VF..
VFT..
VFH..

Ed. 0619

GB

Butterfly valves

for regulation and control of gas flow and air flow in combustion processes

Installation and Service Instructions

To assure a proper and safe operation, as well as a long life of the valve, the installation procedure and a periodical servicing are very important topics.
Read carefully and keep in a safe place.

This control must be installed in compliance with the rules in force.
All works must be executed by qualified technicians only.

IMPORTANT: before proceeding with the installation, ensure that all the features of your system comply with the specifications of the valve (connections, media type, operating pressure, flow rate, temperature range, electrical voltage, etc.).

requirements of Gas Appliances Regulation (EU) 2016/426 - Tested and certified according to EN 13611.

a brand name of

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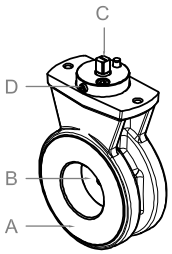
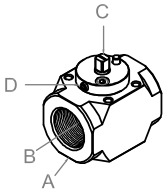
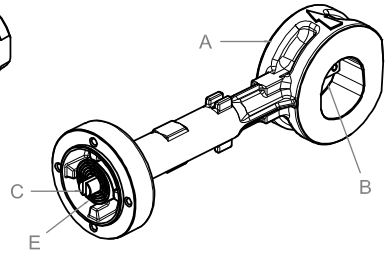
VF type



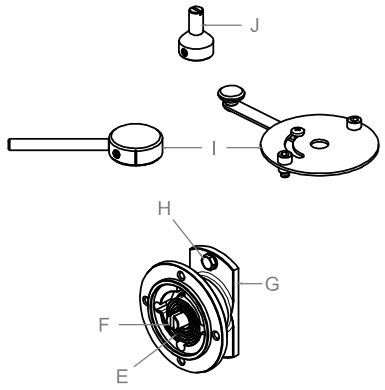
VFT type



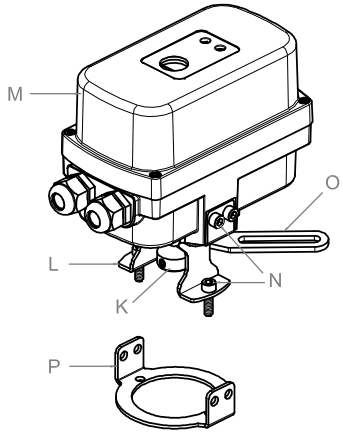
VFH type



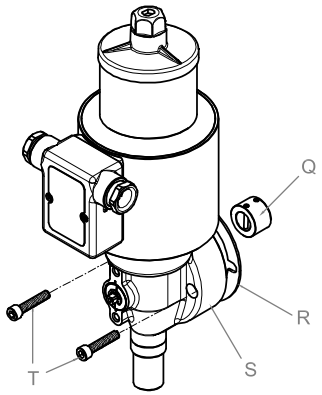
Accessories



Servomotor MZ..



Solenoid Actuator S..



A - Valve housing
B - Valve disc
C - Driving shaft
D - Locking screw
E - Spiral spring
F - Driving coupling (S..)
G - Solenoid adapting flange (VF,VFT)
H - Hex screws with washers (VF,VFT)
I - Manual lever with locking
J - Round shaft (VF,VFT)
K - Driving coupling (MZ..)
L - Steel flasks (VF,VFT+MZ..)
M - Servomotor
N - Socket head screws (MZ..)
O - Lever (MZ..)
P - Steel flasks (VFH+MZ..)
Q - Floating coupling (S..)
R - Gasket
S - Solenoid actuator
T - Socket head screws (S..)

