SAS SINTERIZZATI srl

VALVES

SAS
SINTERIZZATI srl

SALA BOLOGNESE (BO) - ITALIA - *ITALY* - SINTERIZZATI - *SINTERED*

SALA BOLOGNESE (BO) - ITALIA - *ITALY* - PNEUMATICA - *PNEUMATIC*

SAULIEU - FRANCIA - *FRANCE*

CORFÙ - GRECIA - *GREECE*

SHANGHAI - CINA - *CHINA*

Dal 1978 produciamo componenti meccanici sinterizzati su disegno del Cliente e boccole sinterizzate in ferro ed in bronzo sia cilindriche che flangiate. La produzione comprende anche le bronzine autolubrificanti con tolleranze Fips, marchio rilevato negli anni novanta. Realizziamo inoltre una vasta gamma di accessori e componenti per la Pneumatica, commercializzati in oltre 70 nazioni sia direttamente che come prodotti OEM. Produciamo infine filtri sinterizzati su disegno, utilizzando il bronzo sferico, l'acciaio inossidabile Aisi 316L (in filo ed in polvere) , la ceramica e la plastica porosa.

Since 1978 we have been producing sintered mechanical components based on the customer's design and sintered bushings in iron and bronze, both cylindrical and flanged. The production also includes self-lubricating bushings with Fips tolerances, a brand taken over in the nineties. We also produce a wide range of accessories and components for pneumatics, marketed in over 70 countries both directly and as OEM products. Finally, we produce customized sintered filters, using spherical bronze, Aisi 316L stainless steel (in wire and powder), ceramic and porous plastic.

(I)

RESA MERCE: Franco nostro magazzino - IMBALLO: 1% - TRASPORTO: Sempre a rischio del destinatario anche se la merce è venduta in porto franco. Si prega di voler sempre indicare sugli ordini il nominativo del proprio corriere. In mancanza di tale indicazione decliniamo ogni responsabilità per eventuali disguidi. MATERIALI RESI: Non si accetta merce di ritorno senza nostra preventiva autorizzazione ed in ogni caso il reso dovrà avvenire in porto franco. CONTESTAZIONI: Non si accettano reclami 8 giorni dopo il ricevimento della merce - PAGAMENTI: Le condizioni di pagamento saranno quelle concordate ed indicate in fattura e sono vincolanti. Trascorse le scadenze convenute saranno conteggiati gli interessi di mora calcolati secondo il tasso bancario medio praticato alla data del pagamento - FORO COMPETENTE: Bologna - RISERVA DI PROPRIETÀ: La merce consegnata rimane di riservato dominio della fornitrice, fino all'avvenuto pagamento - GARANZIE: I nostri prodotti sono garantiti da polizza R.C. prodotti.

(GB)

DELIVERY TERMS: ExW SAS Sinterizzati's Plant - PACKING: 1% - TRANSPORT: The risk of transport is carried by the customer, even if it has been agreed that we will take care of, organize or be otherwise involved in the transport. The Customer must always communicate the name of the Carrier. Without such indication we don't accept any liability in case of failures - RETURNED PRODUCTS: Subject to SAS's prior written authorization, non-complying products may be returned by Customer at its own expense - COMPLAINTS: Any hidden defects of the productsmust be reported by Customer within 8 days of their receipt - TERMS OF PAYMENT: The prices of the products shall be those stated in the corresponding.Order Confirmation and Invoice. In case of failure by Customer to pay any amount due, SAS Sinterizzati Srl shall be entitle to calculate interests in arrears as per Legislative Decree - JURISDICTION COURT: Bologna - PRODUCTS PROPERTY: All goods remain the property of SAS Sinterizzati Srl until payment in full is received - WARRANTY: SAS products are guaranteed by insurance R.C.

(FR)

CONDITIONS DE LIVRAISON: ExW SAS Sinterizzati - EMBALLAGE: 1% du montant de la facture - TRANSPORT: Le risque du transport est de la responsabilité du client. Le client doit toujours communiquer le nom du transporteur. Sans ces indications, nous dégageons toute responsabilité dans le cas de problème - RETOUR DE PRODUITS: Sans accord écrit de SAS Sinterizzati, tous les coûts concernant le retour de marchandise ne pourront être pris en charge par SAS Sinterizzati - RÉCLAMATIONS: Toute non-conformité de produit devra être communiquée sous un délai de 8 jours maximum à réception des marchandises pour que la réclamation puisse être prise en compte - CONDITIONS DE PAIEMENT: Les prix et délais de paiement des produits sont ceux qui sont précisés sur nos propositions, confirmation de commande et facturation. Toute facture dont le paiement ne serait pas effectué à la date d'échéance donnera lieu à des calculs d'intérêt suivant décret législatif - CLAUSE ATTRIBUTIVE DE JURIDICTION: En cas de différend, le Tribunal de Bologne est seul compétent - RÉSERVE DE PROPRIÉTÉ: Le transfert de propriété des marchandises livrées est différé jusqu'au paiement intégral du prix correspondant - GARANTIE: Les produits de SAS Sinterizzati sont garantis par une assurance de responsabilité civile.

(D)

LIEFERBEDINGUNGEN: ExW SAS Sinterizzati's Werk - VERPACKUNG: 1% - TRANSPORT: Das Transportrisiko wird vom Kunden getragen, auch wenn es vereinbart wurde, wir kümmern uns um, organisieren oder werden anderweitig am Transport beteiligt. Der Kunde muss immer den Namen des Luftfrachtführers mitteilen. Ohne solche Angabe übernehmen wir keine Haftung bei Ausfällen - RÜCKGABEPRODUKTE: Vorbehaltlich der vorherigen schriftlichen Genehmigung von SAS können nicht abweichende Produkte vom Kunden auf eigene Kosten zurückgesandt werden - BESCHWERDEN: Alle verborgenen Mängel der Produkte sind zu melden vom Kunden innerhalb von 8 Tagen nach deren Eingang - ZAHLUNGSBEDINGUNGEN: Die Preise der Produkte sind diejenigen, die in der entsprechenden Widerrufserklärung angegeben sind. SAS Sinterizzati Sri ist berechtigt, die Verzugszinsen nach dem Gesetzesdekret zu berechnen - GERICHTSSTANDSGERICHT: Bologna - PRODUKTE EIGENTUM: Alle Waren bleiben Eigentum von SAS Sinterizzati Sri bis zur vollständigen Bezahlung erhalten - WAIRRANTY: SAS Produkte werden durch Versicherung RC garantiert

(E)

ENTREGA DE LA MERCANCÍA: Disponible para el adquiriente en nuestro almacén - EMBALAJE: 1% - TRANSPORTE: Es siempre a riesgo del receptor/adquiriente aún cuando la mercancía es vendida en puerto gratuito. Se pide de indicar siempre en los pedidos el nombre de vuestra empresa de transporte/transportista. En ausencia de tal indicación, no aceptamos ninguna responsabilidad por cualquier malentendido o error - MERCANCÍA DEVUELTA: No aceptamos devolución de mercancía sin nuestra autorización previa y en cualquier caso la devolución deberá ser hecha a cargo del adquirente. CONTESTACIONES: No aceptamos quejas/reclamos 8 días después de la recepción de la mercancía - PAGOS: Las condiciones de pago serán las acordadas e indicadas en la factura y son vinculantes. Pasados los plazos acordados, serán aplicados los intereses de demora calculados según el interés bancario promedio aplicado en la fecha de pago - JURISDICCIÓN: Bolonia - RESERVA DE PROPIEDAD: La mercancía suministrada sigue siendo de nuestra propriedad hasta que el adquiriente haya realizado el pago completo de todo - GARANCIAS: Nuestros productos están asegurados por la póliza R.C. Productos.

(P)

ENTREGA: Em nosso depósito - EMBALAGEM: 1% - TRANSPORTE: Todos os riscos são responsabilidades do destinatário inclusive quando a entrega for em franco de porte. Indicar sempre o nome do transportador no pedido de compra. Na falta de tal indicação não nos responsabilizamos por qualquer transtorno - DEVOLUÇÕES: Não serão aceitas devoluções de mercadorias sem a nossa prévia concordância e em todos os casos tais procedimentos serão custeados pelo emitente - RECLAMAÇÕES: Todas as reclamações deverão ser apresentadas em até 8 dias após a entrega da mercadoria - CONDIÇÕES DE PAGAMENTO: As condições de pagamento serão previamente acordadas e indicadas no pedido de compra sendo as mesmas indispensáveis. Findo o prazo limite de vencimento estipulado, reservamo-nos o direito de aplicar juros bancários até a regularização do pagamento - FORO COMPETENTE: Bolonha - RESERVA DE PROPRIEDADE: Até a completa finalização dos pagamentos em aberto, reservamo-nos o direito de propriedade da mercadoria fornecida - GARANTIA: Nossos produtos são assegurados por uma empresa de responsabilidade cívil.

(S)

ÅTERSTÄLL VAROR: Ex-verk från vårt lager - FÖRPACKNING: 1% - TRANSPORT: Alltid på mottagarens risk även om varorna säljs. Vill du alltid ange namnet på din kurir vid beställningar. I avsaknad av denna indikation, avvisar vi något ansvar för eventuella fel. ÅTERBETALAT MATERIAL: Återlämnade varor accepteras inte utan vårt förhandsgodkännande och i vilket fall som helst måste returen betalas. Tvister: klagomål accepteras inte 8 dagar efter mottagandet av varorna - BETALNINGAR: Betalningsvillkoren är de som avtalats och anges på fakturan och är bindande. När de överenskomna tidsfristerna har gått, beräknas standardräntan beräknas enligt den genomsnittliga bankräntan som tillämpades på betalningsdatumet - JURISDIKTION: Bologna - RESERVE AV ÄGARE: Levererade varor förblir leverantörens reserverade domän tills betalning har gjorts - GARANTIER: I våra produkter garanteras av en RC-policy produkter.

(DK)

LEVERINGSBETINGELSER.: EXW SAS - PAKKEOMKOSTNINGER: 1% - FORSENDELSE: Risikoen for transport er pålagt modtageren af varen Selv om afsender er involveret i forsendelsen. Kunden skal altid informer om transportøren som skal bruges, uden denne Acceptere vi ikke klager såfremt noget går galt - RETURNEREDE VARE: Omkostninger ved tilbage levering, tilfalder køber - KLAGER.: ved fejl og mangler skal der informeres skriftligt inden 8 dage fra modtagelse af varen - BETALINGSBETINGELSER.: Priserne er ifølge fremsendte ordrebekræftelser og fakturaer. Såfremt betaling ikke bliver modtaget I henhold til dette, vil SAS sende faktura på renter og omkostninger med dette - LOV AFGØRELSE.: Bologna - EJENDOMSRET AF VARENE.: Indtil fuld betaling er modtaget er ejendomsretten af varene SAS - GARANTI.: Varene er forsikret under R.C.

(RC)

交货条款：SAS 工厂交货 - 包装：1% - 运输：运输风险由客户承担，既使运输是我们同意照看或得组织或者以其它方式参与
客户必须一直保持与承运人的联系，否则如果运输失败，我们不承担任何责任。- 退回产品：经SAS事先书面确认的，
不符合规定的产品可由客户自费退回 - 投诉：产品的任何隐藏缺陷必须在收到后8天内由客户报告 - 付款条款：
产品的货款应为相应订单和发票确认的价格。如客户未能支付任何款项，SAS Sinterizzati Srl有权根据法令计算拖欠的利息。
管辖法院：博洛尼亚 - 产品财产：所有货物仍然是SAS Sinterizzati Srl的财产直到收到全额付款 - 保证：SAS产品由保险R.C

(GR)

Στις εγκαταστάσεις μας. ΣΥΣΚΕΥΑΣΙΑ: 1% - ΜΕΤΑΦΟΡΑ: Πάντα σε κίνδυνο του παραλήπτη, ακόμη και αν έχει συμφωνηθεί ότι θα τα φροντίσουμε, θα οργανώσουμε ή θα συμμετάσχουμε με άλλο τρόπο στη μεταφορά. Ο Πελάτης πρέπει πάντα να γνωστοποιεί το όνομα του Μεταφορέα. Ελλείψει τέτοιας ένδειξης, παραβλέπουμε οποιαδήποτε ευθύνη για τυχόν σφάλματα. ΕΠΙΣΤΡΟΦΕΣ ΥΛΙΚΩΝ: Δεν δεχόμαστε τα εμπορεύματα επιστροφής χωρίς την προηγούμενη εξουσιοδότησή μας και σε κάθε περίπτωση η επιστροφή πρέπει να γίνει από τον Πελάτη με δικά του έξοδα. ΠΑΡΑΠΟΝΑ: Δεν δεχόμαστε παράπονα 8 ημέρες μετά την παραλαβή των αγαθών. ΠΛΗΡΩΜΕΣ: Οι όροι πληρωμής θα είναι εκείνοι που έχουν συμφωνηθεί και αναγράφονται στο τιμολόγιο και είναι δεσμευτικοί. Μετά τις συμφωνημένες προθεσμίες θα υπολογίζονται τόκοι υπερημερίας που υπολογίζονται με βάση το μέσο τραπεζικό επιτόκιο χρέωσης κατά την ημερομηνία της πληρωμής. ΔΙΚΑΙΟΔΟΣΙΑ: Δικαστήρια της Μπολόνια. ΚΡΑΤΗΣΗ ΙΔΙΟΚΤΗΣΙΑΣ: Όλα τα αγαθά παραμένουν στην ιδιοκτησία του προμηθευτή μέχρι την πλήρη εξόφληση . ΕΓΓΥΗΣΕΙΣ: Ο Τα προϊόντα μας είναι εγγυημένα από την ασφάλεια R.C .

- SALA BOLOGNESE (BO)
- SAULIEU

RETE VENDITA PAESI EXTRA EUROPEI
EXTRA EUROPEAN COUNTRIES SALES NETWORK

ARGENTINA	CINA	ISRAELE	NUOVA ZELANDA	TAILANDIA
AUSTRALIA	GIAPPONE	MALESIA	PORTOGALLO	TAIWAN
CANADA	GIORDANIA	MAROCCO	SINGAPORE	U.S.A.
CILE	INDIA	MESSICO	SUD AFRICA	VENEZUELA

ATEX

ATEX

SILENZIATORI

SILENCERS

REGOLATORI

REGULATORS

RACCORDI

FITTINGS

ACCESSORI

ACCESSORIES

FILTRI PER COLLA

GLUE FILTERS

TUBI E SPIRALI BASIC

TUBES BASIC

TUBI E SPIRALI PROFESSIONAL

TUBES PROFESSIONAL

VIBRATORI PNEUMATICI

PNEUMATIC VIBRATORS

GIUNTI ROTANTI

ROTARY JOINTS

LAME D'ARIA

MODULAR AIR WINGS ®

TUBI REFRIGERATORI PNEUMATICI

ICE VALVE PANEL COOLER

ATTUATORI PNEUMATICI

ACTUATORS

VALVOLE A SFERA E FARFALLA

VALVES

VALVOLE AUSILIARIE

AUXILIARY VALVES

ELETTROVALVOLE

SOLENOID VALVES

ISOLE DI VALVOLE

ISLES OF VALVES

CILINDRI

CYLINDERS

CILINDRI ELETTRICI

ELECTRIC CYLINDERS

HANDLING

HANDLING

FISSAGGI

CYLINDER'S MOUNTING PARTS

TRATTAMENTO ARIA

AIR TREATMENT A-D-X - TYPE

VACUUM

VACUUM

MOTORI AD ARIA

AIR MOTORS

PIASTRE DI MASSA

GROUND PLATES

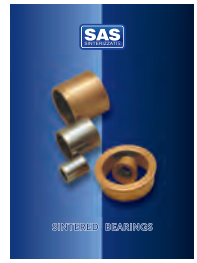
EXTRA

EXTRA

FILTRI

FILTERS

BOCCOLE SINTERIZZATE



SINTERED BEARINGS

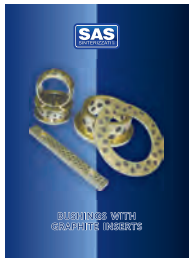
BOCCOLE KU AUTOLUBRIFICANTI

SLIDING BEARINGS

BOCCOLE AUTOLUBRIFICANTI FIPS

FIPS ® SINTERED BEARINGS

BOCCOLE CON INSERTI IN GRAFITE



BUSHINGS WITH GRAPHITE INSERTS

SPINE E RULLINI

PINS AND ROLLERS

ACCIAIO INOX

STAINLESS STEEL

Per visualizzare e scaricare i PDF dei Fascicoli Tecnici SAS:
To view and download the PDFs of the SAS Technical Files:
www.sassinterizzati.com/download

INFORMAZIONI TECNICHE

I nostri prodotti, presentati in questo catalogo, sono costruiti in acciaio inossidabile austenitico al cromo nichel e al cromo nichel molibdeno; sono resistenti agli acidi e a qualsiasi elento corrosivo.
Di seguito è riportato l'elenco degli acciai inossidabili comunemente utilizzati per l'industria alimentare, chimica e farmaceutica, per l'indistria delle bevande, enologica, lattiero casearia, delle conserve e per l'industria navale.

DESIGNAZIONE E NORME						
UNI-EN 10088-1		AISI	ASTM	WERKSTOFF	AFNOR	Bs
x5CrNi18.10	1.4301	304	TP 304	1.4301	Z7CN18.9	304 S15
x2CrNi18.9/19.11	1.4306/1.4307	304L	TP 304L	1.4306/1.4307	Z3CN18.10	304 S11
x5CrNiMo17.12.2	1.4401	316	TP 316	1.4401	Z7CND17.11.02	316 S31
x2CrNiMo17.12.2	1.4404	316L	TP 316L	1.4404	Z3CND17.11.02	316 S11

DESIGNAZIONE			ANALISI CHIMICA INDICATIVA %			
UNI-EN 10088-1		AISI	C	Cr	Ni	Mo
			max	range	range	range
x5CrNi18.10	1.4301	304	0,07	17÷19,5	8÷10,5	
x2CrNi18.9/19.11	1.4306/1.4307	304L	0,03	17,5÷19,5	8÷10	
x5CrNiMo17.12.2	1.4401	316		16,5÷18,5	10÷13	2÷2,5
x2CrNiMo17.12.2	1.4404	316L		16,5÷18,5	10÷13	2÷2,5

I materiali sopra indicati possono essere saldati senza trattamento termico addizionale.

ESECUZIONE

Tutti i particolari, salvo diversa indicazione, sono ricavati da materiale laminato, forgiato o microfuso.
La superficie interna è scordonata, satinata o lucidata.
La superficie esterna è decapata o lucidata in automatico.

GUARNIZIONI

Tutte le valvole sono corredate di guarnizioni alimentari (NBR) o di guarnizioni in silicone (VMQ), viton (FKM), EPDM, Teflon (PTFE) sempre disponibili a magazzino.

COSTRUZIONI SPECIALI

Oltre ai particolari di produzione standard presenti in questo catalogo possiamo fornire pezzi speciali con Vostro disegno, secondo le Vostre specifiche eseigenze.

Dati, caratteristiche, prestazioni, pesi e misure non sono impegnativi.
SAS si riserva di apportare senza preavviso le modifiche ritenute opportune.
Il nostro reparto tecnico è a Vostra disposizione per qualsiasi chiarimento dovesse necessitare.

TECHNICAL INFORMATIONS

Our products, presented in this catalogue, are made of austenitic chrome-nickel and chrome-nickel molybdenum stainless steel; they are resistant to acids and to any corrosive element.
Below is the list of stainless steels commonly used for the food, chemical and pharmaceutical industries, for the beverage, wine, dairy, canning and shipbuilding industries.

DESIGNATION AND STANDARDS						
UNI-EN 10088-1		AISI	ASTM	WERKSTOFF	AFNOR	Bs
x5CrNi18.10	1.4301	304	TP 304	1.4301	Z7CN18.9	304 S15
x2CrNi18.9/19.11	1.4306/1.4307	304L	TP 304L	1.4306/1.4307	Z3CN18.10	304 S11
x5CrNiMo17.12.2	1.4401	316	TP 316	1.4401	Z7CND17.11.02	316 S31
x2CrNiMo17.12.2	1.4404	316L	TP 316L	1.4404	Z3CND17.11.02	316 S11

DESIGNATION			CHEMICAL ANALYSIS INDICATIVE %			
UNI-EN 10088-1		AISI	C	Cr	Ni	Mo
			max	range	range	range
x5CrNi18.10	1.4301	304	0,07	17÷19,5	8÷10,5	
x2CrNi18.9/19.11	1.4306/1.4307	304L	0,03	17,5÷19,5	8÷10	
x5CrNiMo17.12.2	1.4401	316		16,5÷18,5	10÷13	2÷2,5
x2CrNiMo17.12.2	1.4404	316L		16,5÷18,5	10÷13	2÷2,5

The above materials can be welded without additional heat treatment.

EXECUTION

All details, unless otherwise indicated, are obtained from laminated, forged or precision cast material.
The internal surface is not detuned, satin or polished.
The external surface is pickled or polished automatically.

GASKETS

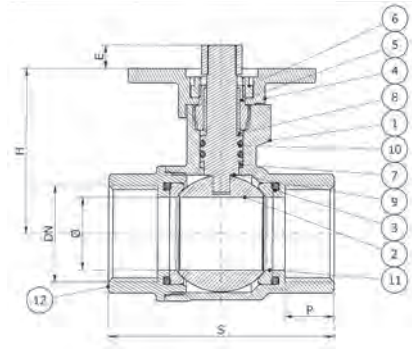
All valves are equipped with food grade seals (NBR) or silicone seals (VMQ), viton (FKM), EPDM, Teflon (PTFE) always available in stock.

SPECIAL BUILDINGS

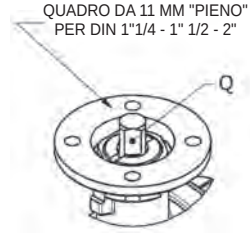
In addition to the standard production details shown in this catalogue, we can supply special pieces with your design, according to your specific needs.

Data, characteristics, performance, weights and measures are not binding.
SAS reserves the right to make changes deemed appropriate without notice.
Our technical department is at your disposal for any clarification you may need.

VS-FF-A-I



QUADRO DA 11 MM "PIENO"
PER DIN 1"1/4 - 1" 1/2 - 2"



DN	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
Ø	10	10	15	20	25	32	39	48	64	78
S	45,5	45,5	56	68	78	90	100	115	141	159
P	11,5	11,5	14	16	17	18	19	21	25	25
H	47	47	48	52	56	68	73	79	92	102
E	8	8	8	8	8	10	10	10	12	12
U	7/9/11	7/9/11	7/9/11	7/9/11	7/9/11	11/14	11/14	11/14	14	14
ISO	F03-F05	F03-F05	F03-F05	F03-F05	F03-F05	F05	F05	F05	F05	F05
Nm*	4*	4*	4*	4*	5*	5*	6*	7*	15*	18*
PN	40	40	40	40	40	40	40	40	25	25

IN ACCORDO ALLA DIRETTIVA PED 2014/68/UE Nm*: valori riscontrati in assenza di pressione Misure 2" 1/2 - 3" disponibili a richiesta

REF.	COMPONENTE	MATERIALE	QUANTITÀ
1	CORPO	EN12420-CW617N-NICHELATO	1
2	SFERA	EN12165-CW617N-CROMATA	1
**3	O-RING	NBR	2
4	PIASTRA PORTAMOTORE	EN12420-CW617N-NICHELATA	1
5	GHIERA	EN12164-CW614N	1
6	DADO BLOCCA PIASTRA	EN12164-CW614N	1
7	ANELLO ANTIGRIPPAGGIO	P.T.F.E.F391	1
8	BOCCOLA ANTIGRIPPAGGIO	P.T.F.E.F391	1
9	PERNO	EN12164-CW614N	1
10	O-RING	NBR	2
11	SEDE	P.T.F.E.F.	2
12	MANICOTTO	EN12420-CW617N-NICHELATO	1

** NON PRESENTE NELLE MISURE 1" - 1/2"

CARATTERISTICHE VALVOLA

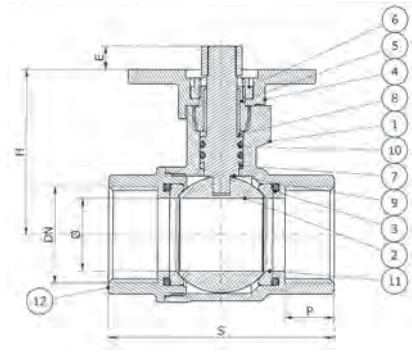
Temperature di utilizzo:	min. -10 °C max +100 °C
Presione massima:	40 Bar (25 Bar per il DN 3")
Estremità filettate:	ISO 228/1
Piastra porta motore:	ISO 5211

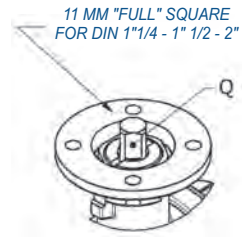
ESECUZIONI SPECIALI A RICHIESTA

O-ring:	FP/EPDM/FKM/HNBR
Sedi:	Caricato in carbografite/caricato vetro
Valvola:	Materiale ADZ
Sfera:	Acciaio inox AISI 316/ADZ

SAS declina ogni responsabilità qualora vengano individuati prodotti non compatibili con materiali utilizzati per la costruzione delle proprie valvole.
I dati riportati sono a titolo indicativo. SAS si riserva il diritto di modificarli senza alcun preavviso.
SAS si riserva, a termini di legge, la proprietà del presente disegno con divieto di riprodurlo o comunicarlo a terzi senza autorizzazione.

VS-FF-A-I





DN	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
Ø	10	10	15	20	25	32	39	48	64	78
S	45,5	45,5	56	68	78	90	100	115	141	159
P	11,5	11,5	14	16	17	18	19	21	25	25
H	47	47	48	52	56	68	73	79	92	102
E	8	8	8	8	8	10	10	10	12	12
U	7/9/11	7/9/11	7/9/11	7/9/11	7/9/11	11/14	11/14	11/14	14	14
ISO	F03-F05	F03-F05	F03-F05	F03-F05	F03-F05	F05	F05	F05	F05	F05
Nm*	4*	4*	4*	4*	5*	5*	6*	7*	15*	18*
PN	40	40	40	40	40	40	40	40	25	25

IN ACCORDANCE WITH THE PED DIRECTIVE 2014/68/EU Nm*: values found in the absence of pressure Sizes 2" 1/2 - 3" available on request

REF.	COMPONENT	MATERIAL	QUANTITY
1	BODY	EN12420-CW617N-NICKEL PLATED	1
2	BALL	EN12165-CW617N-CHROME	1
**3	O-RINGS	NBR	2
4	MOTOR PLATE	EN12420-CW617N-NICKEL PLATED	1
5	RING	EN12164-CW614N	1
6	PLATE LOCK NUT	EN12164-CW614N	1
7	ANTI-SEIZE RING	P.T.F.E.F391	1
8	ANTI-SEIZE BUSHING	P.T.F.E.F391	1
9	PIN	EN12164-CW614N	1
10	O-RINGS	NBR	2
11	SITE	P.T.F.E.F.	2
12	SLEEVE	EN12420-CW617N-NICKEL PLATED	1

** NOT PRESENT IN SIZES 1" - 1/2"

VALVE FEATURES

Temperatures of use:	min. -10°C max +100°C
Maximum pressure:	40 Bar (25 Bar for DN 3")
Threaded ends:	ISO 228/1
Motor support plate:	ISO 5211

SPECIAL EXECUTIONS ON REQUEST

O-rings:	FP/EPDM/FKM/HNBR
Seats:	Carbographite filled/glass filled
Valve:	ADZ material
Ball:	AISI 316/ADZ stainless steel

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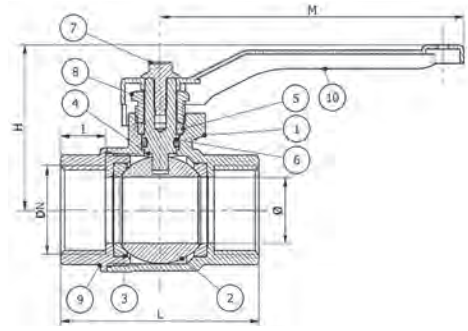
VS-FF-M-I

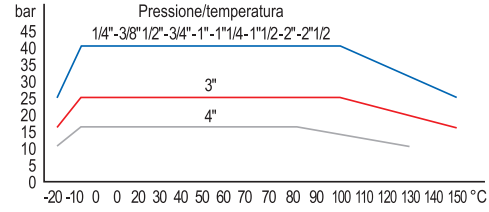


DN	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
L	45,5	45,5	55,5	66	75	85	97	109	140,5	158
Ø	10	10	15	20	25	32	39	48	64	78
I	11,5	11,5	14	16	17	18	19	21	25	25
H	50	50	53	56	62	81	86	92,5	124	135
M	92	92	92	92	115	150	150	150	240	240
PN	40	40	40	40	40	40	40	40	//	25

IN ACCORDO ALLA DIRETTIVA PED 2014/68/UE Misure 2" 1/2 - 3" disponibili a richiesta

REF.	COMPONENTE	MATERIALE	QUANTITÀ
1	CORPO	EN12165-CW617N-NICHELATO	1
2	SFERA	EN12165-CW617N-CROMATA	1
3	SEDE	P.T.F.E.	2
4	PERNO	EN12164-CW614N	1
*5	GUARNIZIONE	P.T.F.E.	1
**6	O-RING	FPM (VITON)	1
7	VITE	UNI 7356-CB4FF-GEOMET	1
8	PREMISTOPPA	EN12164-CW614N	1
9	MANICOTTO	EN12165-CW617N-NICHELATO	1
***10	LEVA	EN1011-DD13-VERNICE ROSSA	2

* NON PRESENTE NELLE MISURE DN 2" 1/2 3" (TENUTA CON DUE O-RING)
** NON PRESENTE NEL DN 4"
*** IN ALLUMINIO PER IL DN 4"



ESECUZIONI SPECIALI A RICHIESTA

O-ring:	EPDM/FKM/NBR
Sedi:	Caricato in carbografite/caricato vetro
Valvola:	Materiale ADZ
Sfera:	Acciaio inox AISI 316/ADZ
Leva:	Personalizzata

CARATTERISTICHE VALVOLA

Temperature di utilizzo:	min. -20°C max. + 150°C (vedi diagramma pressione/temperatura) sotto 0°C solo in assenza di ghiaccio o con additivi antigelo max 50%, oltre 100°C solo in assenza di vapore
Pressione massima:	da -10°C a +100 °C - 40 bar(*) dal DN 1/4" al DN 2"1/2 - 25 bar DN 3" - 16 bar DN 4" (temperatura max +80 °C) (*): dal DN 1/4" al DN 3/4" sono ammissibili picchi occasionali fino a 50 bar
Estremità filettate:	F/F ISO 228/1

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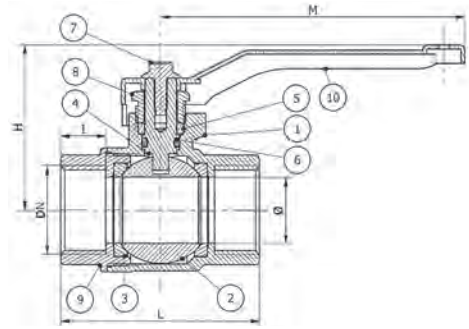
VS-FF-M-I

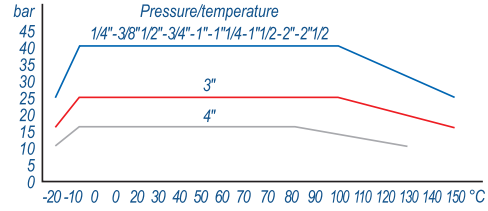


DN	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
L	45,5	45,5	55,5	66	75	85	97	109	140,5	158
Ø	10	10	15	20	25	32	39	48	64	78
I	11,5	11,5	14	16	17	18	19	21	25	25
H	50	50	53	56	62	81	86	92,5	124	135
M	92	92	92	92	115	150	150	150	240	240
PN	40	40	40	40	40	40	40	40	//	25

IN ACCORDANCE WITH THE PED DIRECTIVE 2014/68/EU *Nm*: values found in the absence of pressure* Sizes 2" 1/2 - 3" available on request

