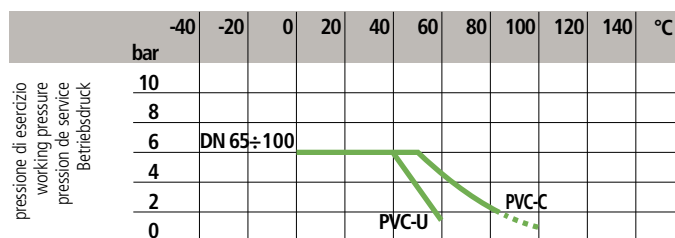
k_{V100} - Wert nennt den urchsatz in l/min für Wasser bei 20°C und einem Δp von 1 bar bei völlig geöffnetem Ventil.

**Dati
Tecnici**

**Technical
Data**



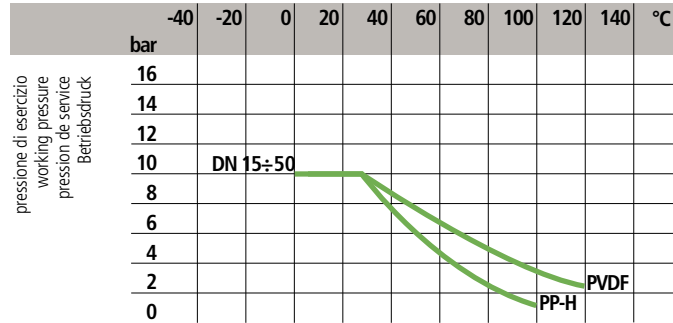
temperatura di esercizio - working temperature
température de service - Betriebstemperatur



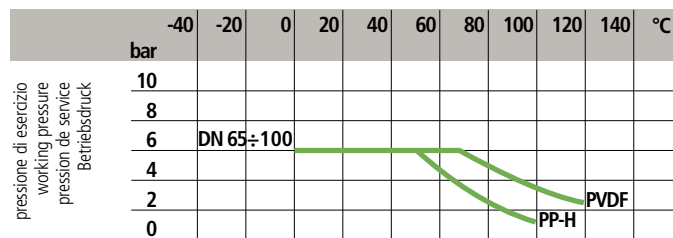
temperatura di esercizio - working temperature
température de service - Betriebstemperatur

**Données
Techniques**

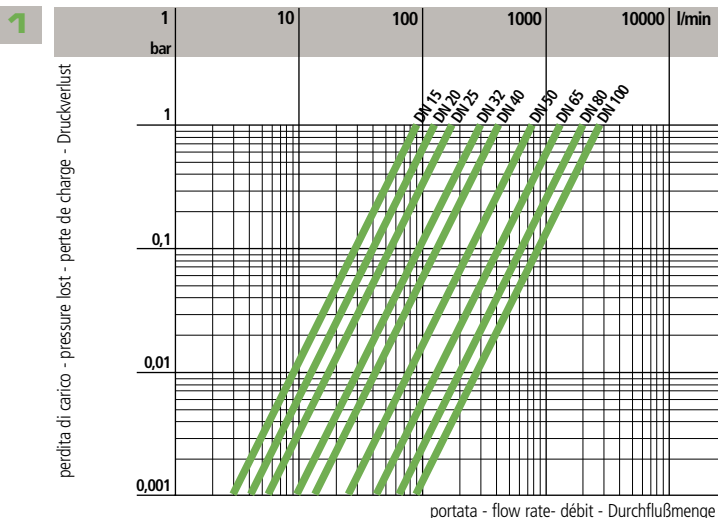
**Technische
Daten**



temperatura di esercizio - working temperature
température de service - Betriebstemperatur



temperatura di esercizio - working temperature
température de service - Betriebstemperatur



portata - flow rate - débit - Durchflußmenge

1 Variazione della pressione in funzione della temperatura per acqua o fluidi non pericolosi nei confronti dei quali il materiale è classificato CHIMICAMENTE RESISTENTE. In altri casi è richiesta un'adeguata diminuzione della pressione nominale PN. (25 anni con fattore di sicurezza).

Per l'impiego del PVC-C con temperature di esercizio superiori a 90°, si consiglia di contattare il servizio tecnico.

Pressure/temperature rating for water and harmless fluids to which the material is RESISTANT. In other cases a reduction of the rated PN is required. (25 years with safety factor).

For PVC-C usage with working temperature higher than 90° C please contact the technical service.

Variation de la pression en fonction de la température pour l'eau et les fluides non agressifs pour lequel le matériau est considéré CHIMIQUEMENT RESISTANT. Pour les autres cas une diminution du PN est nécessaire. (25 années avec facteur de sécurité inclus).

Avant d'utiliser le PVC-C à température de service au-dessus de 90° C nous vous prions de contacter le service technique.

Druck/Temperatur-Diagramm für Wasser und ungefährliche Medien gegen die das Material BESTÄNDIG ist. In allen anderen Fällen ist eine entsprechende Reduzierung der Druckstufe erforderlich. (Unter Berücksichtigung des Sicherheitsfaktors für 25 Jahre).

Für Anwendungen von PVC-C mit Betriebstemperaturen höher als 90° C, bitte wenden Sie sich an den technischen Dienst.

2 Diagramma delle perdite di carico

Pressure loss chart

Table de perte de charge

Druckverlust-Diagramm

3

DN	15	20	25	32	40	50	65	80	100
k_{v100}	93	136	175	300	416	766	1300	2000	2700

3

Coefficiente di flusso k_{v100}
Per coefficiente di flusso k_{v100} si intende la portata Q in litri al minuto di acqua a 20°C che genera una perdita di carico $\Delta p = 1$ bar per una determinata posizione della valvola. I valori k_{v100} indicati in tabella si intendono per valvola completamente aperta.

Flow coefficient k_{v100}
 k_{v100} is the number of litres per minute of water at a temperature of 20°C that will flow through the valve with $\Delta p = 1$ bar differential-pressure at a specified position. The k_{v100} values shown in the table are calculated with the valve completely open.

Coefficient de débit k_{v100}
 k_{v100} est le nombre de litres d'eau, à une température de 20°C, qui s'écoule en une minute dans une vanne pour une position donnée avec une pression différentielle Δp de 1 bar. Les valeurs k_{v100} indiquées sur la table sont évaluées lorsque le robinet est entièrement ouvert.

k_{v100} – Wert
 k_{v100} - Wert nennt den urchsatz in l/min für Wasser bei 20°C und einem Δp von 1 bar bei völlig geöffnetem Ventil.

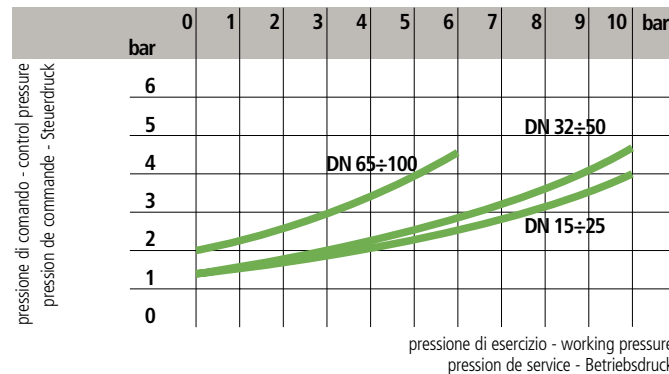
4

Pressione di comando in funzione della pressione di esercizio.

Control pressure relative to working pressure.

Pression de commande en fonction de la pression de service.

Steuerdruck je nach Betriebsdruck abhängig.