TECHNICAL DATA

Connections:

VF between two flanges EN 1092
VFT parallel internal threads ISO 7-1
VFH between two flanges EN 1092

Media type:
VF,VFT air and non-aggres. gases up to 60°C
air up to 200°C (R version)
VFH air and flue gas up to 250°C
with dissipation plates up to 450°C

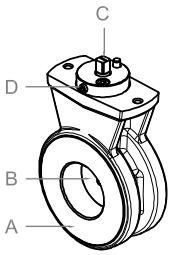
Operating pressure: VF 0..500 mBar
VFT 0..500 mBar
VFH 0..150 mBar

Ambient temperature: -15°C..+60°C

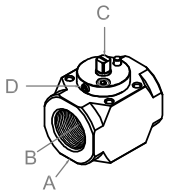
Driving systems and actuators:

VF,VFT	VFH	
●	X	- square shaft □8
●	X	- round shaft Ø10
●	●	- manual lever
●	●	- solenoid SR/SL/ST
●	●	- servomotor MZ
●	X	- servomotor MZ with lever

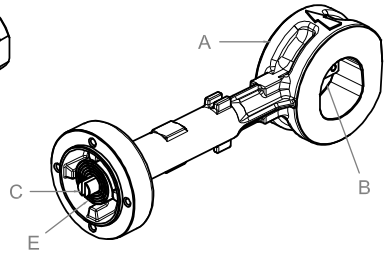
VF type



VFT type



VFH type



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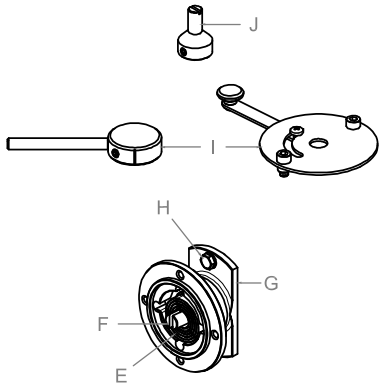
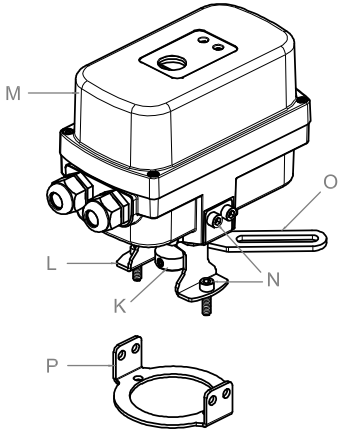


Servomotor MZ..



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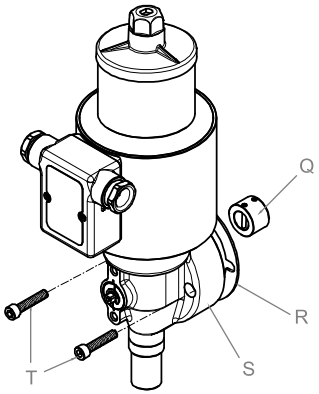

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Flow factor Kvs [m3/h]	Rp3/4	Rp1	Rp1¼	DN40-Rp1½	DN50-Rp2	DN65	DN80	DN100	DN125	DN150	DN200
VF, VFT	12.5	29	63	90	167	281	405	792	1132	1696	-
VFH	-	-	-	60	120	160	260	570	810	1250	2050

CAUTION: Shut off the air/gas supply at the main manual shut-off valve and disconnect electrical power to the valve before proceeding installation or servicing.

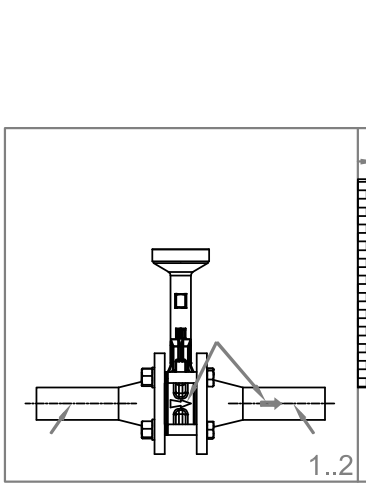
INSTALLATION (1..10)