REF.	COMPONENT	MATERIAL	QUANTITY
1	BODY	EN12165-CW617N-NICKEL PLATED	1
2	BALL	EN12165-CW617N-CHROME	1
3	SITE	P.T.F.E.	2
4	PIN	EN12164-CW614N	1
*5	GASKET	P.T.F.E.	1
**6	O-RINGS	FPM (VITON)	1
7	LIVES	UNI 7356-CB4FF-GEOMET	1
8	GLAND	EN12164-CW614N	1
9	SLEEVE	EN12165-CW617N-NICKEL PLATED	1
***10	LEVER	EN1011-DD13-RED PAINT	2

* NOT PRESENT IN DN 2" 1/2 3" SIZES (SEAL WITH TWO O-RINGS)
** NOT PRESENT IN DN 4"
*** IN ALUMINUM FOR DN 4"



SPECIAL EXECUTIONS ON REQUEST

O-rings:	EPDM/FKM/NBR
Seats:	Carbographite filled/glass filled
Valve:	ADZ material
Ball:	AISI 316/ADZ stainless steel
Leverage:	Custom

VALVE FEATURES

Temperatures of use:	min. -20°C max. + 150°C (see pressure/temperature diagram) below 0°C only in the absence of ice or with max 50% antifreeze additives, above 100°C only in the absence of steam
Maximum pressure:	from -10°C to +100 °C - 40 bar(*) from DN 1/4" to DN 2"1/2 - 25 bar DN 3" - 16 bar DN 4" (max temperature +80 ° C) (*): from DN 1/4" to DN 3/4" occasional peaks up to 50 bar are admissible
Threaded ends:	F/F ISO 228/1

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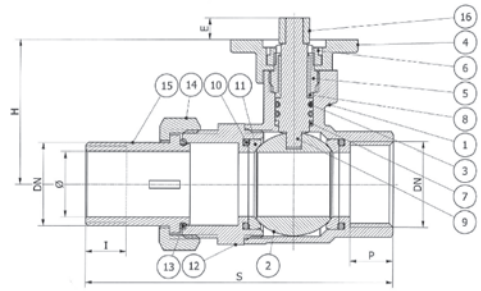
VS-FF-B-A-I



DN	1/2"	3/4"	1"
Ø	15	20	25
S	85	99	120
P	14	16	17
I	12	14	16
H	49	52	56
E	8	8	8
Q	7/9/11	7/9/11	7/9/11
ISO	F03 - F05	F03 - F05	F03 - F05
*Nm	4	4	5
PN	32	32	32

* Nm VALORI RISCONTRATI IN ASSENZA DI PRESSIONE

REF.	COMPONENTE	MATERIALE	QUANTITÀ
1	CORPO	EN12420-CW617N-NICHELATO	1
2	SFERA	EN12165-CW617N-CROMATA	1
3	** O-RING	NBR	2
4	PIASTRA PORTAMOTORE	EN12420-CW617N-NICHELATA	1
5	GHIERA	EN12164-CW614N	1
6	DADO BLOCCA PIASTRA	EN12164-CW614N	1
7	ANELLO ANTIGRIPPAGGIO	P.T.F.E. F391	1
8	BOCCOLA ANTIGRIPAPGGIO	P.T.F.E. F391	1
9	PERNO	EN12164-CW614N	1
10	O-RING	NBR	2
11	SEDE	P.T.F.E.	2
12	MANICOTTO	EN12420-CW617N-NICHELATO	1
13	O-RING	NBR	1
14	DADO	EN12420-CW617N-NICHELATO	1
15	CODOLO	EN12420-CW617N-NICHELATO	1
16	AUMENTATORE QUADRO	EN12164-CW614N	1

NON PRESENTE NELLA MISURA 1/2"

CARATTERISTICHE VALVOLA
Temperature di utilizzo: min. -10 °C - max +100 °C
Pressione massima: 32 bar
Estremità filettate: ISO 228/1
Piastra portamotore: ISO 5211

ESECUZIONI SPECIALI A RICHIESTA
O-ring: EPDM/FKM/NBR
Sedi: Caricato in carbografite/caricato vetro
Valvola: Materiale ADZ
Sfera: Acciaio inox AISI 316/ADZ/teflonata

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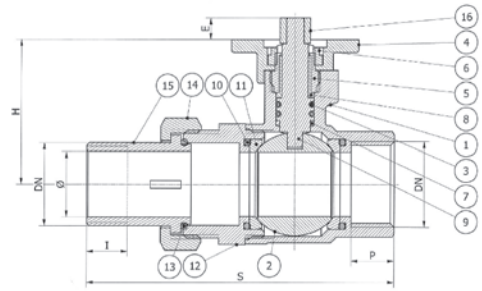
VS-FF-B-A-I



DN	1/2"	3/4"	1"
Ø	15	20	25
S	85	99	120
P	14	16	17
I	12	14	16
H	49	52	56
E	8	8	8
Q	7/9/11	7/9/11	7/9/11
ISO	F03 - F05	F03 - F05	F03 - F05
*Nm	4	4	5
PN	32	32	32

** Nm VALUES FOUND IN THE ABSENCE OF PRESSURE*

REF.	COMPONENTE	MATERIALE	QUANTITY
1	CORPO	EN12420-CW617N-NICHELATO	1
2	SFERA	EN12165-CW617N-CROMATA	1
3	** O-RING	NBR	2
4	PIASTRA PORTAMOTORE	EN12420-CW617N-NICHELATA	1
5	GHIERA	EN12164-CW614N	1
6	DADO BLOCCA PIASTRA	EN12164-CW614N	1
7	ANELLO ANTIGRIPPAGGIO	P.T.F.E. F391	1
8	BOCCOLA ANTIGRIPAPGGIO	P.T.F.E. F391	1
9	PERNO	EN12164-CW614N	1
10	O-RING	NBR	2
11	SEDE	P.T.F.E.	2
12	MANICOTTO	EN12420-CW617N-NICHELATO	1
13	O-RING	NBR	1
14	DADO	EN12420-CW617N-NICHELATO	1
15	CODOLO	EN12420-CW617N-NICHELATO	1
16	AUMENTATORE QUADRO	EN12164-CW614N	1

NOT PRESENT IN SIZE 1/2"

VALVE FEATURES

Temperatures of use:	min. -10°C - max +100°C
Maximum pressure:	32bar
Threaded ends:	ISO 228/1
Motor plate:	ISO 5211

SPECIAL EXECUTIONS ON REQUEST

O-rings:	EPDM/FKM/NBR
Seats:	Carbographite filled/glass filled
Valve:	ADZ material
Ball:	Stainless steel AISI 316/ADZ/Teflon coated

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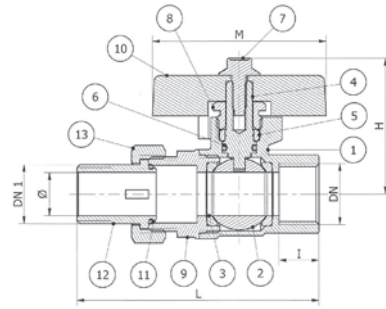
VS-FF-B-M-I



DN	1/2"	3/4"	1"	1" 1/4
DN 1	1/2"	3/4"	1"	1" 1/4
Ø	15	20	25	32
M	61	61	80	72
L	86	99	113	110
H	50	54	66	59
I	14	16	17	16
PN	32	32	32	25

IN ACCORDO ALLA DIRETTIVA PED 2014/68/UE

REF.	COMPONENTE	MATERIALE	QUANTITÀ
1	CORPO	EN12420-CW617N-NICHELATO	1
2	SFERA	EN12165-CW617N-CROMATA	1
3	SEDE	P.T.F.E.	2
4	PERNO	EN12164-CW614N	1
*5	GUARNIZIONE	P.T.F.E.	1
**6	O-RING	FPM (VITON)	1
7	VITE	UNI 7356-CB4FF-DACROMET	1
8	PREMISTOPPA	EN12164-CW614N	1
9	MANICOTTO	EN12420-CW617-NICHELATO	1
10	LEVA FARFALLA	ALLUMINIO UNI 7369-VERNICIATA ROSSA	1
11	O-RING	NBR	1
12	CODOLO	EN12420-CW617N-NICHELATO	1
13	DADO	EN12420-CW617N-NICHELATO	1

* NON PRESENTE NELLA MISURA 1" 1/4 ** N° 2 O-RING IN EP PER MISURA 1" 1/4

CARATTERISTICHE VALVOLA
Temperature di utilizzo: min. -10 °C max +100 °C
Pressione max di esercizio: 32 Bar (25 Bar per DN 1" 1/4)
Estremità filettate: ISO 228/1

ESECUZIONI SPECIALI A RICHIESTA
O-ring: EPDM/FKM/NBR
Sedi: Caricato in carbografite/caricato vetro
Valvola: Materiale ADZ
Sfera: Acciaio inox AISI 316/ADZ

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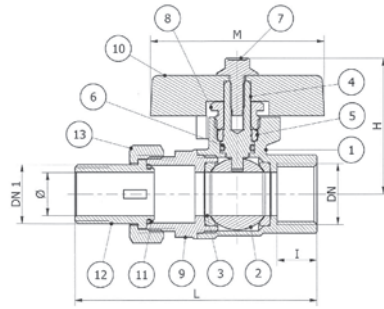
VS-FF-B-M-I



DN	1/2"	3/4"	1"	1" 1/4
DN 1	1/2"	3/4"	1"	1" 1/4
Ø	15	20	25	32
M	61	61	80	72
L	86	99	113	110
H	50	54	66	59
I	14	16	17	16
PN	32	32	32	25

IN ACCORDANCE WITH THE PED DIRECTIVE 2014/68/EU

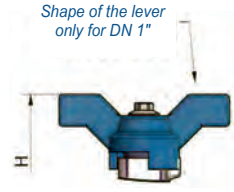
REF.	COMPONENT	MATERIAL	QUANTITY
1	BODY	EN12420-CW617N-NICKEL PLATED	1
2	BALL	EN12165-CW617N-CHROME	1
3	SITE	P.T.F.E.	2
4	PIN	EN12164-CW614N	1
*5	GASKET	P.T.F.E.	1
**6	O-RINGS	FPM (VITON)	1
7	LIVES	UNI 7356-CB4FF-DACROMET	1
8	GLAND	EN12164-CW614N	1
9	SLEEVE	EN12420-CW617-NICKEL PLATED	1
10	THROTTLE LEVER	UNI 7369 ALUMINUM - RED PAINTED	1
11	O-RINGS	NBR	1
12	tang	EN12420-CW617N-NICKEL PLATED	1
13	NUT	EN12420-CW617N-NICKEL PLATED	1

* NOT PRESENT IN SIZE 1" 1/4 ** N° 2 EP O-RINGS FOR SIZE 1" 1/4

VALVE FEATURES
Temperatures of use: min. -10°C max +100°C
Max working pressure: 32 Bar (25 Bar for DN 1" 1/4)
Threaded ends: ISO 228/1

SPECIAL EXECUTIONS ON REQUEST
O-rings: EPDM/FKM/NBR
Seats: Carbographite filled/glass filled
Valve: ADZ material
Ball: AISI 316/ADZ stainless steel

Shape of the lever only for DN 1"



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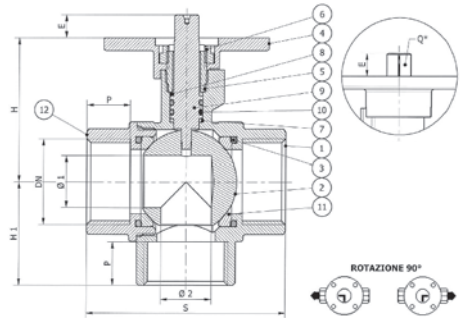
VSD-3FR-L-A-I



DN	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	3"
Ø 1	10	15	20	25	32	40	68
Ø 2	10	15	20	25	32	40	80
S	56	68	78	90	100	115	180
P	14	16	17	18	19	21	25
H	48	52	56	68	73	79	104
H1	30	34,2	40,4	47,2	53	61,8	114
E	8	8	8	10	10	10	12
Q	7/9/11	7/9/11	7/9/11	11/14	11/14	11/14	14
ISO	F03 - F05	F03 - F05	F03 - F05	F05	F05	F05	F05
*Nm	4	4	5	5	6	7	18
PN	25	25	25	25	25	25	25

IN ACCORDO ALLA DIRETTIVA PED 2014/68/UE * VALORI RISCONTRATI IN ASSENZA DI PRESSIONE

REF.	COMPONENTE	MATERIALE	QUANTITÀ
1	CORPO	EN12420-CW617N-NICHELATO	1
2	SFERA	EN12165-CW617N-CROMATA	1
**3	O-RING	NBR	2
4	PIASTRA PORTAMOTORE	EN12164-CW614N NICHELATA	1
5	GHIERA	EN12164-CW614N	1
6	DADO BLOCCA PIASTRA	EN12164-CW614N	1
7	ANELLO ANTIGRIPPAGGIO	P.T.F.E. F391	1
8	BOCCOLA ANTIGRIPPAGGIO	P.T.F.E. F391	1
9	PERNO	EN12164-CW614N	1
10	O-RING	NBR	2
11	SEDE	P.T.F.E.	2
12	MANICOTTO	EN12420-CW617N-NICHELATO	1

** NON PRESENTE NELLE MISURE 1/4" - 3/8" - 1/2"

CARATTERISTICHE VALVOLA
Temperature di utilizzo: min. -10 °C max +100 °C
Pressione max di esercizio: 25 Bar
Estremità filettate: ISO 228/1
Piastra portamotore: ISO 5211

ESECUZIONI SPECIALI A RICHIESTA
O-ring: FP/EPDM/FKM/HNBR
Sedi: Caricato in carbografite/caricato vetro
Sfera: Acciaio inox AISI 316

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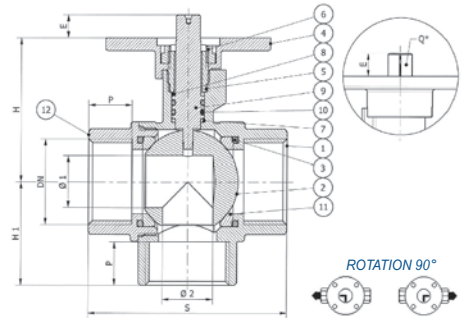
VSD-3FR-L-A-I



DN	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	3"
Ø 1	10	15	20	25	32	40	68
Ø 2	10	15	20	25	32	40	80
S	56	68	78	90	100	115	180
P	14	16	17	18	19	21	25
H	48	52	56	68	73	79	104
H1	30	34,2	40,4	47,2	53	61,8	114
E	8	8	8	10	10	10	12
Q	7/9/11	7/9/11	7/9/11	11/14	11/14	11/14	14
ISO	F03 - F05	F03 - F05	F03 - F05	F05	F05	F05	F05
*Nm	4	4	5	5	6	7	18
PN	25	25	25	25	25	25	25

IN ACCORDANCE WITH THE PED DIRECTIVE 2014/68/EU ** VALUES FOUND IN THE ABSENCE OF PRESSURE*

REF.	COMPONENT	MATERIAL	QUANTITY
1	BODY	EN12420-CW617N-NICKEL PLATED	1
2	BALL	EN12165-CW617N-CHROME	1
**3	O-RINGS	NBR	2
4	MOTOR PLATE	EN12164-CW614N NICKEL PLATED	1
5	RING	EN12164-CW614N	1
6	PLATE LOCK NUT	EN12164-CW614N	1
7	ANTI-SEIZE RING	P.T.F.E. F391	1
8	ANTI-SEIZE BUSHING	P.T.F.E. F391	1
9	PIN	EN12164-CW614N	1
10	O-RINGS	NBR	2
11	SITE	P.T.F.E.	2
12	SLEEVE	EN12420-CW617N-NICKEL PLATED	1

*** NOT PRESENT IN SIZES 1/4" - 3/8" - 1/2"*

VALVE FEATURES
Temperatures of use: *min. -10°C max +100°C*
Max working pressure: *25 Bar*
Threaded ends: *ISO 228/1*
Motor plate: *ISO 5211*

SPECIAL EXECUTIONS ON REQUEST
O-rings: *FP/EPDM/FKM/HNBR*
Seats: *Carbographite filled/glass filled*
Ball: *AISI 316 stainless steel*

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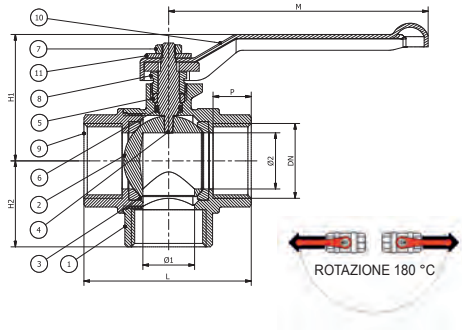
VSD-3FR-L-M-I



DN	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	3"
L	53	53	54,5	66,5	74,5	85	97	109	177
Ø 1	10	10	12	18	23	30	37	46	80
Ø 2	10	10	12	20	25	32	39	48	80
P	14	14	14	16	17	18	19	21	25
H1	48	48	48	50	55	68	73	79	129
H2	31	30,5	30,5	34,5	38	46	53	62,5	115
M	92	92	92	92	115	150	150	150	240
PN	25	25	25	25	25	25	25	25	25

IN ACCORDO ALLA DIRETTIVA PED 2014/68/UE

REF.	COMPONENTE	MATERIALE	QUANTITÀ
1	CORPO	EN12420-CW617N-NICHELATO	1
2	SFERA	EN12165-CW617N-CROMATA	1
3	SEDE	P.T.F.E.	2
4	PERNO	EN12164-CW614N	1
*5	GUARNIZIONE	P.T.F.E.	1
6	O-RING	FPM (VITON)	1
7	DADO	UNI 7356-CB4FF-ZINCATO	1
8	PREMISTOPPA	EN12164-CW614N	1
9	MANICOTTO	EN12420-CW617N-NICHELATO	1
10	LEVA	EN1011-DD13-VERNICIATA ROSSA	1
11	SEGNAFLUSSO	EN7639-SGALSI 1	1

* NON PRESENTE NELLA MISURA 3" (TENUTA CON DUE O-RING)

CARATTERISTICHE VALVOLA
Temperature di utilizzo: min. -10 °C max +100 °C
Pressione max di esercizio: 25 Bar
Estremità filettate: ISO 228/1

ESECUZIONI SPECIALI A RICHIESTA
O-ring: EPDM/FKM/NBR
Sedi: Caricato in carbografite/caricato vetro - Leva personalizzata
Valvola: ADZ

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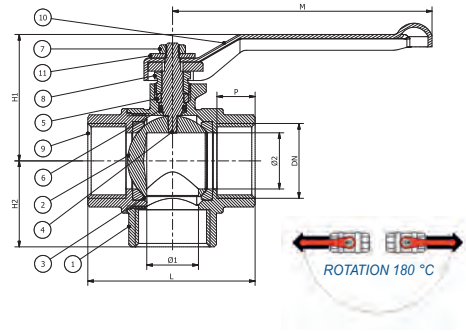
I dati riportati sono a titolo indicativo. SAS si riserva il diritto di modificarli senza alcun preavviso.
SAS si riserva, a termini di legge, la proprietà del presente disegno con divieto di riprodurlo o comunicarlo a terzi senza autorizzazzione.

VSD-3FR-L-M-I



DN	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	3"
L	53	53	54,5	66,5	74,5	85	97	109	177
Ø 1	10	10	12	18	23	30	37	46	80
Ø 2	10	10	12	20	25	32	39	48	80
P	14	14	14	16	17	18	19	21	25
H1	48	48	48	50	55	68	73	79	129
H2	31	30,5	30,5	34,5	38	46	53	62,5	115
M	92	92	92	92	115	150	150	150	240
PN	25	25	25	25	25	25	25	25	25

IN ACCORDANCE WITH THE PED DIRECTIVE 2014/68/EU

REF.	COMPONENT	MATERIAL	QUANTITY
1	BODY	EN12420-CW617N-NICKEL PLATED	1
2	BALL	EN12165-CW617N-CHROME	1
3	SITE	P.T.F.E.	2
4	PIN	EN12164-CW614N	1
*5	GASKET	P.T.F.E.	1
6	O-RINGS	FPM (VITON)	1
7	NUT	UNI 7356-CB4FF-GALVANIZED	1
8	GLAND	EN12164-CW614N	1
9	SLEEVE	EN12420-CW617N-NICKEL PLATED	1
10	LEVER	EN1011-DD13-RED PAINTED	1
11	FLOW SIGNAL	EN7639-SGALSI 1	1

** NOT PRESENT IN SIZE 3" (SEAL WITH TWO O-RINGS)*

VALVE FEATURES
Temperatures of use: *min. -10°C max +100°C*
Max working pressure: *25 Bar*
Threaded ends: *ISO 228/1*

SPECIAL EXECUTIONS ON REQUEST
O-rings: *EPDM/FKM/NBR*
Seats: *Carbographite Loaded/Glass Loaded - CustomLever*
Valve: *ADZ*

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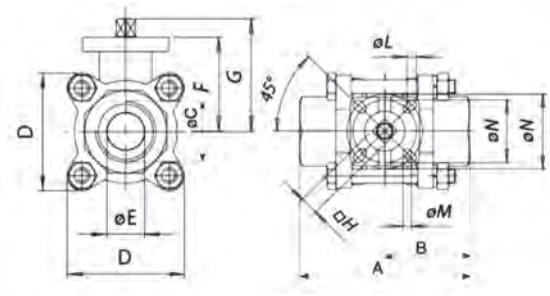
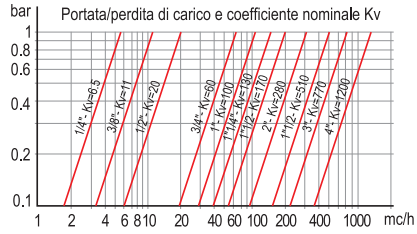
VS-3P-A-I



CARATTERISTICHE TECNICHE
Costruita in tre pezzi per facilitare l'intervento su impianti ad alta frequenza di manutenzione

Estremità:	Filettate femmina a norma UNI/ISO 7/1 Rp; a saldare di testa; a saldare di tasca
Guarnizioni standard della sfera:	P.T.F.E. vergine
Temperatura di esercizio:	- 20 °C + 180 °C
Pressione di utilizzo:	Vedi diagramma
Fluido intercettato:	Aria, acqua, gas, prodotti petroliferi e petrolchimici, fluidi aggressivi
Testa della valvola:	A norma ISO 5211



Il valore Kv è il valore di portata in m3/h (con acqua a 15°C) che provoca la caduta di pressione di 1 bar

	DN08-1/4"	DN10-3/8"	DN15-1/2"	DN20-3/4"	DN25-1"	DN32-1"1/4	DN40-1"1/2	DN50-2"	DN65-2"1/2	DN80-3"	DN100-4"
COD	VSX-3P 08	VSX-3P 10	VSX-3P 15	VSX-3P 20	VSX-3P 25	VSX-3P 32	VSX-3P 40	VSX-3P 50	VSX-3P 65	VSX-3P 80	VSX-3P 100
DIMENSIONI	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	2" 1/2	3"	4"
PESO (Kg)	0,57	0,57	0,67	0,93	1,5	1,9	3,05	4,14	9,6	14	22,5

DIMENSIONE	A	B	ØC	D	ØE	F	G	□ H	ØL	ØM	ØN
DN 8 - 1/4"	65	32,5	1/4"	48,8	11,5	42	49	9	6	6	36-42
DN 10 - 3/8"	65	32,5	3/8"	48,8	12,7	42	49	9	6	6	36-42
DN 15 - 1/2"	75	37,5	1/2"	48,8	15	42	49	9	6	6	36-42
DN 20 - 3/4"	80	40	3/4"	50,3	20	45	53	9	6	6	36-42
DN 25 - 1"	90	45	1"	64	25	52	61	9	7	6	42-50
DN 32 - 1" 1/4	110	55	1" 1/4	73,4	32	57	66	9	7	6	42-50
DN 40 - 1" 1/2	120	60	1" 1/2	82	38	68	79	11	9	7	50-70
DN 50 - 2"	140	70	2"	94,3	50	77	88	11	9	7	50-70
DN 65 - 2" 1/2	185	92,5	2" 1/2	165	65	100	114	14	11	9	70-102
DN 80 - 3"	205	102,5	3"	190	80	111	128	17	11	9	70-102
DN 100 - 4"	240	120	4"	240	97	138	160	22	13		102-125

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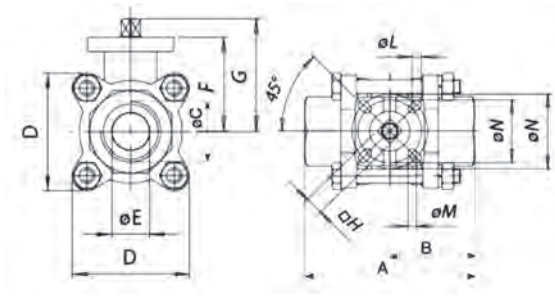
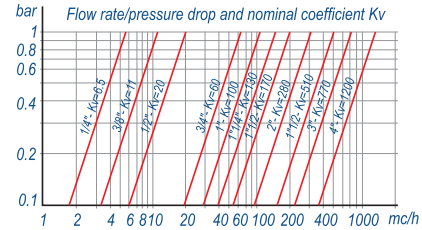
VS-3P-A-I



TECHNICAL FEATURES
Built in three pieces to facilitate intervention on high-frequency systems of maintenance

Ends:	*Female threaded according to UNI/ISO 7/1 Rp; butt welding; to be paid out of pocket*
Standard ball seals:	*P.T.F.E. virgin Operating temperature: - 20 °C + 180 °C*
Operating pressure:	*See diagram*
Intercepted fluid:	*Air, water, gas, petroleum products and petrochemicals, aggressive fluids*
Valve head:	*According to ISO 5211*



The Kv value is the flow rate in m3/h (with water at 15°C) which causes a pressure drop of 1 bar

	DN08-1/4"	DN10-3/8"	DN15-1/2"	DN20-3/4"	DN25-1"	DN32-1"1/4	DN40-1"1/2	DN50-2"	DN65-2"1/2	DN80-3"	DN100-4"
COD	VSX-3P 08	VSX-3P 10	VSX-3P 15	VSX-3P 20	VSX-3P 25	VSX-3P 32	VSX-3P 40	VSX-3P 50	VSX-3P 65	VSX-3P 80	VSX-3P 100
SIZES	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	2" 1/2	3"	4"
WEIGHT (Kg)	0,57	0,57	0,67	0,93	1,5	1,9	3,05	4,14	9,6	14	22,5

SIZES	A	B	ØC	D	ØE	F	G	H	ØL	ØM	ØN
DN 8 - 1/4"	65	32,5	1/4"	48,8	11,5	42	49	9	6	6	36-42
DN 10 - 3/8"	65	32,5	3/8"	48,8	12,7	42	49	9	6	6	36-42
DN 15 - 1/2"	75	37,5	1/2"	48,8	15	42	49	9	6	6	36-42
DN 20 - 3/4"	80	40	3/4"	50,3	20	45	53	9	6	6	36-42
DN 25 - 1"	90	45	1"	64	25	52	61	9	7	6	42-50
DN 32 - 1" 1/4	110	55	1" 1/4	73,4	32	57	66	9	7	6	42-50
DN 40 - 1" 1/2	120	60	1" 1/2	82	38	68	79	11	9	7	50-70
DN 50 - 2"	140	70	2"	94,3	50	77	88	11	9	7	50-70
DN 65 - 2" 1/2	185	92,5	2" 1/2	165	65	100	114	14	11	9	70-102
DN 80 - 3"	205	102,5	3"	190	80	111	128	17	11	9	70-102
DN 100 - 4"	240	120	4"	240	97	138	160	22	13		102-125

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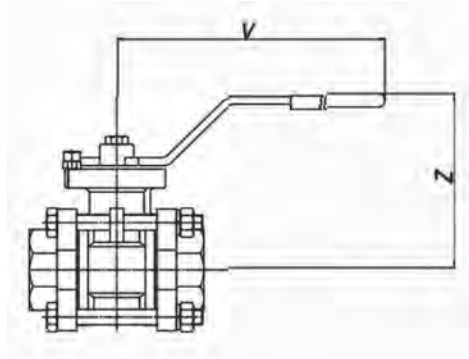
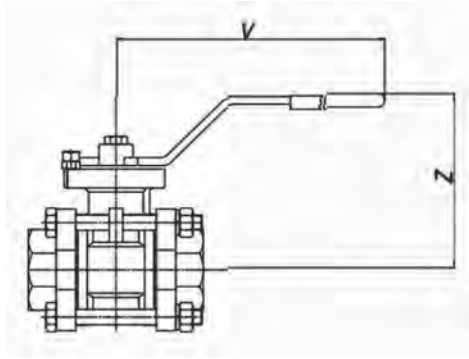
VS-3P-M-I



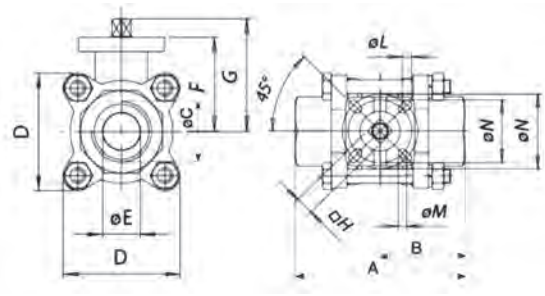
DIMENSIONI	V	Z
DN 08 - 1/4"	150	78,5
DN 10 - 3/8"	150	78,5
DN 15 - 1/2"	150	78,5
DN 20 - 3/4"	150	82,5
DN 25 - 1"	200	88,5
DN 32 - 1"1/4	200	93,5
DN 40 - 1"1/2	250	106,5
DN 50 - 2"	250	115,5
DN 65 - 2"1/2	300	141,5
DN 80 - 3"	300	155,5
DN 100 - 4"	400	183,5

VS-3P-M-I



SIZES	V	Z
DN 08 - 1/4"	150	78,5
DN 10 - 3/8"	150	78,5
DN 15 - 1/2"	150	78,5
DN 20 - 3/4"	150	82,5
DN 25 - 1"	200	88,5
DN 32 - 1"1/4	200	93,5
DN 40 - 1"1/2	250	106,5
DN 50 - 2"	250	115,5
DN 65 - 2"1/2	300	141,5
DN 80 - 3"	300	155,5
DN 100 - 4"	400	183,5

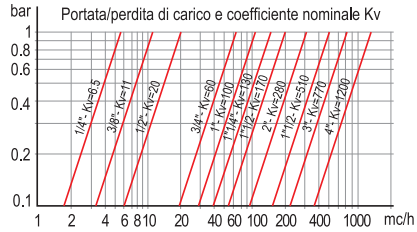
VSX-3P



CARATTERISTICHE TECNICHE

Costruita in tre pezzi per facilitare l'intervento su impianti ad alta frequenza di manutenzione

Estremità:	Filettate femmina a norma UNI/ISO 7/1 Rp; a saldare di testa; a saldare di tasca
Guarnizioni standard della sfera:	P.T.F.E. vergine
Temperatura di esercizio:	- 20 °C + 180 °C
Pressione di utilizzo:	Vedi diagramma
Fluido intercettato:	Aria, acqua, gas, prodotti petroliferi e petrolchimici, fluidi aggressivi
Testa della valvola:	A norma ISO 5211



Il valore Kv è il valore di portata in m3/h (con acqua a 15°C) che provoca la caduta di pressione di 1 bar

	DN08-1/4"	DN10-3/8"	DN15-1/2"	DN20-3/4"	DN25-1"	DN32-1"1/4	DN40-1"1/2	DN50-2"	DN65-2"1/2	DN80-3"	DN100-4"
COD	VSX-3P 08	VSX-3P 10	VSX-3P 15	VSX-3P 20	VSX-3P 25	VSX-3P 32	VSX-3P 40	VSX-3P 50	VSX-3P 65	VSX-3P 80	VSX-3P 100
DIMENSIONI	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	2" 1/2	3"	4"
PESO (Kg)	0,57	0,57	0,67	0,93	1,5	1,9	3,05	4,14	9,6	14	22,5

