ERHARD VALVES

Поплавковые клапаны серии SVP4

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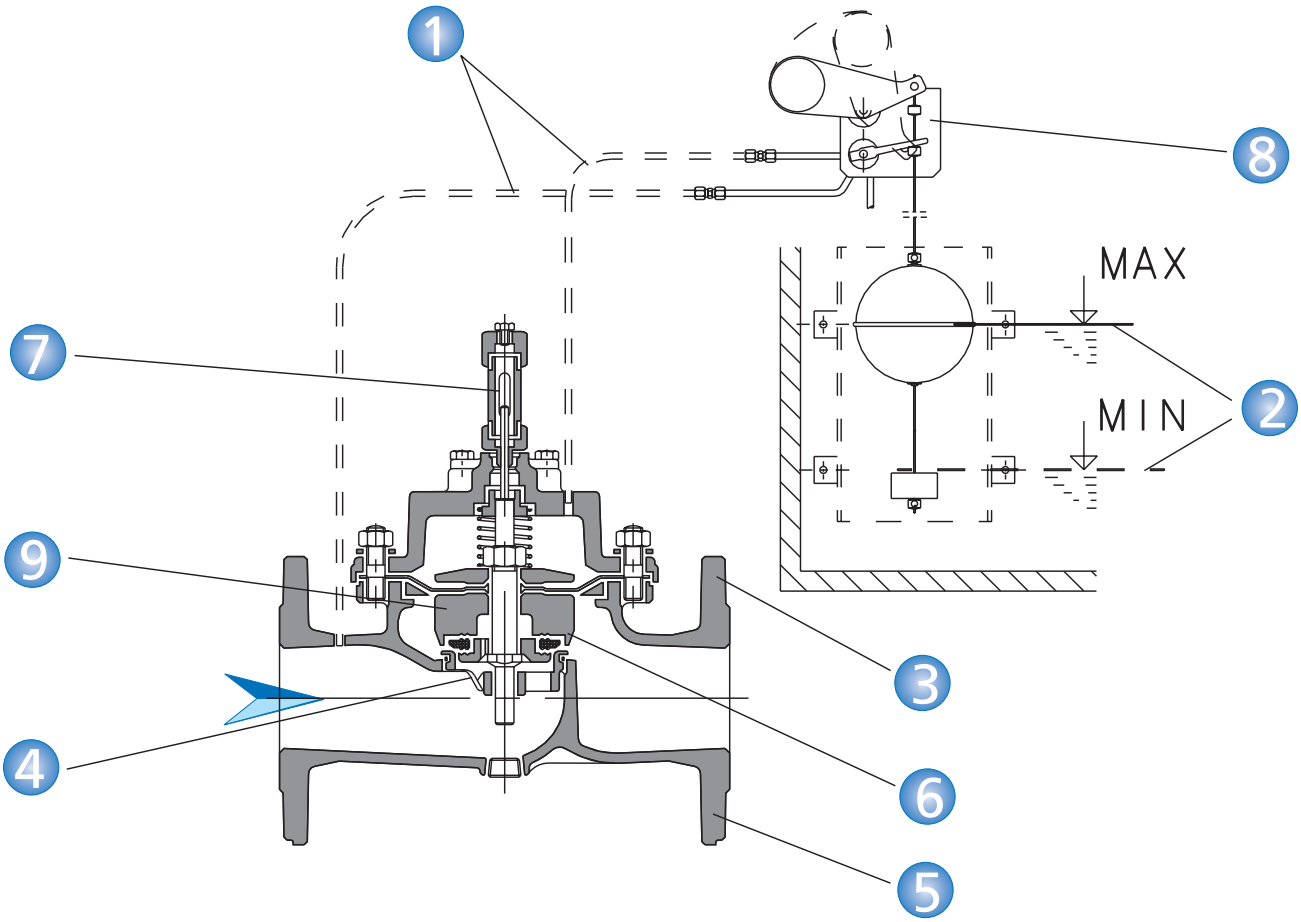
Единый адрес для всех регионов: edf@nt-rt.ru || www.erhard.nt-rt.ru

ERHARD Float Valves SVP:
Quality and Reliability



ERHARD Performance		Your Advantage
Flow operated.	1	Operating safety, no energy supply needed.
Large range of setting water levels: 50 - 4000 mm.	2	Field approved.
High quality materials: body of SG ductile cast iron Internal and external EKB epoxy coating.	3	Robust and reliable. High strength, long life. Efficient surface protection.
Seat not subject to cavitation.	4	No wear and tear.
Exclusive On-Off valve	5	No risk of damages due to cavitation.
All internal parts accessible from above. Maintenance of pilot system without breaking supply.	6	Easy maintenance.
Position identified at a glance. Pressure gauge with isolating valve.	7	Easy operation.
Float control easily mounted.	8	Easy installation.
Adjustable closing velocity.	9	Water hammer control.

