

FlowVis®

Flow Meter - Metric Models

Operating Manual

IMPORTANT NOTE: For the most up-to-date version of this manual, please visit www.h2floweurope.com



d 50mm - d 200mm models

SERVICE REPAIR KIT

Service repair kits are available for all models: for d 50 mm and d 63mm / d 75mm models, comprising:

- 1 x o-ring
- 1 x spring
- 1 x flapper and indicator arm (for all models except FV-C-S, and FV-C-Saline)
- 1 x pivot pin

for d 90mm, d 110mm, d160mm, and d 200mm models, comprising:

- 1 x o-ring
- 1 x spring
- 1 x spring pulley pivot pin
- 1 x spring pulley to flapper pulley wire

DESCRIPTION

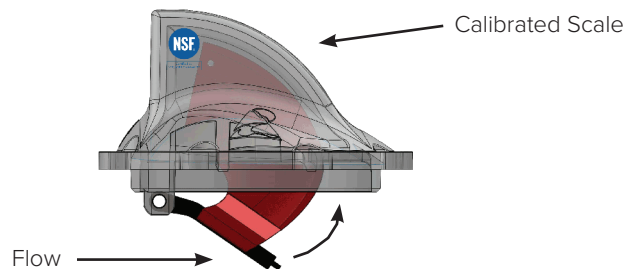
FlowVis® is a revolutionary, patented solution for accurate and reliable flow rate measurement in fresh water applications such as swimming pools, spas, fountains, water features, irrigation systems, well water and solar systems.

Using a design that is based on 'mass flow' principles, the FlowVis® provides many benefits that include:

- Ease of installation without the need to have 15x of straight pipe
- Installation flexibility that allows orientation in any position, e.g., horizontal, vertical or even upside-down
- Long life without sticking floats or paddle wheels
- Combined Flow Meter and Check Valve for d 50mm and d 63mm / d 75mm.

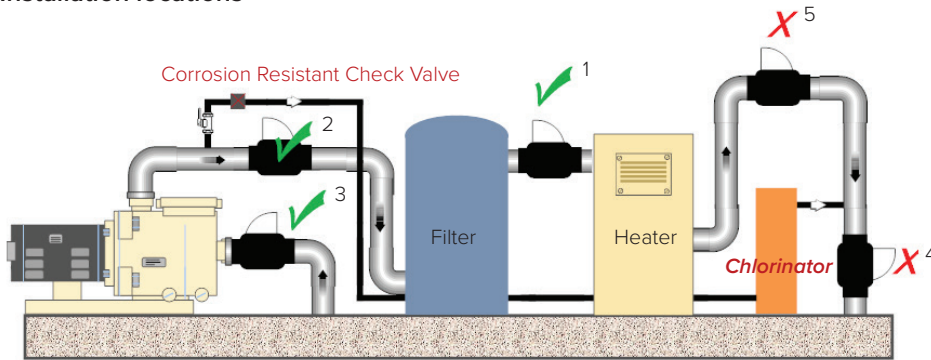
CONCEPT

As flow increases, the flapper moves forward toward its fully open position. The flapper's angular position is directly related to flow rate through the valve body / tee. A calibrated scale on the valve's lid provides a highly accurate reading of the flow rate.



INSTALLATION

Installation locations



- 1 = Best
- 2 = Very Good
- 3 = OK, but not ideal
- 4 = Bad
- 5 = Really bad

NOTE: The above graphic only relates to applications that use erosion style chemical feeders. In all other circumstances, the FlowVis® can be installed in any of the locations shown.

IMPORTANT NOTE: Before installing the FlowVis®, please refer to the section on Page 3 regarding chlorine feeders.

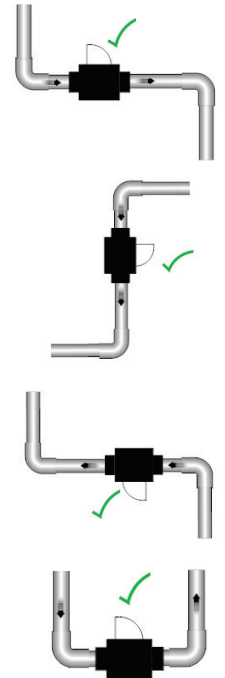
Installation of FlowVis® should be in accordance with the following instructions.

Normal plumbing procedures such as cleaning, priming and gluing of fixtures should be followed in order to avoid leaks.

Unlike other flow meters, FlowVis® is not affected by flow stream disturbances caused by its proximity to pumps, elbows, tees, valves, etc. FlowVis® does not require specific straight pipe lengths before or after its point of installation, and can be installed close to, or even adjacent to, other plumbing fittings. FlowVis® can be installed either horizontally or vertically.

Pay particular attention to the system's direction of flow and make sure that the arrow on the lid of the FlowVis® is pointing in the correct direction. For the d 90mm and d 110mm versions, the Tee will have an additional arrow on one of its bosses. In the event that the FlowVis® is inadvertently glued into the plumbing in the wrong direction, simply remove the (8) screws holding the lid in place and rotate the entire lid assembly by 180°.

NOTE: Always remove the FlowVis® lid assembly prior to gluing in the valve body.



NOTE: When selecting a physical location to install FlowVis®, be sure to allow accessibility to read the scale on the lid.