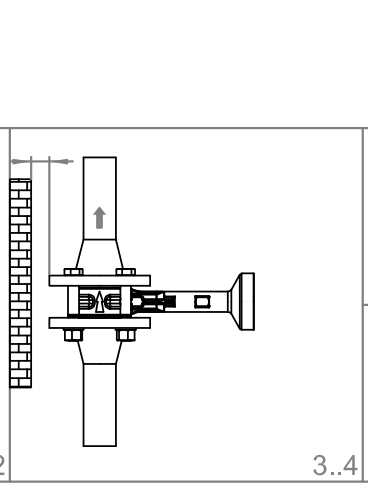
1➔ Check correspondence of flow direction with arrow printed on valve body (VFH only).
2➔ Check correct alignment of connecting pipes. Consider that butterfly disc can exceed the valve body.
3➔ Valve may be mounted on horizontal or vertical pipes (flow direction must be from bottom to top).
4➔ Do not install the valve in touch with walls or other devices.
5➔ Avoid excessive quantities of sealing agent which could enter in the valve.
6➔ Use proper tools only and avoid overtightening.
7➔ Insert the screws inside the inferior flange holes and rest the valve on them.
Put the gaskets between flanges and valve.
8➔ Insert all screws, the washers and nuts.
Screw the nuts tightening them crosswise and using proper tools only.
Avoid overtightening.
9➔ Perform leak and functional tests after mounting (max. testing pressure 1.5 Pmax).
Leak test can only be made on VF and VFT type valve. VFH is not tight

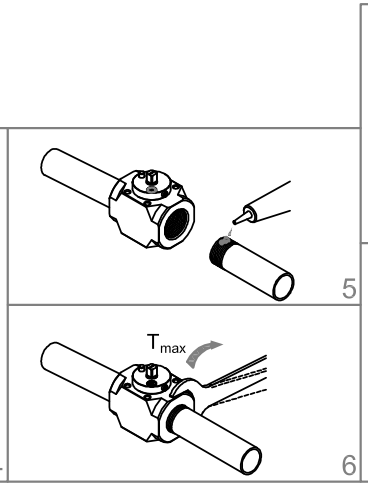
CAUTION: VF and VFT type valves are not intended to shut off the gas flow. Tightness is tested for external leakage only.
VFH type are not leak-proof valves.

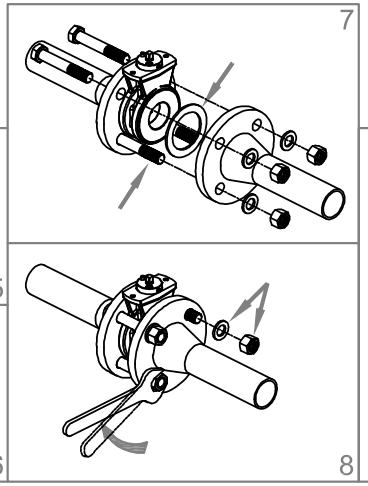
Hot air operation (VFH):

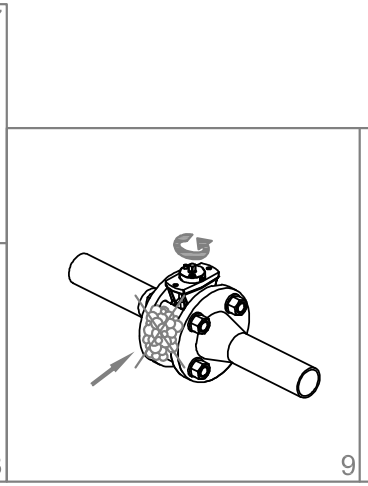
10➔ If T>250℃ install heat dissipators and check the heat resistance of the gaskets.
Do not insulate the valve and actuator.