DIMENSIONE	A	B	ØC	D	ØE	F	G	□ H	ØL	ØM	ØN
DN 8 - 1/4"	65	32,5	1/4"	48,8	11,5	42	49	9	6	6	36-42
DN 10 - 3/8"	65	32,5	3/8"	48,8	12,7	42	49	9	6	6	36-42
DN 15 - 1/2"	75	37,5	1/2"	48,8	15	42	49	9	6	6	36-42
DN 20 - 3/4"	80	40	3/4"	50,3	20	45	53	9	6	6	36-42
DN 25 - 1"	90	45	1"	64	25	52	61	9	7	6	42-50
DN 32 - 1" 1/4	110	55	1" 1/4	73,4	32	57	66	9	7	6	42-50
DN 40 - 1" 1/2	120	60	1" 1/2	82	38	68	79	11	9	7	50-70
DN 50 - 2"	140	70	2"	94,3	50	77	88	11	9	7	50-70
DN 65 - 2" 1/2	185	92,5	2" 1/2	165	65	100	114	14	11	9	70-102
DN 80 - 3"	205	102,5	3"	190	80	111	128	17	11	9	70-102
DN 100 - 4"	240	120	4"	240	97	138	160	22	13		102-125

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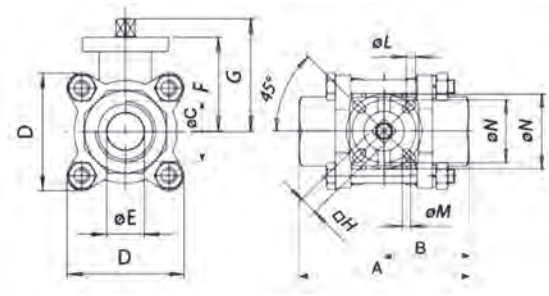
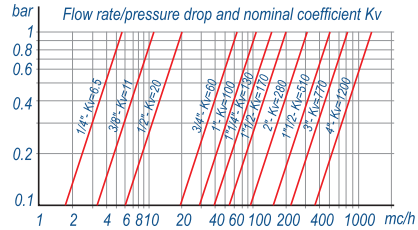
VSX-3P



TECHNICAL FEATURES
Built in three pieces to facilitate intervention on high-frequency systems of maintenance

Ends:	*Female threaded according to UNI/ISO 7/1 Rp; butt welding; to be paid out of pocket*
Standard ball seals:	*P.T.F.E. virgin Operating temperature: - 20 °C + 180 °C*
Operating pressure:	*See diagram*
Intercepted fluid:	*Air, water, gas, petroleum products and petrochemicals, aggressive fluids*
Valve head:	*According to ISO 5211*



The Kv value is the flow rate in m3/h (with water at 15°C) which causes a pressure drop of 1 bar

	DN08-1/4"	DN10-3/8"	DN15-1/2"	DN20-3/4"	DN25-1"	DN32-1"1/4	DN40-1"1/2	DN50-2"	DN65-2"1/2	DN80-3"	DN100-4"
COD	VSX-3P 08	VSX-3P 10	VSX-3P 15	VSX-3P 20	VSX-3P 25	VSX-3P 32	VSX-3P 40	VSX-3P 50	VSX-3P 65	VSX-3P 80	VSX-3P 100
SIZES	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	2" 1/2	3"	4"
WEIGHT (Kg)	0,57	0,57	0,67	0,93	1,5	1,9	3,05	4,14	9,6	14	22,5

SIZES	A	B	ØC	D	ØE	F	G	H	ØL	ØM	ØN
DN 8 - 1/4"	65	32,5	1/4"	48,8	11,5	42	49	9	6	6	36-42
DN 10 - 3/8"	65	32,5	3/8"	48,8	12,7	42	49	9	6	6	36-42
DN 15 - 1/2"	75	37,5	1/2"	48,8	15	42	49	9	6	6	36-42
DN 20 - 3/4"	80	40	3/4"	50,3	20	45	53	9	6	6	36-42
DN 25 - 1"	90	45	1"	64	25	52	61	9	7	6	42-50
DN 32 - 1" 1/4	110	55	1" 1/4	73,4	32	57	66	9	7	6	42-50
DN 40 - 1" 1/2	120	60	1" 1/2	82	38	68	79	11	9	7	50-70
DN 50 - 2"	140	70	2"	94,3	50	77	88	11	9	7	50-70
DN 65 - 2" 1/2	185	92,5	2" 1/2	165	65	100	114	14	11	9	70-102
DN 80 - 3"	205	102,5	3"	190	80	111	128	17	11	9	70-102
DN 100 - 4"	240	120	4"	240	97	138	160	22	13		102-125

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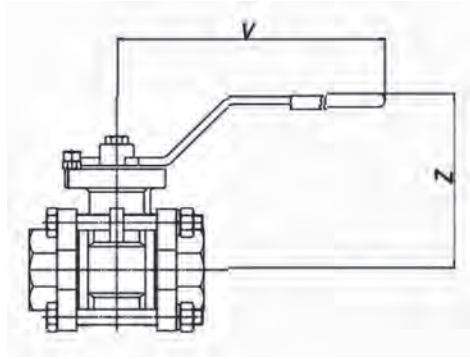
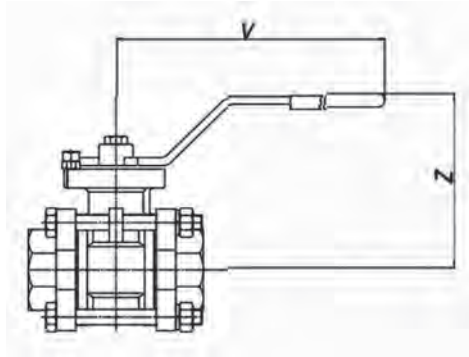
VSX-3P-M



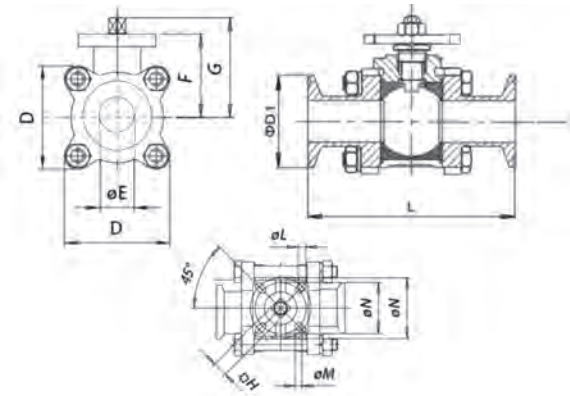
DIMENSIONI	V	Z
DN 08 - 1/4"	150	78,5
DN 10 - 3/8"	150	78,5
DN 15 - 1/2"	150	78,5
DN 20 - 3/4"	150	82,5
DN 25 - 1"	200	88,5
DN 32 - 1"1/4	200	93,5
DN 40 - 1"1/2	250	106,5
DN 50 - 2"	250	115,5
DN 65 - 2"1/2	300	141,5
DN 80 - 3"	300	155,5
DN 100 - 4"	400	183,5

VSX-3P-M



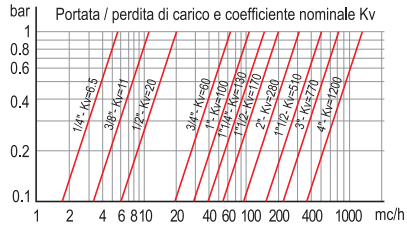
SIZES	V	Z
DN 08 - 1/4"	150	78,5
DN 10 - 3/8"	150	78,5
DN 15 - 1/2"	150	78,5
DN 20 - 3/4"	150	82,5
DN 25 - 1"	200	88,5
DN 32 - 1"1/4	200	93,5
DN 40 - 1"1/2	250	106,5
DN 50 - 2"	250	115,5
DN 65 - 2"1/2	300	141,5
DN 80 - 3"	300	155,5
DN 100 - 4"	400	183,5

VSX-3PC



CARATTERISTICHE TECNICHE
Costruita in tre pezzi per facilitare l'intervento su impianti ad alta frequenza di manutenzione

Estremità:	Attacchi clamp
Guarnizioni standard della sfera:	P.T.F.E. vergine
Temperatura di esercizio:	da almeno 20 °C Apple 180° C
Pressione di utilizzo:	Vedi diagramma
Fluido intercettato:	Aria, acqua, gas, prodotti petroliferi e petrolchimici, sui detersivi
Testa della valvola:	A norma ISO 5211



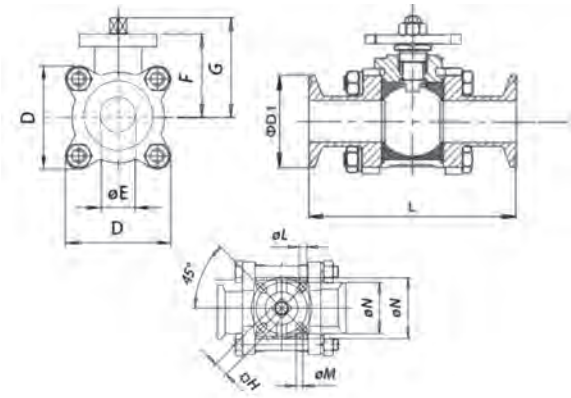
Il valore Kv è il valore di portata in m3/h (con acqua a 15°C) che provoca la caduta di pressione di 1 bar

	DN08-1/4"	DN10-3/8"	DN15-1/2"	DN20-3/4"	DN25-1"	DN32-1"1/4	DN40-1"1/2	DN50-2"	DN65-2"1/2	DN80-3"	DN100-4"
COD	VSX-3PC 08	VSX-3PC 10	VSX-3PC 15	VSX-3PC 20	VSX-3PC 25	VSX-3PC 32	VSX-3PC 40	VSX-3PC 50	VSX-3PC 65	VSX-3PC 80	VSX-3PC 100
DIMENSIONI	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	2" 1/2	3"	4"
PESO (Kg)	0,57	0,57	0,67	0,93	1,5	1,9	3,05	4,14	9,6	14	22,5

DIMENSIONE	A	B	ØC	D	ØE	F	G	□ H	ØL	ØM	ØN	D1	L
DN 15 - 1/2"	75	37,5	1/2"	48,8	15	42	49	9	6	6	36-42	25,2	89
DN 20 - 3/4"	80	40	3/4"	50,3	20	45	53	9	6	6	36-42	25,2	101
DN 25 - 1"	90	45	1"	64	25	52	61	9	7	6	42-50	50,5	114
DN 32 - 1" 1/4	110	55	1" 1/4	73,4	32	57	66	9	7	6	42-50	50,5	125
DN 40 - 1" 1/2	120	60	1" 1/2	82	38	68	79	11	9	7	50-70	50,5	138
DN 50 - 2"	140	70	2"	94,3	50	77	88	11	9	7	50-70	64	156
DN 65 - 2" 1/2	185	92,5	2" 1/2	165	65	100	114	14	11	9	70-102	77,5	170
DN 80 - 3"	205	102,5	3"	190	80	111	128	17	11	9	70-102	91	197
DN 100 - 4"	240	120	4"	240	97	138	160	22	13		102-125	119	242

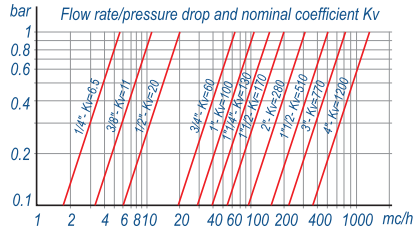
SAS declina ogni responsabilità qualora vengano individuati prodotti non compatibili con materiali utilizzati per la costruzione delle proprie valvole.
I dati riportati sono a titolo indicativo. SAS si riserva il diritto di modificarli senza alcun preavviso.
SAS si riserva, a termini di legge, la proprietà del presente disegno con divieto di riprodurlo o comunicarlo a terzi senza autorizzazzione.

VSX-3PC



TECHNICAL FEATURES
Built in three pieces to facilitate intervention on systems with a high maintenance frequency

Ends:	*Clamp connections*
Standard ball seals: P.T.F.E.	*virgin*
Operating temperature:	*from at least 20 °C Apple 180° C*
Operating pressure:	*See diagram*
Intercepted fluid:	*Air, water, gas, petroleum and petrochemical products, on detergents*
Valve head:	*According to ISO 5211*



The Kv value is the flow rate in m3/h (with water at 15°C) which causes a pressure drop of 1 bar

	DN08-1/4"	DN10-3/8"	DN15-1/2"	DN20-3/4"	DN25-1"	DN32-1"1/4	DN40-1"1/2	DN50-2"	DN65-2"1/2	DN80-3"	DN100-4"
COD	VSX-3PC 08	VSX-3PC 10	VSX-3PC 15	VSX-3PC 20	VSX-3PC 25	VSX-3PC 32	VSX-3PC 40	VSX-3PC 50	VSX-3PC 65	VSX-3PC 80	VSX-3PC 100
SIZES	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	2" 1/2	3"	4"
WEIGHT (Kg)	0,57	0,57	0,67	0,93	1,5	1,9	3,05	4,14	9,6	14	22,5

SIZES	A	B	ØC	D	ØE	F	G	H	ØL	ØM	ØN	D1	L
DN 15 - 1/2"	75	37,5	1/2"	48,8	15	42	49	9	6	6	36-42	25,2	89
DN 20 - 3/4"	80	40	3/4"	50,3	20	45	53	9	6	6	36-42	25,2	101
DN 25 - 1"	90	45	1"	64	25	52	61	9	7	6	42-50	50,5	114
DN 32 - 1" 1/4	110	55	1" 1/4	73,4	32	57	66	9	7	6	42-50	50,5	125
DN 40 - 1" 1/2	120	60	1" 1/2	82	38	68	79	11	9	7	50-70	50,5	138
DN 50 - 2"	140	70	2"	94,3	50	77	88	11	9	7	50-70	64	156
DN 65 - 2" 1/2	185	92,5	2" 1/2	165	65	100	114	14	11	9	70-102	77,5	170
DN 80 - 3"	205	102,5	3"	190	80	111	128	17	11	9	70-102	91	197
DN 100 - 4"	240	120	4"	240	97	138	160	22	13		102-125	119	242

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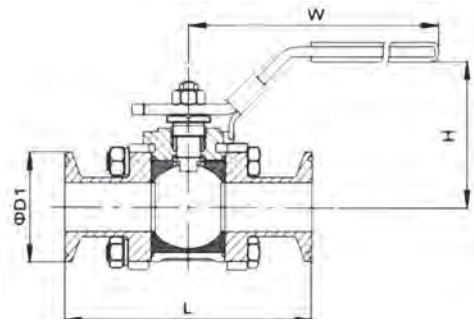
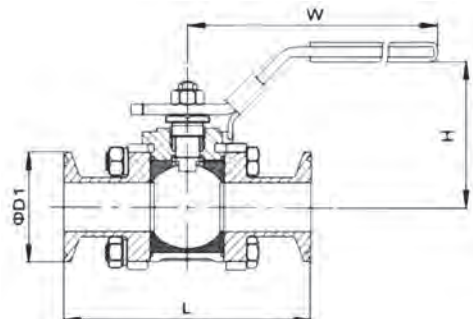
VSX-3PC-M



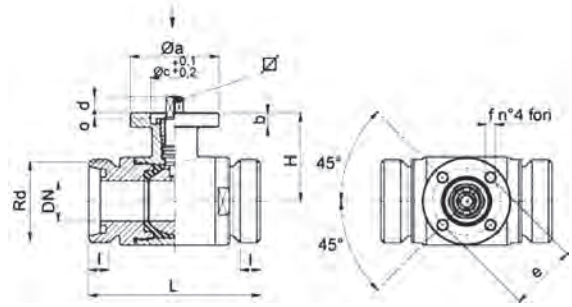
DIMENSIONI	D1	L	W	H
DN 15 - 1/2"	25,2	89	132	60
DN 20 - 3/4"	25,2	101	132	64,5
DN 25 - 1"	50,5	114	165	69
DN 32 - 1"1/4	50,5	125	170	74
DN 40 - 1"1/2	50,5	138	194	89
DN 50 - 2"	64	156	194	97
DN 65 - 2"1/2	77,5	170	252	127
DN 80 - 3"	91	197	252	135
DN 100 - 4"	119	242	332	159

VSX-3PC-M



SIZES	D1	L	W	H
DN 15 - 1/2"	25,2	89	132	60
DN 20 - 3/4"	25,2	101	132	64,5
DN 25 - 1"	50,5	114	165	69
DN 32 - 1"1/4	50,5	125	170	74
DN 40 - 1"1/2	50,5	138	194	89
DN 50 - 2"	64	156	194	97
DN 65 - 2"1/2	77,5	170	252	127
DN 80 - 3"	91	197	252	135
DN 100 - 4"	119	242	332	159

VSX

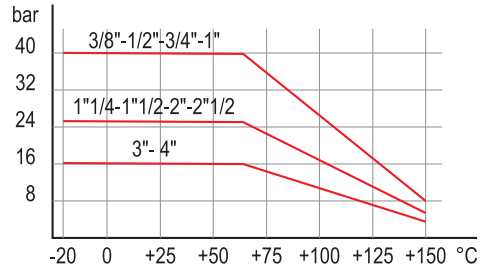


CARATTERISTICHE TECNICHE

Valvola a sfera a due vie

Organo di comando:	Flangia per attuatore ISO 5211 - DIN 3337
Attacco:	DIN 11851 femmina/femmina
Passaggio:	Totale
Materiale:	AISI 304 - 316
Misure:	da DN 10 a DN 100
Guarnizioni di tenuta:	P.T.F.E. vergine
Temperatura di esercizio:	-20 °C + 160 °C
Finitura esterna:	Lucida

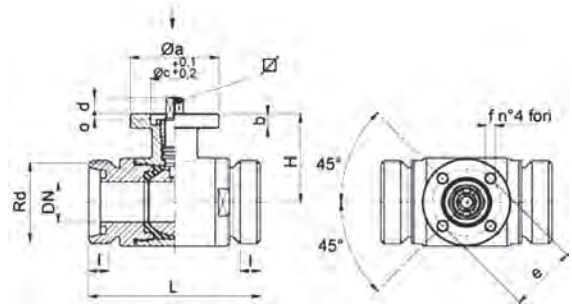
Incluse viti per montaggio attuatore



	DN 10	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
COD	VSX 10	VSX 15	VSX 20	VSX 25	VSX 32	VSX 40	VSX 50	VSX 65	VSX 80	VSX 100
GRANDEZZA	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
PESO (Kg)	0,5	0,62	0,87	1,3	1,58	2,70	3,85	6,72	9,73	14,34

DIN	DN	Rd	L	l	H	PN	Kg	ISO-DIN	Øa	b	Ø cxo	□	d	e	f	n°4 viti	Nm*
10	10	28x1/8	88	12	39	64	0,46	F.03	46	9	25x3	9	8	36	6	M5x16	5
10	10	28x1/8	88	12	39	64	0,50	F.04	54	9	30x3	11	10	42	6	M5x16	5
15	15	34x1/8	92	12	41,5	64	0,58	F.03	46	9	25x3	9	8	36	6	M5x16	8
15	15	34x1/8	92	12	41,5	64	0,62	F.04	54	9	30x3	11	10	42	6	M5x16	8
20	20	44x1/6	102	14	45	64	0,83	F.03	46	9	25x3	9	8	36	6	M5x16	12
20	20	44x1/6	102	14	45	64	0,87	F.04	54	9	30x3	11	10	42	6	M5x16	12
25	25	52x1/6	106	14	51,5	40	1,25	F.04	54	9	30x3	11	10	42	6	M5x16	15
25	25	52x1/6	106	14	51,5	40	1,30	F.05	65	9	35x3	14	13	50	7	M6x16	15
32	32	58x1/6	112	14	56,5	40	1,51	F.04	54	9	30x3	11	10	42	6	M5x16	18
32	32	58x1/6	112	14	56,5	40	1,58	F.05	65	9	35x3	14	13	50	7	M6x16	18
40	40	65x1/6	128	14	76	40	2,55	F.05	65	12	35x4	14	13	50	7	M6x20	25
40	40	65x1/6	128	14	76	40	2,70	F.07	90	12	55x4	17	15	70	9	M8x20	25
50	50	78x1/6	136	14	84	25	3,69	F.05	65	12	35x4	14	13	50	7	M6x20	30
50	50	78x1/6	136	14	84	25	3,85	F.07	90	12	55x4	17	15	70	9	M8x20	30
65	65	95x1/6	154	16	94,5	25	6,22	F.07	90	12	55x4	17	15	70	9	M8x20	45
65	65	95x1/6	154	16	94,5	25	6,72	F.10	125	12	70x4	22	18	102	11	M10x25	45
80	80	110x1/4	184	20	106	25	9,23	F.07	90	12	55x4	17	15	70	9	M8x20	70
80	80	110x1/4	184	20	106	25	9,73	F.10	125	12	70x4	22	18	102	11	M10x25	70
100	100	130x1/4	190	20	120	25	13,80	F.07	90	12	55x4	17	15	70	9	M8x20	80
100	100	130x1/4	190	20	120	25	14,34	F.10	125	12	70x4	22	18	102	11	M10x25	80
125	Reduced 100	130x1/4	190	20	120	25	//	F.07	90	12	55x4	17	15	70	9	M8x20	80
125	Reduced 100	130x1/4	190	20	120	25	//	F.10	125	12	70x4	22	18	102	11	M10x25	80

VSX

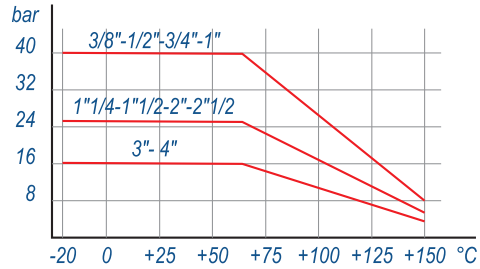


TECHNICAL FEATURES

Two-way ball valve

Control element:	*Flange for ISO 5211 - DIN 3337 actuator*
Connection:	*DIN 11851 female/female*
Pass:	*Total*
Material:	*AISI 304 - 316*
Sizes:	*from DN 10 to DN 100*
Sealing gaskets:	*P.T.F.E. virgin*
Operating temperature:	*-20°C + 160°C*
External finish:	*Glossy*

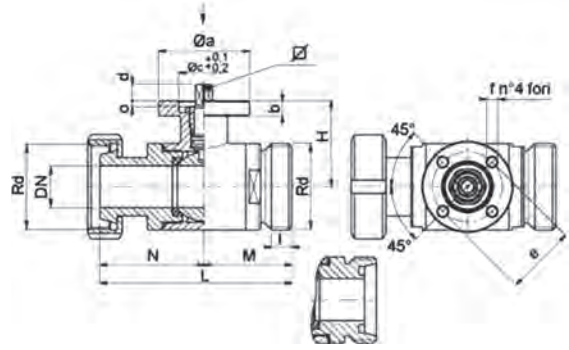
Including screws for actuator mounting



	DN 10	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
COD	VSX 10	VSX 15	VSX 20	VSX 25	VSX 32	VSX 40	VSX 50	VSX 65	VSX 80	VSX 100
SIZES	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
WEIGHT (Kg)	0,5	0,62	0,87	1,3	1,58	2,70	3,85	6,72	9,73	14,34

DIN	DN	Rd	L	l	H	PN	Kg	ISO-DIN	Øa	b	Ø cxo	□	d	e	f	n°4 viti	Nm*
10	10	28x1/8	88	12	39	64	0,46	F.03	46	9	25x3	9	8	36	6	M5x16	5
10	10	28x1/8	88	12	39	64	0,50	F.04	54	9	30x3	11	10	42	6	M5x16	5
15	15	34x1/8	92	12	41,5	64	0,58	F.03	46	9	25x3	9	8	36	6	M5x16	8
15	15	34x1/8	92	12	41,5	64	0,62	F.04	54	9	30x3	11	10	42	6	M5x16	8
20	20	44x1/6	102	14	45	64	0,83	F.03	46	9	25x3	9	8	36	6	M5x16	12
20	20	44x1/6	102	14	45	64	0,87	F.04	54	9	30x3	11	10	42	6	M5x16	12
25	25	52x1/6	106	14	51,5	40	1,25	F.04	54	9	30x3	11	10	42	6	M5x16	15
25	25	52x1/6	106	14	51,5	40	1,30	F.05	65	9	35x3	14	13	50	7	M6x16	15
32	32	58x1/6	112	14	56,5	40	1,51	F.04	54	9	30x3	11	10	42	6	M5x16	18
32	32	58x1/6	112	14	56,5	40	1,58	F.05	65	9	35x3	14	13	50	7	M6x16	18
40	40	65x1/6	128	14	76	40	2,55	F.05	65	12	35x4	14	13	50	7	M6x20	25
40	40	65x1/6	128	14	76	40	2,70	F.07	90	12	55x4	17	15	70	9	M8x20	25
50	50	78x1/6	136	14	84	25	3,69	F.05	65	12	35x4	14	13	50	7	M6x20	30
50	50	78x1/6	136	14	84	25	3,85	F.07	90	12	55x4	17	15	70	9	M8x20	30
65	65	95x1/6	154	16	94,5	25	6,22	F.07	90	12	55x4	17	15	70	9	M8x20	45
65	65	95x1/6	154	16	94,5	25	6,72	F.10	125	12	70x4	22	18	102	11	M10x25	45
80	80	110x1/4	184	20	106	25	9,23	F.07	90	12	55x4	17	15	70	9	M8x20	70
80	80	110x1/4	184	20	106	25	9,73	F.10	125	12	70x4	22	18	102	11	M10x25	70
100	100	130x1/4	190	20	120	25	13,80	F.07	90	12	55x4	17	15	70	9	M8x20	80
100	100	130x1/4	190	20	120	25	14,34	F.10	125	12	70x4	22	18	102	11	M10x25	80
125	Reduced 100	130x1/4	190	20	120	25	//	F.07	90	12	55x4	17	15	70	9	M8x20	80
125	Reduced 100	130x1/4	190	20	120	25	//	F.10	125	12	70x4	22	18	102	11	M10x25	80

VSX-MF

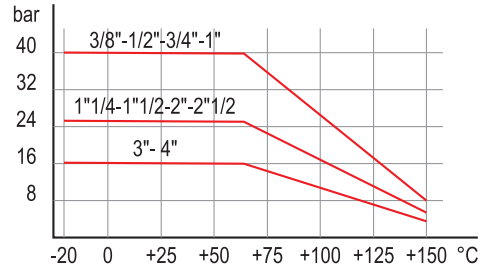


CARATTERISTICHE TECNICHE

Valvola a sfera a due vie

Organo di comando:	Flangia per attuatore ISO 5211 - DIN 3337
Attacco:	DIN 11851 femmina/maschio
Passaggio:	totale
Materiale:	AISI 304 - 316
Misure:	da DN 10 a DN 100
Guarnizioni di tenuta:	P.T.F.E. vergine
Temperatura di esercizio:	-20 °C + 160 °C
Finitura esterna:	Lucida

Incluse viti per montaggio attuatore

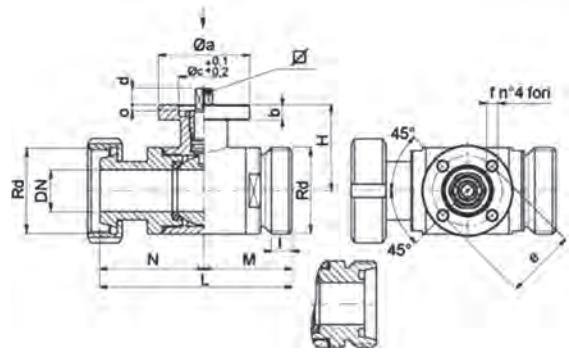


	DN 10	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
COD	VSXMF 10	VSXMF 15	VSXMF 20	VSXMF 25	VSXMF 32	VSXMF 40	VSXMF 50	VSXMF 65	VSXMF 80	VSXMF 100
GRANDEZZA	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
PESO (Kg)	0,5	0,62	0,87	1,3	1,58	2,70	3,85	6,72	9,73	14,34

DN	Rd	L	M	N	I	H	PN	Kg	ISO-DIN	Øa	b	Ø cxo	□	d	e	f	n°4 viti	Nm*
10	28x1/8	94	44	50	12	39	64	0,51	F.03	46	9	25x3	9	8	36	6	M5x16	5
10	28x1/8	94	44	50	12	39	64	0,56	F.04	54	9	30x3	11	10	42	6	M5x16	5
15	34x1/8	98	46	52	12	41,5	64	0,66	F.03	46	9	25x3	9	8	36	6	M5x16	8
15	34x1/8	98	46	52	12	41,5	64	0,70	F.04	54	9	30x3	11	10	42	6	M5x16	8
20	44x1/6	110	51	59	14	45	64	0,94	F.03	46	9	25x3	9	8	36	6	M5x16	12
20	44x1/6	110	51	59	14	45	64	0,98	F.04	54	9	30x3	11	10	42	6	M5x16	12
25	52x1/6	115	53	62	14	51,5	40	1,40	F.04	54	9	30x3	11	10	42	6	M5x16	15
25	52x1/6	115	53	62	14	51,5	40	1,45	F.05	65	9	35x3	14	13	50	7	M6x16	15
32	58x1/6	121	56	65	14	56,5	40	1,73	F.04	54	9	30x3	11	10	42	6	M5x16	18
32	58x1/6	121	56	65	14	56,5	40	1,80	F.05	65	9	35x3	14	13	50	7	M6x16	18
40	65x1/6	135	63	72	14	76	40	2,76	F.05	65	12	35x4	14	13	50	7	M6x20	25
40	65x1/6	135	63	72	14	76	40	2,93	F.07	90	12	55x4	17	15	70	9	M8x20	25
50	78x1/6	146	68	78	14	84	25	4,03	F.05	65	12	35x4	14	13	50	7	M6x20	30
50	78x1/6	146	68	78	14	84	25	4,26	F.07	90	12	55x4	17	15	70	9	M8x20	30
65	95x1/6	163	77	86	16	94,5	25	6,85	F.07	90	12	55x4	17	15	70	9	M8x20	45
65	95x1/6	163	77	86	16	94,5	25	7,25	F.10	125	12	70x4	22	18	102	11	M10x25	45
80	110x1/4	189	92	97	20	106	25	9,95	F.07	90	12	55x4	17	15	70	9	M8x20	70
80	110x1/4	189	92	97	20	106	25	10,44	F.10	125	12	70x4	22	18	102	11	M10x25	70
100	130x1/4	198	95	103	20	120	25	14,00	F.07	90	12	55x4	17	15	70	9	M8x20	80
100	130x1/4	198	95	103	20	120	25	14,51	F.10	125	12	70x4	22	18	102	11	M10x25	80

*Massimo spunto di apertura in Nm

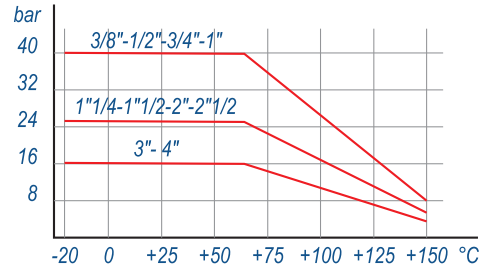
VSX-MF



TECHNICAL FEATURES

Two-way ball valve	
Control element:	*Flange for ISO 5211 - DIN 3337 actuator*
Connection:	*DIN 11851 female/female*
Pass:	*Total*
Material:	*AISI 304 - 316*
Sizes:	*from DN 10 to DN 100*
Sealing gaskets:	*P.T.F.E. virgin*
Operating temperature:	*-20°C + 160°C*
External finish:	*Glossy*

Including screws for actuator mounting

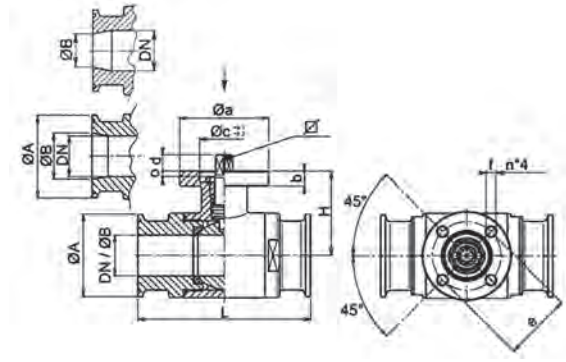


	DN 10	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
COD	VSXMF 10	VSXMF 15	VSXMF 20	VSXMF 25	VSXMF 32	VSXMF 40	VSXMF 50	VSXMF 65	VSXMF 80	VSXMF 100
SIZES	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
WEIGHT (Kg)	0,5	0,62	0,87	1,3	1,58	2,70	3,85	6,72	9,73	14,34