CHLORINE FEEDERS

IMPORTANT DISCLAIMER

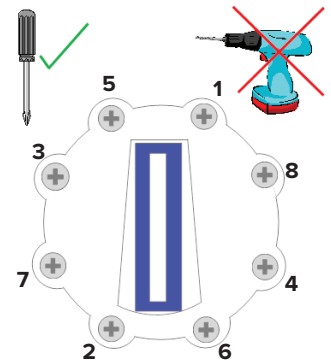
Material selections such as Viton and Hastelloy c-276 ensure that FlowVis® will provide many years of trouble-free operation in normally treated, sanitized pool water conditions. However, certain brands and designs of inexpensive chlorine feeders are known to fail and release high concentrations of chlorine or even chlorine gas into the surrounding filtration system. When this occurs, any equipment that comes into contact with these abnormal levels of chemicals will experience rapid and catastrophic damage. Inspection of any failed components will quickly and conclusively confirm the cause of the damage and, under these circumstances, the product's **warranty will be void.**

Under no circumstances should FlowVis® be used as a 'check valve' to prevent the effects of these Chlorine Feeders damaging other equipment such as Heaters.

TIGHTENING LID SCREWS

When removing and re-installing the FlowVis® lid assembly, it is important to adhere to the following procedure:

1. Make sure that the o-ring on the underside of the lid is undamaged, lubricated with silicone (such as Boss 820) and is in place without twists.
2. Ensure flapper hinge pin is centered.
3. Carefully lower the lid onto its valve body (or Tee in the case of the d 90mm and d 110mm models), making sure that the o-ring stays in place.
4. Insert by hand the (8) stainless steel screws but do not tighten at this stage.
5. Using a hand Phillips-head screwdriver, slowly tighten the screws in a diagonal pattern, per the sequence to the right. Do not fully tighten one screw before proceeding to the next, i.e., pull them down slowly multiple times to avoid stressing and cracking the lid. Screws should be tightened to a final torque of 34 Nm.



OPERATION

The FlowVis® is factory-calibrated to be extremely accurate across its full operating range. Any perceived ‘inaccuracy’ is related to the viewing angle at which the scale is being read. To avoid so-called ‘parallax error’, it is important to position your eye so that you are looking squarely at the tip of the indicator arm. To achieve this, simply move your head so that you just lose sight of the vertical leading edge of the red arm.



X

(1) Indicator arm is being viewed too far forward / near the rear of the lid.



✓

(2) Indicator arm is being viewed correctly.

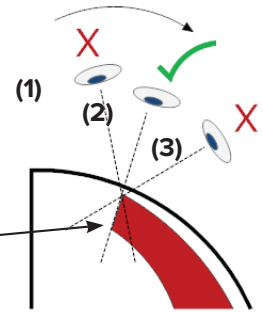


X

(3) Indicator arm is being viewed too far back / front of the lid.

NOTE: Slowly move your head in this direction to the point where the leading edge of the indicating arm is not visible.

Vertical leading edge



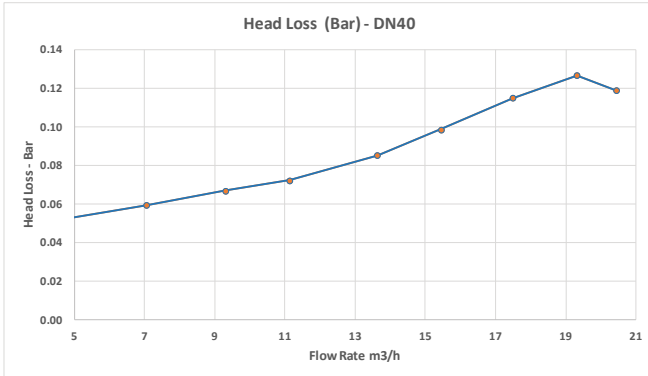
MAINTENANCE

Although FlowVis® is designed to be maintenance-free, periodic checks should be made to the following:

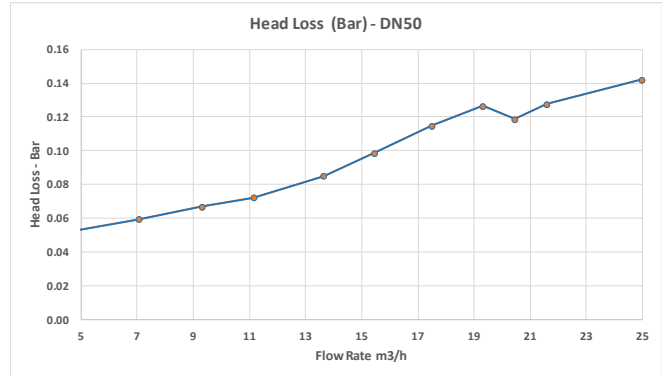
Condition	Check for	Remedy
Leak around lid seal	O-Ring Failure	Replace O-Ring
Leak from lid	Cracks in lid	Order new lid from supplier
Higher flow reading than normal	Broken or weak spring	Replace spring
Lower flow reading than normal	Indicator arm stuck due to debris	Remove lid and clear debris
Flow indicator stuck at one position	Debris between indicator arm and lid	Remove lid and clear debris
Indicator always at max flow when pump running	Broken spring	Replace spring
Flapper seal crinkled	Chlorinator check valve failure	Repair chlorinator, order FlowVis® Service Repair Kit. Consider moving FlowVis® to a different location (see ‘Chlorine Feeders’ section on pg. 3).

