





**SKU: FC5391 Screwed
FC5392 Wafer**

-  VOLT Pre Set Flow Controller
-  VOLT Stromregelventil pre-set
-  VOLT válvula de control de flujo - conjunto pre
-  VOLT régulateur de débit - ensemble pré

Valves™
ONLINE

- 1/2" - 8" Flow Control Valves - Pre Set
- 1/2" - 8" Durchflussregelventile
- 1/2" - 8" Válvulas de control de flujo
- 1/2" - 8" Vannes de régulation de débit

**Pre Set Flow
Control Valve.
Brass, Stainless
& UPVC**



Valve Application Data

Water Authorities
Water Treatment
Centrifugal Pumps
Industrial
Domestic Showers and Basins
irrigation

Description:

Flow control valves are for clean liquid applications and provide a flow of liquid at a pre-determined level against a variation of pressure within the system, independent of line pressure changes. The valve operates by means of a rubber orifice (control ring) housed in a pre-formed tapered housing, that reduces in size as the pressure increases. As the pressure reduces the control ring returns to its original shape thus balancing the flow. Installation is possible on pipe work in any plane. Available either screwed, for lines up to 2" or Up to 8" as a wafer pattern to fit between flanges BS10 Table E.



Description

A range of screwed or flanged pre set flow controllers, in brass, PVC and stainless steel with NBR control ring giving $\pm 10\%$ accuracy. Operating from -25°C up to 100°C, minimal pressure 1.4 bar. Simple to fit ensures constant pre set flow rates.



Beschreibung

Eine Reihe von verschraubten oder geflanschten Vor-Set-Strömungsreglern aus Messing, PVC und Edelstahl mit NBR-Kontrollring mit einer Genauigkeit von $\pm 10\%$. Betrieb von -25 °C bis 100 °C, Mindestdruck 1,4 bar. Einfache Montage gewährleistet konstante Vorlaufmengen.



Descripción

Una gama de controladores de flujo conjunto pre roscadas o con bridas, de latón, PVC y acero inoxidable con anillo de control NBR dando $\pm 10\%$ de precisión. Operando desde -25°C hasta 100°C, una presión mínima de 1,4 bar. Simple de instalar asegura caudales conjunto pre constantes.







Description

Une gamme de régulateurs de débit de consigne pré vissés ou à bride, en laiton, PVC et acier inoxydable avec bague de commande NBR donnant $\pm 10\%$ de précision. Fonctionnant à partir -25°C jusqu'à 100°C, une pression minimale de 1,4 bar. Simple à installer assure des débits de consigne pré constants.

- **1.4 Bar Min. 10 Bar Max.**
- **- 25° C to 100° C**
- **Various Materials**
- **Fluids: Pure Liquid**
- **Accuracy $\pm 10\%$**

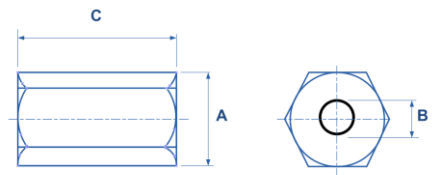
- Maintains controlled water supply irrespective of pressure fluctuation
- Reduces pressure surge & water wastage
- Helps eliminate costly water bills
- Ease of installation & operation

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Pre Set Control Valve

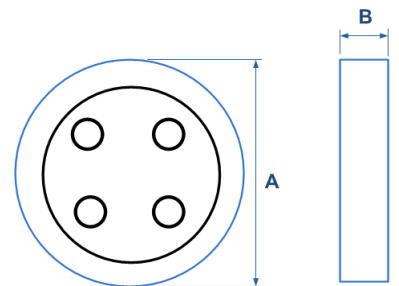
- **1.4 Bar Min. 10 Bar Max.**
- **-25° C to 100° C**
- **Various Materials**
- **Fluids: Pure Liquid**
- **Accuracy ±10%**

Screwed - Dimensions - FC5391				
DN	A (mm)	B (mm)	C (mm)	Flow Rate (L/M)
1/2"	40	26	42	1, 1.2, 1.5, 1.6, 1.8, 2.0, 2.3, 2.5, 2.8, 3.2, 3.5, 4.0, 4.5, 5.0, 5.5, 6.3, 7.0, 8.0, 9.0, 10, 11, 12, 13, 15, 16, 18, 20, 23
3/4"	54	30	48	25, 28, 32, 36, 41, 45, 49, 54
1"	58	40	58	59, 66, 73, 82, 91, 102, 114
1 1/2"	70	58	66	125, 135, 150, 160, 180, 200, 216, 230
2"	90	70	75	125, 135, 150, 160, 180, 200, 216, 230



