

V-FORCE



V-Force (Vertical) INSTALLATION & OPERATION INSTRUCTIONS

📍 Metal İş Sanayi Sitesi 11.Blok No:37/39
İkitelli - İstanbul / TURKEY

☎ 0212 549 57 70

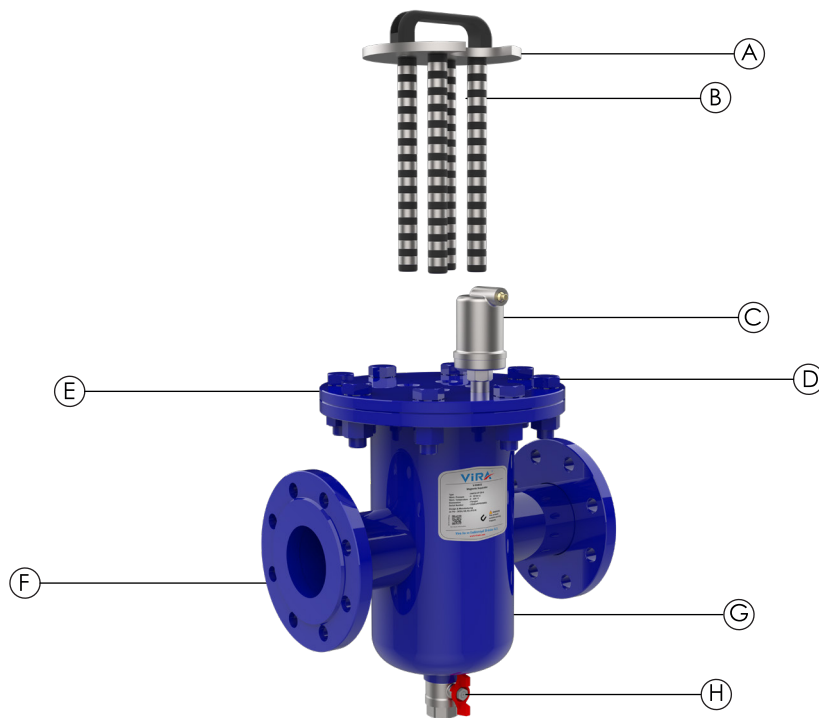
☎ 0212 549 58 48

✉ info@viraisi.com

🌐 www.viraisi.com

ENG

System Construction



A	Magnet Rod Flange
B	Magnets
C	Automatic Air Vent
D	Bolts
E	Magnet Housing Top Flange
F	Connection Flange
G	Body
H	Ball Valve

	VF-D DN50	VF-D DN65	VF-D DN80	VF-D DN100	VF-D DN125	VF-D DN150	VF-D DN200	VF-D DN250	VF-D DN300
Dry weight (kg)	27	28	31	32	76	78	80	88	137
Inlet Size (mm)	60,3	76,1	88,9	114,3	114,3	168,3	219,1	273	323,9
Number of Magnets	48	48	52	52	76	76	84	92	104
Volume (Litres)	6	6	7	7	40	40	42	47	80
Flanget Bolt Size	20	20	20	20	20	20	20	20	20
Flanget Bolt Quantity	8	8	8	8	12	12	12	12	16

Dimensions

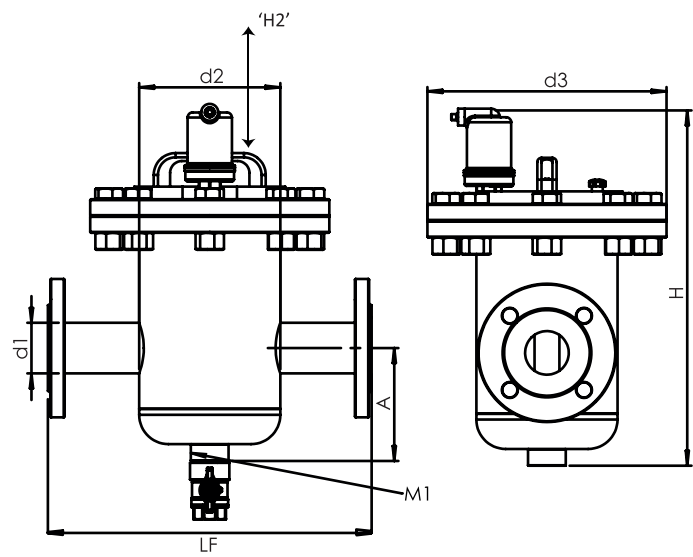
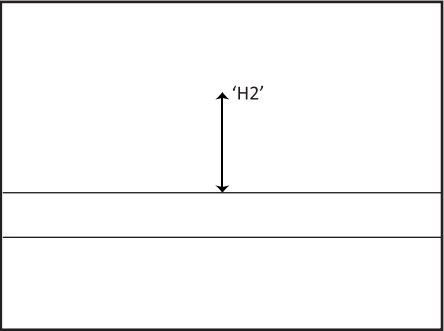