4

Pressione di esercizio - Working Pressure - Pression de service - Betriebsdruck	max 10 bar (DN 15÷50) max 6 bar (DN 65÷100)
Pressione di comando - Control pressure - Pression de commande - Steuerdruck	max 6 bar
Funzione di comando - Control function Fonction de commande - Steuerfunktion	NO - DA (DN 15÷50) NO (DN 65÷100) DA (DN 65÷100)
Temperatura del fluido di comando* - Control fluid temperature* Température de le fluid de commande* - Temperatur des Steuemediums*	max 40° C
Capacità attuatore** - Actuator capacity** - Capacité actionneur** - Steuervolumen**	DN 15-25=0.13 NI DN 32-40=0.28 NI DN 50=0.50 NI DN 65-100=2.2 NI

* Fluido di comando: usare sia aria filtrata secca che aria lubrificata. (Per utilizzo di altri fluidi consultare il ns. servizio tecnico).

** NI: Normal-litro volume alla pressione atmosferica

* The control fluid: use both dry filtered air and lubricated air (for others fluids please contact out technical service).

** NI: Normal-liter volume et atmospheric pressure

* Le fluide de commande: utiliser de l'air filtré soit sec soit lubrifié (Pour utilisation de autres fluides consulter le bureau technique).

** NI: Normal-litre volume à la pression atmosphérique

* Das Steuemedium soll neutral und sauber sein: benutzen Sie sowohl filtrierte trockene Luft, als auch befeuchtete Luft. Wenn Sie andere Flüssigkeiten verwenden möchten, fragen Sie bitte unseren technischen Dienst.

** NI: Normale Liter Volumen bei atmosphärischem Druck

Dimensioni

La valvola a membrana VM è disponibile nelle seguenti versioni, i cui attacchi sono in accordo con le seguenti norme:

- Incollaggio PVC-U:
EN ISO 1452, EN ISO 15493,
ISO 727, DIN 8062, DIN 8063,
ASTM D2467, BS 4346-1,
ISO 727-2
- Incollaggio PVC-C:
EN ISO 15493, ISO 727-1,
ASTM F439
- Saldatura nel bicchiere PP-H:
EN ISO 15494
- Saldatura nel bicchiere PVDF:
EN ISO 10931
- Filettatura:
ISO 228-1, DIN 2999, ISO 7-1,
BS 21, BS 10226
- Flangiatura:
EN ISO 1092-1, EN ISO 1452,
EN ISO 15493, EN 558, ISO 7005-1,
ASTM ANSI B16.5 CL 150.

Dimensions

The VM diaphragm valve is available in the following versions, whose coupling comply with the following standards:

- Solvent welding PVC-U:
EN ISO 1452, EN ISO 15493,
ISO 727, DIN 8062, DIN 8063,
ASTM D2467, BS 4346-1,
ISO 727-2
- Solvent welding PVC-C:
EN ISO 15493, ISO 727-1,
ASTM F439
- Socket fusion PP-H:
EN ISO 15494.
- Socket fusion PVDF:
EN ISO 10931
- Threaded coupling:
ISO 228-1, DIN 2999, ISO 7-1,
BS 21, BS 10226
- Flanged couplings:
EN ISO 1092-1, EN ISO 1452,
EN ISO 15493, EN 558, ISO 7005-1,
ASTM ANSI B16.5 CL 150.

Dimensions

La vanne à membrane VM est disponible dans les suivantes versions, dont les embouts sont conformes aux normes suivantes

- Encollage PVC-U:
EN ISO 1452, EN ISO 15493,
ISO 727, DIN 8062, DIN 8063,
ASTM D2467, BS 4346-1,
ISO 727-2
- Encollage PVC-C:
EN ISO 15493, ISO 727-1,
ASTM F439
- Soudure par fusion PP-H:
EN ISO 15494
- Soudure par fusion PVDF:
EN ISO 10931
- Filetage:
ISO 228-1, DIN 2999, ISO 7-1,
BS 21, BS 10226
- Brides:
EN ISO 1092-1, EN ISO 1452,
EN ISO 15493, EN 558, ISO 7005-1,
ASTM ANSI B16.5 CL 150.

Dimensionen

Die VM Membranventile entsprechen mit ihren Anschlußmöglichkeiten folgenden Normen:

- Klebeanschluß PVC-U:
EN ISO 1452, EN ISO 15493,
ISO 727, DIN 8062, DIN 8063,
ASTM D2467, BS 4346-1,
ISO 727-2
- Klebeanschluß PVC-C:
EN ISO 15493, ISO 727-1,
ASTM F439
- Schweißanschluß PP-H:
EN ISO 15494
- Schweißanschluß PVDF:
EN ISO 10931
- Gewindeverbindung:
ISO 228-1, DIN 2999, ISO 7-1,
BS 21, BS 10226
- Flanschanschluss:
EN ISO 1092-1, EN ISO 1452,
EN ISO 15493, EN 558, ISO 7005-1,
ASTM ANSI B16.5 CL 150.

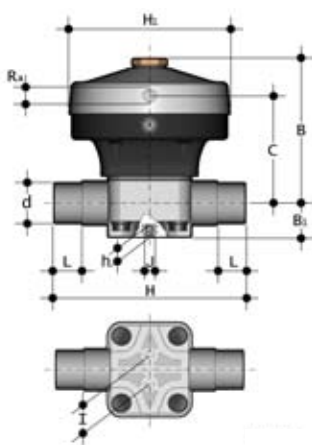
VMDV/NO-DA VMDM/NO-DA VMDF/NO-DA VMDC/NO-DA

VALVOLA A MEMBRANA
A COMANDO PNEUMATICO
Normalmente Aperta
Doppio Effetto
con attacchi maschio, serie metrica
PVC-U, PP-H, PVDF, PVC-C

DIAPHRAGM VALVE
PNEUMATICALLY ACTUATED
Normally Open
Double Acting
with metric series spigot ends
PVC-U, PP-H, PVDF, PVC-C

VANNE à MEMBRANE
à COMMANDE PNEUMATIQUE
Normalement Ouvert
Double Effet
avec embouts mâle série métrique
PVC-U, PP-H, PVDF, PVC-C

MEMBRANVENTIL
PNEUMATISCH GESTEUERTES
Normal geöffnet
Doppelt wirkend
Verschraubung mit
Klebestutzen nach ISO
PVC-U, PP-H, PVDF, PVC-C



d	DN	PN	B	B ₁	C	H	h	H ₁	I	J	L	Ra	g
20	15	10	144	26	120	124	12	126	25	M6	16	G 1/4"	1300
25	20	10	144	26	120	144	12	126	25	M6	19	G 1/4"	1300
32	25	10	144	26	120	154	12	126	25	M6	22	G 1/4"	1300
40	32	10	201	40	133	174	18	155	44,5	M8	26	G 1/4"	2800
50	40	10	201	40	133	194	18	155	44,5	M8	31	G 1/4"	2800
63	50	10	237	40	156	224	18	210	44,5	M8	38	G 1/4"	4600
75	65	6	305	55	252	284	23	258	100	M12	44	G 1/4"	12500
90	80	6	305	55	252	300	23	258	100	M12	51	G 1/4"	13000
110	100	6	330	69	268	340	23	258	120	M12	61	G 1/4"	22000

Tabella relativa al PVC-U

Tables relevant to PVC-U

Tableaux concernant le PVC-U

Tabellen gültig für PVC-U

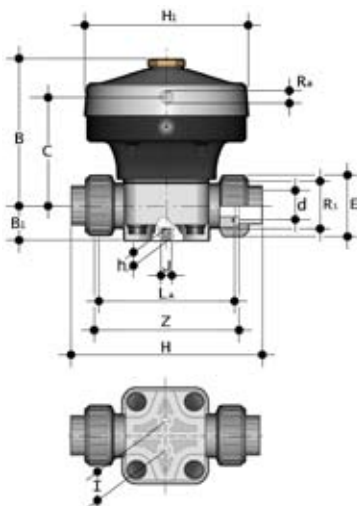
VMUIV/NO-DA VMUIM/NO-DA VMUIC/NO-DA VMUIF/NO-DA