DN	Rd	L	M	N	l	H	PN	Kg	ISO-DIN	Øa	b	Ø cxo	s	d	e	f	n°4 viti	Nm*
10	28x1/8	94	44	50	12	39	64	0,51	F.03	46	9	25x3	9	8	36	6	M5x16	5
10	28x1/8	94	44	50	12	39	64	0,56	F.04	54	9	30x3	11	10	42	6	M5x16	5
15	34x1/8	98	46	52	12	41,5	64	0,66	F.03	46	9	25x3	9	8	36	6	M5x16	8
15	34x1/8	98	46	52	12	41,5	64	0,70	F.04	54	9	30x3	11	10	42	6	M5x16	8
20	44x1/6	110	51	59	14	45	64	0,94	F.03	46	9	25x3	9	8	36	6	M5x16	12
20	44x1/6	110	51	59	14	45	64	0,98	F.04	54	9	30x3	11	10	42	6	M5x16	12
25	52x1/6	115	53	62	14	51,5	40	1,40	F.04	54	9	30x3	11	10	42	6	M5x16	15
25	52x1/6	115	53	62	14	51,5	40	1,45	F.05	65	9	35x3	14	13	50	7	M6x16	15
32	58x1/6	121	56	65	14	56,5	40	1,73	F.04	54	9	30x3	11	10	42	6	M5x16	18
32	58x1/6	121	56	65	14	56,5	40	1,80	F.05	65	9	35x3	14	13	50	7	M6x16	18
40	65x1/6	135	63	72	14	76	40	2,76	F.05	65	12	35x4	14	13	50	7	M6x20	25
40	65x1/6	135	63	72	14	76	40	2,93	F.07	90	12	55x4	17	15	70	9	M8x20	25
50	78x1/6	146	68	78	14	84	25	4,03	F.05	65	12	35x4	14	13	50	7	M6x20	30
50	78x1/6	146	68	78	14	84	25	4,26	F.07	90	12	55x4	17	15	70	9	M8x20	30
65	95x1/6	163	77	86	16	94,5	25	6,85	F.07	90	12	55x4	17	15	70	9	M8x20	45
65	95x1/6	163	77	86	16	94,5	25	7,25	F.10	125	12	70x4	22	18	102	11	M10x25	45
80	110x1/4	189	92	97	20	106	25	9,95	F.07	90	12	55x4	17	15	70	9	M8x20	70
80	110x1/4	189	92	97	20	106	25	10,44	F.10	125	12	70x4	22	18	102	11	M10x25	70
100	130x1/4	198	95	103	20	120	25	14,00	F.07	90	12	55x4	17	15	70	9	M8x20	80
100	130x1/4	198	95	103	20	120	25	14,51	F.10	125	12	70x4	22	18	102	11	M10x25	80

**Maximum opening peak in Nm*

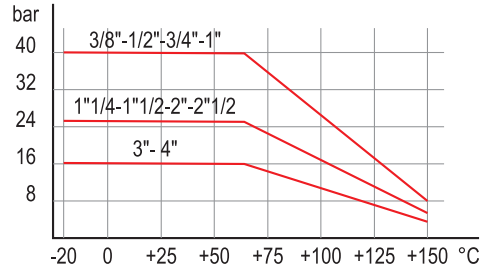
VSX-C



CARATTERISTICHE TECNICHE

Valvola a sfera a due vie	
Organo di comando:	Flangia per attuatore ISO 5211 - DIN 3337
Attacco:	Clamp Normativa DIN 32676 Tab. 2 REIHE A
	Per tubo in accordo con normativa DIN 11850
Passaggio:	Totale e ridotto
Materiale:	AISI 304 L - 316 L
Misure:	da DN 10 a DN 100
Guarnizioni di tenuta:	P.T.F.E. vergine
Temperatura di esercizio:	- 20 °C + 160 °C
Finitura esterna:	Lucida

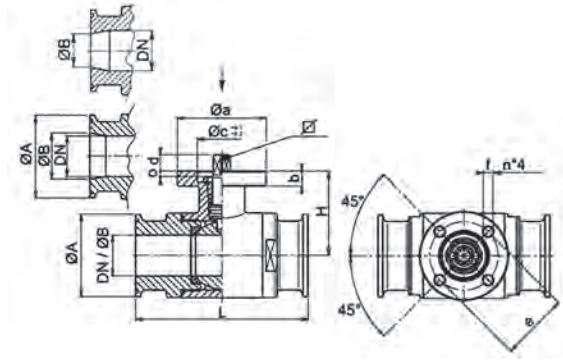
Incluse viti per montaggio attuatore



	DN 10	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
COD	VSX-C 10	VVSX-C 15	VSX-C 20	VSX-C 25	VSX-C 32	VSX-C 40	VSX-C 50	VSX-C 65	VSX-C 80	VSXMF 100
GRANDEZZA	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
PESO (Kg)	0,7	1	1,14	1,5	1,88	2,98	4,25	8	10,5	19

CLAMP SERIE A DN	L	ØA	ØB	H	PN	Kg	ISO-DIN	Øa	b	Ø cxo	□	d	e	f	n°4 viti	Nm
10	88	34	10	39	64	0,44	F.03	46	9	25x3	9	8	36	6	M5x16	5
10	88	34	10	39	64	0,46	F.04	54	9	30x3	11	10	42	6	M5x16	5
15	92	34	16	41,5	64	0,50	F.03	46	9	25x3	9	8	36	6	M5x16	8
15	92	34	16	41,5	64	0,54	F.04	54	9	30x3	11	10	42	6	M5x16	8
20	102	34	20	45	64	0,95	F.03	46	9	25x3	9	8	36	6	M5x16	12
20	102	34	20	45	64	0,96	F.04	54	9	30x3	11	10	42	6	M5x16	12
25	106	50,5	26	51,5	40	1,31	F.04	54	9	30x3	11	10	42	6	M5x16	15
25	106	50,5	26	51,5	40	1,36	F.05	65	9	35x3	14	13	50	7	M6x16	15
32	112	50,5	32	56,5	40	1,42	F.04	54	9	30x3	11	10	42	6	M5x16	18
32	112	50,5	32	56,5	40	1,49	F.05	65	9	35x3	14	13	50	7	M6x16	18
40	126	50,5	38	76	40	2,42	F.05	65	12	35x4	14	13	50	7	M6x20	25
40	126	50,5	38	76	40	2,57	F.07	90	12	55x4	17	15	70	9	M8x20	25
50	136	64	50	84	25	3,44	F.05	65	12	35x4	14	13	50	7	M6x20	30
50	136	64	50	84	25	3,61	F.07	90	12	55x4	17	15	70	9	M8x20	30
65	154	91	66	94,5	25	5,84	F.07	90	12	55x4	17	15	70	9	M8x20	45
65	154	91	66	94,5	25	6,34	F.10	125	12	70x4	22	18	102	11	M10x25	45
80	184	106	81	106	25	8,9	F.07	90	12	55x4	17	15	70	9	M8x20	70
80	184	106	81	106	25	9,4	F.10	125	12	70x4	22	18	102	11	M10x25	70
100	190	119	100	120	25	13,33	F.07	90	12	55x4	17	15	70	9	M8x20	80
100	190	119	100	120	25	13,83	F.10	125	12	70x4	22	18	102	11	M10x25	80

VSX-C

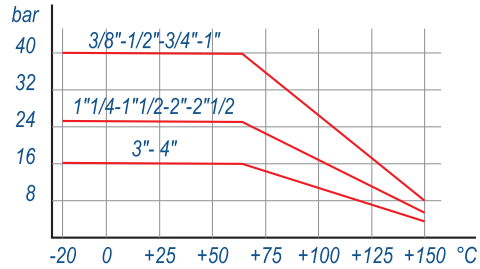


TECHNICAL FEATURES

Two-way ball valve

Control element:	*Flange for ISO 5211 - DIN 3337 actuator*
Connection:	*DIN 11851 female/female*
Pass:	*Total*
Material:	*AISI 304 - 316*
Sizes:	*from DN 10 to DN 100*
Sealing gaskets:	*P.T.F.E. virgin*
Operating temperature:	*-20°C + 160°C*
External finish:	*Glossy*

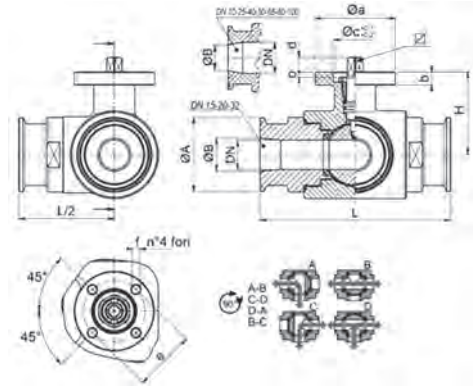
Including screws for actuator mounting



	DN 10	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
COD	VSX-C 10	VVSX-C 15	VSX-C 20	VSX-C 25	VSX-C 32	VSX-C 40	VSX-C 50	VSX-C 65	VSX-C 80	VSXMF 100
SIZES	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
WEIGHT (Kg)	0,7	1	1,14	1,5	1,88	2,98	4,25	8	10,5	19

CLAMP SERIES A DN	L	ØA	ØB	H	PN	Kg	ISO-DIN	Øa	b	Ø cxo	□	d	e	f	n°4 viti	Nm
10	88	34	10	39	64	0,44	F.03	46	9	25x3	9	8	36	6	M5x16	5
10	88	34	10	39	64	0,46	F.04	54	9	30x3	11	10	42	6	M5x16	5
15	92	34	16	41,5	64	0,50	F.03	46	9	25x3	9	8	36	6	M5x16	8
15	92	34	16	41,5	64	0,54	F.04	54	9	30x3	11	10	42	6	M5x16	8
20	102	34	20	45	64	0,95	F.03	46	9	25x3	9	8	36	6	M5x16	12
20	102	34	20	45	64	0,96	F.04	54	9	30x3	11	10	42	6	M5x16	12
25	106	50,5	26	51,5	40	1,31	F.04	54	9	30x3	11	10	42	6	M5x16	15
25	106	50,5	26	51,5	40	1,36	F.05	65	9	35x3	14	13	50	7	M6x16	15
32	112	50,5	32	56,5	40	1,42	F.04	54	9	30x3	11	10	42	6	M5x16	18
32	112	50,5	32	56,5	40	1,49	F.05	65	9	35x3	14	13	50	7	M6x16	18
40	126	50,5	38	76	40	2,42	F.05	65	12	35x4	14	13	50	7	M6x20	25
40	126	50,5	38	76	40	2,57	F.07	90	12	55x4	17	15	70	9	M8x20	25
50	136	64	50	84	25	3,44	F.05	65	12	35x4	14	13	50	7	M6x20	30
50	136	64	50	84	25	3,61	F.07	90	12	55x4	17	15	70	9	M8x20	30
65	154	91	66	94,5	25	5,84	F.07	90	12	55x4	17	15	70	9	M8x20	45
65	154	91	66	94,5	25	6,34	F.10	125	12	70x4	22	18	102	11	M10x25	45
80	184	106	81	106	25	8,9	F.07	90	12	55x4	17	15	70	9	M8x20	70
80	184	106	81	106	25	9,4	F.10	125	12	70x4	22	18	102	11	M10x25	70
100	190	119	100	120	25	13,33	F.07	90	12	55x4	17	15	70	9	M8x20	80
100	190	119	100	120	25	13,83	F.10	125	12	70x4	22	18	102	11	M10x25	80

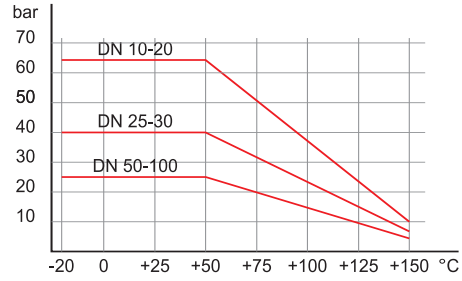
VSX-3VC



CARATTERISTICHE TECNICHE

Valvola a sfera a tre vie quattro guarnizioni con foratura sfera a "T"

Organo di comando:	Flangia per attuatore ISO 5211 - DIN 3337
Attacco:	Clamp Normativa DIN 32676 Tab. 4 REIHE C Per tubo in accordo con normativa BS/OD (ASTM A 270)
Passaggio:	Totale e ridotto
Materiale:	AISI 304 L - 316 L
Misure:	da 1/2" a 4"
Guarnizioni di tenuta:	P.T.F.E. vergine
Temperatura di esercizio:	- 20 °C + 160 °C
Finitura esterna:	Lucida

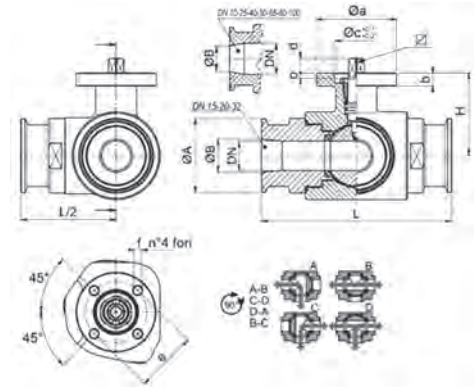


	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
COD	VSX-3VC 15	VSX-3VC 20	VSX-3VC 25	VSX-3VC 32	VSX-3VC 40	VSX-3VC 50	VSX-3VC 65	VSX-3VC 80	VSX-3VC 100
GRANDEZZA	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
PESO (Kg)	1	1,14	1,5	1,88	2,98	4,25	8	10,5	19

CLAMP SERIE C DN/OD	DN	L	ØA	ØB	H	PN	Kg	ISO-DIN	Øa	b	Ø cxo	□	d	e	f	n°4 viti	Nm*
1/2"	10	108	25	9,7	46,5	40	1,06	F.03	46	9	25x3	9	8	36	6	M5x16	10
1/2"	10	108	25	9,7	46,5	40	1,10	F.04	54	9	30x3	11	10	42	6	M5x16	10
3/4"	15	118	25	16	49	40	1,31	F.03	46	9	25x3	9	8	36	6	M5x16	12
3/4"	15	118	25	16	49	40	1,35	F.04	54	9	30x3	11	10	42	6	M5x16	12
1"	20	130	50,5	22,2	56,5	40	2,43	F.03	54	9	30x3	11	8	36	6	M5x16	23
1"	20	130	50,5	22,2	56,5	40	2,54	F.04	65	9	35x3	14	10	42	7	M5x16	23
1"	25	140	50,5	22,2	61	40	3,12	F.04	54	9	30x3	11	10	42	6	M5x16	25
1"	25	140	50,5	22,2	61	40	3,23	F.05	65	9	35x3	14	13	50	7	M6x16	25
1" 1/2	32	156	50,5	34,8	81,5	40	4,87	F.04	65	12	35x4	14	10	42	7	M5x16	33
1" 1/2	32	156	50,5	34,8	81,5	40	5,03	F.05	90	12	55x4	17	13	50	9	M6x16	33
1" 1/2	40	172	50,5	34,8	89	40	7,25	F.05	65	12	35x4	14	13	50	7	M6x20	40
1" 1/2	40	172	50,5	34,8	89	40	7,42	F.07	90	12	55x4	17	15	70	9	M8x20	40
2"	50	182	64	47,5	91,5	25	8,65	F.05	90	12	55x4	17	13	50	9	M6x20	50
2"	50	182	64	47,5	91,5	25	8,82	F.07	125	12	70x4	22	15	70	11	M8x20	50
2" 1/2 **	65	196	77,5	60,2	101,5	25	10,65	F.07	90	12	55x4	17	15	70	9	M8x20	60
2" 1/2 **	65	196	77,5	60,2	101,5	25	11,15	F.10	125	12	70x4	22	18	102	11	M10x25	60
3" **	80	256	91	72,6	116	16	21,85	F.07	90	12	55x4	17	15	70	9	M8x20	110
3" **	80	256	91	72,6	116	16	22,35	F.10	125	12	70x4	22	18	102	11	M10x25	110
4" **	100	286	119	97,6	131	16	33,80	F.07	90	12	55x4	17	15	70	9	M8x20	130
4" **	100	286	119	97,6	131	16	34,28	F.10	125	12	70x4	22	18	102	11	M10x25	130

* Max spunto di apertura in Nm ** Quattro vie

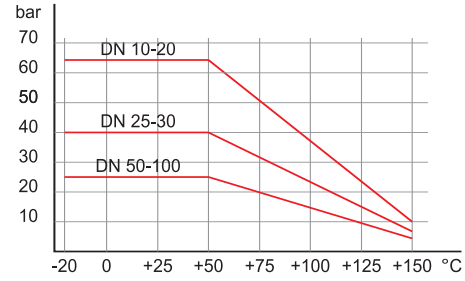
VSX-3VC



TECHNICAL FEATURES

Three-way four-seal ball valve with "T" ball drilling

Control element:	*Flange for ISO 5211 - DIN 3337 actuator*
Connection:	*Clamp Standard DIN 32676 Tab. 4 REIHE C*
	For pipe in accordance with BS/OD (ASTM A 270)
	Flow rate: Full and reduced
Material:	*AISI 304L - 316L*
Sizes:	*1/2" to 4"*
Sealing gaskets:	*P.T.F.E. virgin*
Operating temperature:	*- 20°C + 160°C*
External finish:	*Glossy*

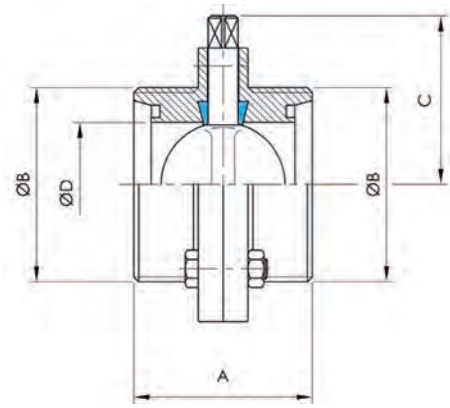


	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
COD	VSX-3VC 15	VSX-3VC 20	VSX-3VC 25	VSX-3VC 32	VSX-3VC 40	VSX-3VC 50	VSX-3VC 65	VSX-3VC 80	VSX-3VC 100
SIZES	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
WEIGHT (Kg)	1	1,14	1,5	1,88	2,98	4,25	8	10,5	19

CLAMP SERIES C DN/OD	DN	L	ØA	ØB	H	PN	Kg	ISO-DIN	Øa	b	Ø cxo		d	e	f	n°4 viti	Nm*
1/2"	10	108	25	9,7	46,5	40	1,06	F.03	46	9	25x3	9	8	36	6	M5x16	10
1/2"	10	108	25	9,7	46,5	40	1,10	F.04	54	9	30x3	11	10	42	6	M5x16	10
3/4"	15	118	25	16	49	40	1,31	F.03	46	9	25x3	9	8	36	6	M5x16	12
3/4"	15	118	25	16	49	40	1,35	F.04	54	9	30x3	11	10	42	6	M5x16	12
1"	20	130	50,5	22,2	56,5	40	2,43	F.03	54	9	30x3	11	8	36	6	M5x16	23
1"	20	130	50,5	22,2	56,5	40	2,54	F.04	65	9	35x3	14	10	42	7	M5x16	23
1"	25	140	50,5	22,2	61	40	3,12	F.04	54	9	30x3	11	10	42	6	M5x16	25
1"	25	140	50,5	22,2	61	40	3,23	F.05	65	9	35x3	14	13	50	7	M6x16	25
1" 1/2	32	156	50,5	34,8	81,5	40	4,87	F.04	65	12	35x4	14	10	42	7	M5x16	33
1" 1/2	32	156	50,5	34,8	81,5	40	5,03	F.05	90	12	55x4	17	13	50	9	M6x16	33
1" 1/2	40	172	50,5	34,8	89	40	7,25	F.05	65	12	35x4	14	13	50	7	M6x20	40
1" 1/2	40	172	50,5	34,8	89	40	7,42	F.07	90	12	55x4	17	15	70	9	M8x20	40
2"	50	182	64	47,5	91,5	25	8,65	F.05	90	12	55x4	17	13	50	9	M6x20	50
2"	50	182	64	47,5	91,5	25	8,82	F.07	125	12	70x4	22	15	70	11	M8x20	50
2" 1/2 **	65	196	77,5	60,2	101,5	25	10,65	F.07	90	12	55x4	17	15	70	9	M8x20	60
2" 1/2 **	65	196	77,5	60,2	101,5	25	11,15	F.10	125	12	70x4	22	18	102	11	M10x25	60
3" **	80	256	91	72,6	116	16	21,85	F.07	90	12	55x4	17	15	70	9	M8x20	110
3" **	80	256	91	72,6	116	16	22,35	F.10	125	12	70x4	22	18	102	11	M10x25	110
4" **	100	286	119	97,6	131	16	33,80	F.07	90	12	55x4	17	15	70	9	M8x20	130
4" **	100	286	119	97,6	131	16	34,28	F.10	125	12	70x4	22	18	102	11	M10x25	130

** Max opening peak in Nm* *** Four ways*

VFX

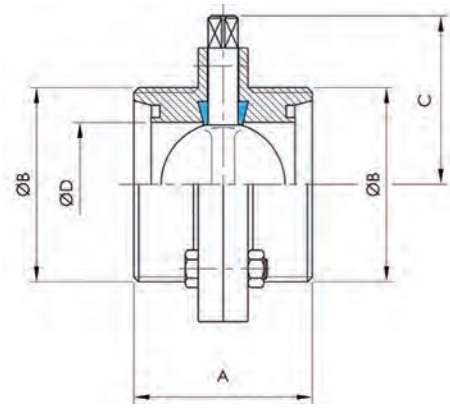


DIN	A	B	C	D
15	66	34 x 1/8"	39	15
20	66	44 x 1/6"	39	20
25	64	52 x 1/6"	57	26
32	64	58 x 1/6"	60	32
40	72	65 x 1/6"	62	38
50	72	78 x 1/6"	68	49
65	76	95 x 1/6"	77	66
80	100	110 x 1/4"	84,5	81
100	104	130 x 1/4"	95	100
125	146	160 x 1/4"	150	125
150	150	190 x 1/4"	107,5	150

CARATTERISTICHE TECNICHE
Costruita da pezzi forgiati AISI 304L e AISI 316L

Organo di comando:	A leva o servocomandata elettricamente ad aria
Guarnizioni standard:	In silicone - A richiesta EPDM-VITON-NBR
Otturatore:	AISI 304/316
Connessioni standard:	DIN/Clamp/SMS/GAS - A richiesta Eno/Macon
Fluidi di contatto:	Gruppo 2
Finitura standard:	ra 1,2
Produzione standard:	da DN 15 a DN 200
Pressione di esercizio:	da DN 15/100 PN 10 a DN 125/150 PN 6
Temperatura di esercizio:	da -20 °C a + 80 °C (viton 150 °C)
Collaudo:	al 100%

VFX

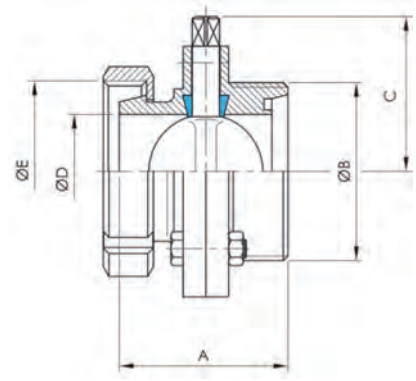


DIN	A	B	C	D
15	66	34 x 1/8"	39	15
20	66	44 x 1/6"	39	20
25	64	52 x 1/6"	57	26
32	64	58 x 1/6"	60	32
40	72	65 x 1/6"	62	38
50	72	78 x 1/6"	68	49
65	76	95 x 1/6"	77	66
80	100	110 x 1/4"	84,5	81
100	104	130 x 1/4"	95	100
125	146	160 x 1/4"	150	125
150	150	190 x 1/4"	107,5	150

TECHNICAL FEATURES
Made from AISI 304L and AISI 316L forged pieces

Control device:	*Lever or electrically air servo-controlled*
Standard gaskets:	*In silicone - On request EPDM-VITON-NBR*
Shutter:	*AISI 304/316*
Standard connections:	*DIN/Clamp/SMS/GAS - On request Eno/Macon*
Contact fluids:	*Group 2*
Standard finish:	*ra 1.2*
Standard production:	*from DN 15 to DN 200*
Operating pressure:	*from DN 15/100 PN 10 to DN 125/150 PN 6*
Operating temperature:	*-20°C to +80°C (viton 150°C)*
Testing:	*100%*

VFX-MF

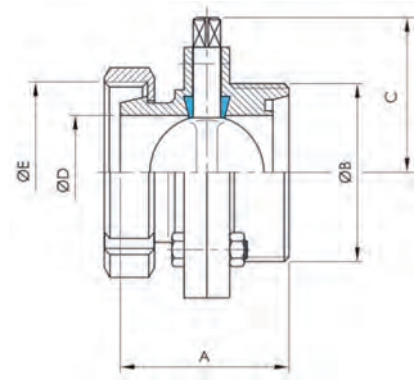


DIN	A	B E	C	D
15	66	34 x 1/8"	39	15
20	66	44 x 1/6"	39	20
25	64	52 x 1/6"	57	26
32	64	58 x 1/6"	60	32
40	72	65 x 1/6"	62	38
50	72	78 x 1/6"	68	49
65	76	95 x 1/6"	77	66
80	100	110 x 1/4"	84,5	81
100	104	130 x 1/4"	95	100
125	146	160 x 1/4"	150	125
150	150	190 x 1/4"	107,5	150

CARATTERISTICHE TECNICHE
Costruita da pezzi forgiati AISI 304L e AISI 316L

Organo di comando:	A leva o servocomandata elettricamente ad aria
Guarnizioni standard:	In silicone - A richiesta EPDM-VITON-NBR
Otturatore:	AISI 304/316
Connessioni standard:	DIN/Clamp/SMS/GAS - A richiesta Eno/Macon
Fluidi di contatto:	Gruppo 2
Finitura standard:	ra 1,2
Produzione standard:	da DN 15 a DN 200
Pressione di esercizio:	da DN 15/100 PN 10 a DN 125/150 PN 6
Temperatura di esercizio:	da -20 °C a + 80 °C (viton 150 °C)
Collaudo:	al 100%

VFX-MF

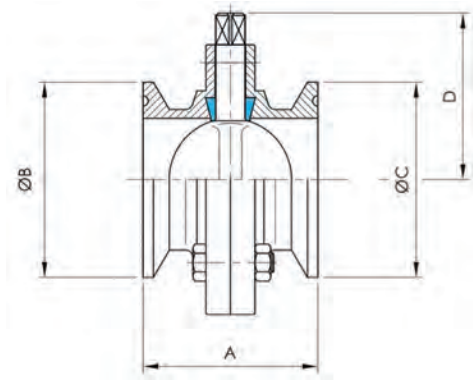


DIN	A	B E	C	D
15	66	34 x 1/8"	39	15
20	66	44 x 1/6"	39	20
25	64	52 x 1/6"	57	26
32	64	58 x 1/6"	60	32
40	72	65 x 1/6"	62	38
50	72	78 x 1/6"	68	49
65	76	95 x 1/6"	77	66
80	100	110 x 1/4"	84,5	81
100	104	130 x 1/4"	95	100
125	146	160 x 1/4"	150	125
150	150	190 x 1/4"	107,5	150

TECHNICAL FEATURES
Made from AISI 304L and AISI 316L forged pieces

Control device:	*Lever or electrically air servo-controlled*
Standard gaskets:	*Silicone - On request EPDM-VITON-NBR*
Shutter:	*AISI 304/316*
Standard connections:	*DIN/Clamp/SMS/GAS - On request Eno/Macon*
Contact fluids:	*Group 2*
Standard finish:	*ra 1.2*
Standard production:	*from DN 15 to DN 200*
Operating pressure:	*from DN 15/100 PN 10 to DN 125/150 PN 6*
Operating temperature:	*-20°C to +80°C (viton 150°C)*
Testing:	*100%*

VFX-C

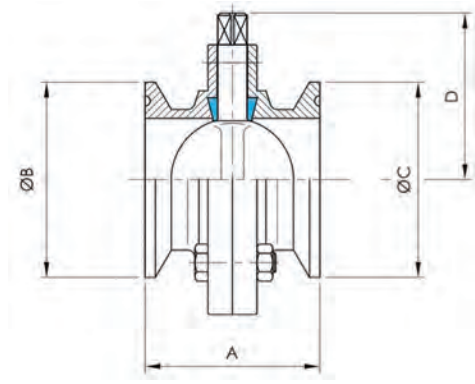


DIN	A	B	C	D
15	66	25,4	25,4	39
20	66	25,4	25,4	39
25	64	50,4	50,4	57
38	72	50,4	50,4	62
51	72	63,9	63,9	68
63	76	77,5	77,5	77
76	100	90,9	90,9	84,5
100	104	118,9	118,9	95
125	136	155	155	92,5
150	146	167	167	107,5
200	166	217	217	142,5

CARATTERISTICHE TECNICHE
Costruita da pezzi forgiati AISI 304L e AISI 316L

Organo di comando:	A leva o servocomandata elettricamente ad aria
Guarnizioni standard:	In silicone - A richiesta EPDM-VITON-NBR
Otturatore:	AISI 304/316
Connessioni standard:	DIN/Clamp/SMS/GAS - A richiesta Eno/Macon
Fluidi di contatto:	Gruppo 2
Finitura standard:	ra 1,2
Produzione standard:	da DN 15 a DN 200
Pressione di esercizio:	da DN 15/100 PN 10 a DN 125/150 PN 6
Temperatura di esercizio:	da -20 °C a + 80 °C (viton 150 °C)
Collaudo:	al 100%

VFX-C



DIN	A	B	C	D
15	66	25,4	25,4	39
20	66	25,4	25,4	39
25	64	50,4	50,4	57
38	72	50,4	50,4	62
51	72	63,9	63,9	68
63	76	77,5	77,5	77
76	100	90,9	90,9	84,5
100	104	118,9	118,9	95
125	136	155	155	92,5
150	146	167	167	107,5
200	166	217	217	142,5

TECHNICAL FEATURES
Made from AISI 304L and AISI 316L forged pieces

Control device:	*Lever or electrically air servo-controlled*
Standard gaskets:	*Silicone - On request EPDM-VITON-NBR*
Shutter:	*AISI 304/316*
Standard connections:	*DIN/Clamp/SMS/GAS - On request Eno/Macon*
Contact fluids:	*Group 2*
Standard finish:	*ra 1.2*
Standard production:	*from DN 15 to DN 200*
Operating pressure:	*from DN 15/100 PN 10 to DN 125/150 PN 6*
Operating temperature:	*-20°C to +80°C (viton 150°C)*
Testing:	*100%*

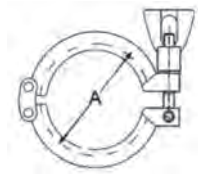
STAFFA - *BRACKET*

A richiesta da 1/2" a 3"
On request from 1/2" to 3"

PROLUNGA - *EXTENSION CORD*

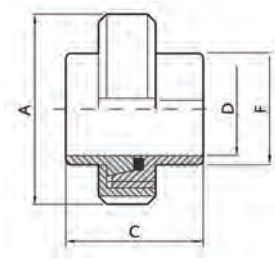
A richiesta da 1/2" a 3"
On request from 1/2" to 3"

GSX-C MORSETTO DI SERRAGLIO CLAMP - *GSX-C MENAGE CLAMP*



DIN (")	A (mm)
1/2"	25,1
3/4"	25,1
1"	50,4
1" 1/2	50,4
2"	64,0
2" 1/2	77,4
3"	90,9
4"	118,8
5"	155,0
6"	167,0
8"	217,4
10"	268,5
12"	319,3

GSX - *GSX*

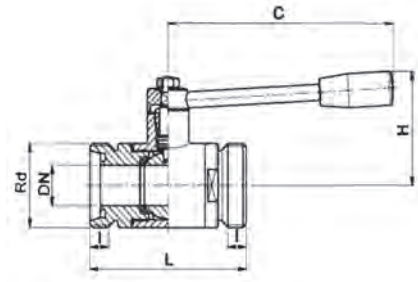


RACCORDO COMPLETO A SALDARE DIN - *DIN SOLDER COMPLETE FITTING*						
COD	DIN (mm)	D (mm)	F (mm)	A (mm)	C (mm)	PESO - *WEIGHT* (kg)
4.020.FF.02-A	10	10	15	38	34	0,14
4.020.FF.06-A	15	15	21	44	34	0,19
4.020.FF.09-A	20	20	25	54	36	0,32
4.020.FF.12-A	25	26	31	63	45	0,38
4.020.FF.23-A	32	32	37	70	51	0,47
4.020.FF.32-A	40	38	43	78	53	0,58
4.020.FF.45-A	50	50	55	92	57	0,80
4.020.FF.66-A	65	66	72	112	65	1,20
4.020.FF.72-A	80	81	87	127	75	1,75
4.020.FF.77-A	100	100	106	148	89	2,40
4.020.FF.81-A	125	125	132	178	70	3,40