Figura 1

Figura 2

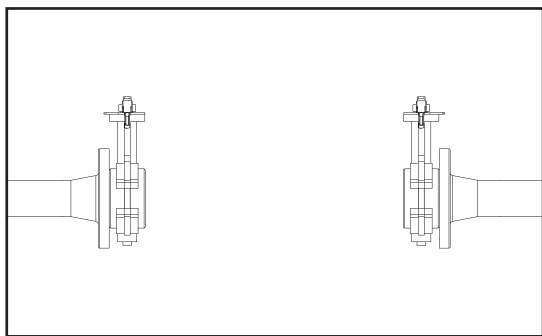
Model	d1	d2	d3	LF	H	A	M1	H2
VF-D DN50	60,3	168,3	285	380	419	135	1''	275
VF-D DN65	76,1	168,3	285	380	419	135	1''	275
VF-D DN80	88,9	168,3	285	380	469	170	1''	300
VF-D DN100	114,3	168,3	285	400	469	170	1''	315
VF-D DN125	114,3	323,9	460	635	654	261	2''	405
VF-D DN150	168,3	323,9	460	635	654	261	2''	405
VF-D DN200	219,1	323,9	460	635	684	288	2''	440
VF-D DN250	273	323,9	460	635	724	308	2''	475
VF-D DN300	323,9	400	580	735	793	354	2''	530

1.



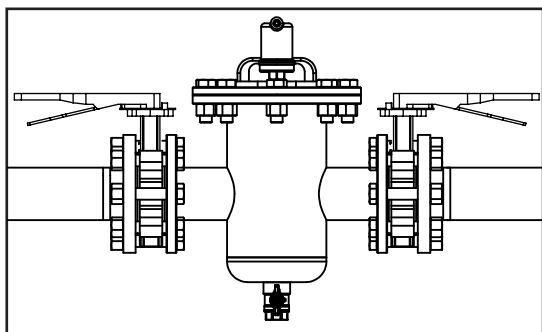
Identify a suitable location for installation, typically on the main heating or chilled return circuit. Refer to measurement 'H2' in the measurements table on page 2 to identify the amount of clearance required to service the filter being installed. Where possible, ensure there is a minimum of 600mm clearance all around the filter to allow for easy access when servicing.

2.



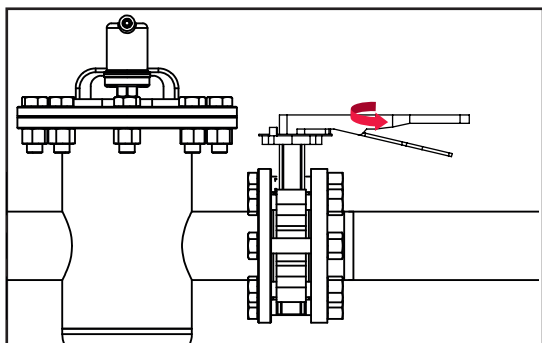
Refer to Measurement 'LF' in the measurements table on page 2 to identify the correct length of pipework to be removed for the filter size being fitted. Mark and then cut the correct length of pipe section to be removed to accommodate the filter unit, isolation valves and flange gaskets. Ensure the pipe cut is level and burr-free. Refer to Fig.1 & Fig.2 on page 2 to identify the flange dimension and specification for the filter being installed and install appropriate PN16 flanges & isolation valves.