VALVOLA A MEMBRANA
A COMANDO PNEUMATICO
Normalmente Aperta
Doppio Effetto
con attacchi femmina a bocchettone,
serie metrica
PVC-U, PP-H, PVDF, PVC-C

DIAPHRAGM VALVE
PNEUMATICALLY ACTUATED
Normally Open
Double Acting
with unionised metric series plain
female ends
PVC-U, PP-H, PVDF, PVC-C

VANNE à MEMBRANE
à COMMANDE PNEUMATIQUE
Normalement Ouvert
Double Effet
avec raccordement union femelles série
métrique
PVC-U, PP-H, PVDF, PVC-C

MEMBRANVENTIL
PNEUMATISCH GESTEUERTES
Normal geöffnet
Doppelt wirkend
Verschraubung mit Klebemuffen nach
ISO
PVC-U, PP-H, PVDF, PVC-C



d	DN	PN	B	C	B ₁	H	h	H ₁	I	La	J	Z	E	R ₁	Ra	g
20	15	10	149	125	26	147	12	126	25	108	M6	115	41	1"	G 1/4"	1430
25	20	10	149	125	26	154	12	126	25	108	M6	116	50	1 1/4"	G 1/4"	1430
32	25	10	149	125	26	168	12	126	25	116	M6	124	58	1 1/2"	G 1/4"	1430
40	32	10	206	138	40	192	16	155	44,5	134	M8	140	72	2"	G 1/4"	3000
50	40	10	206	138	40	222	16	155	44,5	154	M8	160	79	2 1/4"	G 1/4"	3000
63	50	10	242	161	40	266	16	210	44,5	184	M8	190	98	2 3/4"	G 1/4"	5000

Tabella relativa al PVC-U

Tables relevant to PVC-U

Tableaux concernant le PVC-U

Tabellen gültig für PVC-U

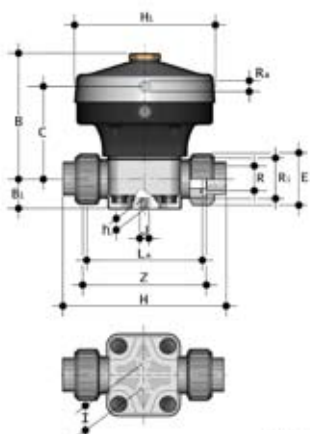
VMUFV/NO-DA

VALVOLA A MEMBRANA
A COMANDO PNEUMATICO
Normalmente Aperta
Doppio Effetto
con attacchi femmina a bocchettone,
filettatura cilindrica gas
PVC-U

DIAPHRAGM VALVE
PNEUMATICALLY ACTUATED
Normally Open
Double Acting
with unionised BS parallel threaded
female ends
PVC-U

VANNE à MEMBRANE
à COMMANDE PNEUMATIQUE
Normalement Ouvert
Double Effet
avec raccordement union filetage
cylindrique gaz
PVC-U

MEMBRANVENTIL
PNEUMATISCH GESTEUERTES
Normal geöffnet
Doppelt wirkend
Verschraubung mit Innengewinde
PVC-U



R	DN	PN	B	C	B ₁	H	h	H ₁	I	La	J	Z	E	R ₁	Ra	g
1/2"	15	10	149	125	26	147	12	126	25	108	M6	118	41	1"	G 1/4"	1430
3/4"	20	10	149	125	26	154	12	126	25	108	M6	118	50	1 1/4"	G 1/4"	1430
1"	25	10	149	125	26	168	12	126	25	116	M6	127	58	1 1/2"	G 1/4"	1430
1 1/4"	32	10	206	138	40	192	16	155	44,5	134	M8	145	72	2"	G 1/4"	3000
1 1/2"	40	10	206	138	40	222	16	155	44,5	154	M8	165	79	2 1/4"	G 1/4"	3000
2"	50	10	242	161	40	266	16	210	44,5	184	M8	195	98	2 3/4"	G 1/4"	5000

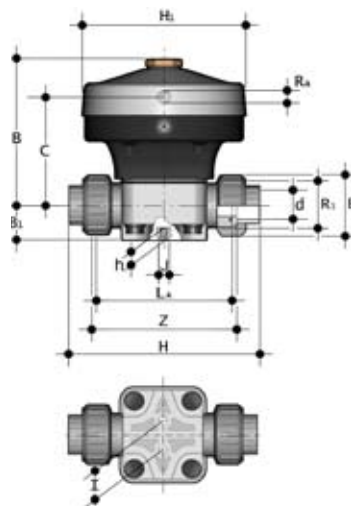
VMUAV/NO-DA VMUAC/NO-DA

VALVOLA A MEMBRANA
A COMANDO PNEUMATICO
Normalmente Aperta
Doppio Effetto
con attacchi femmina a bocchettone,
serie ASTM
PVC-U, PVC-C

DIAPHRAGM VALVE
PNEUMATICALLY ACTUATED
Normally Open
Double Acting
with unionised ASTM series plain
female ends
PVC-U, PVC-C

VANNE à MEMBRANE
à COMMANDE PNEUMATIQUE
Normalement Ouvert
Double Effet
avec raccordement union femelles
série ASTM
PVC-U, PVC-C

MEMBRANVENTIL
PNEUMATISCH GESTEUERTES
Normal geöffnet
Doppelt wirkend
Verschraubung mit
ASTM Klebemuffen
PVC-U, PVC-C



d	DN	PN	B	C	B ₁	H	h	H ₁	I	La	J	Z	E	R ₁	Ra	g
1/2"	15	10	149	125	26	160	12	126	25	108	M6	115	41	1"	G 1/4"	1430
3/4"	20	10	149	125	26	167	12	126	25	108	M6	115	50	1 1/4"	G 1/4"	1430
1"	25	10	149	125	26	180	12	126	25	116	M6	122	58	1 1/2"	G 1/4"	1430
1 1/4"	32	10	206	138	40	208	16	155	44,5	134	M8	144	72	2"	G 1/4"	3000
1 1/2"	40	10	206	138	40	234	16	155	44,5	154	M8	164	79	2 1/4"	G 1/4"	3000
2"	50	10	242	161	40	272	16	210	44,5	184	M8	195	98	2 3/4"	G 1/4"	5000

Tabella relativa al PVC-U

Tables relevant to PVC-U

Tableaux concernant le PVC-U

Tabellen gültig für PVC-U

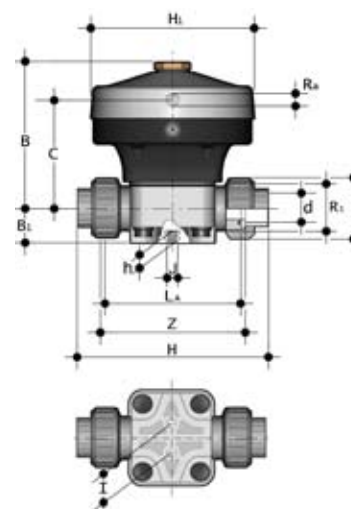
VMULV/NO-DA

VALVOLA A MEMBRANA
A COMANDO PNEUMATICO
Normalmente Aperta
Doppio Effetto
con attacchi femmina a bocchettone,
serie BS
PVC-U

DIAPHRAGM VALVE
PNEUMATICALLY ACTUATED
Normally Open
Double Acting
with unionised BS series plain
female ends
PVC-U

VANNE à MEMBRANE
à COMMANDE PNEUMATIQUE
Normalement Ouvert
Double Effet
avec raccordement union femelles
série BS
PVC-U