VALVOLE PER ATTUATORI AISI 316 SERIE SANITARY - VALVOLE A SFERA

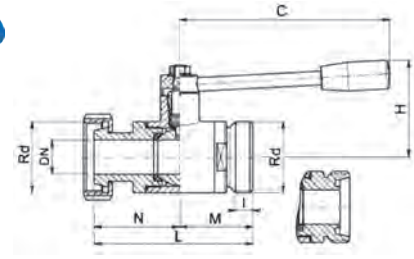
VALVES FOR AISI 316 ACTUATORS SANITARY SERIES - BALL VALVES

VSX-M / *VSX-M*



DIN	DN	Rd	L	l	C	H	PN
10	10	28 x 1/8	88	12	110	50	64
15	15	34 x 1/8	92	12	110	55	64
20	20	44 x 1/6	102	14	110	60	64
25	25	52 x 1/6	106	14	160	65	40
32	32	58 x 1/6	112	14	160	70	40
40	40	65 x 1/6	126	14	190	80	40
50	50	78 x 1/6	136	14	190	90	25
65	65	95 x 1/6	154	16	220	110	25
80	80	110 x 1/4	184	20	285	130	25
100	100	130 x 1/4	190	20	310	150	25

VSX-MF-M - *VSX-MF-M*

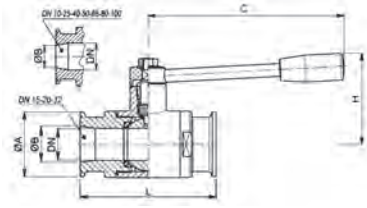


DN	Rd	L	M	N	I	C	H	PN
10	28 x 1/8	94	44	50	12	110	50	64
15	34 x 1/8	98	46	52	12	110	55	64
20	44 x 1/6	110	51	59	14	110	60	64
25	52 x 1/6	115	53	62	14	160	65	40
32	58 x 1/6	121	56	65	14	160	70	40
40	65 x 1/6	135	63	72	14	190	80	40
50	78 x 1/6	146	68	78	14	190	90	25
65	95 x 1/6	163	77	86	16	220	110	25
80	110 x 1/4	189	92	97	20	285	130	25
100	130 x 1/4	198	95	103	20	310	150	25

VALVOLE MANUALI AISI 316 SERIE SANITARY - VALVOLE A SFERA

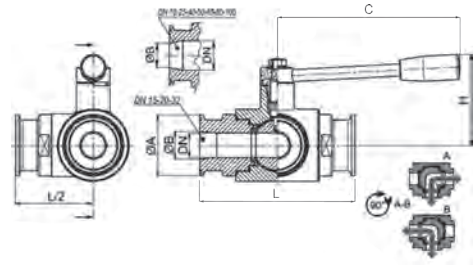
MANUAL VALVES AISI 316 SANITARY SERIES - BALL VALVES

VSX-C-M - *VSX-C-M*



CLAMP SERIE C DN/OD	DN	L	ØA	ØB	C	H	PN	Kg
1/2"	10	88	25	9,4	110	50	64	0,43
3/4"	15	92	25	15,75	110	55	64	0,52
1"	20	102	50,5	22,1	110	60	64	0,93
1"	25	106	50,5	22,1	160	65	40	1,35
1" 1/2	32	112	50,5	34,8	160	70	40	1,42
1" 1/2	40	126	50,5	34,8	190	80	40	2,43
2"	40	126	64	47,5	190	80	40	2,42
2"	50	136	64	47,5	190	90	25	3,51
2" 1/2	65	154	77,5	60,2	220	110	25	5,80
3"	80	184	91	72,9	285	130	25	9,00
4"	100	190	119	97,38	310	150	25	13,60

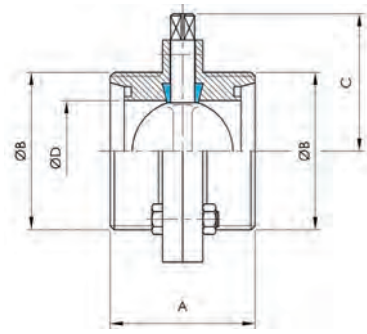
VSX-3VC-M - *VSX-3VC-M*



CLAMP SERIE C DN/OD	DN	L	ØA	ØB	C	H	PN	Kg
1/2"	10	108	25	9,7	110	60	40	1,08
3/4"	15	118	25	16	110	65	40	1,31
1"	20	130	50,5	22,2	160	70	40	2,47
1"	25	140	50,5	22,2	160	80	40	3,17
1" 1/2	32	156	50,5	34,8	190	95	40	4,98
1" 1/2	40	172	50,5	34,8	190	110	40	7,40
2"	50	182	64	47,5	220	120	25	8,80
2" 1/2 *	65	196	77,5	60,2	285	130	25	11,18
3" *	80	256	91	72,6	310	145	16	22,76
4" *	100	286	119	97,6	310	160	16	35,44

* 4 Vie - *Four-way*

VFX-M

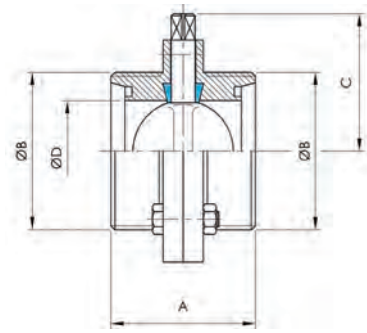


DIN	A	B	C	D
15	66	34 x 1/8"	39	15
20	66	44 x 1/6"	39	20
25	64	52 x 1/6"	57	26
32	64	58 x 1/6"	60	32
40	72	65 x 1/6"	62	38
50	72	78 x 1/6"	68	49
65	76	95 x 1/6"	77	66
80	100	110 x 1/4"	84,5	81
100	104	130 x 1/4"	95	100
125	146	160 x 1/4"	150	125
150	150	190 x 1/4"	107,5	150

CARATTERISTICHE TECNICHE
Costruita da pezzi forgiati AISI 304L e AISI 316L

Organo di comando:	A leva o servocomandata elettricamente ad aria
Guarnizioni standard:	In silicone - A richiesta EPDM-VITON-NBR
Otturatore:	AISI 304/316
Connessioni standard:	DIN/Clamp/SMS/GAS - A richiesta Eno/Macon
Fluidi di contatto:	Gruppo 2
Finitura standard:	ra 1,2
Produzione standard:	da DN 15 a DN 200
Pressione di esercizio:	da DN 15/100 PN 10 a DN 125/150 PN 6
Temperatura di esercizio:	da -20 °C a + 80 °C (viton 150 °C)
Collaudo:	al 100%

VFX-M

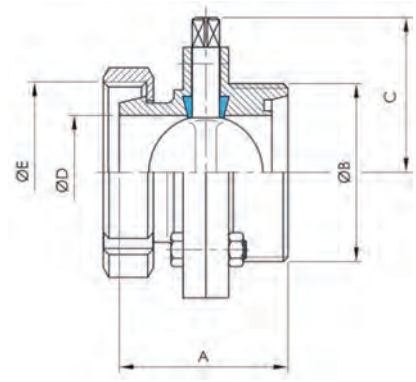


DIN	A	B	C	D
15	66	34 x 1/8"	39	15
20	66	44 x 1/6"	39	20
25	64	52 x 1/6"	57	26
32	64	58 x 1/6"	60	32
40	72	65 x 1/6"	62	38
50	72	78 x 1/6"	68	49
65	76	95 x 1/6"	77	66
80	100	110 x 1/4"	84,5	81
100	104	130 x 1/4"	95	100
125	146	160 x 1/4"	150	125
150	150	190 x 1/4"	107,5	150

TECHNICAL FEATURES
Made from AISI 304L and AISI 316L forged pieces

Control device:	*Lever or electrically air servo-controlled*
Standard gaskets:	*Silicone - On request EPDM-VITON-NBR*
Shutter:	*AISI 304/316*
Standard connections:	*DIN/Clamp/SMS/GAS - On request Eno/Macon*
Contact fluids:	*Group 2*
Standard finish:	*ra 1.2*
Standard production:	*from DN 15 to DN 200*
Operating pressure:	*from DN 15/100 PN 10 to DN 125/150 PN 6*
Operating temperature:	*-20°C to +80°C (viton 150°C)*
Testing:	*100%*

VFX-MF-M

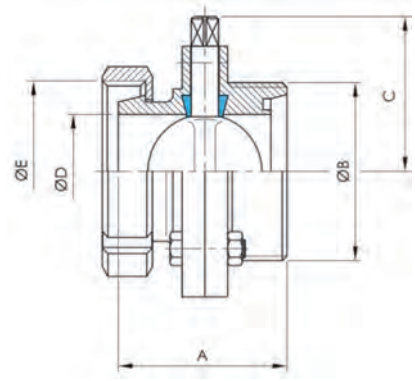


DIN	A	B E	C	D
15	66	34 x 1/8"	39	15
20	66	44 x 1/6"	39	20
25	64	52 x 1/6"	57	26
32	64	58 x 1/6"	60	32
40	72	65 x 1/6"	62	38
50	72	78 x 1/6"	68	49
65	76	95 x 1/6"	77	66
80	100	110 x 1/4"	84,5	81
100	104	130 x 1/4"	95	100
125	146	160 x 1/4"	150	125
150	150	190 x 1/4"	107,5	150

CARATTERISTICHE TECNICHE
Costruita da pezzi forgiati AISI 304L e AISI 316L

Organo di comando:	A leva o servocomandata elettricamente ad aria
Guarnizioni standard:	In silicone - A richiesta EPDM-VITON-NBR
Otturatore:	AISI 304/316
Connessioni standard:	DIN/Clamp/SMS/GAS - A richiesta Eno/Macon
Fluidi di contatto:	Gruppo 2
Finitura standard:	ra 1,2
Produzione standard:	da DN 15 a DN 200
Pressione di esercizio:	da DN 15/100 PN 10 a DN 125/150 PN 6
Temperatura di esercizio:	da -20 °C a + 80 °C (viton 150 °C)
Collaudo:	al 100%

VFX-MF-M

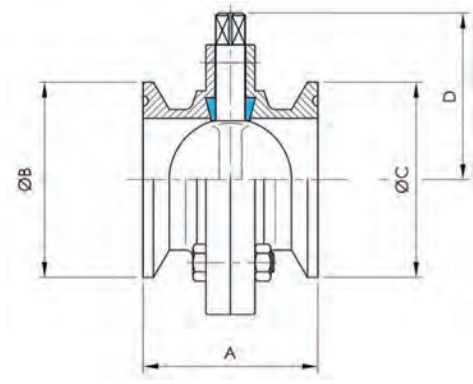


DIN	A	B E	C	D
15	66	34 x 1/8"	39	15
20	66	44 x 1/6"	39	20
25	64	52 x 1/6"	57	26
32	64	58 x 1/6"	60	32
40	72	65 x 1/6"	62	38
50	72	78 x 1/6"	68	49
65	76	95 x 1/6"	77	66
80	100	110 x 1/4"	84,5	81
100	104	130 x 1/4"	95	100
125	146	160 x 1/4"	150	125
150	150	190 x 1/4"	107,5	150

TECHNICAL FEATURES
Made from AISI 304L and AISI 316L forged pieces

Control device:	*Lever or electrically air servo-controlled*
Standard gaskets:	*Silicone - On request EPDM-VITON-NBR*
Shutter:	*AISI 304/316*
Standard connections:	*DIN/Clamp/SMS/GAS - On request Eno/Macon*
Contact fluids:	*Group 2*
Standard finish:	*ra 1.2*
Standard production:	*from DN 15 to DN 200*
Operating pressure:	*from DN 15/100 PN 10 to DN 125/150 PN 6*
Operating temperature:	*-20°C to +80°C (viton 150°C)*
Testing:	*100%*

VFX-C-M

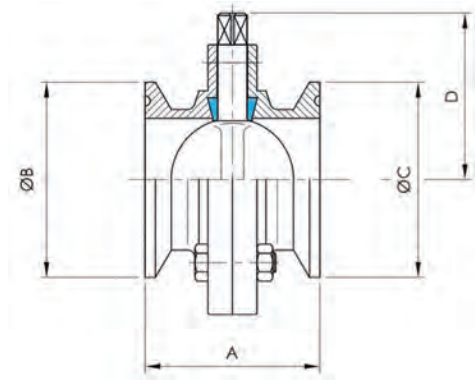


DIN	A	B	C	D
15	66	25,4	25,4	39
20	66	25,4	25,4	39
25	64	50,4	50,4	57
38	72	50,4	50,4	62
51	72	63,9	63,9	68
63	76	77,5	77,5	77
76	100	90,9	90,9	84,5
100	104	118,9	118,9	95
125	136	155	155	92,5
150	146	167	167	107,5
200	166	217	217	142,5

CARATTERISTICHE TECNICHE
Costruita da pezzi forgiati AISI 304L e AISI 316L

Organo di comando:	A leva o servocomandata elettricamente ad aria
Guarnizioni standard:	In silicone - A richiesta EPDM-VITON-NBR
Otturatore:	AISI 304/316
Connessioni standard:	DIN/Clamp/SMS/GAS - A richiesta Eno/Macon
Fluidi di contatto:	Gruppo 2
Finitura standard:	ra 1,2
Produzione standard:	da DN 15 a DN 200
Pressione di esercizio:	da DN 15/100 PN 10 a DN 125/150 PN 6
Temperatura di esercizio:	da -20 °C a + 80 °C (viton 150 °C)
Collaudo:	al 100%

VFX-C-M

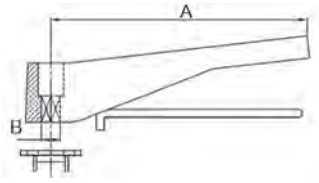


DIN	A	B	C	D
15	66	25,4	25,4	39
20	66	25,4	25,4	39
25	64	50,4	50,4	57
38	72	50,4	50,4	62
51	72	63,9	63,9	68
63	76	77,5	77,5	77
76	100	90,9	90,9	84,5
100	104	118,9	118,9	95
125	136	155	155	92,5
150	146	167	167	107,5
200	166	217	217	142,5

TECHNICAL FEATURES
Made from AISI 304L and AISI 316L forged pieces

Control device:	*Lever or electrically air servo-controlled*
Standard gaskets:	*Silicone - On request EPDM-VITON-NBR*
Shutter:	*AISI 304/316*
Standard connections:	*DIN/Clamp/SMS/GAS - On request Eno/Macon*
Contact fluids:	*Group 2*
Standard finish:	*ra 1.2*
Standard production:	*from DN 15 to DN 200*
Operating pressure:	*from DN 15/100 PN 10 to DN 125/150 PN 6*
Operating temperature:	*-20°C to +80°C (viton 150°C)*
Testing:	*100%*

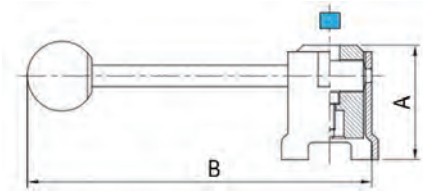
MX-S



MANIGLIA INOX STAMPATA 2 POSIZIONI

DIN	A	B
25 ÷ 65	150	10
80 ÷ 100	180	10

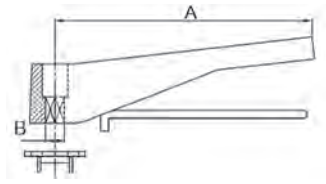
MX



MANIGLIA INOX 2 POSIZIONI

DIN	A	B
15 ÷ 20	48	126
25 ÷ 65	55	160
80 ÷ 100	62	170

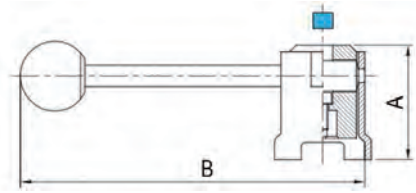
MX-S



PRESSED STAINLESS STEEL HANDLE 2 POSITIONS

DIN	A	B
25 ÷ 65	150	10
80 ÷ 100	180	10

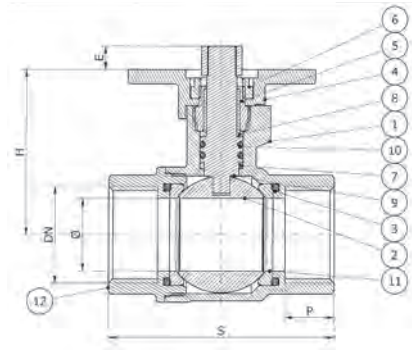
MX

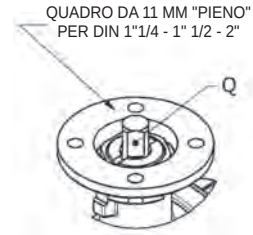


STAINLESS STEEL HANDLE 2 POSITIONS

DIN	A	B
15 ÷ 20	48	126
25 ÷ 65	55	160
80 ÷ 100	62	170

VS-FF





DN	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
Ø	10	10	15	20	25	32	39	48	64	78
S	45,5	45,5	56	68	78	90	100	115	141	159
P	11,5	11,5	14	16	17	18	19	21	25	25
H	47	47	48	52	56	68	73	79	92	102
E	8	8	8	8	8	10	10	10	12	12
U	7/9/11	7/9/11	7/9/11	7/9/11	7/9/11	11/14	11/14	11/14	14	14
ISO	F03-F05	F03-F05	F03-F05	F03-F05	F03-F05	F05	F05	F05	F05	F05
Nm*	4*	4*	4*	4*	5*	5*	6*	7*	15*	18*
PN	40	40	40	40	40	40	40	40	25	25

IN ACCORDO ALLA DIRETTIVA PED 2014/68/UE Nm*: valori riscontrati in assenza di pressione Misure 2" 1/2 - 3" disponibili a richiesta

REF.	COMPONENTE	MATERIALE	QUANTITÀ
1	CORPO	EN12420-CW617N-NICHELATO	1
2	SFERA	EN12165-CW617N-CROMATA	1
**3	O-RING	NBR	2
4	PIASTRA PORTAMOTORE	EN12420-CW617N-NICHELATA	1
5	GHIERA	EN12164-CW614N	1
6	DADO BLOCCA PIASTRA	EN12164-CW614N	1
7	ANELLO ANTIGRIPPAGGIO	P.T.F.E.F391	1
8	BOCCOLA ANTIGRIPPAGGIO	P.T.F.E.F391	1
9	PERNO	EN12164-CW614N	1
10	O-RING	NBR	2
11	SEDE	P.T.F.E.F.	2
12	MANICOTTO	EN12420-CW617N-NICHELATO	1

** NON PRESENTE NELLE MISURE 1" - 1/2"

CARATTERISTICHE VALVOLA

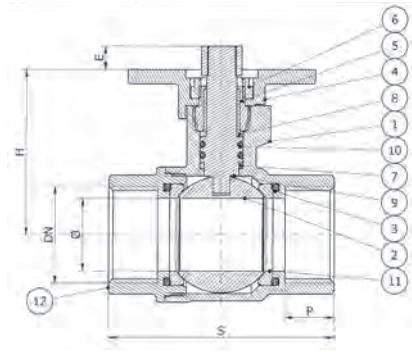
Temperature di utilizzo:	min. -10 °C max +100 °C
Presione massima:	40 Bar (25 Bar per il DN 3")
Estremità filettate:	ISO 228/1
Piastra porta motore:	ISO 5211

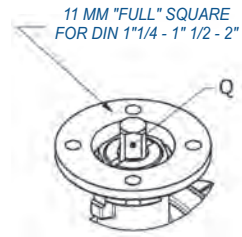
ESECUZIONI SPECIALI A RICHIESTA

O-ring:	FP/EPDM/FKM/HNBR
Sedi:	Caricato in carbografite/caricato vetro
Valvola:	Materiale ADZ
Sfera:	Acciaio inox AISI 316/ADZ

SAS declina ogni responsabilità qualora vengano individuati prodotti non compatibili con materiali utilizzati per la costruzione delle proprie valvole.
I dati riportati sono a titolo indicativo. SAS si riserva il diritto di modificarli senza alcun preavviso.
SAS si riserva, a termini di legge, la proprietà del presente disegno con divieto di riprodurlo o comunicarlo a terzi senza autorizzazione.

VS-FF





DN	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
Ø	10	10	15	20	25	32	39	48	64	78
S	45,5	45,5	56	68	78	90	100	115	141	159
P	11,5	11,5	14	16	17	18	19	21	25	25
H	47	47	48	52	56	68	73	79	92	102
E	8	8	8	8	8	10	10	10	12	12
U	7/9/11	7/9/11	7/9/11	7/9/11	7/9/11	11/14	11/14	11/14	14	14
ISO	F03-F05	F03-F05	F03-F05	F03-F05	F03-F05	F05	F05	F05	F05	F05
Nm*	4*	4*	4*	4*	5*	5*	6*	7*	15*	18*
PN	40	40	40	40	40	40	40	40	25	25

IN ACCORDANCE WITH PED 2014/68/EU DIRECTIVE *Nm*: values found in the absence of pressure* *Sizes 2" 1/2 - 3" available on request*

REF.	COMPONENT	MATERIAL	QUANTITY
1	BODY	EN12420-CW617N-NICKEL PLATED	1
2	BALL	EN12165-CW617N-CHROME	1
**3	O-RINGS	NBR	2
4	MOTOR PLATE	EN12420-CW617N-NICKEL PLATED	1
5	RING	EN12164-CW614N	1
6	PLATE LOCK NUT	EN12164-CW614N	1
7	ANTI-SEIZE RING	P.T.F.E.F391	1
8	ANTI-SEIZE BUSHING	P.T.F.E.F391	1
9	PIN	EN12164-CW614N	1
10	O-RINGS	NBR	2
11	SITE	P.T.F.E.F.	2
12	SLEEVE	EN12420-CW617N-NICKEL PLATED	1

** NOT PRESENT IN SIZES 1" - 1/2"

VALVE FEATURES

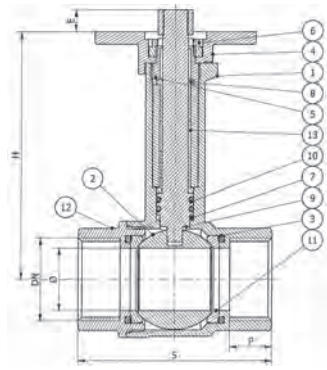
Temperatures of use:	min. -10°C max +100°C
Maximum pressure:	40 Bar (25 Bar for DN 3")
Threaded ends:	ISO 228/1
Motor support plate:	ISO 5211

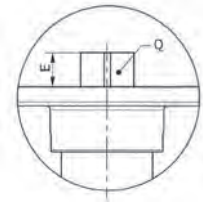
SPECIAL EXECUTIONS ON REQUEST

O-rings:	FP/EPDM/FKM/HNBR
Seats:	Carbographite filled/glass filled
Valve:	ADZ material
Ball:	AISI 316/ADZ stainless steel

SAS declines all responsibility if products that are not compatible with the materials used for the construction of its valves are identified.
The data shown are indicative only. SAS reserves the right to modify them without notice.
SAS reserves, in accordance with the law, the ownership of this design with the prohibition of reproducing it or communicating it to third parties without authorization.

VS-FF-L





DN	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Ø	15	20	25	32	39	48
S	56	68	78	90	100	115
P	14	16	17	18	19	21
H	89	92	98	108	114	131
E	8	8	8	10	10	10
Q	7/9/11	7/9/11	7/9/11	11/14	11/14	11/14
ISO	F03-F05	F03-F05	F03-F05	F05	F05	F05
Nm **	4	4	5	5	6	7
PN	40	40	40	40	40	40

IN ACCORDO ALLA DIRETTIVA PED 2014/68/UE Nm **: valori riscontrati in assenza di pressione

REF.	COMPONENTE	MATERIALE	QUANTITÀ
1	CORPO	EN12420-CW617N-NICHELATO	1
2	SFERA	EN12164-CW614N-CROMATA	1
*3	O-RING	NBR	2
4	PIASTRA PORTAMOTORE	EN12420-CW617N-NICHELATA	1
5	GHIERA	EN12164-CW614N	1
6	DADO BLOCCA PIASTRA	EN12164-CW614N	1
7	ANELLO ANTIGRIPPAGGIO	P.T.F.E.F391	1
8	BOCCOLA ANTIGRIPPAGGIO	P.T.F.E.F391	1
9	PERNO	EN12164-CW614N	1
10	O-RING	NBR	2
11	SEDE	P.T.F.E.	2
12	MANICOTTO	EN12420-CW617N-NICHELATO	1
13	TUBETTO DISTANZIALE	EN12164-CW614N	1

* NON PRESENTE NELLE MISURE 3/8" - 1/2"

CARATTERISTICHE VALVOLA

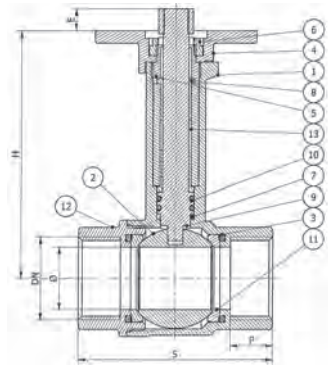
Temperature di utilizzo:	min. -10 °C max +100 °C
Presione massima:	40 Bar
Estremità filettate:	ISO 228/1
Piastra porta motore:	ISO 5211

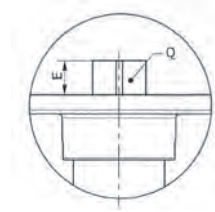
ESECUZIONI SPECIALI A RICHIESTA

O-ring:	FP/EPDM/FKM
Sedi:	Caricato in carbografite/caricato vetro
Valvola:	Materiale ADZ
Sfera:	Acciaio inox AISI 316/ADZ/teflonata

SAS declina ogni responsabilità qualora vengano individuati prodotti non compatibili con materiali utilizzati per la costruzione delle proprie valvole.
I dati riportati sono a titolo indicativo. SAS si riserva il diritto di modificarli senza alcun preavviso.
SAS si riserva, a termini di legge, la proprietà del presente disegno con divieto di riprodurlo o comunicarlo a terzi senza autorizzazzione.

VS-FF-L





DN	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Ø	15	20	25	32	39	48
S	56	68	78	90	100	115
P	14	16	17	18	19	21
H	89	92	98	108	114	131
E	8	8	8	10	10	10
Q	7/9/11	7/9/11	7/9/11	11/14	11/14	11/14
ISO	F03-F05	F03-F05	F03-F05	F05	F05	F05
Nm **	4	4	5	5	6	7
PN	40	40	40	40	40	40

IN ACCORDANCE WITH PED 2014/68/EU DIRECTIVE *Nm*: values found in the absence of pressure*

REF.	COMPONENT	MATERIAL	QUANTITY
1	BODY	EN12420-CW617N-NICKEL PLATED	1
2	BALL	EN12164-CW614N-CHROME	1
*3	O-RINGS	NBR	2
4	MOTOR PLATE	EN12420-CW617N-NICKEL PLATED	1
5	RING	EN12164-CW614N	1
6	PLATE LOCK NUT	EN12164-CW614N	1
7	ANTI-SEIZE RING	P.T.F.E.F391	1
8	ANTI-SEIZE BUSHING	P.T.F.E.F391	1
9	PIN	EN12164-CW614N	1
10	O-RINGS	NBR	2
11	SITE	P.T.F.E.	2
12	SLEEVE	EN12420-CW617N-NICKEL PLATED	1
13	SPACER TUBE	EN12164-CW614N	1

** NON PRESENTE NELLE MISURE 3/8" - 1/2"*

VALVE FEATURES

Temperatures of use:	min. -10°C max +100°C
Maximum pressure:	40 Bar
Threaded ends:	ISO 228/1
Motor support plate:	ISO 5211

SPECIAL EXECUTIONS ON REQUEST

O-rings:	FP/EPDM/FKM
Seats:	Carbographite filled/glass filled
Valve:	ADZ material
Ball:	Stainless steel AISI 316/ADZ/Teflon coated

SAS declines all responsibility if products that are not compatible with the materials used for the construction of its valves are identified.
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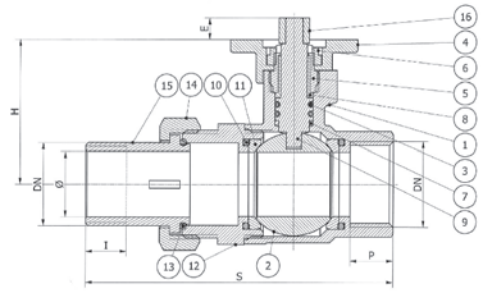
VS-MF-B



DN	1/2"	3/4"	1"
Ø	15	20	25
S	85	99	120
P	14	16	17
I	12	14	16
H	49	52	56
E	8	8	8
Q	7/9/11	7/9/11	7/9/11
ISO	F03 - F05	F03 - F05	F03 - F05
*Nm	4	4	5
PN	32	32	32

* Nm VALORI RISCONTRATI IN ASSENZA DI PRESSIONE

REF.	COMPONENTE	MATERIALE	QUANTITÀ
1	CORPO	EN12420-CW617N-NICHELATO	1
2	SFERA	EN12165-CW617N-CROMATA	1
3	** O-RING	NBR	2
4	PIASTRA PORTAMOTORE	EN12420-CW617N-NICHELATA	1
5	GHIERA	EN12164-CW614N	1
6	DADO BLOCCA PIASTRA	EN12164-CW614N	1
7	ANELLO ANTIGRIPPAGGIO	P.T.F.E. F391	1
8	BOCCOLA ANTIGRIPAPGGIO	P.T.F.E. F391	1
9	PERNO	EN12164-CW614N	1
10	O-RING	NBR	2
11	SEDE	P.T.F.E.	2
12	MANICOTTO	EN12420-CW617N-NICHELATO	1
13	O-RING	NBR	1
14	DADO	EN12420-CW617N-NICHELATO	1
15	CODOLO	EN12420-CW617N-NICHELATO	1
16	AUMENTATORE QUADRO	EN12164-CW614N	1

NON PRESENTE NELLA MISURA 1/2"

CARATTERISTICHE VALVOLA
Temperature di utilizzo: min. -10 °C - max +100 °C
Pressione massima: 32 bar
Estremità filettate: ISO 228/1
Piastra portamotore: ISO 5211

ESECUZIONI SPECIALI A RICHIESTA
O-ring: EPDM/FKM/NBR
Sedi: Caricato in carbografite/caricato vetro
Valvola: Materiale ADZ
Sfera: Acciaio inox AISI 316/ADZ/teflonata

SAS declina ogni responsabilità qualora vengano individuati prodotti non compatibili con materiali utilizzati per la costruzione delle proprie valvole.
I dati riportati sono a titolo indicativo. SAS si riserva il diritto di modificarli senza alcun preavviso.
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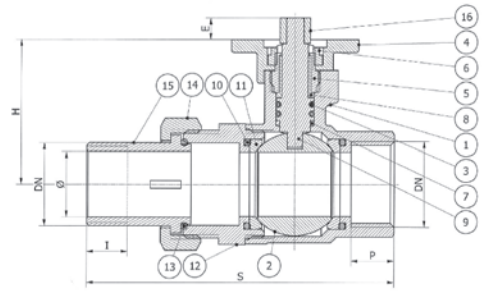
VS-MF-B



DN	1/2"	3/4"	1"
Ø	15	20	25
S	85	99	120
P	14	16	17
I	12	14	16
H	49	52	56
E	8	8	8
Q	7/9/11	7/9/11	7/9/11
ISO	F03 - F05	F03 - F05	F03 - F05
*Nm	4	4	5
PN	32	32	32

Nm: values found in the absence of pressure*

REF.	COMPONENT	MATERIAL	QUANTITY
1	BODY	EN12420-CW617N-NICKEL PLATED	1
2	BALL	EN12165-CW617N-CHROME	1
3	** O-RINGS	NBR	2
4	MOTOR PLATE	EN12420-CW617N-NICKEL PLATED	1
5	RING	EN12164-CW614N	1
6	PLATE LOCK NUT	EN12164-CW614N	1
7	ANTI-SEIZE RING	P.T.F.E. F391	1
8	ANTI-SEIZE BUSHING	P.T.F.E. F391	1
9	PIN	EN12164-CW614N	1
10	O-RINGS	NBR	2
11	SITE	P.T.F.E.	2
12	SLEEVE	EN12420-CW617N-NICKEL PLATED	1
13	O-RINGS	NBR	1
14	NUT	EN12420-CW617N-NICKEL PLATED	1
15	tang	EN12420-CW617N-NICKEL PLATED	1
16	FRAMEWORK INCREASE	EN12164-CW614N	1