HEAD LOSS DATA

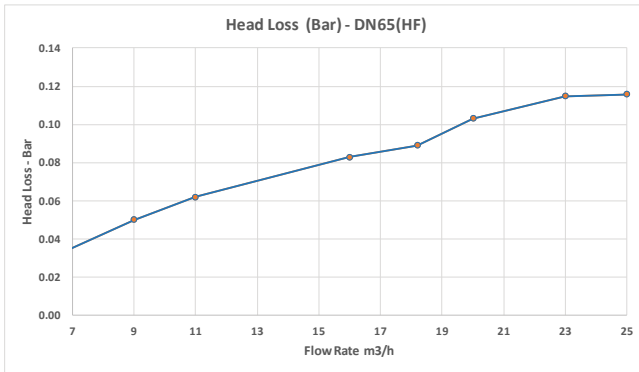
Head Loss (d 50mm):



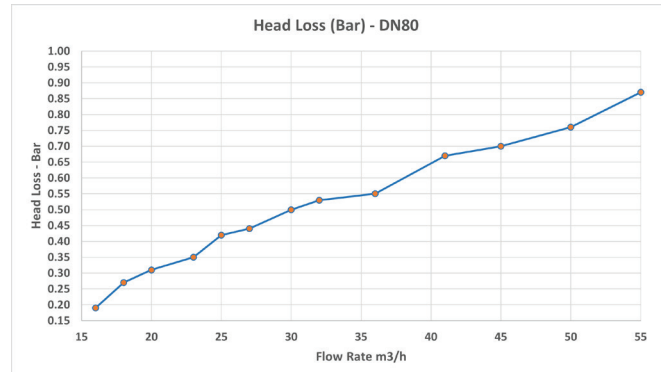
Head Loss (d 63mm / d 75mm):



Head Loss (d 75mm HF):

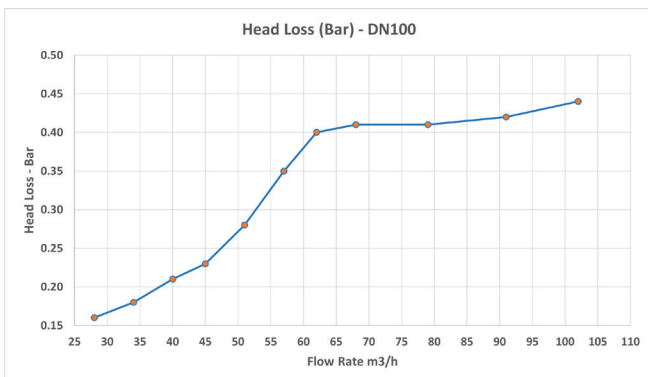


Head Loss (d 90mm):



Head Loss values for the DN65 (HF), are calculated from empirical data and are estimated to >90% accurate.

Head Loss (d 110mm):



TECHNICAL DATA

Materials used:

Item	Material / Comments
Lid	Polycarbonate
Valve Body (d 50mm and d 63mm / d 75mm)	CPVC
Lid Screws	304 Stainless Steel
O-ring	Silicone Lubricated Elastomer
Scale label, Product label	Polycarbonate
Pivot Pin	Hastelloy c-276
Spring	Hastelloy c-276. 316 Stainless Steel prior to Nov. 2015
d 90mm, d 110mm, d 160mm and d 200mm Tee and reducing bushings	PVC
Indicator Arm	ABS
Flapper d 50mm and d 63mm / d 75mm	PPEPS
Flapper d 75mm (High Flow)	ABS (green)
Flapper Seal d 50mm and d 63mm / d 75mm	Viton

Operational Data:

Function	Models	Comments
Max working pressure	All models	3.5 Bar
Accuracy	FV-C-M-DN40, FV-C-M-DN50/65	Average: 97.9% / 98% / 97.5%
Accuracy	FV-M-DN40, FV-M-DN50/65, FV-M-DN150 and FV-M-DN200	Average: 98.6% in straight pipe
Min / Max operating ambient temp	All models	0°C / 60°C
Periodic calibration	All models	None required
Design life	All models	Greater than 5 years

WARRANTY

For a copy of the FlowVis warranty, please contact the factory.



H2flow Controls
Tel: +(34) 608 228 665 • www.h2floweurope.com
Release 4.9EUR 02/2021 English

FlowVis®

Bedienungsanleitung

Durchflussmesser - Nur metrische Modelle

WICHTIGER HINWEIS: Die aktuellste Version dieses Handbuchs finden Sie unter www.h2floweurope.com



d 50mm - d 200mm modelle

BESCHREIBUNG

FlowVis® ist eine revolutionäre, patentierte Lösung für genaue und zuverlässige Durchflussmessungen in der Frischwasser-Anwendung wie z.B. bei Schwimmbädern, Whirlpools, Brunnen, Wasserspielen und Bewässerungssystemen.

Aufgrund des Designs des FlowVis®, welches auf dem "Massenstrom"-Prinzip beruht, bieten sich folgende Vorteile:

- Einfache Installation: es wird keine gerade Verrohrung benötigt
- Flexible Installation: In alle Richtungen möglich, z.B. horizontal, vertikal oder sogar kopfüber
- Lange Lebensdauer ohne steckenbleibende Schwebekörper oder Paddelräder
- Kombiniertes Durchflussmeter und Rückschlagventil für d 50mm und d 63mm / d 75mm.