MEMBRANVENTIL
PNEUMATISCH GESTEUERTES
Normal geöffnet
Doppelt wirkend
Verschraubung mit
BS Klebemuffen
PVC-U



d	DN	PN	B	C	B ₁	H	h	H ₁	I	La	J	Z	E	R ₁	Ra	g
1/2"	15	10	149	125	26	147	12	126	25	108	M6	114	41	1"	G 1/4"	1430
3/4"	20	10	149	125	26	154	12	126	25	108	M6	116	50	1 1/4"	G 1/4"	1430
1"	25	10	149	125	26	168	12	126	25	116	M6	121	58	1 1/2"	G 1/4"	1430
1 1/4"	32	10	206	138	40	192	16	155	44,5	134	M8	142	72	2"	G 1/4"	3000
1 1/2"	40	10	206	138	40	222	16	155	44,5	154	M8	162	79	2 1/4"	G 1/4"	3000
2"	50	10	242	161	40	266	16	210	44,5	184	M8	194	98	2 3/4"	G 1/4"	5000

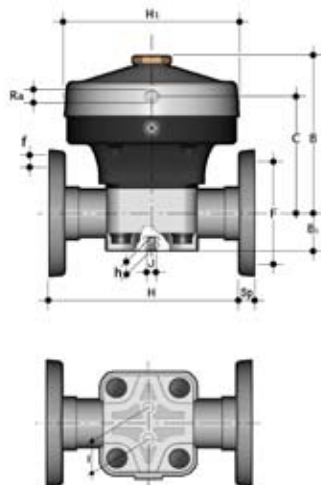
VMOV/NO-DA VMOM/NO-DA VMOF/NO-DA VMOC/NO-DA

VALVOLA A MEMBRANA
A COMANDO PNEUMATICO
Normalmente Aperta
Doppio Effetto
con flange fisse foratura ISO DIN
PN 10/16.
PVC-U, PP-H, PVDF, PVC-C

DIAPHRAGM VALVE
PNEUMATICALLY ACTUATED
Normally Open
Double Acting
with ISO DIN PN 10/16
fixed flanges.
PVC-U, PP-H, PVDF, PVC-C

VANNE à MEMBRANE
à COMMANDE PNEUMATIQUE
Normalement Ouvert
Double Effet
avec brides fixes
ISO DIN PN 10/16.
PVC-U, PP-H, PVDF, PVC-C

MEMBRANVENTIL
PNEUMATISCH GESTEUERTES
Normal geöffnet
Doppelt wirkend
mit Flanschen, nach ISO DIN
PN 10/16.
PVC-U, PP-H, PVDF, PVC-C



d	DN	PN	B	B ₁	C	H	h	H ₁	Ra	I	J	F	øf	U	Sp	g
20	15	10	144	26	120	130	12	126	G 1/4"	25	M6	65	14	4	11	1440
25	20	10	144	26	120	150	12	126	G 1/4"	25	M6	75	14	4	13,5	1500
32	25	10	144	26	120	160	12	126	G 1/4"	25	M6	85	14	4	14	1580
40	32	10	201	40	133	180	18	155	G 1/4"	44,5	M8	100	18	4	14	3260
50	40	10	201	40	133	200	18	155	G 1/4"	44,5	M8	110	18	4	16	3375
63	50	10	237	40	156	230	18	210	G 1/4"	44,5	M8	125	18	4	16	5370
75	65	6	305	55	252	290	23	258	G 1/4"	100	M12	145	18	4	21	13600
90	80	6	305	55	252	310	23	258	G 1/4"	100	M12	160	18	8	21,5	14500
110	100	6	330	69	268	350	23	258	G 1/4"	120	M12	180	18	8	22,5	24400

Tabella relativa al PVC-U

Tables relevant to PVC-U

Tableaux concernant le PVC-U

Tabellen gültig für PVC-U

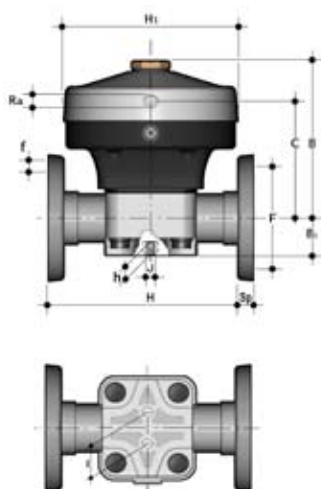
VMOAV/NO-DA VMOAM/NO-DA VMOAF/NO-DA VMOAC/NO-DA

VALVOLA A MEMBRANA
A COMANDO PNEUMATICO
Normalmente Aperta
Doppio Effetto
con flange fisse foratura
ANSI 150 #FF
PVC-U, PP-H, PVDF, PVC-C

DIAPHRAGM VALVE
PNEUMATICALLY ACTUATED
Normally Open
Double Acting
with ANSI 150 #FF fixed flanges
PVC-U, PP-H, PVDF, PVC-C

VANNE à MEMBRANE
à COMMANDE PNEUMATIQUE
Normalement Ouvert
Double Effet
avec brides fixes ANSI 150 #FF
PVC-U, PP-H, PVDF, PVC-C

MEMBRANVENTIL
PNEUMATISCH GESTEUERTES
Normal geöffnet
Doppelt wirkend
mit Flanschen, nach ANSI 150 #FF
PVC-U, PP-H, PVDF, PVC-C



size	PN	B	B ₁	C	H	h	H ₁	Ra	I	J	F	øf	U	Sp	g
1/2"	10	144	26	120	130	12	126	G 1/4"	25	M6	60,3	15,9	4	11	1440
3/4"	10	144	26	120	150	12	126	G 1/4"	25	M6	69,9	15,9	4	13,5	1500
1"	10	144	26	120	160	12	126	G 1/4"	25	M6	79,4	15,9	4	14	1580
1 1/4"	10	201	40	133	180	18	155	G 1/4"	44,5	M8	88,9	15,9	4	14	3260
1 1/2"	10	201	40	133	200	18	155	G 1/4"	44,5	M8	98,4	15,9	4	16	3375
2"	10	237	40	156	230	18	210	G 1/4"	44,5	M8	120,7	19,1	4	16	5370
2 1/2"	6	305	55	252	290	23	258	G 1/4"	100	M12	139,7	19,1	4	21	13600
3"	6	305	55	252	310	23	258	G 1/4"	100	M12	152,4	19,1	4	21,5	14500
4"	6	330	69	268	350	23	258	G 1/4"	120	M12	190,5	19,1	8	22,5	24400

Tabella relativa al PVC-U

Tables relevant to PVC-U

Tableaux concernant le PVC-U

Tabellen gültig für PVC-U

Installazione sull'impianto

- 1) La valvola può essere installata in qualsiasi posizione e direzione. Nelle giunzioni per incollaggio prestare la massima attenzione affinché il collante non penetri nella valvola stessa.
- 2) Collegare l'attuatore con un sistema di pilotaggio appropriato. Controllare che la pressione del fluido di comando e di esercizio sia conforme alle specifiche.
- 3) Pressioni di esercizio esageratamente elevate riducono la durata della membrana di comando (usare riduttori di pressione). Tempi di apertura lenti ne migliorano invece la durata.
- 4) E' consigliabile ancorare la valvola ad un punto fisso.

Nota

Poiché la guarnizione a membrana è compressa tra corpo ed attuatore, bulloni del corpo valvola devono essere controllati e serrati, se necessario, prima dell'installazione. Per questa operazione fare riferimento al foglio istruzioni.