NOT PRESENT IN SIZE 1/2"

VALVE FEATURES

Temperatures of use:	min. -10°C - max +100°C
Maximum pressure:	32bar
Threaded ends:	ISO 228/1
Motor plate:	ISO 5211

SPECIAL EXECUTIONS ON REQUEST

O-rings:	EPDM/FKM/NBR
Seats:	Carbographite filled/glass filled
Valve:	ADZ material
Ball:	Stainless steel AISI 316/ADZ/Teflon coated

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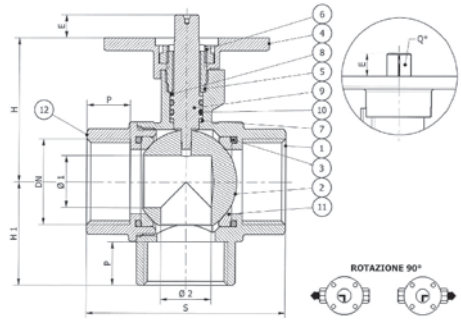
VSD-3FR-L



DN	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	3"
Ø 1	10	15	20	25	32	40	68
Ø 2	10	15	20	25	32	40	80
S	56	68	78	90	100	115	180
P	14	16	17	18	19	21	25
H	48	52	56	68	73	79	104
H1	30	34,2	40,4	47,2	53	61,8	114
E	8	8	8	10	10	10	12
Q	7/9/11	7/9/11	7/9/11	11/14	11/14	11/14	14
ISO	F03 - F05	F03 - F05	F03 - F05	F05	F05	F05	F05
*Nm	4	4	5	5	6	7	18
PN	25	25	25	25	25	25	25

IN ACCORDO ALLA DIRETTIVA PED 2014/68/UE * VALORI RISCONTRATI IN ASSENZA DI PRESSIONE

REF.	COMPONENTE	MATERIALE	QUANTITÀ
1	CORPO	EN12420-CW617N-NICHELATO	1
2	SFERA	EN12165-CW617N-CROMATA	1
**3	O-RING	NBR	2
4	PIASTRA PORTAMOTORE	EN12164-CW614N NICHELATA	1
5	GHIERA	EN12164-CW614N	1
6	DADO BLOCCA PIASTRA	EN12164-CW614N	1
7	ANELLO ANTIGRIPPAGGIO	P.T.F.E. F391	1
8	BOCCOLA ANTIGRIPPAGGIO	P.T.F.E. F391	1
9	PERNO	EN12164-CW614N	1
10	O-RING	NBR	2
11	SEDE	P.T.F.E.	2
12	MANICOTTO	EN12420-CW617N-NICHELATO	1

** NON PRESENTE NELLE MISURE 1/4" - 3/8" - 1/2"

CARATTERISTICHE VALVOLA
Temperature di utilizzo: min. -10 °C max +100 °C
Pressione max di esercizio: 25 Bar
Estremità filettate: ISO 228/1
Piastra portamotore: ISO 5211

ESECUZIONI SPECIALI A RICHIESTA
O-ring: FP/EPDM/FKM/HNBR
Sedi: Caricato in carbografite/caricato vetro
Sfera: Acciaio inox AISI 316

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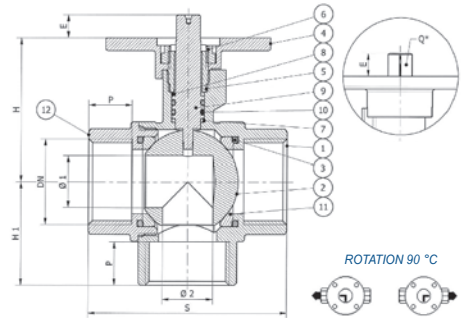
VSD-3FR-L



DN	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	3"
Ø 1	10	15	20	25	32	40	68
Ø 2	10	15	20	25	32	40	80
S	56	68	78	90	100	115	180
P	14	16	17	18	19	21	25
H	48	52	56	68	73	79	104
H1	30	34,2	40,4	47,2	53	61,8	114
E	8	8	8	10	10	10	12
Q	7/9/11	7/9/11	7/9/11	11/14	11/14	11/14	14
ISO	F03 - F05	F03 - F05	F03 - F05	F05	F05	F05	F05
*Nm	4	4	5	5	6	7	18
PN	25	25	25	25	25	25	25

*IN ACCORDANCE WITH THE PED DIRECTIVE 2014/68/EU *Nm: VALUES MATCHED IN THE ABSENCE OF PRESSURE*

REF.	COMPONENT	MATERIAL	QUANTITY
1	BODY	EN12420-CW617N-NICKEL PLATED	1
2	BALL	EN12165-CW617N-CHROME	1
**3	O-RINGS	NBR	2
4	MOTOR PLATE	EN12164-CW614N NICKEL PLATED	1
5	RING	EN12164-CW614N	1
6	PLATE LOCK NUT	EN12164-CW614N	1
7	ANTI-SEIZE RING	P.T.F.E. F391	1
8	ANTI-SEIZE BUSHING	P.T.F.E. F391	1
9	PIN	EN12164-CW614N	1
10	O-RINGS	NBR	2
11	SITE	P.T.F.E.	2
12	SLEEVE	EN12420-CW617N-NICKEL PLATED	1

*** NOT PRESENT IN SIZES 1/4" - 3/8" - 1/2"*

VALVE FEATURES
Temperatures of use: min. -10°C max +100°C
Max working pressure: 25 Bar
Threaded ends: ISO 228/1
Motor plate: ISO 5211

SPECIAL EXECUTIONS ON REQUEST
O-rings: FP/EPDM/FKM/HNBR
Seats: Carbographite filled/glass filled
Ball: AISI 316 stainless steel

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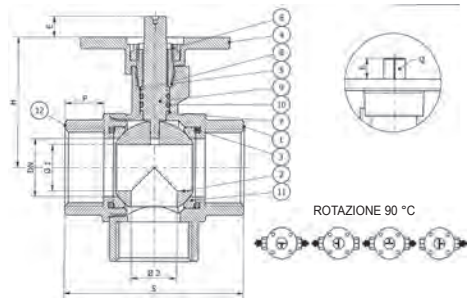
VSD-3FR-T



DN	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	3"
Ø 1	10	15	20	25	32	40	68
Ø 2	10	15	20	25	32	40	80
S	56	68	78	90	100	115	180
P	14	16	17	18	19	21	25
H	48	52	56	68	73	79	104
E	8	8	8	10	10	10	12
Q	7/9/11	7/9/11	7/9/11	11/14	11/14	11/14	14
ISO	F03 - F05	F03 - F05	F03 - F05	F05	F05	F05	F05
*Nm	4	4	5	5	6	7	18
PN	25	25	25	25	25	25	25

IN ACCORDO ALLA DIRETTIVA PED 2014/68/UE *Nm: VALORI RISCONTRATI IN ASSENZA DI PRESSIONE

REF.	COMPONENTE	MATERIALE	QUANTITÀ
1	CORPO	EN12420-CW617N-NICHELATO	1
2	SFERA	EN12165-CW617N-CROMATA	1
**3	O-RING	NBR	2
4	PIASTRA PORTAMOTORE	EN12420-CW617N-NICHELATA	1
5	GHIERA	EN12164-CW614N	1
6	DADO BLOCCA PIASTRA	EN12164-CW614N	1
7	ANELLO ANTIGRIPPAGGIO	P.T.F.E. F391	1
8	BOCCOLA ANTIGRIPPAGGIO	P.T.F.E. F391	1
9	PERNO	EN12164-CW614N	1
10	O-RING	NBR	2
11	SEDE	P.T.F.E.	2
12	MANICOTTO	EN12420-CW617N-NICHELATO	1

** NON PRESENTE NELLE MISURE 1/4" - 3/8" - 1/2"

CARATTERISTICHE VALVOLA
Temperature di utilizzo: min. -10 °C max +100 °C
Pressione max di esercizio: 25 Bar
Estremità filettate: ISO 228/1
Piastra portamotore: ISO 5211

ESECUZIONI SPECIALI A RICHIESTA
O-ring: FP/EPDM/SILICONE/HNBR
Sedi: Caricato in carbografite/caricato vetro

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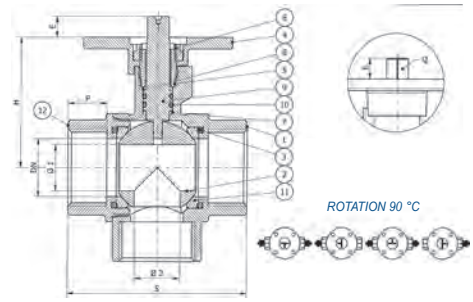
VSD-3FR-T



DN	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	3"
Ø 1	10	15	20	25	32	40	68
Ø 2	10	15	20	25	32	40	80
S	56	68	78	90	100	115	180
P	14	16	17	18	19	21	25
H	48	52	56	68	73	79	104
E	8	8	8	10	10	10	12
Q	7/9/11	7/9/11	7/9/11	11/14	11/14	11/14	14
ISO	F03 - F05	F03 - F05	F03 - F05	F05	F05	F05	F05
*Nm	4	4	5	5	6	7	18
PN	25	25	25	25	25	25	25

IN ACCORDANCE WITH THE PED DIRECTIVE 2014/68/EU *Nm: VALUES MATCHED IN THE ABSENCE OF PRESSURE

REF.	COMPONENT	MATERIAL	QUANTITY
1	BODY	EN12420-CW617N-NICKEL PLATED	1
2	BALL	EN12165-CW617N-CHROME	1
**3	O-RINGS	NBR	2
4	MOTOR PLATE	EN12420-CW617N-NICKEL PLATED	1
5	RING	EN12164-CW614N	1
6	PLATE LOCK NUT	EN12164-CW614N	1
7	ANTI-SEIZE RING	P.T.F.E. F391	1
8	ANTI-SEIZE BUSHING	P.T.F.E. F391	1
9	PIN	EN12164-CW614N	1
10	O-RINGS	NBR	2
11	SITE	P.T.F.E.	2
12	SLEEVE	EN12420-CW617N-NICKEL PLATED	1

** NOT PRESENT IN SIZES 1/4" - 3/8" - 1/2"

VALVE FEATURES
Temperatures of use: min. -10°C max +100°C
Max working pressure: 25 Bar
Threaded ends: ISO 228/1
Motor plate: ISO 5211

SPECIAL EXECUTIONS ON REQUEST
O-rings: FP/EPDM/SILICONE/HNBR
Seats: Carbographite filled/glass filled

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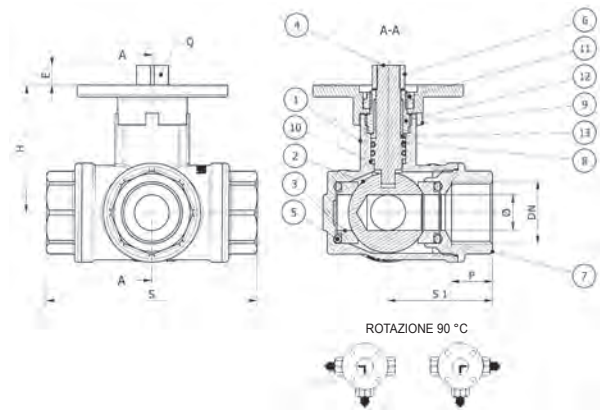
VS-3FR-L



DN	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	2" 1/2
S	76	76	82	90	106	120	142	165	194
S1	38	38	41	45	53	60	71	82,5	97
Ø	10	10	10	15	20	25	32	40	50
P	18	18	17	18,5	20	23,5	28,5	32	35
H	50,5	50,5	50,5	53,5	63	67	73	80	90,5
E	8	8	8	8	10	10	12	12	12
Q	7/9/11	7/9/11	7/9/11	7/9/11	11/14	11/14	11/14	11/14	14
ISO	F03 - F05	F03 - F05	F03 - F05	F03 - F05	F05	F05	F05	F05	F05
*Nm	4	4	4	4	5	6	8	9	12
PN	40	40	40	40	40	40	40	40	40

*Nm: VALORI RISCONTRATI IN ASSENZA DI PRESSIONE

REF.	COMPONENTE	MATERIALE	QUANTITÀ
1	CORPO	EN12420-CW617N-NICHELATO	1
2	SFERA	EN12164-CW614N-CROMATA	1
3	SEDE	P.T.F.E. F391	4
4	PERNO	EN12164-CW614N	1
5	O-RING	NBR	4
6	AUMENTATORE QUADRO	EN12164-CW614N	1
7	MANICOTTO	EN12420-CW617N-NICHELATO	3
8	O-RING	NBR	2
9	PIASTRA PORTAMOTORE	EN12420-CW617N-NICHELATA	1
10	ANELLO ANTIGRIPPAGGIO	P.T.F.E. F 391	1
11	DADO BLOCCA PIASTRA	EN12164-CW614N	1
12	GHIERA	EN12164-CW614N	1
13	BOCCOLA ANTIGRIPPAGGIO	P.T.F.E. F 391	1

CARATTERISTICHE VALVOLA
Temperature di utilizzo: min. -10 °C max +100 °C
Pressione max di esercizio: 40 Bar
Estremità filettate: ISO 228/1
Piastra portamotore: ISO 5211

ESECUZIONI SPECIALI A RICHIESTA
O-ring: FP/EPDM/FKM/HNBR
Sedi: Caricato in carbografite/caricato vetro

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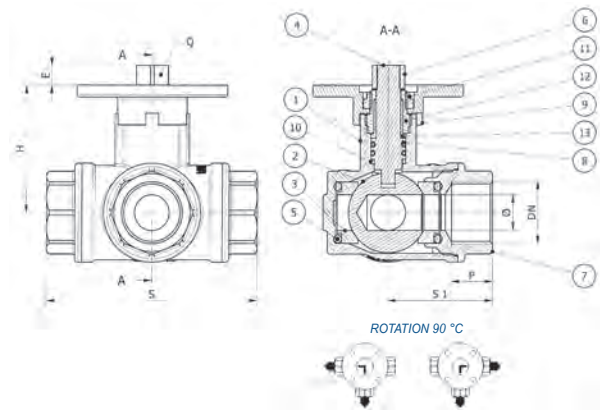
VS-3FR-L



DN	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	2" 1/2
S	76	76	82	90	106	120	142	165	194
S1	38	38	41	45	53	60	71	82,5	97
Ø	10	10	10	15	20	25	32	40	50
P	18	18	17	18,5	20	23,5	28,5	32	35
H	50,5	50,5	50,5	53,5	63	67	73	80	90,5
E	8	8	8	8	10	10	12	12	12
Q	7/9/11	7/9/11	7/9/11	7/9/11	11/14	11/14	11/14	11/14	14
ISO	F03 - F05	F03 - F05	F03 - F05	F03 - F05	F05	F05	F05	F05	F05
*Nm	4	4	4	4	5	6	8	9	12
PN	40	40	40	40	40	40	40	40	40

*Nm: VALUES FOUND IN THE ABSENCE OF PRESSURE

REF.	COMPONENT	MATERIAL	QUANTITY
1	BODY	EN12420-CW617N-NICKEL PLATED	1
2	BALL	EN12164-CW614N-CHROME	1
3	SITE	P.T.F.E. F391	4
4	PIN	EN12164-CW614N	1
5	O-RINGS	NBR	4
6	FRAMEWORK INCREASE	EN12164-CW614N	1
7	SLEEVE	EN12420-CW617N-NICKEL PLATED	3
8	O-RINGS	NBR	2
9	MOTOR PLATE	EN12420-CW617N-NICKEL PLATED	1
10	ANTI-SEIZE RING	P.T.F.E. F 391	1
11	PLATE LOCK NUT	EN12164-CW614N	1
12	RING	EN12164-CW614N	1
13	ANTI-SEIZE BUSHING	P.T.F.E. F 391	1

VALVE FEATURES
Temperatures of use: *min. -10°C max +100°C*
Max working pressure: *40 Bar*
Threaded ends: *ISO 228/1*
Motor plate: *ISO 5211*

SPECIAL EXECUTIONS ON REQUEST
O-rings: *FP/EPDM/FKM/HNBR*
Seats: *Carbographite filled/glass filled*

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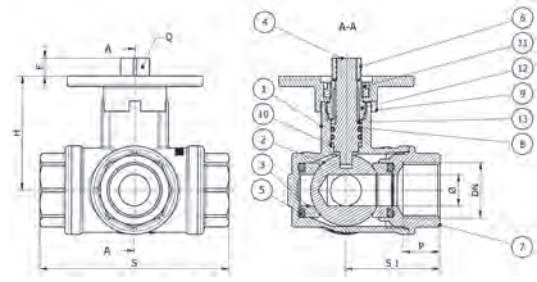
VS-3FR-T



ROTAZIONE 90 °C

DN	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"
S	76	76	88,5	105,5	118	137,5	161	189
S1	38	38	44,25	52,75	59	68,75	80,5	94,5
Ø	10	10	15	20	25	32	40	50
P	18	18	17	19	24	24	28,5	35
H	50,5	50,5	53,5	63	67	73	80	90,5
E	8	8	8	10	10	12	12	12
Q	7/9/11	7/9/11	7/9/11	11/14	11/14	14	14	14
ISO	F03-05	F03-05	F03-05	F05	F05	F05	F05	F05
* Nm	4	4	4	5	6	8	9	12
PN	40	40	40	40	40	40	40	40

*Nm: VALORI RISCONTRATI IN ASSENZA DI PRESSIONE

REF.	COMPONENTE	MATERIALE	QUANTITÀ
1	CORPO	EN12420-CW617N-NICHELATO	1
2	SFERA	EN12164-CW617N-CROMATA	1
3	SEDE	P.T.F.E. F391	4
4	PERNO	EN12165-CW614N	1
5	O-RING	NBR	4
6	AUMENTATORE QUADRO	EN12164-CW614N	1
7	MANICOTTO	EN12420-CW617N-NICHELATO	3
8	O-RING	NBR	2
9	PIASTRA MOTORE	EN12420-CW617N-NICHELATA	1
10	ANELLO ANTIGRIPPAGGIO	P.T.F.E. F391	1
11	DADO BLOCCA PIASTRA	EN12164-CW614N	1
12	GHIERA	EN12164-CW614N	1
13	BOCCOLA ANTIGRIPPAGGIO	P.T.F.E. F391	1

CARATTERISTICHE VALVOLA

PASSAGGIO TOTALE
Temperature di utilizzo: min. -10 °C max +100 °C
Pressione max di esercizio: 40 Bar
Estremità filettate: ISO 228/1
Piastra motore: ISO 5211

ESECUZIONI SPECIALI A RICHIESTA
O-ring: FP/EPDM/FKM/NBR

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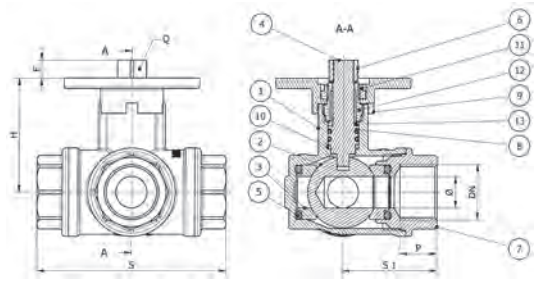
VS-3FR-T



DN	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"
S	76	76	88,5	105,5	118	137,5	161	189
S1	38	38	44,25	52,75	59	68,75	80,5	94,5
Ø	10	10	15	20	25	32	40	50
P	18	18	17	19	24	24	28,5	35
H	50,5	50,5	53,5	63	67	73	80	90,5
E	8	8	8	10	10	12	12	12
Q	7/9/11	7/9/11	7/9/11	11/14	11/14	14	14	14
ISO	F03-05	F03-05	F03-05	F05	F05	F05	F05	F05
* Nm	4	4	4	5	6	8	9	12
PN	40	40	40	40	40	40	40	40

*Nm: VALUES FOUND IN THE ABSENCE OF PRESSURE

REF.	COMPONENT	MATERIAL	QUANTITY
1	BODY	EN12420-CW617N-NICKEL PLATED	1
2	BALL	EN12164-CW617N-CHROME	1
3	SITE	P.T.F.E. F391	4
4	PIN	EN12165-CW614N	1
5	O-RINGS	NBR	4
6	FRAMEWORK INCREASE	EN12164-CW614N	1
7	SLEEVE	EN12420-CW617N-NICKEL PLATED	3
8	O-RINGS	NBR	2
9	ENGINE PLATE	EN12420-CW617N-NICKEL PLATED	1
10	ANTI-SEIZE RING	P.T.F.E. F391	1
11	PLATE LOCK NUT	EN12164-CW614N	1
12	RING	EN12164-CW614N	1
13	ANTI-SEIZE BUSHING	P.T.F.E. F391	1

VALVE FEATURES

TOTAL PASS
Temperatures of use: *min. -10°C max +100°C*
Max working pressure: *40 Bar*
Threaded ends: *ISO 228/1*
Motor plate: *ISO 5211*

SPECIAL EXECUTIONS ON REQUEST
O-rings: FP/EPDM/FKM/NBR

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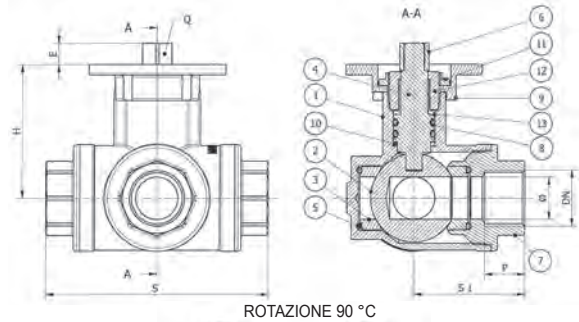
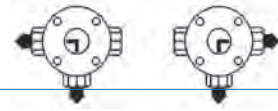
VS-3FT-L



ROTAZIONE 90 °C



DN	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"
S	76	76	88,5	105,5	118	137,5	161	189
S1	38	38	44,25	52,75	59	68,75	80,5	94,5
Ø	10	10	15	20	25	32	40	50
P	18	18	17	19	24	24	28,5	35
H	50,5	50,5	53,5	63	67	73	80	90,5
E	8	8	8	10	10	12	12	12
Q	7/9/11	7/9/11	7/9/11	11/14	11/14	14	14	14
ISO	F03-05	F03-05	F03-05	F05	F05	F05	F05	F05
* Nm	4	4	4	5	6	8	9	12
PN	40	40	40	40	40	40	40	40

*Nm: VALORI RISCONTRATI IN ASSENZA DI PRESSIONE - IN ACCORDO ALLA DIRETTIVA PED 2017/68/UE

REF.	COMPONENTE	MATERIALE	QUANTITÀ
1	CORPO	EN12420-CW617N-NICHELATO	1
2	SFERA	EN12165-CW617N-CROMATA	1
3	SEDE	P.T.F.E. F391	4
4	PERNO	EN12165-CW614N	1
5	O-RING	NBR	1
6	AUMENTATORE QUADRO	EN12164-CW614N	1
7	MANICOTTO	EN12420-CW617N-NICHELATO	3
8	O-RING	NBR	2
9	PIASTRA MOTORE	EN12420-CW617N-NICHELATA	1
10	ANELLO ANTIGRIPPAGGIO	P.T.F.E. F391	1
11	DADO BLOCCA PIASTRA	EN12164-CW614N	1
12	GHIERA	EN12164-CW614N	1
13	BOCCOLA ANTIGRIPPAGGIO	P.T.F.E. F391	1

CARATTERISTICHE VALVOLA

PASSAGGIO TOTALE
Temperature di utilizzo: min. -10 °C max +100 °C
Pressione max di esercizio: 40 Bar
Estremità filettate: ISO 228/1
Piastra motore: ISO 5211

ESECUZIONI SPECIALI A RICHIESTA
O-ring: FP/EPDM/FKM/NBR

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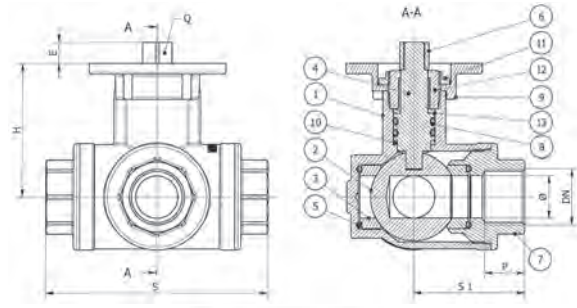
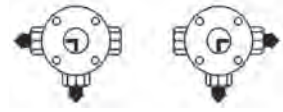
SAS si riserva, a termini di legge, la proprietà del presente disegno con divieto di riprodurlo o comunicarlo a terzi senza autorizzazione.

VS-3FT-L



ROTATION 90 °C



DN	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"
S	76	76	88,5	105,5	118	137,5	161	189
S1	38	38	44,25	52,75	59	68,75	80,5	94,5
Ø	10	10	15	20	25	32	40	50
P	18	18	17	19	24	24	28,5	35
H	50,5	50,5	53,5	63	67	73	80	90,5
E	8	8	8	10	10	12	12	12
Q	7/9/11	7/9/11	7/9/11	11/14	11/14	14	14	14
ISO	F03-05	F03-05	F03-05	F05	F05	F05	F05	F05
* Nm	4	4	4	5	6	8	9	12
PN	40	40	40	40	40	40	40	40

*Nm: VALUES FOUND IN THE ABSENCE OF PRESSURE - IN ACCORDANCE WITH THE PED DIRECTIVE 2017/68/EU

REF.	COMPONENT	MATERIAL	QUANTITY
1	BODY	EN12420-CW617N-NICKEL PLATED	1
2	BALL	EN12165-CW617N-CHROME	1
3	SITE	P.T.F.E. F391	4
4	PIN	EN12165-CW614N	1
5	O-RINGS	NBR	1
6	FRAMEWORK INCREASE	EN12164-CW614N	1
7	SLEEVE	EN12420-CW617N-NICKEL PLATED	3
8	O-RINGS	NBR	2
9	ENGINE PLATE	EN12420-CW617N-NICKEL PLATED	1
10	ANTI-SEIZE RING	P.T.F.E. F391	1
11	PLATE LOCK NUT	EN12164-CW614N	1
12	RING	EN12164-CW614N	1
13	ANTI-SEIZE BUSHING	P.T.F.E. F391	1

VALVE FEATURES

TOTAL PASS
Temperatures of use: *min. -10°C max +100°C*
Max working pressure: *40 Bar*
Threaded ends: *ISO 228/1*
Motor plate: *ISO 5211*

SPECIAL EXECUTIONS ON REQUEST
O-rings: FP/EPDM/FKM/NBR

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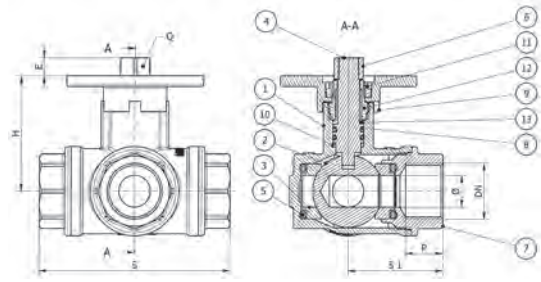
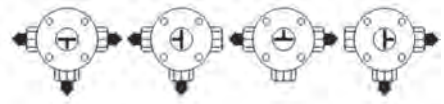
VS-3FT-T





ROTAZIONE 90 °C

DN	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	2" 1/2
S	76	76	82	90	106	120	142	165	194
S1	38	38	41	45	53	60	71	82,5	97
Ø	10	10	10	15	20	25	32	40	50
P	18	18	17	18,5	20	23,5	28,5	32	35
H	50,5	50,5	50,5	53,5	63	67	73	80	90,5
E	8	8	8	8	10	10	12	12	12
Q	7/9/11	7/9/11	7/9/11	7/9/11	11/14	11/14	11/14	11/14	14
ISO	F03-05	F03-05	F03-05	F03-05	F05	F05	F05	F05	F05
* Nm	4	4	4	4	5	6	8	9	12
PN	40	40	40	40	40	40	40	40	40

*Nm: VALORI RISCONTRATI IN ASSENZA DI PRESSIONE - IN ACCORDO ALLA DIRETTIVA PED 2017/68/UE

REF.	COMPONENTE	MATERIALE	QUANTITÀ
1	CORPO	EN12420-CW617N-NICHELATO	1
2	SFERA	EN12164-CW617N-CROMATA	1
3	SEDE	P.T.F.E. F391	4
4	PERNO	EN12164-CW614N	1
5	O-RING	NBR	4
6	AUMENTATORE QUADRO	EN12164-CW614N	1
7	MANICOTTO	EN12420-CW617N-NICHELATO	3
8	O-RING	NBR	2
9	PIASTRA MOTORE	EN12420-CW617N-NICHELATA	1
10	ANELLO ANTIGRIPPAGGIO	P.T.F.E. F391	1
11	DADO BLOCCA PIASTRA	EN12164-CW614N	1
12	GHIERA	EN12164-CW614N	1
13	BOCCOLA ANTIGRIPPAGGIO	P.T.F.E. F391	1

CARATTERISTICHE VALVOLA

Temperature di utilizzo: min. -10 °C max +100 °C
Pressione max di esercizio: 40 Bar
Estremità filettate: ISO 228/1
Piastra motore: ISO 5211

ESECUZIONI SPECIALI A RICHIESTA
O-ring: FP/EPDM/FKM/HNBR
Sedi: Caricato in carbografite/Caricato vetro

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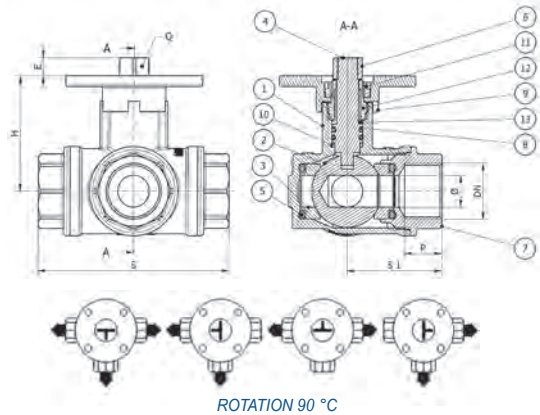
VS-3FT-T



ROTATION 90 °C

DN	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	2" 1/2
S	76	76	82	90	106	120	142	165	194
S1	38	38	41	45	53	60	71	82,5	97
Ø	10	10	10	15	20	25	32	40	50
P	18	18	17	18,5	20	23,5	28,5	32	35
H	50,5	50,5	50,5	53,5	63	67	73	80	90,5
E	8	8	8	8	10	10	12	12	12
Q	7/9/11	7/9/11	7/9/11	7/9/11	11/14	11/14	11/14	11/14	14
ISO	F03-05	F03-05	F03-05	F03-05	F05	F05	F05	F05	F05
* Nm	4	4	4	4	5	6	8	9	12
PN	40	40	40	40	40	40	40	40	40

*Nm: VALUES FOUND IN THE ABSENCE OF PRESSURE - IN ACCORDANCE WITH THE PED DIRECTIVE 2017/68/EU

REF.	COMPONENT	MATERIAL	QUANTITY
1	BODY	EN12420-CW617N-NICKEL PLATED	1
2	BALL	EN12164-CW617N-CHROME	1
3	SITE	P.T.F.E. F391	4
4	PIN	EN12164-CW614N	1
5	O-RINGS	NBR	4
6	FRAMEWORK INCREASE	EN12164-CW614N	1
7	SLEEVE	EN12420-CW617N-NICKEL PLATED	3
8	O-RINGS	NBR	2
9	ENGINE PLATE	EN12420-CW617N-NICKEL PLATED	1
10	ANTI-SEIZE RING	P.T.F.E. F391	1
11	PLATE LOCK NUT	EN12164-CW614N	1
12	RING	EN12164-CW614N	1
13	ANTI-SEIZE BUSHING	P.T.F.E. F391	1

VALVE FEATURES

Temperatures of use: min. -10°C max +100°C
Max working pressure: 40 Bar
Threaded ends: ISO 228/1
Motor plate: ISO 5211