HEAD LOSS DATA

Servicereparatursätze sind für alle Modelle erhältlich:

für Modelle mit d 50 mm und d 63 mm / d 75 mm, bestehend aus:

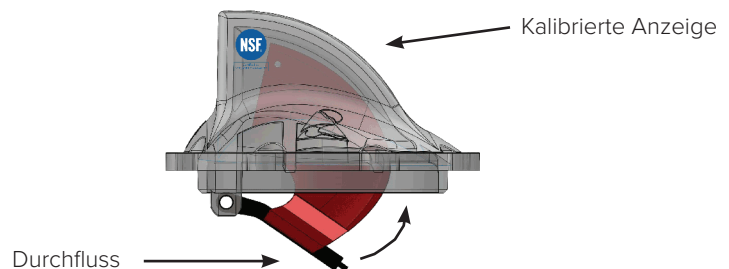
- 1 x O-Ring
- 1 x Feder
- 1 x Klappe und Anzeigearm (für alle Modelle außer FV-C-S und FV-C-Kochsalzlösung)
- 1 x Drehzapfen

für Modelle mit 90 mm, 110 mm, 160 mm und 200 mm, bestehend aus:

- 1 x O-Ring
- 1 x Feder
- 1 x Drehzapfen der Federrolle
- 1 x Federrolle zum Draht der Klappenscheibe

KONZEPT

Durch zunehmenden Durchfluss wird die Klappe nach vorne gedrückt. Die Position der Klappe steht in Abhängigkeit des Durchflusses. Eine kalibrierte Anzeige auf dem Deckel des Flowvis zeigt den akkuraten Durchfluss des Wassers an.



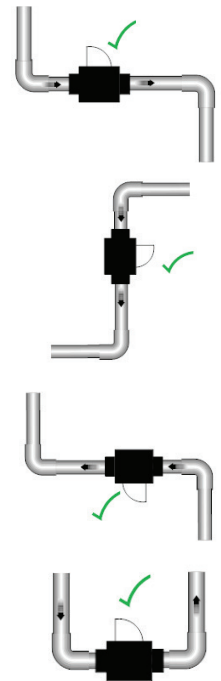
INSTALLATION

Die Installation des FlowVis® sollte wie folgt verlaufen:

Im Gegensatz zu anderen Durchflussmessern wird das Messergebnis des FlowVis® nicht durch Installation in Pumpennähe, Winkel, Ventile etc. beeinflusst. FlowVis® benötigt keine gerade Verrohrungsstrecke vor oder nach dem Installationspunkt und kann direkt vor oder nach Anschlussfittings angebracht werden. FlowVis® kann horizontal oder vertikal installiert werden.

Beachten Sie, dass FlowVis® in die korrekte Flussrichtung eingebaut wird, siehe Pfeil der Flussrichtung auf dem Deckel. Bei der Version für d 90mm und d 110mm befindet sich ein zusätzlicher Pfeil auf dem FlowVis®. Im Falle, dass das Gerät versehentlich entgegen der Flussrichtung geklebt wurde, entfernen Sie die 8 Schrauben am oberen Teil des Geräts und drehen Sie den Deckel um 180°.

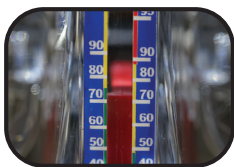
WICHTIG: Demontieren Sie den Deckel des FlowVis® bevor Sie den Gerätekörper verkleben.



WICHTIG: Wählen Sie bei der Montage des FlowVis® eine Stelle, die eine gute Ablesbarkeit des Geräts bietet.

BEDIENUNG

Der FlowVis® ist werkseitig kalibriert um innerhalb des gesamten Anzeigebandes genau zu messen. Jede erkannte Abweichung liegt im Zusammenhang mit dem Blickwinkel auf die Anzeige. Um den sogenannten 'Parallaxfehler' zu vermeiden ist es wichtig, dass Sie sich so positionieren, dass Sie den Anzeigearm in einem 90° Winkel sehen.



(1) Anzeigearm wird von zu weit oben angeschaut.



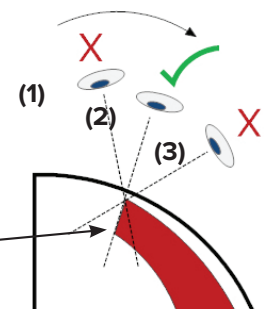
(2) Anzeigearm wird korrekt angeschaut.



(3) Anzeigearm wird von zu weit unten angeschaut.

WICHTIG: Bewegen Sie Ihren Kopf langsam in die Richtung, bis Sie den Führungsbarm der Anzeige nicht mehr sehen können.

Kante des Anzeigearms



FlowVis®

Manual Operador

Caudalímetro - Sistema métrico

NOTA IMPORTANTE: Para ver la versión completa visite: www.h2floweurope.com



Modelos d 50mm - d 200mm

KIT DE REPARACIÓN

Los kits de reparación de servicio están disponibles para todos los modelos:

para modelos de d 50 mm y d 63 mm / d 75 mm, que comprende:

- 1 x junta tórica
- 1 x resorte
- 1 x aleta y brazo indicador (para todos los modelos excepto FV-C-S y FV-C-Saline)
- 1 x pasador de pivote

para los modelos d 90mm, d 110mm, d160mm y d 200mm, que comprende:

- 1 x junta tórica
- 1 x resorte
- 1 x pasador de pivote de polea de resorte
- 1 x cable de polea de resorte a polea de aleta

DESCRIPCIÓN

FlowVis® es una solución revolucionaria y patentada para la medición de caudal precisa y fiable en aplicaciones de agua dulce como piscinas, spas, fuentes, sistemas de riego, pozos y sistemas solares.