Smontaggio

- 1) Intercettare il fluido a monte della valvola ed assicurarsi che non rimanga in pressione (scaricare a valle se necessario).
- 2) Rimuovere i tappi di protezione (12), svitare le viti (11) per separare il corpo (9) dal gruppo attuatore (1).
- 3) Svitare la membrana di tenuta (8) e rimuovere l'otturatore (6).

Connection to the system

- 1) The valve can be installed in any position and direction. When installing the valve by solvent welding take extreme care to ensure that the solvent does not run into the valve body.
- 2) Connect the actuator with a suitable pilot System. Check that both working and control pressure are in accordance with the specifications.
- 3) Unnecessary high pressure shorten control diaphragm's life (use pressure reducers). Slow opening times make it longer.
- 4) To fix the valve body to a steady point is recommended.

Note

As the diaphragm is compressed between body and actuator, the bolts of the valve body should be checked and tightened, if necessary, before the installation. For this operation read the instruction sheet.

Disassembly

- 1) Intercept the conveyed fluid upstream the valve and ensure that it is not under pressure (vent downstream if necessary).
- 2) Remove the protecting plugs (12), unscrew the bolts (11) to separate the body (9) from the actuator group (1).
- 3) Unscrew the diaphragm (8) and remove the loose compressor (6).

Montage sur l'installation

- 1) Le robinet peut être installé dans n'importe quelle position. Lorsque le raccordement est effectué par collage il faut veiller à ce que le collant ne coule pas à l'intérieur du corps, compromettant l'étanchéité.
- 2) Connecter l'actionneur avec un système de pilotage approprié. Contrôler que les pressions du fluide de commande et d'exercice soient conformes aux spécifications.
- 3) Des pressions d'exercice exagérément élevées réduisent beaucoup la vie de la membrane. Des temps d'ouverture lents assurent une durée prolongée.
- 4) Il est conseillé de ancrer la vanne à un point fixe.

Note

Avant l'installation c'est nécessaire de vérifier, si nécessaire, de bien serrer les boulons car la membrane est comprimée entre le corps et la tête. Pour cette opération, lisez la fiche d'instructions.

Démontage

- 1) Arrêtez le fluide en amont du robinet et s'assurer qu'il ne soit plus sous pression (si nécessaire décharger en aval).
- 2) Enlever les bouchons (12), dévisser les vis (11) et séparer le corps (9) du groupe actionneur (1).
- 3) Dévisser la membrane (8) et enlever l'obturateur (6).

Einbau in eine Leitung

- 1) Das Ventil kann unabhängig von Lage und Durchflußrichtung eingebaut werden. Bei Klebeanschlüssen ist unbedingt darauf zu achten, daß kein Klebstoff in das Ventilgehäuse hineinläuft.
- 2) Der Antrieb ist mit einem passenden Pilot-Ventil zu versehen. Es ist zu überprüfen, daß Betriebsdruck und Steuerdruck den Angaben unter "Technische Daten" entsprechen.
- 3) Unnötig hohe Steuerdrücke verkürzen die Lebensdauer der Steuermembrane (Druckminderventil!). Langsame Öffnungszeiten verbessern die Lebensdauer.
- 4) Eine Befestigung des Ventils ist zu empfehlen.

Merke

Da sich Membranen im Laufe der Zeit setzen, sollten vor Inbetriebnahme der Ventile Schrauben und Muttern körperseitig auf festen Sitz überprüft und gegebenenfalls nachgezogen werden. Für diesen Vorgang lesen Sie bitte die Anleitung.

Demontage

- 1) Die Leitung ist an geeigneter Stelle drucklos zu machen und zu entleeren.
- 2) Zur Trennung des Antriebes vom Gehäuse (12), sind die Schutzkappen (11) zu entfernen und die Schrauben (9) zu lösen.
- 3) Membrane abschrauben (8) und Druckstück (6) entfernen.

Montaggio

- 1) Inserire l'otturatore (6) sullo stelo dell'attuatore (1).
- 2) Avvitare la membrana (8) sullo stelo, attraverso l'otturatore (6), in senso orario fino a quando non si incontra resistenza. Quindi svitare la membrana in senso antiorario fino al suo allineamento con i fori dei bulloni.
- 3) Posizionare il gruppo attuatore (1) sul corpo valvola (9) ed avvitare le viti (11).
- 4) Stringere le viti (11) con una chiave dinamometrica, applicando le coppie raccomandate nel foglio istruzioni.
- 5) Coprire quindi le viti con i tappi di protezione (12).

Assembly

- 1) Put the compressor (6) on the actuator spindle (1).
- 2) Screw the diaphragm (8) clockwise in the valve spindle via the compressor (6) until resistant is felt upon which the diaphragm should be screwed anti-clockwise until alignment with the bolt hole centres is achieved.
- 3) Put the actuator group (1) on the body (9) and screw in the bolts (11).
- 4) Tighten the bolts (11), by means of a torque meter wrench, and applying the torques recommended in the instructions sheet.
- 5) Then cover the bolts with the protection caps (12)

Montage

- 1) Positioner l'obturateur (6) sur la bague (1).
- 2) Visser la membrane (8) sur la tige de manoeuvre, à travers l'obturateur (6), dans le sens horaire jusqu'à rencontrer résistance; ensuite dévisser la membrane jusqu'à la correspondance des trous de la membrane de commande avec les trous de l'actionneur.
- 3) Positioner le groupe actionneur (1) sur le corps (9) et placer les vis (11).
- 4) Serrer les vis (11), avec une clef dynamométrique, en appliquant les couples de serrage indiqués sur la notice d'instruction.
- 5) Placer les bouchons de protection (12).

Montage

- 1) Setzen Sie den Kompressor (6) an der Ventilspindel (1).
- 2) Die Membrane (8) ist in der Ventilspindel durch den Kompressor (6) im Uhrzeigersinn zu schrauben, bis Resistenz zu spüren ist. Jetzt ist die Membrane gegen den Uhrzeigersinn abzuschrauben um die Membrane mit den Löchern der Schrauben zu zentrieren.
- 3) Der Antrieb auf dem Körper (1) legen und die Schrauben (9) mit den Muttern (11) ziehen.
- 4) Die Schrauben (11) mit einer Drehmomentschlüssel mit den in der Gebrauchsanweisung empfohlenen Werte festziehen.
- 5) Dann decken Sie die Schrauben mit den Schutzkappen (12).

**Attenzione**

Tutte le operazioni su apparecchiature in pressione, o contenenti molle compresse, devono essere effettuate in condizioni di sicurezza per l'operatore.

**Warning**

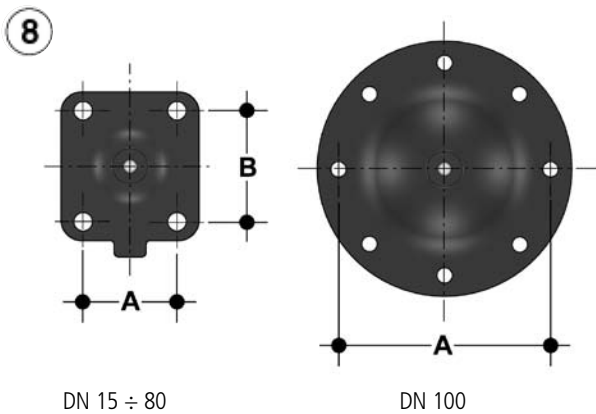
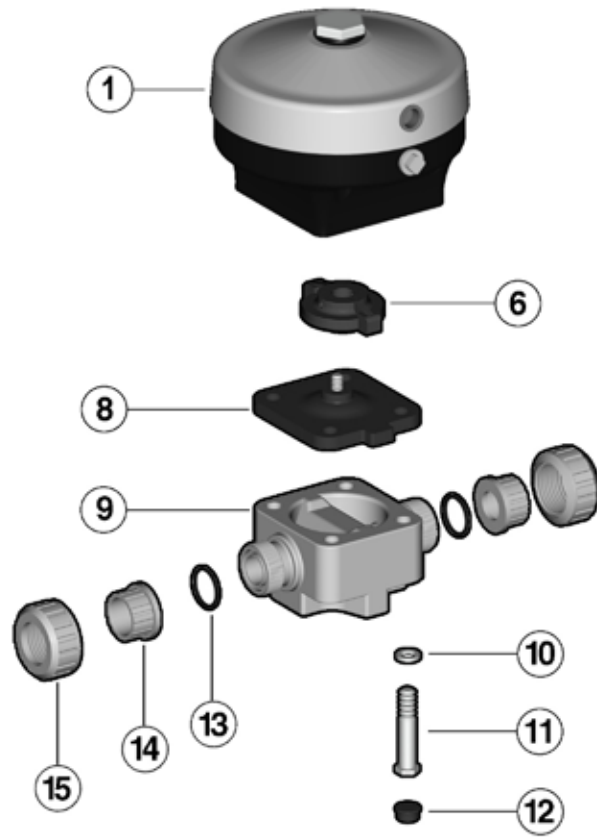
All the activities with pressurized equipments, or including compressed springs, must be undertaken in safety conditions for the operators.