SPECIAL EXECUTIONS ON REQUEST
O-rings: FP/EPDM/FKM/HNBR
Seats: Carbographite Loaded/Glass Loaded

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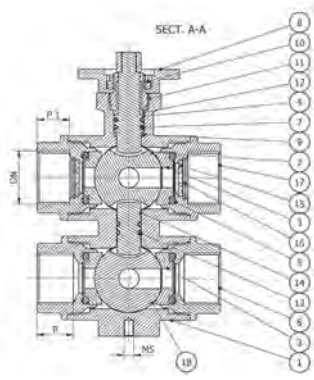
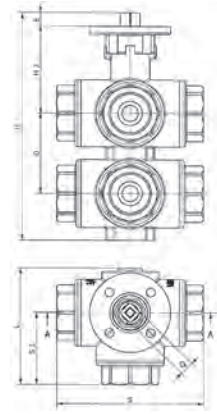
VS-6F-L





DN	1/2"	3/4"
S	88,5	90,5
S1	44,25	45,25
L	72	73
H	142	142
H2	54	54
D	50	50
E	8,5	8,5
P	17	18
P1	15	16
Q	7/9/11	7/9/11
ISO	F03-F05	F03-F05
*Nm	6	6

*Nm: VALORI RISCONTRATI IN ASSENZA DI PRESSIONE

REF.	COMPONENTE	MATERIALE	QUANTITÀ
1	CORPO	EN12420-CW617N-NICHELATO	1
2	SFERA CON DOPPIA FRESATURA	EN12165-CW617N-CROMATA	1
3	SEDE	P.T.F.E. F 391	8
4	PERNO	EN12164-CW614N	1
5	O-RING	NBR	8
6	MANICOTTO	EN12420-CW617N NICHELATO	4
7	O.RING	NBR	2
8	PIASTRA PORTA MOTORE	EN12420-CW617N NICHELATA	1
9	ANELLO ANTIGRIPPAGGIO	P.T.F.E. F 391	1
10	DADO	EN12164-CW614 N	1
11	GHIERA	EN12164-CW614 N	1
12	BOCCOLA ANTIGRIPPAGGIO	P.T.F.E. F 391	1
13	O-RING	NBR	2
14	PERNO DI GIUNZIONE	EN12164-CW614 N	1
15	RONDELLA REGOLAZIONE PORTATA	POM	14
16	ANELLO ELASTICO	ACCIAIO PER MOLLE	2
17	MANICOTTO CON GOLA	EN12420-CW617N-NICHELATO	2
18	SFERA CON FRESATURA SINGOLA	EN12165-CW617N-CROMATA	1

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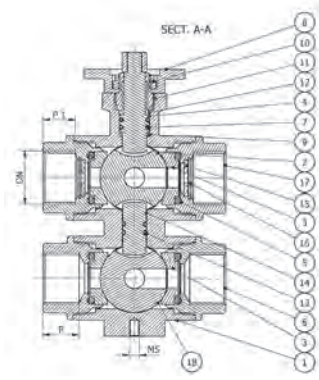
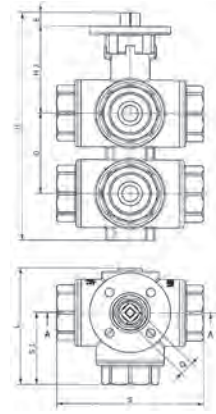
VS-6F-L





DN	1/2"	3/4"
S	88,5	90,5
S1	44,25	45,25
L	72	73
H	142	142
H2	54	54
D	50	50
E	8,5	8,5
P	17	18
P1	15	16
Q	7/9/11	7/9/11
ISO	F03-F05	F03-F05
*Nm	6	6

*Nm: VALUES FOUND IN THE ABSENCE OF PRESSURE

REF.	COMPONENT	MATERIAL	QUANTITY
1	BODY	EN12420-CW617N-NICKEL PLATED	1
2	BALL WITH DOUBLE MILLING	EN12165-CW617N-CHROME	1
3	SITE	P.T.F.E. F 391	8
4	PIN	EN12164-CW614N	1
5	O-RINGS	NBR	8
6	SLEEVE	EN12420-CW617N NICKEL PLATED	4
7	O.RING	NBR	2
8	ENGINE HOLDER PLATE	EN12420-CW617N NICKEL PLATED	1
9	ANTI-SEIZE RING	P.T.F.E. F 391	1
10	NUT	EN12164-CW614 No	1
11	RING	EN12164-CW614 No	1
12	ANTI-SEIZE BUSHING	P.T.F.E. F 391	1
13	O-RINGS	NBR	2
14	JOINT PIN	EN12164-CW614 No	1
15	FLOW ADJUSTMENT WASHER	PM	14
16	ELASTIC RING	SPRING STEEL	2
17	SLEEVE WITH GROOVE	EN12420-CW617N-NICKEL PLATED	2
18	SINGLE MILLING BALL	EN12165-CW617N-CHROME	1

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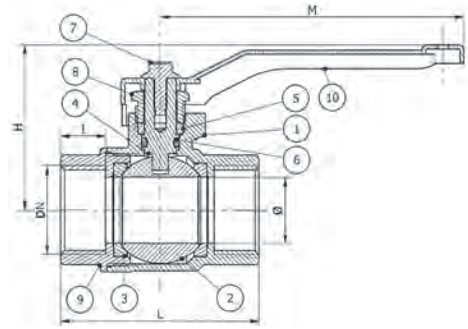
VS-FF-M

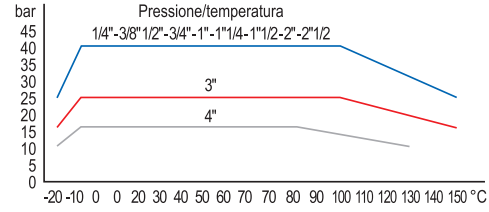


DN	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
L	45,5	45,5	55,5	66	75	85	97	109	140,5	158
Ø	10	10	15	20	25	32	39	48	64	78
I	11,5	11,5	14	16	17	18	19	21	25	25
H	50	50	53	56	62	81	86	92,5	124	135
M	92	92	92	92	115	150	150	150	240	240
PN	40	40	40	40	40	40	40	40	//	25

IN ACCORDO ALLA DIRETTIVA PED 2014/68/UE Misure 2" 1/2 - 3" disponibili a richiesta

REF.	COMPONENTE	MATERIALE	QUANTITÀ
1	CORPO	EN12165-CW617N-NICHELATO	1
2	SFERA	EN12165-CW617N-CROMATA	1
3	SEDE	P.T.F.E.	2
4	PERNO	EN12164-CW614N	1
*5	GUARNIZIONE	P.T.F.E.	1
**6	O-RING	FPM (VITON)	1
7	VITE	UNI 7356-CB4FF-GEOMET	1
8	PREMISTOPPA	EN12164-CW614N	1
9	MANICOTTO	EN12165-CW617N-NICHELATO	1
***10	LEVA	EN1011-DD13-VERNICE ROSSA	2

* NON PRESENTE NELLE MISURE DN 2" 1/2 3" (TENUTA CON DUE O-RING)
** NON PRESENTE NEL DN 4"
*** IN ALLUMINIO PER IL DN 4"



ESECUZIONI SPECIALI A RICHIESTA
O-ring: EPDM/FKM/NBR
Sedi: Caricato in carbografite/caricato vetro
Valvola: Materiale ADZ
Sfera: Acciaio inox AISI 316/ADZ
Leva: Personalizzata

CARATTERISTICHE VALVOLA
Temperature di utilizzo: min. -20°C max. + 150°C (vedi diagramma pressione/temperatura)
sotto 0°C solo in assenza di ghiaccio o con additivi antigelo max 50%, oltre 100°C solo in assenza di vapore
Pressione massima: da -10°C a +100 °C - 40 bar(*) dal DN 1/4" al DN 2"1/2 - 25 bar DN 3" - 16 bar DN 4" (temperatura max +80 °C)
(*): dal DN 1/4" al DN 3/4" sono ammissibili picchi occasionali fino a 50 bar
Estremità filettate: F/F ISO 228/1

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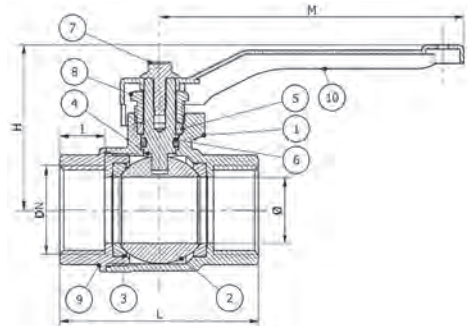
VS-FF-M

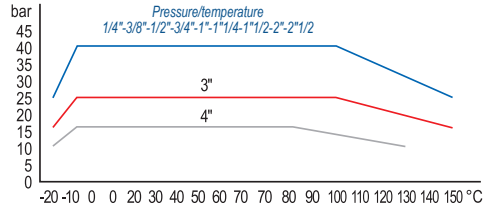


DN	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
L	45,5	45,5	55,5	66	75	85	97	109	140,5	158
Ø	10	10	15	20	25	32	39	48	64	78
I	11,5	11,5	14	16	17	18	19	21	25	25
H	50	50	53	56	62	81	86	92,5	124	135
M	92	92	92	92	115	150	150	150	240	240
PN	40	40	40	40	40	40	40	40	//	25

IN ACCORDANCE WITH THE PED DIRECTIVE 2014/68/EU

REF.	COMPONENT	MATERIAL	QUANTITY
1	BODY	EN12165-CW617N-NICKEL PLATED	1
2	BALL	EN12165-CW617N-CHROME	1
3	SITE	P.T.F.E.	2
4	PIN	EN12164-CW614N	1
*5	GASKET	P.T.F.E.	1
**6	O-RINGS	FPM (VITON)	1
7	LIVES	UNI 7356-CB4FF-GEOMET	1
8	GLAND	EN12164-CW614N	1
9	SLEEVE	EN12165-CW617N-NICKEL PLATED	1
***10	LEVER	EN1011-DD13-RED PAINT	2

* NOT PRESENT IN DN 2" 1/2 3" SIZES (SEAL WITH TWO O-RINGS)
** NOT PRESENT IN DN 4"
*** IN ALUMINUM FOR DN 4"



SPECIAL EXECUTIONS ON REQUEST
O-rings: EPDM/FKM/NBR
Seats: Carbographite filled/glass filled
Valve: ADZ material
Ball: AISI 316/ADZ stainless steel
Leverage: Custom

VALVE FEATURES
Temperatures of use: min. -20°C max. + 150°C (see pressure/temperature diagram)
below 0°C only in the absence of ice or with max 50% antifreeze additives, above 100°C only in the absence of steam
Maximum pressure: from -10°C to +100 °C - 40 bar(*) from DN 1/4" to DN 2"1/2 - 25 bar DN 3" - 16 bar DN 4" (max temperature +80 ° C)
(*): from DN 1/4" to DN 3/4" occasional peaks up to 50 bar are admissible
Threaded ends: F/F ISO 228/1

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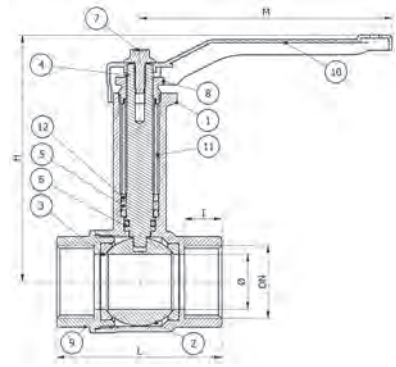
VS-FF-L-M



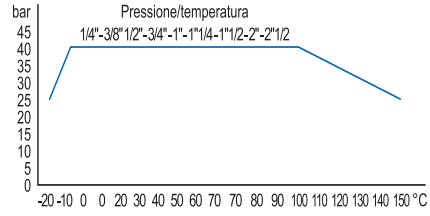
DN	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L	45,5	55,5	66	75	85	97	109
Ø	10	15	20	25	32	39	48
I	11,5	14	16	17	18	19	21
H	101	103	106	112	129	135	152
M	92	92	92	115	150	150	150
PN	40	40	40	40	40	40	40

IN ACCORDO ALLA DIRETTIVA PED 2014/68/UE

REF.	COMPONENTE	MATERIALE	QUANTITÀ
1	CORPO	EN12420-CW617N-NICHELATO	1
2	SFERA	EN12165-CW617N-CROMATA	1
3	SEDE	P.T.F.E.	2
4	PERNO	EN12164-CW614N	1
5	GUARNIZIONE	P.T.F.E.	1
6	O-RING	NBR	1
7	VITE	UNI 7356-CB4FF-GEOMET	1
8	PREMISTOPPA	EN12164-CW614N	1
9	MANICOTTO	EN12420-CW617N-NICHELATO	1
10	LEVA	EN1011-DD13-VERNICIATA ROSSA	1
11	TUBETTO	EN12164-CW614N	1
12	RONDELLA	EN12164-CW614N	2

CARATTERISTICHE VALVOLA
Temperature di utilizzo: min. -20 °C max +150 °C (vedi diagramma pressione/temperatura): sotto 0°C solo in assenza di ghiaccio o con additivi antigelo max 50%. Oltre i 100 °C solo in assenza di vapore
Pressione max di esercizio da -10°C a + 100°C: 40 Bar (*) dal DN 3/8" al DN 2"
(*) dal DN 3/8" al DN 3/4" sono ammissibili picchi occasionali fino a 50 bar
Estremità filettate: F/F ISO 228/1

ESECUZIONI SPECIALI A RICHIESTA
O-ring: EPDM/FKM/FPM
Valvola: Materiale ADZ
Sfera: Acciaio inox AISI 316/ADZ
Sedi: Caricato in carbografite, caricato vetro, leva personalizzata



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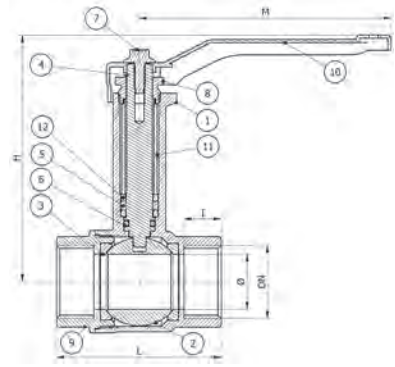
VS-FF-L-M



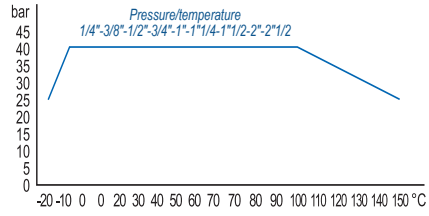
DN	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L	45,5	55,5	66	75	85	97	109
Ø	10	15	20	25	32	39	48
I	11,5	14	16	17	18	19	21
H	101	103	106	112	129	135	152
M	92	92	92	115	150	150	150
PN	40	40	40	40	40	40	40

IN ACCORDANCE WITH THE PED DIRECTIVE 2014/68/EU

REF.	COMPONENT	MATERIAL	QUANTITY
1	BODY	EN12420-CW617N-NICKEL PLATED	1
2	BALL	EN12165-CW617N-CHROME	1
3	SITE	P.T.F.E.	2
4	PIN	EN12164-CW614N	1
5	GASKET	P.T.F.E.	1
6	O-RINGS	NBR	1
7	LIVES	UNI 7356-CB4FF-GEOMET	1
8	GLAND	EN12164-CW614N	1
9	SLEEVE	EN12420-CW617N-NICKEL PLATED	1
10	LEVER	EN1011-DD13-RED PAINTED	1
11	TUBE	EN12164-CW614N	1
12	WASHER	EN12164-CW614N	2

VALVE FEATURES
Temperatures of use: min. -20 °C max +150 °C (see pressure/temperature diagram):
below 0°C only in the absence of ice or with antifreeze additives max 50%.
Above 100 °C only in the absence of steam
Max working pressure from -10°C to + 100°C: 40 Bar (*) from DN 3/8" to DN 2"
(*) from DN 3/8" to DN 3/4" occasional peaks up to 50 bar are admissible
Threaded ends: F/F ISO 228/1

SPECIAL EXECUTIONS ON REQUEST
O-rings: EPDM/FKM/FPM
Valve: ADZ material
Ball: AISI 316/ADZ stainless steel
Seats: Carbographite Loaded, Glass Loaded, Custom Lever



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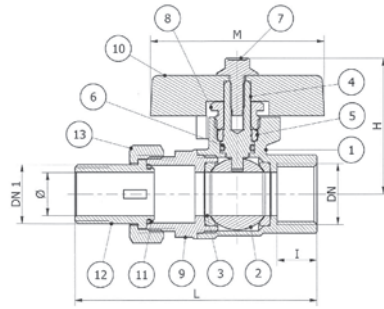
VS-MF-B-M



DN	1/2"	3/4"	1"	1" 1/4
DN 1	1/2"	3/4"	1"	1" 1/4
Ø	15	20	25	32
M	61	61	80	72
L	86	99	113	110
H	50	54	66	59
I	14	16	17	16
PN	32	32	32	25

IN ACCORDO ALLA DIRETTIVA PED 2014/68/UE

REF.	COMPONENTE	MATERIALE	QUANTITÀ
1	CORPO	EN12420-CW617N-NICHELATO	1
2	SFERA	EN12165-CW617N-CROMATA	1
3	SEDE	P.T.F.E.	2
4	PERNO	EN12164-CW614N	1
*5	GUARNIZIONE	P.T.F.E.	1
**6	O-RING	FPM (VITON)	1
7	VITE	UNI 7356-CB4FF-DACROMET	1
8	PREMISTOPPA	EN12164-CW614N	1
9	MANICOTTO	EN12420-CW617-NICHELATO	1
10	LEVA FARFALLA	ALLUMINIO UNI 7369-VERNICIATA ROSSA	1
11	O-RING	NBR	1
12	CODOLO	EN12420-CW617N-NICHELATO	1
13	DADO	EN12420-CW617N-NICHELATO	1

* NON PRESENTE NELLA MISURA 1" 1/4 ** N° 2 O-RING IN EP PER MISURA 1" 1/4

CARATTERISTICHE VALVOLA
Temperature di utilizzo: min. -10 °C max +100 °C
Pressione max di esercizio: 32 Bar (25 Bar per DN 1" 1/4)
Estremità filettate: ISO 228/1

ESECUZIONI SPECIALI A RICHIESTA
O-ring: EPDM/FKM/NBR
Sedi: Caricato in carbografite/caricato vetro
Valvola: Materiale ADZ
Sfera: Acciaio inox AISI 316/ADZ

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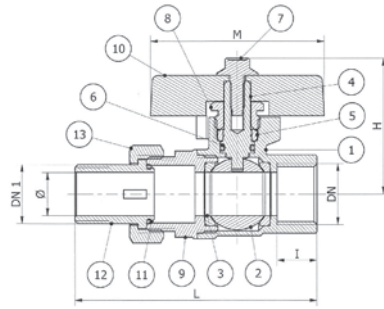
VS-MF-B-M



DN	1/2"	3/4"	1"	1" 1/4
DN 1	1/2"	3/4"	1"	1" 1/4
Ø	15	20	25	32
M	61	61	80	72
L	86	99	113	110
H	50	54	66	59
I	14	16	17	16
PN	32	32	32	25

IN ACCORDANCE WITH THE PED DIRECTIVE 2014/68/EU

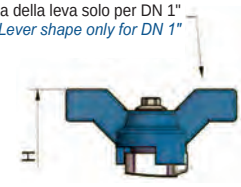
REF.	COMPONENT	MATERIAL	QUANTITY
1	BODY	EN12420-CW617N-NICKEL PLATED	1
2	BALL	EN12165-CW617N-CHROME	1
3	SITE	P.T.F.E.	2
4	PIN	EN12164-CW614N	1
*5	GASKET	P.T.F.E.	1
**6	O-RINGS	FPM (VITON)	1
7	LIVES	UNI 7356-CB4FF-DACROMET	1
8	GLAND	EN12164-CW614N	1
9	SLEEVE	EN12420-CW617-NICKEL PLATED	1
10	THROTTLE LEVER	UNI 7369 ALUMINUM - RED PAINTED	1
11	O-RINGS	NBR	1
12	TANG	EN12420-CW617N-NICKEL PLATED	1
13	NUT	EN12420-CW617N-NICKEL PLATED	1

** NOT PRESENT IN THE 1" 1/4 SIZE* *** N° 2 EP O-RINGS FOR THE 1" 1/4 SIZE*

VALVE FEATURES
Temperatures of use: *min. -10°C max +100°C*
Max working pressure: *32 Bar (25 Bar for DN 1" 1/4)*
Threaded ends: *ISO 228/1*

SPECIAL EXECUTIONS ON REQUEST
O-rings: *EPDM/FKM/NBR*
Seats: *Carbographite filled/glass filled*
Valve: *ADZ material*
Ball: *AISI 316/ADZ stainless steel*

Forma della leva solo per DN 1"
Lever shape only for DN 1"



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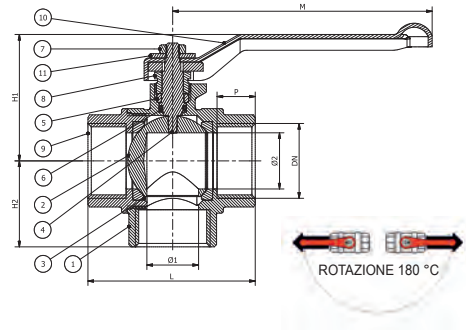
VSD-3FR-L-M



DN	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	3"
L	53	53	54,5	66,5	74,5	85	97	109	177
Ø 1	10	10	12	18	23	30	37	46	80
Ø 2	10	10	12	20	25	32	39	48	80
P	14	14	14	16	17	18	19	21	25
H1	48	48	48	50	55	68	73	79	129
H2	31	30,5	30,5	34,5	38	46	53	62,5	115
M	92	92	92	92	115	150	150	150	240
PN	25	25	25	25	25	25	25	25	25

IN ACCORDO ALLA DIRETTIVA PED 2014/68/UE

REF.	COMPONENTE	MATERIALE	QUANTITÀ
1	CORPO	EN12420-CW617N-NICHELATO	1
2	SFERA	EN12165-CW617N-CROMATA	1
3	SEDE	P.T.F.E.	2
4	PERNO	EN12164-CW614N	1
*5	GUARNIZIONE	P.T.F.E.	1
6	O-RING	FPM (VITON)	1
7	DADO	UNI 7356-CB4FF-ZINCATO	1
8	PREMISTOPPA	EN12164-CW614N	1
9	MANICOTTO	EN12420-CW617N-NICHELATO	1
10	LEVA	EN1011-DD13-VERNICIATA ROSSA	1
11	SEGNAFLUSSO	EN7639-SGALSI 1	1

* NON PRESENTE NELLA MISURA 3" (TENUTA CON DUE O-RING)

CARATTERISTICHE VALVOLA
Temperature di utilizzo: min. -10 °C max +100 °C
Pressione max di esercizio: 25 Bar
Estremità filettate: ISO 228/1

ESECUZIONI SPECIALI A RICHIESTA
O-ring: EPDM/FKM/NBR
Sedi: Caricato in carbografite/caricato vetro - Leva personalizzata
Valvola: ADZ

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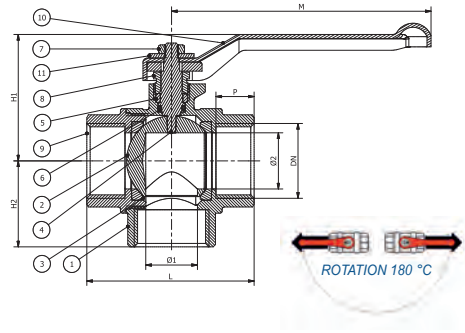
VSD-3FR-L-M



DN	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	3"
L	53	53	54,5	66,5	74,5	85	97	109	177
Ø 1	10	10	12	18	23	30	37	46	80
Ø 2	10	10	12	20	25	32	39	48	80
P	14	14	14	16	17	18	19	21	25
H1	48	48	48	50	55	68	73	79	129
H2	31	30,5	30,5	34,5	38	46	53	62,5	115
M	92	92	92	92	115	150	150	150	240
PN	25	25	25	25	25	25	25	25	25

IN ACCORDANCE WITH THE PED DIRECTIVE 2014/68/EU

REF.	COMPONENT	MATERIAL	QUANTITY
1	BODY	EN12420-CW617N-NICKEL PLATED	1
2	BALL	EN12165-CW617N-CHROME	1
3	SITE	P.T.F.E.	2
4	PIN	EN12164-CW614N	1
*5	GASKET	P.T.F.E.	1
6	O-RINGS	FPM (VITON)	1
7	NUT	UNI 7356-CB4FF-GALVANIZED	1
8	GLAND	EN12164-CW614N	1
9	SLEEVE	EN12420-CW617N-NICKEL PLATED	1
10	LEVER	EN1011-DD13-RED PAINTED	1
11	FLOW SIGNAL	EN7639-SGALSI 1	1

** NOT PRESENT IN SIZE 3" (SEAL WITH TWO O-RINGS)*

VALVE FEATURES
Temperatures of use: *min. -10°C max +100°C*
Max working pressure: *25 Bar*
Threaded ends: *ISO 228/1*

SPECIAL EXECUTIONS ON REQUEST
O-rings: *EPDM/FKM/NBR*
Seats: *Carbographite Loaded/Glass Loaded - Custom Lever*
Valve: *ADZ*

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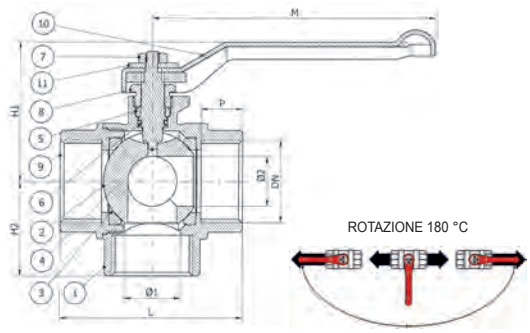
VSD-3FR-T-M



DN	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	3"
L	53	54,5	54,5	66,5	74,5	85	97	109	177
Ø 1	10	10	10	15	20	25	32	40	80
Ø 2	10	10	10	15	20	25	32	40	68
P	14	14	14	16	17	18	19	21	25
H1	50	50	50	50	55	68	73	79	129
H2	31	30,5	30,5	34,5	38	46	53	62,5	115
M	92	92	92	92	115	150	150	150	240
PN	25	25	25	25	25	25	25	25	25

IN ACCORDO ALLA DIRETTIVA PED 2014/68/UE

REF.	COMPONENTE	MATERIALE	QUANTITÀ
1	CORPO	EN12420-CW617N	1
2	SFERA	EN12165-CW617N	1
3	SEDE	P.T.F.E.	2
4	PERNO	EN12164-CW614N	1
5	GUARNIZIONE	P.T.F.E.	1
*6	O-RING	FPM (VITON)	1
7	DADO	UNI 7356-CB4FF	1
8	PREMISTOPPA	EN12164-CW614N	1
9	MANICOTTO	EN12420-CW617N	1
10	LEVA	EN1011-DD13	1
11	SEGNAFLUSSO	EN7639-SGALSI 1	1

* N° 2 O-RING PRESENTI NELLA MISURA DN 3"

CARATTERISTICHE VALVOLA
Temperature di utilizzo: min. -10 °C max +100 °C
Pressione max di esercizio: 25 Bar
Estremità filettate: ISO 228/1

ESECUZIONI SPECIALI A RICHIESTA
O-ring: EPDM/FKM/NBR
Sedi: Caricato in carbografite/caricato vetro - Leva personalizzata
Valvola: ADZ

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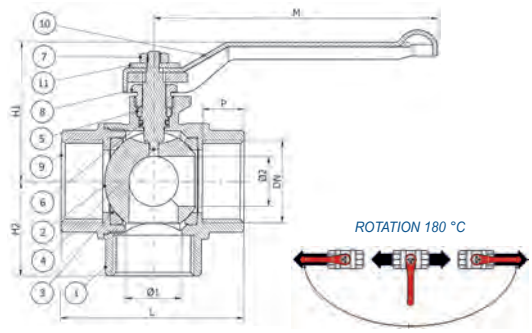
VSD-3FR-T-M



DN	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	3"
L	53	54,5	54,5	66,5	74,5	85	97	109	177
Ø 1	10	10	10	15	20	25	32	40	80
Ø 2	10	10	10	15	20	25	32	40	68
P	14	14	14	16	17	18	19	21	25
H1	50	50	50	50	55	68	73	79	129
H2	31	30,5	30,5	34,5	38	46	53	62,5	115
M	92	92	92	92	115	150	150	150	240
PN	25	25	25	25	25	25	25	25	25

IN ACCORDANCE WITH THE PED DIRECTIVE 2014/68/EU

REF.	COMPONENT	MATERIAL	QUANTITY
1	BODY	EN12420-CW617N	1
2	BALL	EN12165-CW617N	1
3	SITE	P.T.F.E.	2
4	PIN	EN12164-CW614N	1
5	GASKET	P.T.F.E.	1
*6	O-RINGS	FPM (VITON)	1
7	NUT	UNI 7356-CB4FF	1
8	GLAND	EN12164-CW614N	1
9	SLEEVE	EN12420-CW617N	1
10	LEVER	EN1011-DD13	1
11	FLOW SIGNAL	EN7639-SGALSI 1	1

* N° 2 O-RINGS PRESENT IN THE DN 3" SIZE

VALVE FEATURES
Temperatures of use: min. -10°C max +100°C
Max working pressure: 25 Bar
Threaded ends: ISO 228/1

SPECIAL EXECUTIONS ON REQUEST
O-rings: EPDM/FKM/NBR
Seats: Carbographite Loaded/Glass Loaded - Custom Lever
Valve: ADZ

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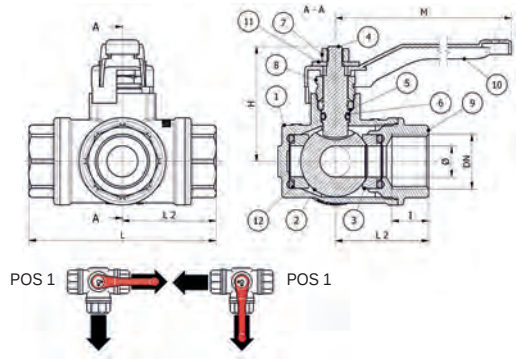
VS-3FR-L-M



DN	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	2" 1/2
L	76	76	82	90	106	120	142	165	194
L2	38	38	41	45	53	60	71	82,5	97
Ø	10	10	10	15	20	25	32	40	50
I	18	18	17	18,5	20	23,5	28,5	32	35
H	52	52	52	55,5	64	76,5	93,5	103,5	124
M	115	115	115	115	150	150	240	240	240
PN	40	40	40	40	40	40	40	40	40

REF.	COMPONENTE	MATERIALE	QUANTITÀ
1	CORPO	EN12420-CW617N-NICHELATO	1
2	SFERA	EN12165-CW617N-CROMATA	1
3	SEDE	P.T.F.E.	4
4	PERNO	EN12164-CW614N	1
*5	GUARNIZIONE	P.T.F.E.	1
6	O-RING	FPM (VITON)	1
7	DADO	UNI 7356-CB4FF	1
8	PREMISTOPPA	EN12164-CW614N	1
9	MANICOTTO	EN12420-CW617N-NICHELATO	3
10	LEVA	EN1011-DD13-VERNICIATA ROSSA	1
11	SEGNAFLUSSO	EN7639 SGALSI 1	1
12	O-RING	FPM (VITON)	4

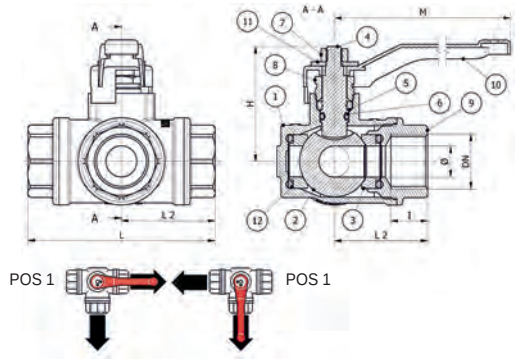
*NON PRESENTE NELLE MISURE 1"1/2 - 2" - 2"1/2 (TENUTA CON DOPPIO O-RING)

CARATTERISTICHE VALVOLA
Temperature di utilizzo: min. -10 °C max +100 °C
Pressione max di esercizio: 40 Bar
Estremità filettate: ISO 228/1

ESECUZIONI SPECIALI A RICHIESTA
O-ring: EPDM/FKM/HNBR
Valvola: in materiale ADZ
Sedi: Caricato in carbografite
Leva personalizzata

SAS declina ogni responsabilità qualora vengano individuati prodotti non compatibili con materiali utilizzati per la costruzione delle proprie valvole.
I dati riportati sono a titolo indicativo. SAS si riserva il diritto di modificarli senza alcun preavviso.
SAS si riserva, a termini di legge, la proprietà del presente disegno con divieto di riprodurlo o comunicarlo a terzi senza autorizzazzione.

