

## Flushing Valve for Pump Sumps

### FV 25 / FV 50

#### Application

The new HOMA flushing valve prevents the building up of grease and solids in pump sumps. It is an easy and effective alternative to regular mechanical desludging, and reduces not only downtime but also operational cost of submersible pump stations.

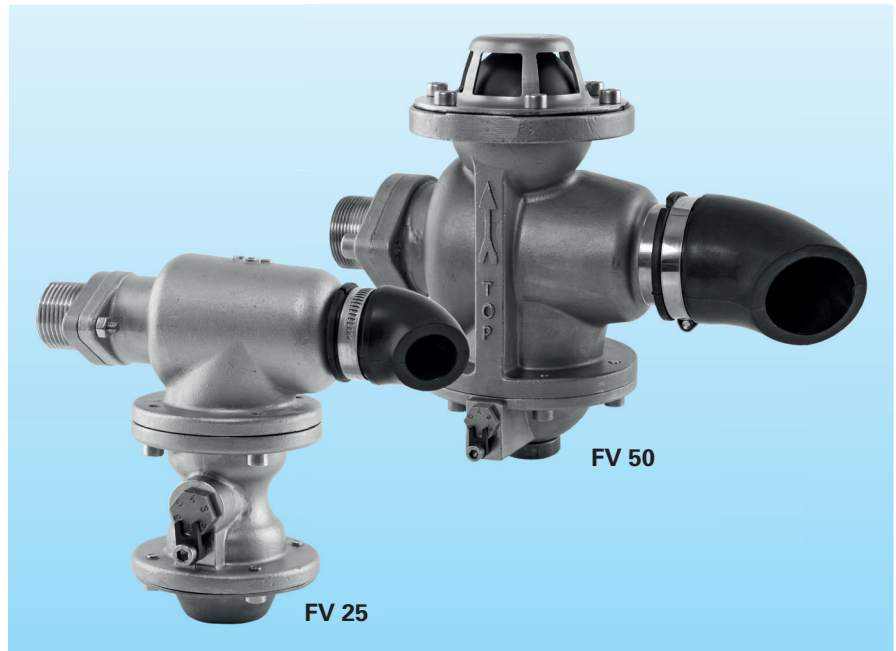
#### Function

Every time the pump starts, the valve is opened and a part of the pumped liquid is blown through a jet nozzle into the sump, flushing all solids into suspension, so that they are pumped away within the pumping cycle. The jet nozzle can be alternatively directed either towards the sump bottom to prevent sedimentation, or towards the upper liquid level to prevent the building up of a scum layer at the top of liquids with high grease contents.

#### Installation

The purge valve is fitted on the pump outlet between the pump flange and pump coupling (when installed with clutch system) or pipe (at floor installation of the pump). Depending on the nominal diameter of the pressure port appropriate for this adapter kits (DN 50 to DN 150) are available. For larger pumps, the purge valve can be mounted directly to the cleaning opening in the pump housing if present.

The purge valve works by exploiting the Venturi effect and by pressure differences. The valve requires no external drive or control units. The purging time can be set between 20 and 50 seconds individually. The sophisticated design also allows for easy replacement of consumable parts such as nozzle or ball seat.



Technical Data	Flushing valve FV 25	Flushing valve FV 50
Power	for pump stations up to 1.2m / 3.9 ft diameter	for pump stations with more than 1.2m / 3.9 ft diameter
Medium temperature	max. 40°C / 104°F	max. 40°C / 104°F
pH-value	5-13	5-13
Weight	3.1 kg / 6.2 lb	11.2 kg / 19.8 lb
Flush time	recom. 20-50 sec.	recom. 30-50 sec.
min geodetic head	-	8,5 m
Discharge	G 1"	G 1½"
Part No.	8500120	8500122

#### Materials

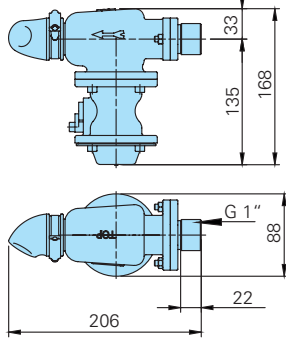
Housing	Stainless steel 1.4436
Adjusting screw	Brass
Diaphragm/ Jet nozzle	NBR
Ball seat	Stainless steel 1.4571
Ball	
FV 25	Ball bearing steel
FV 50	NBR with steel core
Oil	Food save