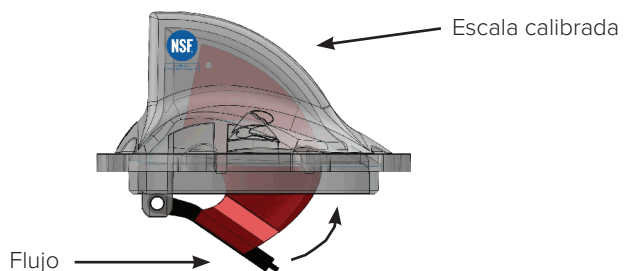
Utiliza un diseño basado en el principio de „flujo de masa“, el FlowVis® proporciona varios beneficios que incluyen:

Facilidad de instalación sin la necesidad de tener 15x de tubería recta

- Flexibilidad de instalación que permite la orientación en cualquier posición, por ejemplo, horizontal, vertical o incluso al revés
- Larga vida útil sin flotadores ni ruedas de paletas
- Combinación de caudalímetro y válvula de retención para d 50mm y d 63mm / d 75mm.

CONCEPTO

A medida que aumenta el flujo, la aleta se mueve hacia adelante hacia su posición totalmente abierta. La posición angular de la aleta está directamente relacionado con la velocidad de flujo a través del cuerpo / T de la válvula. Una escala calibrada en la tapa de la válvula proporciona una lectura muy precisa del caudal.



INSTALACIÓN

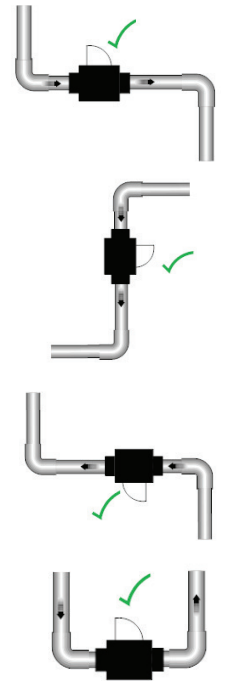
La instalación de FlowVis® debe realizarse de acuerdo con las siguientes instrucciones.

Se deben seguir procedimientos normales de fontanería, como limpieza, imprimación y pegado de los accesorios, para evitar fugas.

A diferencia de otros medidores de flujo, FlowVis® no se ve afectado por las perturbaciones de la corriente de flujo causadas por su proximidad a bombas, codos, Tes, válvulas, etc. FlowVis® no requiere longitudes de tubería rectas específicas antes o después de su punto de instalación, y puede instalarse cerca de, o incluso adyacente a, otras conexiones de plomería. FlowVis® se puede instalar de forma horizontal o vertical.

Preste especial atención a la dirección del flujo del sistema y asegúrese de que la flecha en la tapa del FlowVis® apunte en la dirección correcta. Para las versiones d 90mm y d 110mm, la Tee tendrá una flecha adicional en uno de sus extremos. En el caso de que el FlowVis® se pegue inadvertidamente en la tubería en la dirección incorrecta, simplemente quite los (8) tornillos que sujetan la tapa en su lugar y gire todo el conjunto de la tapa 180°.

NOTA: siempre retire el conjunto de la tapa FlowVis® antes de pegar el cuerpo de la válvula.



NOTA: Al seleccionar una ubicación física para instalar FlowVis®, asegúrese de permitir el acceso a la lectura de la escala en la tapa.

OPERACIÓN

El FlowVis® está calibrado de fábrica para que sea extremadamente preciso en todo su rango de operación. Cualquier “precisión” percibida está relacionada con el ángulo de visión en el que se lee la escala. Para evitar el llamado “error de paralaje”, es importante colocar el ojo de manera que esté mirando directamente a la punta del brazo indicador. Para lograr esto, simplemente mueva su cabeza para que solo pierda de vista el borde vertical del brazo rojo.



(1) El brazo indicador está siendo visto demasiado hacia adelante / cerca de la parte posterior de la tapa.



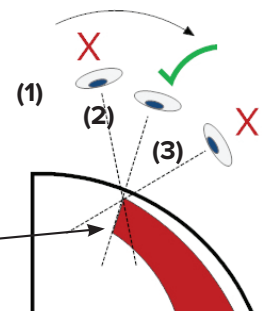
(2) El brazo indicador se está viendo correctamente.



(3) El brazo indicador está siendo visto demasiado atrás / adelante de la tapa.

NOTA: mueva lentamente la cabeza en esta dirección hasta el punto donde el borde anterior del brazo indicador no sea visible

Borde de ataque vertical



FlowVis® Manuale Operativo

Misuratori di Portata - Modelli Metrici

IIMPORTANTE: Per ottenere la versione aggiornata di questo manuale, si prega di visitare www.h2floweurope.com



d 50mm - d 200mm modelli

■ KIT DI RIPARAZIONE

Sono disponibili kit di riparazione per tutti i modelli:

per i modelli d 50 mm e d 63 mm / p 75 mm, composto da:

- 1 x o-ring
- 1 x molla
- 1 x flapper e braccio indicatore (per tutti i modelli eccetto FV-C-S e FV-C-Saline)
- 1 x perno di articolazione

per i modelli d 90mm, d 110mm, d160mm e d 200mm, comprendente:

- 1 x o-ring
- 1 x molla
- 1 perno di articolazione della puleggia a molla
- 1 x puleggia a molla per filo della puleggia della falda