VS-3FR-L-M



DN	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	2" 1/2
L	76	76	82	90	106	120	142	165	194
L2	38	38	41	45	53	60	71	82,5	97
Ø	10	10	10	15	20	25	32	40	50
I	18	18	17	18,5	20	23,5	28,5	32	35
H	52	52	52	55,5	64	76,5	93,5	103,5	124
M	115	115	115	115	150	150	240	240	240
PN	40	40	40	40	40	40	40	40	40

REF.	COMPONENT	MATERIAL	QUANTITY
1	BODY	EN12420-CW617N-NICKEL PLATED	1
2	BALL	EN12165-CW617N-CHROME	1
3	SITE	P.T.F.E.	4
4	PIN	EN12164-CW614N	1
*5	GASKET	P.T.F.E.	1
6	O-RINGS	FPM (VITON)	1
7	NUT	UNI 7356-CB4FF	1
8	GLAND	EN12164-CW614N	1
9	SLEEVE	EN12420-CW617N-NICKEL PLATED	3
10	LEVER	EN1011-DD13-RED PAINTED	1
11	FLOW SIGNAL	EN7639 SGALSI 1	1
12	O-RINGS	FPM (VITON)	4

*NOT PRESENT IN THE SIZES 1"1/2 - 2" - 2"1/2 (SEAL WITH DOUBLE O-RING)

VALVE FEATURES
Temperatures of use: min. -10°C max +100°C
Max working pressure: 40 Bar
Threaded ends: ISO 228/1

SPECIAL EXECUTIONS ON REQUEST
O-rings: EPDM/FKM/HNBR
Valve: in ADZ material
Locations: Loaded in carbographite
Custom leverage

SAS declines all responsibility if products that are not compatible with the materials used for the construction of its valves are identified.
The data shown are indicative only. SAS reserves the right to modify them without notice.
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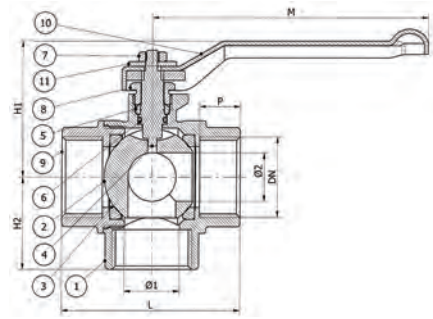
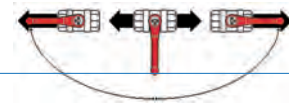
VS-3FR-T-M



ROTAZIONE 180 °C



DN	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"
L	76	76	88,5	105,5	118	137,5	161	189
L2	38	38	44,25	52,75	59	68,75	80,5	94,5
Ø	10	10	15	20	25	32	40	50
I	18	18	17	19	24	24	28,5	35
H	52	52	55,5	64	76,5	93,5	103,5	124
M	115	115	115	150	150	240	240	240
PN	40	40	40	40	40	40	40	40

REF.	COMPONENTE	MATERIALE	QUANTITÀ
1	CORPO	EN12420-CW617N-NICHELATO	1
2	SFERA	EN12164-CW617N-CROMATA	1
3	SEDE	P.T.F.E.	2
4	PERNO	EN12164-CW614N	1
*5	GUARNIZIONE	P.T.F.E.	1
6	O-RING	FPM (VITON)	1
7	DADO	UNI 7436-CB4FF-ZINCATO	1
8	PREMISTOPPA	EN12164-CW614N	1
9	MANICOTTO	EN12420-CW617N-NICHELATO	1
10	LEVA	EN1011-DD13-VERNICIATA ROSSA	1
11	SEGNAFLUSSO	EN7639 SGALSI 1	1
12	O-RING	FPM (VITON)	4

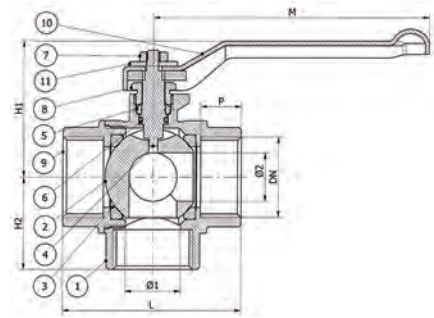
* NON PRESENTE NELLE MISURE 1"1/4 - 1"1/4 - 2" (TENUTA CON DOPPIO O-RING)

CARATTERISTICHE VALVOLA
Temperature di utilizzo: min. -10 °C max +100 °C
Pressione max di esercizio: 40 Bar
Estremità filettate: ISO 228/1

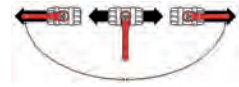
ESECUZIONI SPECIALI A RICHIESTA
O-ring: EPDM/FKM/NBR
Valvola: in materiale ADZ
Sedi: Caricato in carbografite
Leva personalizzata

SAS declina ogni responsabilità qualora vengano individuati prodotti non compatibili con materiali utilizzati per la costruzione delle proprie valvole.
I dati riportati sono a titolo indicativo. SAS si riserva il diritto di modificarli senza alcun preavviso.
SAS si riserva, a termini di legge, la proprietà del presente disegno con divieto di riprodurlo o comunicarlo a terzi senza autorizzazzione.

VS-3FR-T-M



ROTATION 180 °C



DN	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"
L	76	76	88,5	105,5	118	137,5	161	189
L2	38	38	44,25	52,75	59	68,75	80,5	94,5
Ø	10	10	15	20	25	32	40	50
I	18	18	17	19	24	24	28,5	35
H	52	52	55,5	64	76,5	93,5	103,5	124
M	115	115	115	150	150	240	240	240
PN	40	40	40	40	40	40	40	40

REF.	COMPONENT	MATERIAL	QUANTITY
1	BODY	EN12420-CW617N-NICKEL PLATED	1
2	BALL	EN12164-CW617N-CHROME	1
3	SITE	P.T.F.E.	2
4	PIN	EN12164-CW614N	1
*5	GASKET	P.T.F.E.	1
6	O-RINGS	FPM (VITON)	1
7	NUT	UNI 7436-CB4FF-GALVANIZED	1
8	GLAND	EN12164-CW614N	1
9	SLEEVE	EN12420-CW617N-NICKEL PLATED	1
10	LEVER	EN1011-DD13-RED PAINTED	1
11	FLOW SIGNAL	EN7639 SGALSI 1	1
12	O-RINGS	FPM (VITON)	4

** NOT PRESENT IN THE SIZES 1"1/4 - 1"1/4 - 2" (SEAL WITH DOUBLE O-RING)*

VALVE FEATURES

Temperatures of use:	min. -10°C max +100°C
Max working pressure:	40 Bar
Threaded ends:	ISO 228/1

SPECIAL EXECUTIONS ON REQUEST

O-rings:	EPDM/FKM/NBR
Valve:	in ADZ material
Locations:	Loaded in carbographite
	Custom leverage

SAS declines all responsibility if products that are not compatible with the materials used for the construction of its valves are identified.
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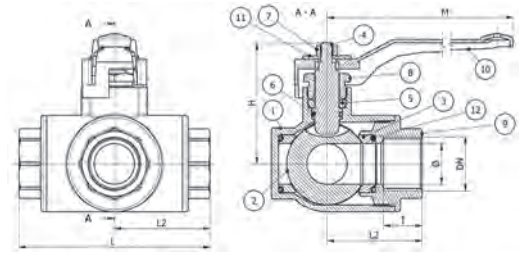
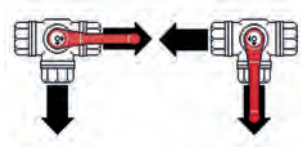
VS-3FT-L-M



POS 1



POS 1

DN	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"
L	76	76	88,5	105,5	118	137,5	161	189
L2	38	38	44,25	52,75	59	68,75	80,5	94,5
Ø	10	10	15	20	25	32	40	50
I	18	18	17	19	24	24	28,5	35
H	52	52	55,5	64	76,5	93,5	103,5	124
M	115	115	115	150	150	240	240	240
PN	40	40	40	40	40	40	40	40

IN ACCORDO ALLA DIRETTIVA PED 214/68/UE

REF.	COMPONENTE	MATERIALE	QUANTITÀ
1	CORPO	EN12420-CW617N-NICHELATO	1
2	SFERA	EN12165-CW617N-CROMATA	1
3	SEDE	P.T.F.E.	2
4	PERNO	EN12164-CW614N	1
*5	GUARNIZIONE	P.T.F.E.	1
6	O-RING	FPM (VITON)	1
7	DADO	UNI 7356-CB4FF-ZINCATO	1
8	PREMISTOPPA	EN12164-CW614N	1
9	MANICOTTO	EN12420-CW617N-NICHELATO	1
10	LEVA	EN1011-DD13-VERNICIATA ROSSA	1
11	SEGNAFLUSSO	EN7639 SGALSI 1	1
12	O-RING	FPM (VITON)	4

* NON PRESENTE NELLE MISURE 1"1/4 - 1"1/2 - 2" (TENUTA CON DOPPIO O-RING)

CARATTERISTICHE VALVOLA
Temperature di utilizzo: min. -10 °C max +100 °C
Pressione max di esercizio: 40 Bar
Estremità filettate: ISO 228/1

ESECUZIONI SPECIALI A RICHIESTA
O-ring: EPDM/FKM/NBR
Valvola: in materiale ADZ
Sedi: Caricato in carbografite
Leva personalizzata

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I dati riportati sono a titolo indicativo. SAS si riserva il diritto di modificarli senza alcun preavviso.
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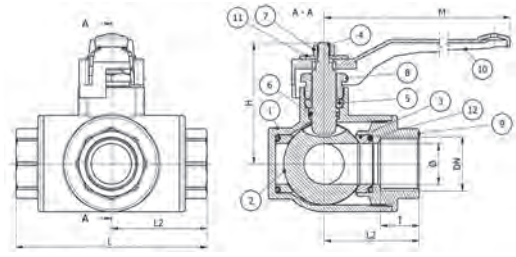
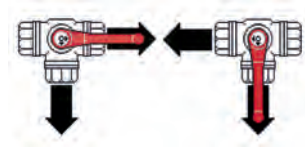
VS-3FT-L-M



POS 1  POS 1

DN	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"
L	76	76	88,5	105,5	118	137,5	161	189
L2	38	38	44,25	52,75	59	68,75	80,5	94,5
Ø	10	10	15	20	25	32	40	50
I	18	18	17	19	24	24	28,5	35
H	52	52	55,5	64	76,5	93,5	103,5	124
M	115	115	115	150	150	240	240	240
PN	40	40	40	40	40	40	40	40

IN ACCORDANCE WITH THE PED DIRECTIVE 214/68/EU

REF.	COMPONENT	MATERIAL	QUANTITY
1	BODY	EN12420-CW617N-NICKEL PLATED	1
2	BALL	EN12165-CW617N-CHROME	1
3	SITE	P.T.F.E.	2
4	PIN	EN12164-CW614N	1
*5	GASKET	P.T.F.E.	1
6	O-RINGS	FPM (VITON)	1
7	NUT	UNI 7356-CB4FF-GALVANIZED	1
8	GLAND	EN12164-CW614N	1
9	SLEEVE	EN12420-CW617N-NICKEL PLATED	1
10	LEVER	EN1011-DD13-RED PAINTED	1
11	FLOW SIGNAL	EN7639 SGALSI 1	1
12	O-RINGS	FPM (VITON)	4

* NOT PRESENT IN THE SIZES 1"1/4 - 1"1/2 - 2" (SEAL WITH DOUBLE O-RING)

VALVE FEATURES
Temperatures of use: min. -10°C max +100°C
Max working pressure: 40 Bar
Threaded ends: ISO 228/1

SPECIAL EXECUTIONS ON REQUEST
O-rings: EPDM/FKM/NBR
Valve: in ADZ material
Locations: Loaded in carbographite
Custom leverage

SAS declines all responsibility if products that are not compatible with the materials used for the construction of its valves are identified.
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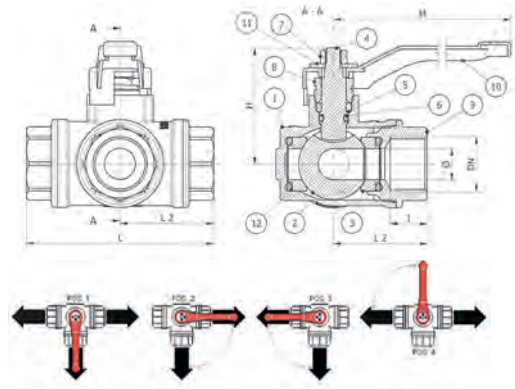
VS-3FT-T-M



PER OTTENERE LA POSIZIONE 3 E 4 SFILARE LA LEVA
DAL PERNO E POSIZIONARLA A 90 °C VERSO SINISTRA

DN	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	2" 1/2
L	76	76	82	90	106	120	142	165	194
L2	38	38	41	45	53	60	71	82,5	97
Ø	10	10	10	15	20	25	32	40	50
I	18	18	17	18,5	20	23,5	28,5	32	35
H	52	52	52	55,5	64	76,5	93,5	103,5	124
M	115	115	115	115	150	150	240	240	240
PN	40	40	40	40	40	40	40	40	

REF.	COMPONENTE	MATERIALE	QUANTITÀ
1	CORPO	EN12420-CW617N-NICHELATO	1
2	SFERA	EN12165-CW617N-CROMATA	1
3	SEDE	P.T.F.E.	4
4	PERNO	EN12164-CW614N	1
*5	GUARNIZIONE	P.T.F.E.	1
6	O-RING	FPM (VITON)	1
7	DADO	UNI 7356-CB4FF	1
8	PREMISTOPPA	EN12164-CW614N	1
9	MANICOTTO	EN12420-CW617N-NICHELATO	3
10	LEVA	EN1011-DD13-VERNICIATA ROSSA	1
11	SEGNAFLUSSO	EN7639 SGALSI 1	1
12	O-RING	FPM (VITON)	4

* NON PRESENTE NELLE MISURE 1"1/2 -2" - 2" 1/2 (TENUTA CON DOPPIO O-RING)

CARATTERISTICHE VALVOLA
Temperature di utilizzo: min. -10 °C max +100 °C
Pressione max di esercizio: 40 Bar
Estremità filettate: ISO 228/1

ESECUZIONI SPECIALI A RICHIESTA
O-ring: EPDM/FKM/NBR
Valvola: in materiale ADZ
Sedi: Caricato in carbografite
Leva personalizzata

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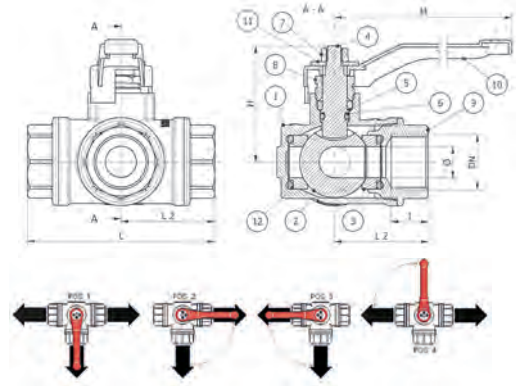
VS-3FT-T-M



TO OBTAIN POSITION 3 AND 4, REMOVE THE LEVER
FROM THE PIN AND POSITION IT AT 90 °C TOWARDS THE LEFT

DN	1/4"	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2	2"	2" 1/2
L	76	76	82	90	106	120	142	165	194
L2	38	38	41	45	53	60	71	82,5	97
Ø	10	10	10	15	20	25	32	40	50
I	18	18	17	18,5	20	23,5	28,5	32	35
H	52	52	52	55,5	64	76,5	93,5	103,5	124
M	115	115	115	115	150	150	240	240	240
PN	40	40	40	40	40	40	40	40	

REF.	COMPONENT	MATERIAL	QUANTITY
1	BODY	EN12420-CW617N-NICKEL PLATED	1
2	BALL	EN12165-CW617N-CHROME	1
3	SITE	P.T.F.E.	4
4	PIN	EN12164-CW614N	1
*5	GASKET	P.T.F.E.	1
6	O-RINGS	FPM (VITON)	1
7	NUT	UNI 7356-CB4FF	1
8	GLAND	EN12164-CW614N	1
9	SLEEVE	EN12420-CW617N-NICKEL PLATED	3
10	LEVER	EN1011-DD13-RED PAINTED	1
11	FLOW SIGNAL	EN7639 SGALSI 1	1
12	O-RINGS	FPM (VITON)	4

* NOT PRESENT IN THE SIZES 1"1/2 -2" - 2" 1/2 (SEAL WITH DOUBLE O-RING)

VALVE FEATURES
Temperatures of use: min. -10°C max +100°C
Max working pressure: 40 Bar
Threaded ends: ISO 228/1

SPECIAL EXECUTIONS ON REQUEST
O-rings: EPDM/FKM/NBR
Valve: in ADZ material
Locations: Loaded in carbographite
Custom leverage

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ISTRUZIONI DI IMPIEGO, MONTAGGIO E MANUTENZIONE IN ACCORDO ALLA DIRETTIVA PED 2014/68/UE

Valvole a sfera a due e tre vie con corpo in ottone e sfera flottante

da DN 1/4" a DN 2 1/2" Fluidi pericolosi, Gruppo 1 teb. 6
DN 3" e 4" Fluidi non pericolosi, Gruppo 2 teb. 9

IMPIEGO
Per le valvole da DN 1/4" a DN 2 1/2" i fludi intercettati possono essere fluidi pericolosi del gruppo 1 (che comprendono sostanze e miscele definite all'art. 2 Punti 7 e 8 del Regolamento CE N. 1272/2008, classificate come pericolose a norma delle classi di pericolo fisico o per la salute di cui all'allegato I, parti 2 e 3 di tale Regolamento).
Inoltre, i fluidi intercettati devono essere compatibili con i materiali utilizzati per la costruzione delle valvole:
ottone, PTFE, PTFE rinforzato carbografite, FPM, EPDM, NBR, FKM.
In particolare possono essere utlizzati gas comburenti, gas sotto pressione (che comprendono i gas compressi, i fgas liquefatti, i gas disciolti e i gas liquefatti refrigerati) e i liquidi infiammabili.
Non utlizzare sostanze o miscele in stabili-autoreattive (come definite nel Regolamento CE n. 1272/2008 § 2.8).
Per le valvole DN 3" e 4" i fluidi intercettati sono fluidi non pericolosi (gruppo 2) e devono essere compatibili con i materiali utilizzati: ottone, PTFE, PTFE rinforzato carbografite, FPM, EPDM, NBR, FKM.

LE PRESSIONI MASSIME AMMISSIBILI, IN FUNZIONE DELLE TEMPERATURE DI UTILIZZO, SONO LE SEGUENTI:

TEMPERATURA (°C)	PN 16	PN 25	PN 32	PN 40	GUARNIZIONI SFERA
* - 10 °C÷100 °C	16 BAR	25 BAR	32 BAR	40 BAR	PTFE

* La temperatura -10 °C si riferisce alla resistenza dei materiali con cui è costruita la valvola.

ATTENZIONE
QUANDO IL FLUIDO INTERCETTATO SOLIDIFICA, PROVOCANDO UN AUMENTO DEL SUO VOLUME (ES. ACQUA A TEMPERATURA INFERIORE A 0 °C), OCCORRE SVUOTARE COMPLETAMENTE LA VALVOLA PER EVITARNE LA ROTTURA.

Per installare la valvola sull'impianto utilizzare un sigillante per la tenuta sui filetti compatibile con il fluido intercettato. Assicurarsi, dopo l'installazione, che la valvola non subisca sollecitazioni dovute alle tubazioni: sostenere quindi la tubazione con adeguati morsetti.
Le valvole devono essere manovrate esclusivamente con la leva fornita, senza ausilio di leve supplementari.
Per la chiusura della valvola ruotare la leva di 90° in senso orario fino al raggiungimento della battuta meccanica.
Per l'apertura della valvola la leva di 90° in senso anti orario fino al raggiungimento della battuta meccanica.
La valvola a sfera deve sempre essere in posizione:
- completamente aperta
- completamente chiusa

Posizioni intermedie della sfera provocano deformazioni permanenti delle sedi di tenuta che causano la perdita del fluido intercettato.
Per evitare colpi d'ariete sulle tubazioni manovrare la valvola con una rotazione graduale.
Durante i test di impianti non utilizzare mai pressioni superiori alla pressione nominale indicate sulle valvole; potrebbero danneggiarsi irreparabilmente le sedi sfera e le guarnizioni compromettendo la loro tenuta.

MANUTENZIONE
Ogni 6 mesi effettuare un controllo visivo sulla valvola, per verificare l'assenza di difetti che ne pregiudicano l'uso, ed eventualmente sostituirla. Prima di effettuare interventi sulla valvola assicurarsi che la tubazione non sia in pressione. Non ci riteniamo responsabili in caso di manomissione delle nostre valvole senza nostra autorizzazione; in questo caso la garanzia decade.

SMALTIMENTO DEL PRODOTTO
In occasione della sostituzione della valvola questa dovrà essere smaltita conformemente alle disposizioni legislative del Paese di destinazione relativamente allo smaltimento dei rifiuti. Il rifiuto (valvola dismessa) può anche essere identificato come materiale riciclabile.

USE, ASSEMBLY AND MAINTENANCE INSTRUCTIONS IN ACCORDANCE WITH PED 2014/68/EU DIRECTIVE

Two and three-way ball valves with brass body and floating ball

from DN 1/4" to DN 2 1/2" *Dangerous fluids, Group 1 teb. 6*
DN 3" and 4" *Non-hazardous fluids, Group 2 teb. 9*

USE
For valves from DN 1/4" to DN 2 1/2" the intercepted fluids can be dangerous fluids of group 1 (which include substances and mixtures defined in art. 2 Points 7 and 8 of EC Regulation No. 1272/2008 , classified as dangerous according to the classes of physical or health danger referred to in Annex I, parts 2 and 3 of this Regulation).
Furthermore, the intercepted fluids must be compatible with the materials used for the construction of the valves: brass, PTFE, carbographite reinforced PTFE, FPM, EPDM, NBR, FKM.
In particular, oxidizing gases, gases under pressure (which include compressed gases, liquefied gases, dissolved gases and refrigerated liquefied gases) and flammable liquids can be used.
Do not use stable self-reactive substances or mixtures (as defined in EC Regulation No. 1272/2008 § 2.8).
For DN 3" and 4" valves, the intercepted fluids are non-dangerous fluids (group 2) and must be compatible with the materials used: brass, PTFE, carbographite reinforced PTFE, FPM, EPDM, NBR, FKM.

THE MAXIMUM ALLOWABLE PRESSURES, DEPENDING ON THE TEMPERATURES OF USE, ARE AS FOLLOWS:

TEMPERATURE (°C)	PN 16	PN 25	PN 32	PN 40	BALL SEALS
* - 10 °C÷100 °C	16 BAR	25 BAR	32 BAR	40 BAR	PTFE

** The temperature -10 °C refers to the resistance of the materials with which the valve is built.*

ATTENTION
WHEN THE INTERCEPTED FLUID SOLIDIFIES, CAUSING AN INCREASE IN ITS VOLUME (EG. WATER AT A TEMPERATURE BELOW 0 °C), THE VALVE MUST BE COMPLETELY EMPTYED TO PREVENT BREAKAGE.

To install the valve on the system, use a sealant on the threads compatible with the intercepted fluid. After installation, make sure that the valve is not subjected to stress due to the pipes: therefore support the pipe with suitable clamps.
The valves must be operated exclusively with the lever supplied, without the aid of additional levers.
To close the valve, turn the lever 90° clockwise until reaching the mechanical stop. To open the valve, turn the lever 90° anti-clockwise until reaching the mechanical stop.
The ball valve must always be in position:
- fully open
- completely closed
Intermediate positions of the ball cause permanent deformations of the sealing seats which cause the loss of the intercepted fluid.
To avoid water hammer on the pipes, operate the valve with a gradual rotation.
When testing systems, never use pressures higher than the nominal pressure indicated on the valves; the ball seats and gaskets could be irreparably damaged, compromising their seal.

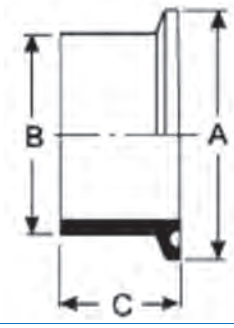
MAINTENANCE
Every 6 months, carry out a visual check on the valve, to verify the absence of defects which could compromise its use, and replace it if necessary. Before working on the valve, make sure that the pipeline is not under pressure. We are not responsible in case of tampering with our valves without our authorization; in this case the guarantee is void.

DISPOSAL OF THE PRODUCT
When replacing the valve, it must be disposed of in compliance with the legislative provisions of the country of destination regarding waste disposal. The waste (disused valve) can also be identified as recyclable material.

ELENCO SOSTANZE INCOMPATIBILI	
Fluoro	Con tutte le altre sostanze chimiche
Fosforo (bianco)	Con aria, ossigeno, alcali, agenti riducenti
Idrocarburi in generale	Con fluoro, cloro, acido formico, acido cromico, perossido di sodio
Idropgeno solfato	Con vapori di acido nitrico e gas ossidanti
Iodio	Con acetilene e ammoniaca
Ipocloriti	Con acidi, carbone attivo
Liquidi infiammabili	Con nitra di ammonio, acido cromico, perossido di idrogeno, acido nitrico, perossido di sodio e alogeni
Mercurio	Con acetilene, acido fulminico, idrogeno
Metalli alcalini (es. calcio, potassio, sodio)	Con acqua, anidride carbonica, tetracloruro di carbonio e altri idrocarburi clorurati
Nitrato di ammonio	Con acidi, polveri metalliche, liquidi infiammabili, clorati, nitrati, zolfo e sostanze organiche finemente polverizzate o composti infiammabili
Nitriti e nitrati	Con acidi
Nitroparaffina	Con basi inorganiche, ammine
Ossido di calcio	Con acqua
Ossigeno	Con oli, grassi, idrogeno, liquidi, solidi e gas infiammabili
Pentossido di fosforo	Con acqua
Perclorato di potassio	Con acido solforico e altri acidi
Permanganato di potassio	Con glicerolo, glicole etilenico, benzaldeide e acido solforico
Perossido di idrogeno	Con cromo, rame, ferro, la maggior parte degli altri metalli e i loro sali, liquidi infiammabili e altri prodotti combustibili, anilina e nitrometano
Perossido di sodio	Con qualsiasi sostanza ossidabile come il metanolo, acido acetico glaciale, anidride acetica, benzaldeide, disolfuro di carbonio, glicerolo, acetato di etile e furfurale
Potassio	Con tetracloruro di carbonio, diossido di carbonio, acqua, cloroformio, diclorometano
Rame	Con acetilene, azide e perossido di idrogeno
Sodio	Con tetracloruro di carbonio, diossido di carbonio, acqua, cloroformio, diclorometano
Sodio azide	Con piombo, rame e altri metalli. Questo composto è comunemente usato come conservante, ma forma composti instabili ed esplosivi con i metalli
Selenio	Con agenti riducenti
Solfuri	Con acidi forti
Tetracloruro di carbonio	Sodio, potassio

LIST OF INCOMPATIBLE SUBSTANCES	
Fluorine	With all other chemicals
Phosphorus (white)	With air, oxygen, alkali, reducing agents
Hydrocarbons in general	With fluorine, chlorine, formic acid, chromic acid, sodium peroxide
Hydrogen sulfate	With nitric acid vapors and oxidizing gases
Iodine	With acetylene and ammonia
Hypochlorites	With acids, activated carbon
Flammable liquids	With ammonium nitrate, chromic acid, hydrogen peroxide, nitric acid, sodium peroxide and halogens
Mercury	With acetylene, fulminic acid, hydrogen
Alkali metals (e.g. calcium, potassium, sodium)	With water, carbon dioxide, carbon tetrachloride and other chlorinated hydrocarbons
Ammonium nitrate	With acids, metal powders, flammable liquids, chlorates, nitrates, sulfur and finely organic substances powders or flammable compounds
Nitrites and nitrates	With acids
Nitroparaffin	With inorganic bases, amines
Calcium oxide	With water
Oxygen	With oils, fats, hydrogen, liquids, solids and flammable gases
Phosphorus pentoxide	With water
Potassium perchlorate	With sulfuric acid and other acids
Potassium permanganate	With glycerol, ethylene glycol, benzaldehyde and sulfuric acid
Hydrogen peroxide	With chromium, copper, iron, most other metals and their salts, flammable liquids and other products fuels, aniline and nitromethane
Sodium peroxide	With any oxidizable substance such as methanol, glacial acetic acid, acetic anhydride, benzaldehyde, carbon disulfide, glycerol, ethyl acetate and furfural
Potassium	With carbon tetrachloride, carbon dioxide, water, chloroform, dichloromethane
Copper	With acetylene, azide and hydrogen peroxide
Sodium	With carbon tetrachloride, carbon dioxide, water, chloroform, dichloromethane
Sodium azide	With lead, copper and other metals. This compound is commonly used as a preservative, but form unstable and explosive compounds with metals
Selenium	With reducing agents
Sulphides	With strong acids
Carbon tetrachloride	Sodium, potassium

BOCCHETTONE CLAMP - *CLAMP UNION*



DIN (")	A (mm)	B (mm)	C (mm)	SPESSORE (mm) *THICKNESS*
1/2"	25,1	12,7	28,6	1,65
3/4"	25,1	19,1	28,6	1,65
1"	50,4	25,4	28,6	1,65
1" 1/2	50,4	38,1	28,6	1,65
2"	64,0	50,8	28,6	1,65
2" 1/2	77,4	63,5	28,6	1,65
3"	90,9	76,1	28,6	1,65
4"	118,8	101,6	28,6	2,00
5"	155,0	129,0	28,6	2,00
6"	167,0	152,4	28,6	2,77
8"	217,4	203,2	28,6	2,77
10"	268,5	254,0	28,6	3,56
12"	319,3	304,8	28,6	3,56

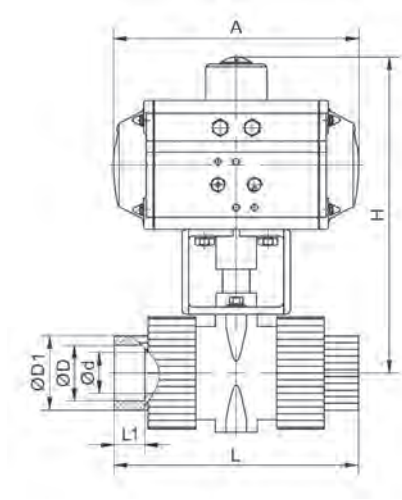
VS-P

MATERIALE: UPVC (Polivinilcloruro)
PARTICOLARMENTE INDICATA PER USO CHIMICO ED ALIMENTARE

MATERIAL: UPVC (POLYVINYL CHLORIDE)
PARTICULARLY SUITABLE FOR CHEMICAL AND FOOD USE

A RICHIESTA DISPONIBILE ANCHE A 3 VIE
ALSO AVAILABLE 3-WAY ON REQUEST

ATTUATORE DISPONBILIE SU RICHIESTA
ACTUATOR AVAILABLE ON REQUEST



COD	DN	D	D1	d	L	L1	A	H	ATTUATORE PNEUMATICO *ACTUATOR TIRE*
1 VS-P	15	20	31	13	164	15	146	175	AT 050 D
2 VS-P	20	25	37	18	182	17	146	180	AT 050 D
3 VS-P	25	33	44	23	210	20	146	187	AT 050 D
4 VS-P	32	40	54	30	233	23	167	220	AT 063 D
5 VS-P	40	50	65	38	247	25	167	245	AT 063 D
6 VS-P	50	63	79	48	291	28	213	250	AT 075 D
7 VS-P	65	75	92	61	371	32	213	280	AT 075 D
8 VS-P	80	90	108	69	414	35	250	332	AT 092 D
9 VS-P	100	110	146	99	462	45	268	387	AT 105 D

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