Adapter-Kits: See selection table on back

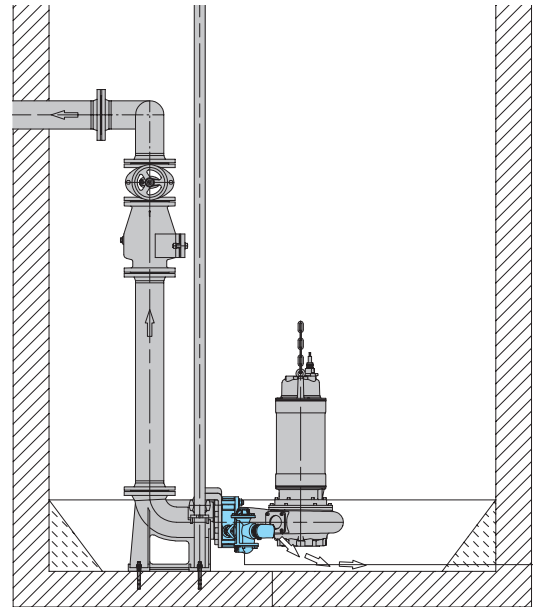
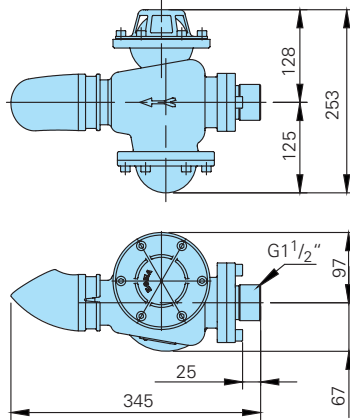
Adapter flange for direct connection to the pump housing: On request

## Dimensions and installations (all dimensions in mm)

Flushing valve FV 25



Flushing valve FV 50



## Selection Table

Pumpe type	Coupling system	Flushing valve	Adapter-Kit / Part. No. (for refitting)	Coupling system / Part.-No. (for new installation)
GRP 16 - 50	SKB pump station	FV 25	Collecting flange 7323121	Collecting flange 7323121
GRP 16 - 50	KK 50S/R2"	FV 25	Collecting flange 7323121	Coupling system 8604008.51
GRP 16 - 50	KKR 50S/R2"	FV 25	Collecting flange 7323121	Coupling system 8604009.51
GRP 16 - 50	KKR 50S-1/R2"	FV 25	Collecting flange 7323131	Coupling system 8604018.51
GRP 56 - 111	KK 50/50	FV 25	Adapter DN50 - G1" 7325441	Adapter DN50 - G1" 7325441
MXS13	KK(R) 80/80	FV 50		Direct connection on pump housing
MXS13	KK(R) 80/100	FV 50		Direct connection on pump housing
V13 / VX13 / MX13	KK(R) 80/80	FV 50	Adapter DN80 - G1 1/2" 7325451	Adapter DN80 - G1 1/2" 7325451 with 45° connecting bend
V13 / VX13 / MX13	KK(R) 100/80	FV 50	Adapter DN80 - G1 1/2" 7325451	Adapter DN80 - G1 1/2" 7325451 with 45° connecting bend
MXS23 / MXS24	KK(R) 100/100	FV 50		Direct connection on pump housing
MXS23 / MXS24	KK(R) 150/100	FV 50		Direct connection on pump housing
V23 / VX23 / MX23	KK(R) 100/100	FV 50	Adapter DN100 - G1 1/2" 7325461	Adapter DN100 - G1 1/2" 7325461 with 45° connecting bend
V23 / VX23 / MX23	KK(R) 150/100	FV 50	Adapter DN100 - G1 1/2" 7325461	Adapter DN100 - G1 1/2" 7325461 with 45° connecting bend
VX24 / MX24	KK(R) 100/100	FV 50	Adapter DN100 - G1 1/2" 7325461	Adapter DN100 - G1 1/2" 7325461 with 45° connecting bend
VX24 / MX24	KK(R) 150/100	FV 50	Adapter DN100 - G1 1/2" 7325461	Adapter DN100 - G1 1/2" 7325461 with 45° connecting bend
K33 / VX34 / MX34	KK(R) 150/150	FV 50	Adapter DN150 - G1 1/2" 7325471	Adapter DN150 - G1 1/2" 7325471 with 45° connecting bend
K33 / VX34 / MX34	KK(R) 200/150	FV 50	Adapter DN150 - G1 1/2" 7325471	Adapter DN150 - G1 1/2" 7325471 with 45° connecting bend



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