■ DESCRIZIONE

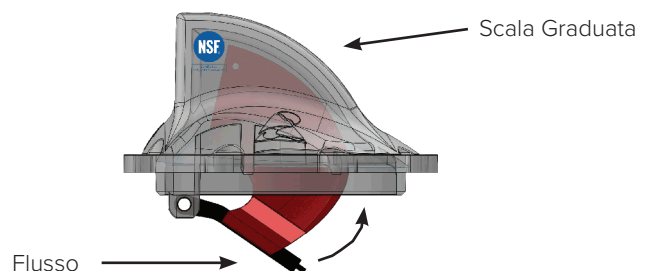
FlowVis® è una soluzione rivoluzionaria e brevettata per la misurazione accurata e affidabile della portata d'acqua in varie applicazioni, come piscine, spa, fontane, giochi d'acqua, sistemi di irrigazione, acqua di pozzo e sistemi solari.

Grazie al suo design unico basato sul principio della "meccanica dei fluidi", FlowVis® offre molti vantaggi:

- Facilità di installazione senza la necessità di avere 40cm di tubo dritto
- Flessibilità di installazione che consente l'orientamento in qualsiasi posizione: orizzontale, verticale o addirittura capovolta
- Lunga durata di vita senza incollare galleggianti o ruote a pale
- Misuratore di portata combinato con valvola di ritegno per modelli d 50mm e d 63mm / d 75mm.

■ FUNZIONAMENTO

All'aumentare della portata, la paletta si sposta in avanti verso la sua posizione completamente aperta. La posizione angolare del flapper è direttamente proporzionale alla portata attraverso il corpo valvola. Una scala graduata sul coperchio della valvola fornisce una lettura estremamente accurata della portata.



INSTALLAZIONE

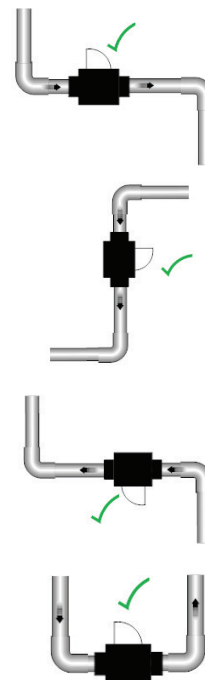
L'installazione di FlowVis® deve essere conforme alle seguenti istruzioni

Rispettare le normali procedure idrauliche come la pulizia, l'adescamento e l'incollaggio dei raccordi per evitare perdite.

A differenza di altri misuratori di portata, FlowVis® non è influenzato dai disturbi del flusso causati dalla vicinanza a pompe, gomiti, raccordi a T, valvole, ecc... FlowVis® non richiede lunghezze di tubi dritti specifici prima o dopo il suo punto di installazione e può essere installato vicino o anche adiacente ad altri raccordi idraulici. FlowVis® può essere installato in orizzontale o verticale.

Prestare particolare attenzione alla direzione del flusso del sistema e assicurarsi che la freccia sul coperchio del FlowVis® sia rivolta nella direzione corretta. Per le versioni d 90mm e d 110mm, il raccordo a T avrà una freccia aggiuntiva. Nel caso in cui il FlowVis® venga incollato nell'impianto idraulico nella direzione sbagliata, rimuovere semplicemente le (8) viti che fissano il coperchio e ruotare l'intero gruppo di 180°.

NOTA: Rimuovere sempre il gruppo coperchio FlowVis® prima di incollare il corpo valvola.



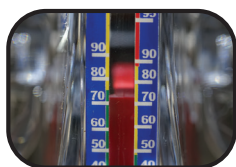
NOTA: quando si sceglie una posizione per installare FlowVis®, assicurarsi di garantire l'accessibilità di lettura della scala sul coperchio

FUNZIONAMENTO

Il FlowVis® è calibrato in fabbrica per essere estremamente accurato in tutto il suo range operativo.

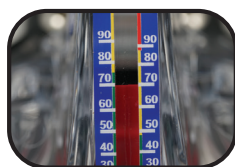
Qualsiasi "imprecisione" percepita è correlata all'angolo di visione con cui viene letta la scala.

Per evitare il cosiddetto "errore di parallasse", è importante posizionare l'occhio in modo tale da guardare esattamente la punta del braccio indicatore. Per ottenere ciò, muovi semplicemente la testa in modo da perdere di vista il bordo anteriore verticale del braccio rosso.



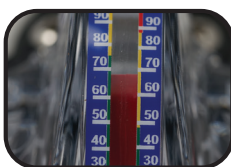
X

(1) Il braccio indicatore è visto troppo in avanti / vicino alla parte posteriore del coperchio.



✓

(2) Il braccio indicatore è visualizzato correttamente

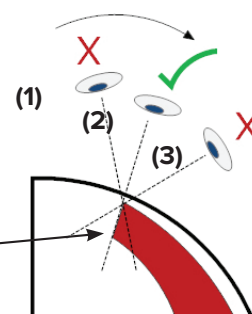


X

(3) Il braccio indicatore è visto troppo indietro / davanti al coperchio.

NOTA: sposta lentamente la testa in questa direzione fino al punto in cui il bordo anteriore del braccio indicatore non è visibile.

