

FIP twin butterfly valve with NedValve

FIP / NedValve



Based on the FIP-FE butterfly valves, Netafim has put together a number of butterfly valves for pre-mixing water flows, e.g. rain or ditch water with decontaminated drain water as EC pre-regulation.

The mixing control consists of several separate FIP butterfly valves. This can be 2 but also 3 or more FIP butterfly valves. These FIP butterfly valves, ranging from 75 mm up to 315 mm, may have the same or different diameters and can be installed anywhere in the system. A separate NedValve actuator is mounted on all FIP butterfly valves in this mixing control. The valves in this mixing control are no longer mechanically connected but electronically and communicate with each other through analogue output of the NedValve actuator. This accurate position indication of the valves is processed in the horticultural computer or separate PLC to determine the position of the other valves and thus resulting in the correct mixing control. The great advantage being the valves no longer have to be installed next to each other, but offering complete freedom in the installation.

In addition to the mixing function, the valves can of course also act individually as shut-off valves. Via the control of the horticultural computer and/or manual operation via a control panel, the valves can be opened or closed separately from each other, excluding the mixing control. This, for example, to isolate the watering unit, pumps and/or silos in order to be able to carry out maintenance. As a result, several additional manual valves can be omitted in the system, resulting in considerable cost savings (especially with large diameters).

The NedValve actuator provides feedback on the valve position via analog output of 4-20 mA. The motor is provided with a polymer water- and dustproof housing, protection class IP67. NedValve's electrical control is different from most actuators on the market. For this we recommend that you consult the general technical information for NedValve, which also includes the connection diagram (type B3 4-20 mA). A big advantage is the compact actuator of 110 or 200 Nm, being able to drive a FIP butterfly valve up to 315 mm with a run time of maximum 130 sec. / °90.

The actuators are ISO standardized, which makes it possible to mount on an ISO standard butterfly valve, without having to use adapters.

APPLICATIONS

Separate mixing control with butterfly valves are used when accurately mixing two different water streams where the piping is not necessarily adjacent

CHARACTERISTICS

- ✔ Non-location-specific installation
- ✔ Substantial savings on manual valves
- ✔ All butterfly valves in the control driven by a NedValve actuator, type SLS110 and/or SLS200
- ✔ Manual control on the actuator, via panel or horticultural computer

TECHNICAL DATA

Valve size	: 75 mm to 315 mm
Actuator	: NedValve SLS110 (75 mm to 125 mm) NedValve SLS200 (160 mm to 315 mm)
Cabling	: Wirebox
Control	: 24 VAC/DC 50/60 Hz
Feedback	: 4-20 mA

INSTALLATION & MAINTENANCE

- ✔ Read the enclosed quick guide before installation.
- ✔ The position indicator of the motor shows the position of the butterfly valve on which the indicator is mounted.
- ✔ The butterfly valve must be mounted tension-free.
- ✔ Netafim offers training for design and installation with the NedValve. Please contact your account manager or the technical team for more information.