3.



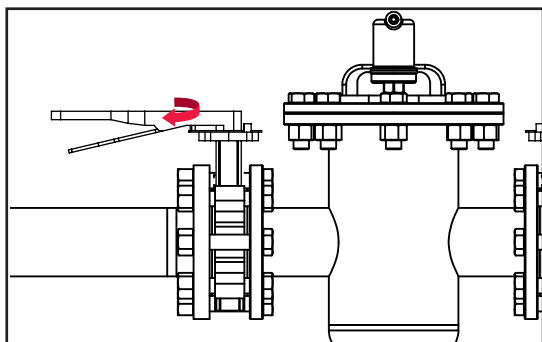
Carefully position the V-Force Commercial filter in place and then align and secure the fittings to connect the unit securely to the isolation valves. **OPTIONAL:** Connect a drain valve and pipe to the 1/4" drain port for filter servicing – **NOT INCLUDED**.

4.



Open the isolation valve farthest away from the manual air vent

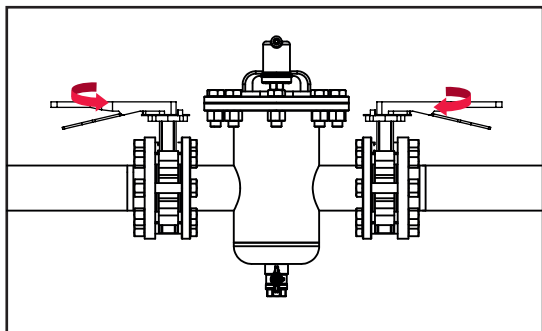
5.



Open the other isolation valve and turn on the heating or chilled system.

Run the system at normal operating parameters and check filter installation integrity.

1.

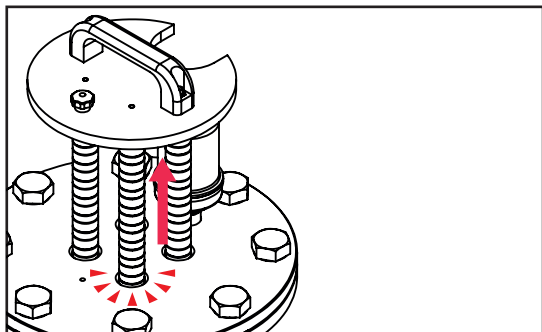


Isolate the heating or chilled system prior to commencing any servicing or maintenance activity.

- Close the filter isolation valves.

Please ensure any excess water spill is removed from the filter lid to prevent the magnets from getting wet and to remove the potential for water to enter the magnet dry pockets during servicing.

2.



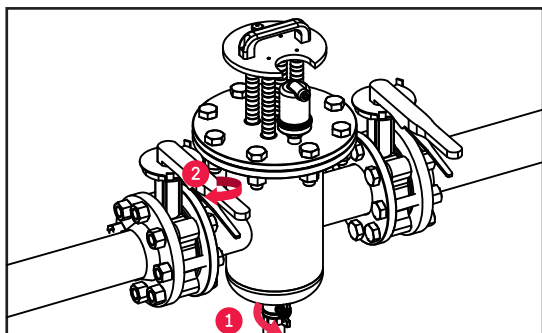
Each magnet assembly must be moved into 'service mode' so that all magnetic debris can be removed from the filter body.

- Lift the magnet until it 'clicks' into its service position.

CAUTION: These magnets are very strong. During this operation, do not completely remove the magnets from the filter lid. Should an entire magnet be removed by mistake, please be aware of the potential for finger/hand trap between magnet assemblies which could result in personal injury.

IMPORTANT: During servicing, magnets must be kept dry at all times. Water should not be allowed to enter the filter lid dry pockets where the magnets are housed under any circumstances.

3.