Bordo anteriore verticale



FlowVis®

Manuel d'utilisation

Flow Meter - modèles métriques

A noter: Pour les dernières mises à jour de ce manuel, veuillez vous rendre sur : www.h2floweurope.com



Modèles d 50mm - d 200mm

LA DESCRIPTION

FlowVis est une solution brevetée révolutionnaire pour une mesure fiable et précise du débit. Il est utilisable pour toutes applications telles que les piscines, spas, fontaines, attractions d'eau, systèmes d'irrigation et installations solaires.

Grâce à son design basé sur le principe de mesure du "débit massique", FlowVis offre de nombreux avantages :

- Flexibilité d'installation permettant d'orienter FlowVis dans toutes les positions - horizontale, verticale, ou même tête en bas.
- Meilleure durabilité sans flotteur ni roues à palettes
- Combinaison débitmètre et clapet anti-retour sur les modèles d 50mm et d 63mm / d 75mm.

KIT DE RÉPARATION

Des kits de réparation sont disponibles pour tous les modèles:

pour les modèles d 50 mm et d 63 mm / d 75 mm, comprenant:

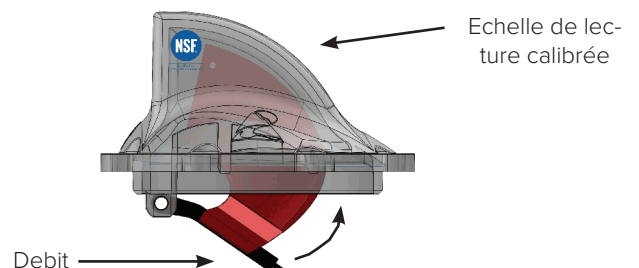
- 1 x joint torique
- 1 x ressort
- 1 x clapet et bras indicateur (pour tous les modèles sauf FV-C-S et FV-C-Saline)
- 1 x axe de pivot

pour les modèles d 90 mm, d 110 mm, d160 mm et d 200 mm, comprenant:

- 1 x joint torique
- 1 x ressort
- 1 x axe de pivot de poulie à ressort
- 1 x poulie à ressort au fil de poulie à clapet

CONCEPT

Lorsque le débit augmente, le battant avance vers sa position la plus ouverte. La position angulaire du battant est directement liée au débit traversant le corps de la vanne. Une échelle de mesure sur le couvercle offre une lecture précise du débit.



INSTALLATION

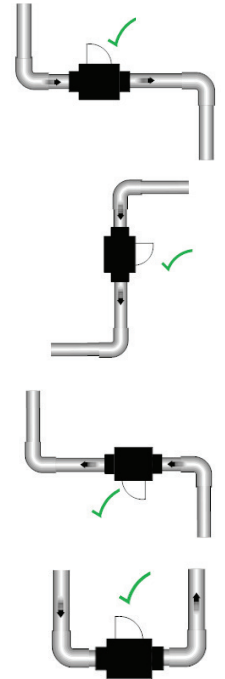
L'installation de FlowVis doit respecter les instructions suivantes.

Les travaux de plomberie (nettoyage, collage etc.) doivent éviter toutes fuites sur la tuyauterie.

Contrairement aux autres débitmètres, FlowVis n'est pas affecté par les perturbations de débit liées à la proximité d'une pompe, coudes, tee, vannes etc. FlowVis ne requiert aucune longueur minimale de conduite en ligne droite avant ou après son positionnement et peut être installé à proximité / ou même adjacent à d'autres raccords. FlowVis peut être installé horizontalement ou verticalement.

Portez une attention particulière à la direction du débit et assurez-vous que l'indicateur sur le couvercle de FlowVis pointe dans la bonne direction. Si jamais FlowVis a été fixé sur la tuyauterie dans la mauvaise direction, retirez simplement les vis (8) du couvercle et tournez le couvercle complet à 180°.

NOTE: Toujours retirer le couvercle de FlowVis avant le collage.



NOTE: Pour le choix du positionnement de FlowVis, assurez-vous un accès facile à la lecture du débit sur le couvercle.

OPERATION

FlowVis est calibré en usine pour une mesure extrêmement précise du débit. Toute imprécision perçue est liée à l'angle de vue / position du regard lors de la lecture du débit. Pour éviter une "mauvaise" lecture sur l'indicateur, il est important de placer son regard comme indiqué ci-dessous :



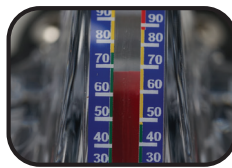
X

(1) L'indicateur est visualisé trop en avant / vue sur le fond du couvercle



✓

(2) L'indicateur est visualisé correctement

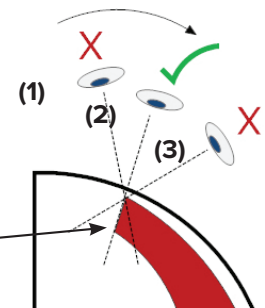


X

(3) L'indicateur est visualisé trop en arrière

NOTE: Déplacer lentement votre regard dans le sens indiqué ci-dessous jusqu'à ne plus voir le bord supérieur de l'indicateur.