**Attention**

Toute opération sur les appareils en pression, ou réglés par des ressorts comprimés, doit être effectuée en état de sécurité du personnel.

**Warnung**

Alle Tätigkeiten mit druckbeaufschlagten Geräten inklusiv vorgespannter Federn, dürfen nur unter Voraussetzung von entsprechenden Sicherheitsbedingungen für das Personal durchgeführt werden.



DN	15	20	25	32	40	50	65	80	100
A	46	46	46	65	65	78	114	114	193
B	54	54	54	70	70	82	127	127	-

VM / NO - DA

Pos.	Componenti	Materiale	Q.tà
1	attuatore	PP-GR	1
6	otturatore	PA-GR	1
8	membrana di tenuta	EPDM, FPM, NBR, PTFE	1
9	corpo valvola	PVC-U, PVC-C, PP-H, PVDF	1
10	rondella	(*) acciaio zincato	4
11	viti esagonali	(*) acciaio zincato	4
12	tappo di protezione	PE	4
13	o-ring	EPDM, FPM	1
14	manicotto	PVC-U, PVC-C, PP-H, PVDF	2
15	ghiera	PVC-U, PVC-C, PP-H, PVDF	2

(*) acciaio inox per valvole in PVDF

Pos.	Composants	Materiaux	Q.té
1	actionneur	PP-GR	1
6	compresseur	PA-GR	1
8	membrane de corps	EPDM, FPM, NBR, PTFE	1
9	corps de vanne	PVC-U, PVC-C, PP-H, PVDF	1
10	rondelle	(*) acier zingué	4
11	vis	(*) acier zingué	4
12	bouchon de protection	PE	4
13	o-ring	EPDM, FPM	1
14	collet	PVC-U, PVC-C, PP-H, PVDF	2
15	écrou union	PVC-U, PVC-C, PP-H, PVDF	2

(*) acier inoxydable pour vannes PVDF

Pos.	Components	Material	Q.ty
1	actuator	PA-GR	1
6	compressor	PA-GR	1
8	sealing diaphragm	EPDM, FPM, NBR, PTFE	1
9	valve body	PVC-U, PVC-C, PP-H, PVDF	1
10	washer	(*) zincplated steel	4
11	hexagonal screw	(*) zincplated steel	4
12	plug	PE	4
13	o-ring	EPDM, FPM	2
14	end connector	PVC-U, PVC-C, PP-H, PVDF	2
15	union nut	PVC-U, PVC-C, PP-H, PVDF	2

(*) stainless steel for PVDF valves

Pos.	Benennung	Werkstoff	Stk
1	Antrieb	PA-GR	1
6	Druckstück	PA-GR	1
8	Membrane	EPDM, FPM, NBR, PTFE	1
9	Ventilkörper	PVC-U, PVC-C, PP-H, PVDF	1
10	Scheibe	(*) St. Verzinkt	4
11	Schraube	(*) St. Verzinkt	4
12	Schutzkappe	PE	4
13	o-ring	EPDM, FPM	2
14	Anschlußteile	PVC-U, PVC-C, PP-H, PVDF	2
15	Überwurfmutter	PVC-U, PVC-C, PP-H, PVDF	2

(*) Edelstahl für PVDF Ventil

VMDV/CP NO-DA VMDM/CP NO-DA VMDF/CP NO-DA VMDC/CP NO-DA

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		EPDM	FPM	EPDM	FPM	EPDM	FPM	EPDM	FPM
20	15	VMDVNO020E	VMDVNO020F	VMDMNO020E	VMDMNO020F	VMDFNO020E	VMDFNO020F	VMDCNO020E	VMDCNO020F
25	20	VMDVNO025E	VMDVNO025F	VMDMNO025E	VMDMNO025F	VMDFNO025E	VMDFNO025F	VMDCNO025E	VMDCNO025F
32	25	VMDVNO032E	VMDVNO032F	VMDMNO032E	VMDMNO032F	VMDFNO032E	VMDFNO032F	VMDCNO032E	VMDCNO032F
40	32	VMDVNO040E	VMDVNO040F	VMDMNO040E	VMDMNO040F	VMDFNO040E	VMDFNO040F	VMDCNO040E	VMDCNO040F
50	40	VMDVNO050E	VMDVNO050F	VMDMNO050E	VMDMNO050F	VMDFNO050E	VMDFNO050F	VMDCNO050E	VMDCNO050F
63	50	VMDVNO063E	VMDVNO063F	VMDMNO063E	VMDMNO063F	VMDFNO063E	VMDFNO063F	VMDCNO063E	VMDCNO063F

VMDV/CP NO-DA VMDM/CP NO-DA VMDF/CP NO-DA VMDC/CP NO-DA

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		PTFE		PTFE		PTFE		PTFE	
20	15		VMDVNO020P		VMDMNO020P		VMDFNO020P		VMDCNO020P
25	20		VMDVNO025P		VMDMNO025P		VMDFNO025P		VMDCNO025P
32	25		VMDVNO032P		VMDMNO032P		VMDFNO032P		VMDCNO032P
40	32		VMDVNO040P		VMDMNO040P		VMDFNO040P		VMDCNO040P
50	40		VMDVNO050P		VMDMNO050P		VMDFNO050P		VMDCNO050P
63	50		VMDVNO063P		VMDMNO063P		VMDFNO063P		VMDCNO063P

VMDV/CP NO VMDM/CP NO VMDF/CP NO VMDC/CP NO

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		EPDM	FPM	EPDM	FPM	EPDM	FPM	EPDM	FPM
75	65	VMDVNO075E	VMDVNO075F	VMDMNO075E	VMDMNO075F	VMDFNO075E	VMDFNO075F	VMDCNO075E	VMDCNO075F
90	80	VMDVNO090E	VMDVNO090F	VMDMNO090E	VMDMNO090F	VMDFNO090E	VMDFNO090F	VMDCNO090E	VMDCNO090F
110	100	VMDVNO110E	VMDVNO110F	VMDMNO110E	VMDMNO110F	VMDFNO110E	VMDFNO110F	VMDCNO110E	VMDCNO110F

VMDV/CP NO VMDM/CP NO VMDF/CP NO VMDC/CP NO

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		PTFE		PTFE		PTFE		PTFE	
75	65		VMDVNO075P		VMDMNO075P		VMDFNO075P		VMDCNO075P
90	80		VMDVNO090P		VMDMNO090P		VMDFNO090P		VMDCNO090P
110	100		VMDVNO110P		VMDMNO110P		VMDFNO110P		VMDCNO110P