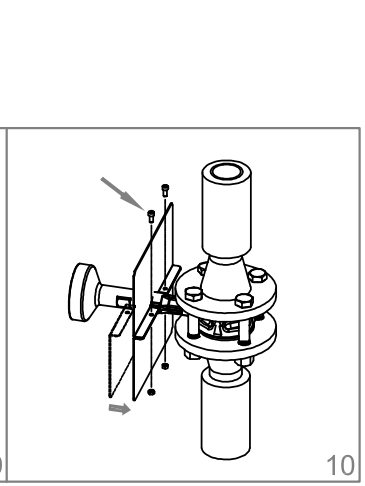












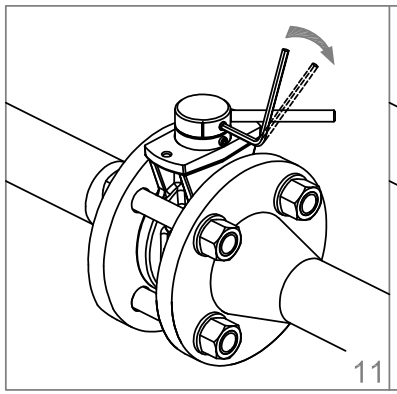
ACCESSORIES INSTALLATION (11..13)

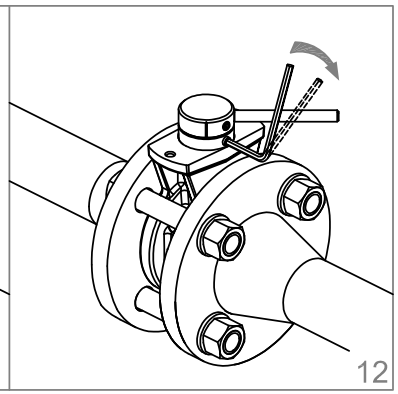
11➔ The valves can be operated manually using a lever. Insert the lever on the driving shaft and lock it using an Allen key.

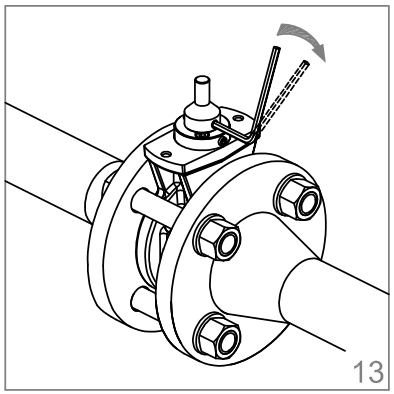
12➔ The valves are provided with a stop screw to lock the disc position after the flow adjustment has been carried out.

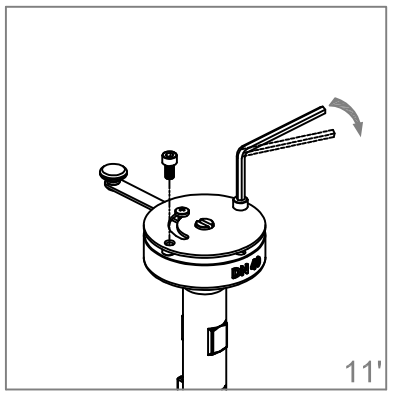
13➔ To connect other actuators different from S.. and MZ, a round coupling can be mounted and locked by a screw.

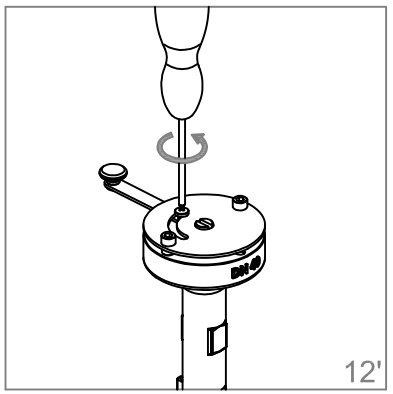
To connect S.. or MZ actuators, see their own instructions sheets.











MAINTENANCE AND SERVICE

The VF,VFT and VFH butterfly valves need little maintenance:

➔ Perform a function check once a year.

➔ Depending on the media pollution, perform the disc cleaning.

➔ If the valve is used with gas, perform leak tests after remounting.

➔ Recommended service life: 10 years
(see date of manufacture on the label: wwyy)

Manufacturer reserves the right to update or make technical changes without prior notice.