Bord supérieur de l'indicateur



FlowVis®

Handboek

Flowmeter - Metrisch Systeem

OPMERKING: Voor de volledige versie: www.h2floweurope.com



d 50mm - d 200mm models

SERVICE REPARATIE SET

Servicereparatiesets zijn beschikbaar voor alle modellen:

voor modellen d 50 mm en d 63 mm / d 75 mm, bestaande uit:

- 1 x o-ring
- 1 x veer
- 1 x flap en indicatorarm (voor alle modellen behalve FV-C-S en FV-C-Saline)
- 1 x draaipen

voor modellen d 90 mm, d 110 mm, d160 mm en d 200 mm, bestaande uit:

- 1 x o-ring
- 1 x veer
- 1 x scharnierpen veerpoelie
- 1 x veerpoelie naar draad van flappatrol

OMSCHRIJVING

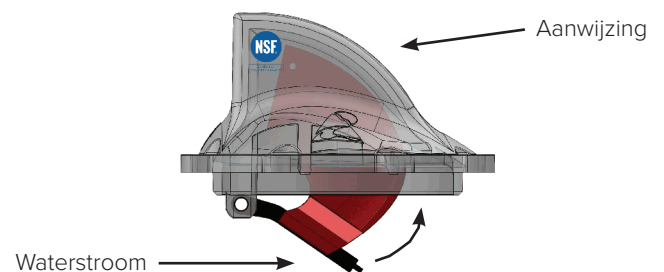
FlowVis® is een revolutionaire, gepatenteerde oplossing voor een nauwkeurige en betrouwbare flowmeting in schoon-water toepassingen zoals zwembaden, spa's, fontein, waterpartijen, irrigatiesystemen, bronwater- en zonnepanelen.

Het design is gebaseerd op het ontwerp van het 'massa-flow'-principe waardoor de FlowVis® vele voordelen biedt, zoals:

- Eenvoudige installatie zonder het 15x recht stuk leiding principe te moeten toepassen.
- Flexibiliteit in installatie doordat FlowVis® in iedere positie geplaatst kan worden, horizontaal, verticaal of zelfs ondersteboven.
- Lange levensduur; zonder vastzittende drijvers of schoepenwielen.
- Gecombineerde flowmeter en terugslagklep voor d 50mm en d 63mm / d 75mm.

CONCEPT

Naarmate de flow (waterstroom) toeneemt, beweegt de klep naar voren, naar de volledig open positie. De hoekpositie van de klep is direct gerelateerd aan de flow door het kleplichaam / T-stuk. Een gekalibreerde schaal op het deksel van de klep biedt een zeer nauwkeurige aflezing van de hoeveelheid aan flow.



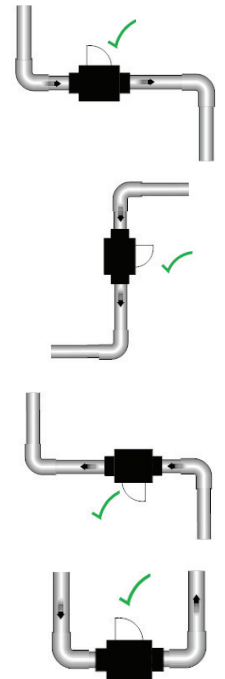
INSTALLATIE

De installatie van FlowVis® moet in overeenstemming zijn met de onderstaande instructies. De normale werkwijze voor het verwerken van pvc zoals het reinigen en lijmen van armaturen moet worden gevolgd om lekkage te voorkomen.

In tegenstelling tot andere flowmeters wordt FlowVis® niet beïnvloed door schommelingen in de flow die wordt veroorzaakt door de aanwezigheid van pompen, bochten, T-stukken, kleppen enz. FlowVis® vereist geen specifieke rechte buislengtes vóór of na het punt van installatie en kunnen dichtbij of zelfs direct naast pvc hulpstukken worden geïnstalleerd. FlowVis® kan horizontaal of verticaal worden geïnstalleerd.

Besteed specifieke aandacht aan de stroomrichting van het systeem en zorg ervoor dat de pijl op het deksel van FlowVis® in de juiste richting wijst. De d 90mm en d 110mm-versies zijn voorzien van een extra pijl op het huis hebben. In het geval dat FlowVis® foutief is vastgelijmd (in de verkeerde richting) in het leidingwerk, verwijder dan eenvoudig de (8) schroeven die het deksel op haar plek houden. Draai vervolgens het complete deksel 180° om deze vervolgens weer vast te schroeven.

OPMERKING: Verwijder vooraf aan het vastlijmen in het kleplichaam altijd het deksel van FlowVis®.



OPMERKING: Houd bij het bepalen van het punt van installatie van FlowVis® rekening met de toegankelijkheid van het deksel en dus het aflezen van de schaal.

IN PRAKTIJK

FlowVis® wordt in de fabriek gekalibreerd om indien in werking een uiterst nauwkeurige meting te garanderen. Elke waargenomen onnauwkeurigheid is terug te leiden naar de kijkhoek waarmee de schaal geraadpleegd wordt. Om het parallax effect te voorkomen is het belangrijk dat uw oog recht gepositioneerd is tov het punt van de indicator-arm. Om dit te bereiken beweegt u eenvoudig uw hoofd net zolang tot de zijkant (verticale zijde) van de rode arm uit beeld is.



X

(1) Indicator-arm wordt vanuit de verkeerde hoek (te ver naar voren) bekeken, vlakbij de achterzijde van het deksel.



✓

(2) Indicator-arm wordt op de juiste manier bekeken.



X

(3) Indicator-arm wordt vanuit de verkeerde hoek (te ver naar achteren) bekeken, vlakbij de voorzijde van het deksel.

OPMERKING: Beweeg langzaam het hoofd in de aangegeven richting tot het punt waar de zijkant van de indicator-arm niet meer in beeld is.

Verticale voorzijde