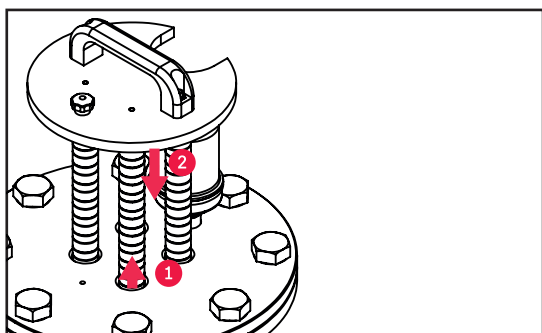


1. Open the drain valve or remove the drain plug.

2. Slowly open the **INLET** isolation valve by a quarter turn to purge the filter housing of magnetic debris. **DO NOT OPEN FULLY. DO NOT OPEN BOTH VALVES WHILST THE DRAIN PORT IS OPEN.**

Once the draining water starts to run clear, turn off the inlet isolation valve and allow the filter housing to fully drain. Close the drain valve or replace the drain plug.

4.

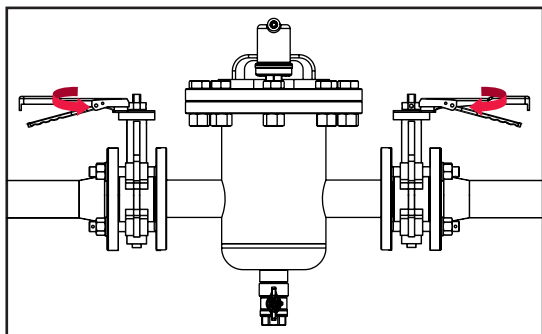


Once the filter has been cleaned, each magnet assembly must be moved back into 'operational mode' by pushing them back into the dry magnet pockets.

1. Lift and hold the grey magnet locking ring.
2. Slowly, begin to push the magnet assembly down.

Repeat this procedure for each magnet assembly.

5.



- Open both isolation valves and turn on the heating or chilled system.

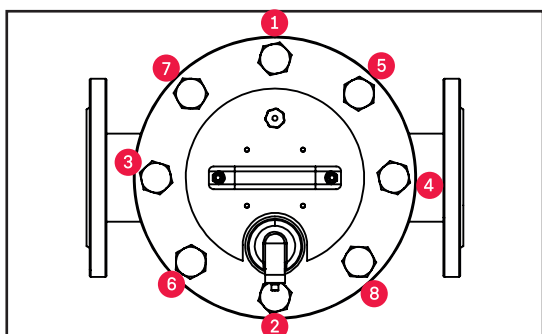
Ensure any excess water spill is removed from the filter lid. The automatic air vent system has been activated, ensuring complete evacuation of air from within the filter.

IMPORTANT: If the filter lid is disassembled and removed from the filter body as part of any general servicing or maintenance activity, we would always advise that the lid seal be replaced before returning the filter to normal operation.

To ensure that the filter lid is re-installed to the original factory settings, please refer to page 5 of this booklet for a step-by-step guide explaining how to re-install the filter lid.

If any seals are lost or appear damaged, please contact ViRA Customer Services in the TR on +90 212 549 57 70 to order replacement seals immediately.

6.



If the filter lid is removed as part of any general servicing or maintenance activity, the following re-installation sequence must be followed to ensure a uniform, consistent seal is created and maintained between the filter lid and the filter body:

A. With a new lid seal in place and the filter lid positioned correctly onto the filter body, finger tighten each lid nut.

B. Each filter lid nut should then be tightened following the numbered sequence shown above.

C. The nuts should be tightened in sequence and in three stages, up to a maximum of 65 Nm using a torque wrench:

- a. First stage: tighten to 20 Nm
- b. Second stage: tighten to 40 Nm
- c. Third stage: tighten to 65 Nm

IMPORTANT: Failure to follow this process may result in damage to the lid seal and/or improper product functionality which may result in water leakage from the filter.

The manufacturer reserves the right to make change without prior notification.

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VİRA ISI VE ENDÜSTRİYEL ÜRÜNLER A.Ş

Metal İş Sanayi Sitesi 11.Blok No:37-39 İkitelli/İstanbul
Tel: +90 212 549 57 70 Fax: +90 212 549 58 48

www.viraisi.com

info@viraisi.com