VMDV/CP DA VMDM/CP DA VMDF/CP DA VMDC/CP DA

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		EPDM	FPM	EPDM	FPM	EPDM	FPM	EPDM	FPM
75	65	VMDVDA075E	VMDVDA075F	VMDMDA075E	VMDMDA075F	VMDFDA075E	VMDFDA075F	VMDCDA075E	VMDCDA075F
90	80	VMDVDA090E	VMDVDA090F	VMDMDA090E	VMDMDA090F	VMDFDA090E	VMDFDA090F	VMDCDA090E	VMDCDA090F
110	100	VMDVDA110E	VMDVDA110F	VMDMDA110E	VMDMDA110F	VMDFDA110E	VMDFDA110F	VMDCDA110E	VMDCDA110F

VMDV/CP DA VMDM/CP DA VMDF/CP DA VMDC/CP DA

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		PTFE		PTFE		PTFE		PTFE	
75	65		VMDVDA075P		VMDMDA075P		VMDFDA075P		VMDCDA075P
90	80		VMDVDA090P		VMDMDA090P		VMDFDA090P		VMDCDA090P
110	100		VMDVDA110P		VMDMDA110P		VMDFDA110P		VMDCDA110P

VMUIV/CP NO-DA VMUIM/CP NO-DA VMUIF/CP NO-DA VMUIC/CP NO-DA

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		EPDM	FPM	EPDM	FPM	EPDM	FPM	EPDM	FPM
20	15	VMUIVNO020E	VMUIVNO020F	VMUIMNO020E	VMUIMNO020F	VMUIFNO020E	VMUIFNO020F	VMUICNO020E	VMUICNO020F
25	20	VMUIVNO025E	VMUIVNO025F	VMUIMNO025E	VMUIMNO025F	VMUIFNO025E	VMUIFNO025F	VMUICNO025E	VMUICNO025F
32	25	VMUIVNO032E	VMUIVNO032F	VMUIMNO032E	VMUIMNO032F	VMUIFNO032E	VMUIFNO032F	VMUICNO032E	VMUICNO032F
40	32	VMUIVNO040E	VMUIVNO040F	VMUIMNO040E	VMUIMNO040F	VMUIFNO040E	VMUIFNO040F	VMUICNO040E	VMUICNO040F
50	40	VMUIVNO050E	VMUIVNO050F	VMUIMNO050E	VMUIMNO050F	VMUIFNO050E	VMUIFNO050F	VMUICNO050E	VMUICNO050F
63	50	VMUIVNO063E	VMUIVNO063F	VMUIMNO063E	VMUIMNO063F	VMUIFNO063E	VMUIFNO063F	VMUICNO063E	VMUICNO063F

VMUIV/CP NO-DA VMUIM/CP NO-DA VMUIF/CP NO-DA VMUIC/CP NO-DA

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		PTFE		PTFE		PTFE		PTFE	
20	15		VMUIVNO020P		VMUIMNO020P		VMUIFNO020P		VMUICNO020P
25	20		VMUIVNO025P		VMUIMNO025P		VMUIFNO025P		VMUICNO025P
32	25		VMUIVNO032P		VMUIMNO032P		VMUIFNO032P		VMUICNO032P
40	32		VMUIVNO040P		VMUIMNO040P		VMUIFNO040P		VMUICNO040P
50	40		VMUIVNO050P		VMUIMNO050P		VMUIFNO050P		VMUICNO050P
63	50		VMUIVNO063P		VMUIMNO063P		VMUIFNO063P		VMUICNO063P

VMUFV/CP NO-DA

R	DN	PVC-U		PVC-U		PVC-U	
		EPDM	FPM	EPDM	FPM	EPDM	PTFE
1/2"	15		VMUFVNO012E		VMUFVNO012F		VMUFVNO012P
3/4"	20		VMUFVNO034E		VMUFVNO034F		VMUFVNO034P
1"	25		VMUFVNO100E		VMUFVNO100F		VMUFVNO100P
1 1/4"	32		VMUFVNO114E		VMUFVNO114F		VMUFVNO114P
1 1/2"	40		VMUFVNO112E		VMUFVNO112F		VMUFVNO112P
2"	50		VMUFVNO200E		VMUFVNO200F		VMUFVNO200P

VMUAV/CP NO-DA VMUAC/CP NO-DA

d	DN	PVC-U		PVC-U		PVC-C	
		EPDM	FPM	EPDM	FPM	EPDM	PTFE
1/2"	15	VMUAVNO012E	VMUAVNO012F	VMUAVNO012P	VMUACNO012E	VMUACNO012F	VMUACNO012P
3/4"	20	VMUAVNO034E	VMUAVNO034F	VMUAVNO034P	VMUACNO034E	VMUACNO034F	VMUACNO034P
1"	25	VMUAVNO100E	VMUAVNO100F	VMUAVNO100P	VMUACNO100E	VMUACNO100F	VMUACNO100P
1 1/4"	32	VMUAVNO114E	VMUAVNO114F	VMUAVNO114P	VMUACNO114E	VMUACNO114F	VMUACNO114P
1 1/2"	40	VMUAVNO112E	VMUAVNO112F	VMUAVNO112P	VMUACNO112E	VMUACNO112F	VMUACNO112P
2"	50	VMUAVNO200E	VMUAVNO200F	VMUAVNO200P	VMUACNO200E	VMUACNO200F	VMUACNO200P

VMULV/CP NO-DA

d	DN	PVC-U		PVC-U		PVC-U	
		EPDM		EPDM	FPM	EPDM	PTFE
1/2"	15		VMULVNO012E		VMULVNO012F		VMULVNO012P
3/4"	20		VMULVNO034E		VMULVNO034F		VMULVNO034P
1"	25		VMULVNO100E		VMULVNO100F		VMULVNO100P
1 1/4"	32		VMULVNO114E		VMULVNO114F		VMULVNO114P
1 1/2"	40		VMULVNO112E		VMULVNO112F		VMULVNO112P
2"	50		VMULVNO200E		VMULVNO200F		VMULVNO200P

VMOV/CP NO-DA VMOM/CP NO-DA VMOF/CP NO-DA VMOC/NO-DA

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		EPDM	FPM	EPDM	FPM	EPDM	FPM	EPDM	FPM
20	15	VMOVNO020E	VMOVNO020F	VMOMNO020E	VMOMNO020F	VMOFNO020E	VMOFNO020F	VMOCNO020E	VMOCNO020F
25	20	VMOVNO025E	VMOVNO025F	VMOMNO025E	VMOMNO025F	VMOFNO025E	VMOFNO025F	VMOCNO025E	VMOCNO025F
32	25	VMOVNO032E	VMOVNO032F	VMOMNO032E	VMOMNO032F	VMOFNO032E	VMOFNO032F	VMOCNO032E	VMOCNO032F
40	32	VMOVNO040E	VMOVNO040F	VMOMNO040E	VMOMNO040F	VMOFNO040E	VMOFNO040F	VMOCNO040E	VMOCNO040F
50	40	VMOVNO050E	VMOVNO050F	VMOMNO050E	VMOMNO050F	VMOFNO050E	VMOFNO050F	VMOCNO050E	VMOCNO050F
63	50	VMOVNO063E	VMOVNO063F	VMOMNO063E	VMOMNO063F	VMOFNO063E	VMOFNO063F	VMOCNO063E	VMOCNO063F