Dimensions are approximate only and can change





Wafer - Dimensions - FC5392			
DN	A	B	Flow Rate (L/M)
2"	94.4	24	342
2 1/2"	111	24	456
3"	130	25.4	675
4"	161	30	1080
5"	193.6	30	1620
6"	216	32	2565
8"	273	35	3645



Standard Valves are to BS 10 Table E and D flanges. Other ratings are available upon request

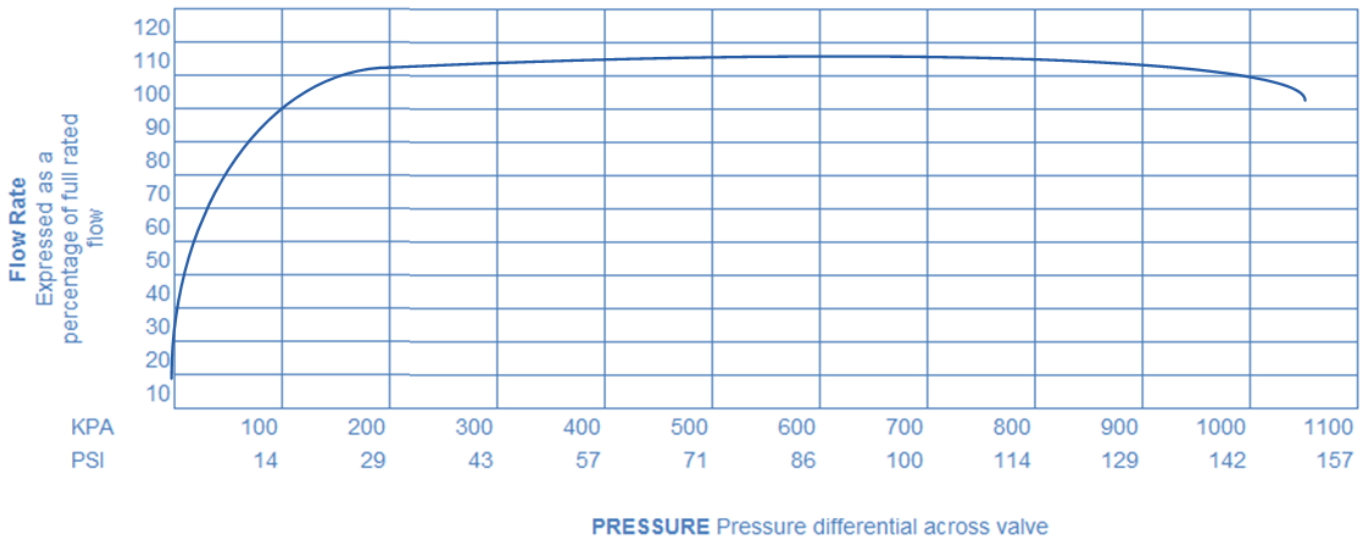
VOLT flow controllers can be used to;

- Control backwash flow rate to prevent loss of media in media filters.
- Control of service water flow through delicate filters.
- Control trickle flow of sampling water to analysing instrumentation.
- Chemical dosing flow rate control.
- Limit peak flow rate through ultraviolet sterilisers to ensure 100% bacteria kill.

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Pre Set Control Valve

Performance Curve 140 to 1000 kPa



Method of Testing

Valves subject to increasing pressures from 140 to 1000 kPa over a 2 minute cycle. Flow must be within 10% of rated throughout this range. If they are not they are rejected. Note due to compression set (common on all rubber) flow readings at around 400 kPa may be up to 3% above tolerance when pressure is first applied, however it will be in tolerance within minutes. Likewise, valves subjected to continuous non-changing pressure of around 1000kPa for months on end, may drop a few percent below 10% tolerance.

Head loss or Pressure Drop across the Valve

Question: What will be the head loss across the valve?

Answer: At least 140kPa or between 140 and 1000 kPa if the system is designed and operating properly. This is because the function of our PRECISION range of valves is to control the flow when P.D. across the valve is within the range, therefore to achieve full rated flow (accurate to within 10%) the installation must provide for the inlet to be at least 140 kPa above the outlet pressure.

To Calculate Head Loss: Assume the valve is controlling the flow as required. Then determine what pressure will be at the inlet and what pressure will be at the outlet. The P.D. will then simply be the difference between the two. Should this work out to be less than 140 kPa or greater than 1000 kPa, then the valve will not provide the full flow and the installation will require altering.

Materials	
Body	Brass
Rubber Control Ring	Nitrile as standard
Stainless Steel	316 St St
Rubber Control Ring	Nitrile as standard
UPVC	UPVC
Rubber Control Ring	Nitrile as standard

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