VMOV/CP NO-DA VMOM/CP NO-DA VMOF/CP NO-DA VMOC/CP NO-DA

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		PTFE		PTFE		PTFE		PTFE	
20	15		VMOVNO020P		VMOMNO020P		VMOFNO020P		VMOCNO020P
25	20		VMOVNO025P		VMOMNO025P		VMOFNO025P		VMOCNO025P
32	25		VMOVNO032P		VMOMNO032P		VMOFNO032P		VMOCNO032P
40	32		VMOVNO040P		VMOMNO040P		VMOFNO040P		VMOCNO040P
50	40		VMOVNO050P		VMOMNO050P		VMOFNO050P		VMOCNO050P
63	50		VMOVNO063P		VMOMNO063P		VMOFNO063P		VMOCNO063P

VMOV/CP NO VMOM/CP NO VMOF/CP NO VMOC/CP NO

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		EPDM	FPM	EPDM	FPM	EPDM	FPM	EPDM	FPM
75	65	VMOVNO075E	VMOVNO075F	VMOMNO075E	VMOMNO075F	VMOFNO075E	VMOFNO075F	VMOCNO075E	VMOCNO075F
90	80	VMOVNO090E	VMOVNO090F	VMOMNO090E	VMOMNO090F	VMOFNO090E	VMOFNO090F	VMOCNO090E	VMOCNO090F
110	100	VMOVNO110E	VMOVNO110F	VMOMNO110E	VMOMNO110F	VMOFNO110E	VMOFNO110F	VMOCNO110E	VMOCNO110F

VMOV/CP NO VMOM/CP NO VMOF/CP NO VMOC/CP NO

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		PTFE		PTFE		PTFE		PTFE	
75	65		VMOVNO075P		VMOMNO075P		VMOFNO075P		VMOCNO075P
90	80		VMOVNO090P		VMOMNO090P		VMOFNO090P		VMOCNO090P
110	100		VMOVNO110P		VMOMNO110P		VMOFNO110P		VMOCNO110P

VMOV/CP DA VMOM/CP DA VMOF/CP DA VMOC/CP DA

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		EPDM	FPM	EPDM	FPM	EPDM	FPM	EPDM	FPM
75	65	VMOFDA075E	VMOFDA075F	VMOMDA075E	VMOMDA075F	VMOFDA075E	VMOFDA075F	VMOCDA075E	VMOCDA075F
90	80	VMOFDA090E	VMOFDA090F	VMOMDA090E	VMOMDA090F	VMOFDA090E	VMOFDA090F	VMOCDA090E	VMOCDA090F
110	100	VMOFDA110E	VMOFDA110F	VMOMDA110E	VMOMDA110F	VMOFDA110E	VMOFDA110F	VMOCDA110E	VMOCDA110F

VMOV/CP DA VMOM/CP DA VMOF/CP DA VMOC/CP DA

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		PTFE		PTFE		PTFE		PTFE	
75	65		VMOFDA075P		VMOMDA075P		VMOFDA075P		VMOCDA075P
90	80		VMOFDA090P		VMOMDA090P		VMOFDA090P		VMOCDA090P
110	100		VMOFDA110P		VMOMDA110P		VMOFDA110P		VMOCDA110P

VMOAV/CP NO-DA VMOAM/CP NO-DA VMOAF/CP NO-DA VMOAC/NO-DA

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		EPDM	FPM	EPDM	FPM	EPDM	FPM	EPDM	FPM
1/2"	15	VMOAVNO012E	VMOAVNO012F	VMOAMNO012E	VMOAMNO012F	VMOAFNO012E	VMOAFNO012F	VMOACNO012E	VMOACNO012F
3/4"	20	VMOAVNO034E	VMOAVNO034F	VMOAMNO034E	VMOAMNO034F	VMOAFNO034E	VMOAFNO034F	VMOACNO034E	VMOACNO034F
1"	25	VMOAVNO100E	VMOAVNO100F	VMOAMNO100E	VMOAMNO100F	VMOAFNO100E	VMOAFNO100F	VMOACNO100E	VMOACNO100F
1 1/4"	32	VMOAVNO114E	VMOAVNO114F	VMOAMNO114E	VMOAMNO114F	VMOAFNO114E	VMOAFNO114F	VMOACNO114E	VMOACNO114F
1 1/2"	40	VMOAVNO112E	VMOAVNO112F	VMOAMNO112E	VMOAMNO112F	VMOAFNO112E	VMOAFNO112F	VMOACNO112E	VMOACNO112F
2"	50	VMOAVNO200E	VMOAVNO200F	VMOAMNO200E	VMOAMNO200F	VMOAFNO200E	VMOAFNO200F	VMOACNO200E	VMOACNO200F

VMOAV/CP NO-DA VMOAM/CP NO-DA VMOAF/CP NO-DA VMOAC/CP NO-DA

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
1/2"	15		VMOAVNO012P		VMOAMNO012P		VMOAFNO012P		VMOAVNO012P
3/4"	20		VMOAVNO034P		VMOAMNO034P		VMOAFNO034P		VMOAVNO034P
1"	25		VMOAVNO100P		VMOAMNO100P		VMOAFNO100P		VMOAVNO100P
1 1/4"	32		VMOAVNO114P		VMOAMNO114P		VMOAFNO114P		VMOAVNO114P
1 1/2"	40		VMOAVNO112P		VMOAMNO112P		VMOAFNO112P		VMOAVNO112P
2"	50		VMOAVNO200P		VMOAMNO200P		VMOAFNO200P		VMOAVNO200P

VMOAV/CP NO VMOAM/CP NO VMOAF/CP NO VMOAC/NO

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		EPDM	FPM	EPDM	FPM	EPDM	FPM	EPDM	FPM
2 1/2"	65	VMOVNO075E	VMOVNO075F	VMOMNO075E	VMOMNO075F	VMOFNO075E	VMOFNO075F	VMOACNO075E	VMOACNO075F
3"	80	VMOAVNO300E	VMOAVNO300F	VMOAMNO300E	VMOAMNO300F	VMOAFNO300E	VMOAFNO300F	VMOACNO300E	VMOACNO300F
4"	100	VMOVNO110E	VMOVNO110F	VMOMNO110E	VMOMNO110F	VMOFNO110E	VMOFNO110F	VMOACNO110E	VMOACNO110F

VMOAV/CP NO VMOAM/CP NO VMOAF/CP NO VMOAC/CP NO

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
2 1/2"	65		VMOVNO075P		VMOMNO075P		VMOFNO075P		VMOACNO075P
3"	80		VMOAVNO300P		VMOAMNO300P		VMOAFNO300P		VMOACNO300P
4"	100		VMOVNO110P		VMOMNO110P		VMOFNO110P		VMOACNO110P

VMOAV/CP NO VMOAM/CP NO VMOAF/CP NO VMOAC/NO

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		EPDM	FPM	EPDM	FPM	EPDM	FPM	EPDM	FPM
2 1/2"	65	VMOVDA075E	VMOVDA075F	VMOMDA075E	VMOMDA075F	VMOFDA075E	VMOFDA075F	VMOACDA075E	VMOACDA075F
3"	80	VMOAVDA300E	VMOAVDA300F	VMOAMDA300E	VMOAMDA300F	VMOAFDA300E	VMOAFDA300F	VMOACDA300E	VMOACDA300F
4"	100	VMOVDA110E	VMOVDA110F	VMOMDA110E	VMOMDA110F	VMOFDA110E	VMOFDA110F	VMOACDA110E	VMOACDA110F

VMOAV/CP DA VMOAM/CP DA VMOAF/CP DA VMOAC/CP DA

d	DN	PVC-U		PP-H		PVDF		PVC-C	
		PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
2 1/2"	65		VMOVDA075P		VMOMDA075P		VMOFDA075P		VMOACDA075P
3"	80		VMOAVDA300P		VMOAMDA300P		VMOAFDA300P		VMOACDA300P
4"	100		VMOVDA110P		VMOMDA110P		VMOFDA110P		VMOACDA110P