Performance

The pilot controlled **ERHARD** Float Valve is composed of main valve and pilot system. The main valve consists of: body, cover, plug with guide, diaphragm, and position indicator.

Upstream pressure acts on chamber „A“.
Downstream pressure acts on chamber „B“.
Control pressure acts on chamber „C“.

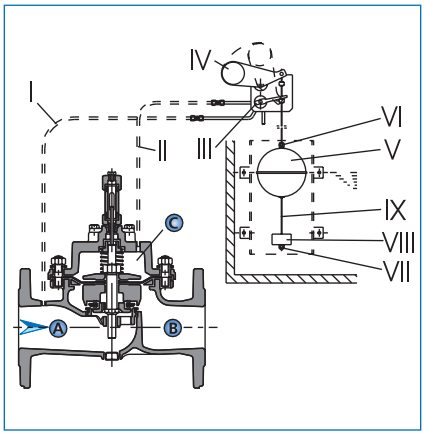
The pilot system includes: Upstream pipe branch **I**, pilot pressure line **II**, 3/2-way pilot valve **III**, counterweight **IV**, float **V**, two adjustable stops **VI** and **VII**, weight **VIII**, float cable **IX**, throttle valve and manually operated valve.

These Float Valves maintain adjustable minimum and maximum water levels in a reservoir.

When the water level in the reservoir rises, the float guided by the control cable slides upwards to the upper stop. The buoyancy of the float lifts the cable with the weight and the counterweight switches the 3/2-way valve. The upstream main is now connected with the pilot pressure line. The upstream pressure in chamber „C“ closes the main valve tightly.

With a decrease of water level in the reservoir, the float guided by the float cable slides downwards. The main valve remains closed until the float reaches the lower stop (minimum level). The additional float weight causes the counterweight to rise and to switch the 3/2-way valve. Now, chamber „C“ is connected to the ambient pressure via the pilot pressure line. This pressure relief causes the main valve to open completely.

The main valve operates within the range of the stops as On-Off Valve. Intermediate positions are not possible. The difference between the top and bottom water levels is adjustable from 50 mm to 4000 mm with an accuracy of ± 20 mm.



Sizing

The valve is not sized to the pipeline diameter but in accordance with maximum flow conditions and installation situation.

For an optimum sizing of the valve, we recommend a flow velocity of v = 2 - 2,5 m/s (see flow table).

Recommended flow rate in l/s (m³/h)

DN	50	65	80	100	125	150	200
V = 2,5 m/s	5 (18)	8,5 (30)	12,5 (45)	19,5 (70)	31 (111)	44 (158)	78,5 (283)

In exceptional cases, flow velocities of 4 m/s are admissible. Additional functions as flow limitation and sustaining the upstream pressure are possible. Please contact us.

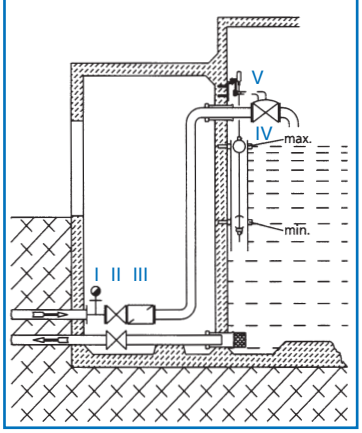
Recommended Installations

Feeding the reservoir can be done either from above or from below. When feeding is done from below, the upstream pressure (Pu) has to be as follows:
Pu > H + 0.5 bar.
For feeding from above:
Pu > 0.5 bar.

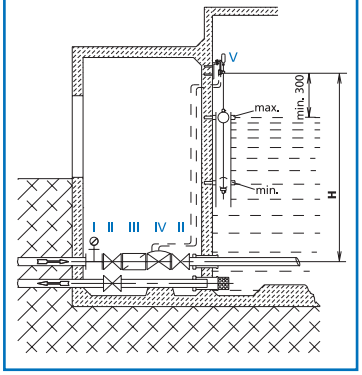
I Air Valve
II Isolating Valve
III Strainer: max. mesh size 2 mm
IV **ERHARD**-Float Valve
V 3/2-way Pilot Valve

Feeding from above

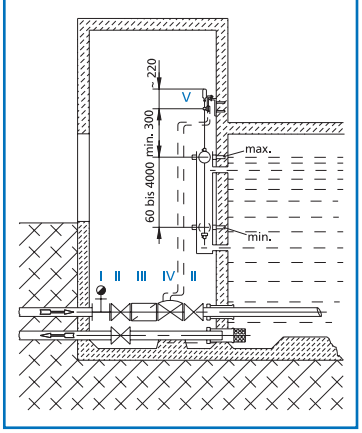
At the outlet of the valve we recommended to install a 90° elbow the outlet of which ends above the water surface.



Feeding from below Float control inside the reservoir



Feeding from below Float control outside the reservoir



ERHARD Float Valve SVP PN 10/16

pilot controlled On-Off valve

6020 5400
6021 5400

Range of application: water max. 70° C

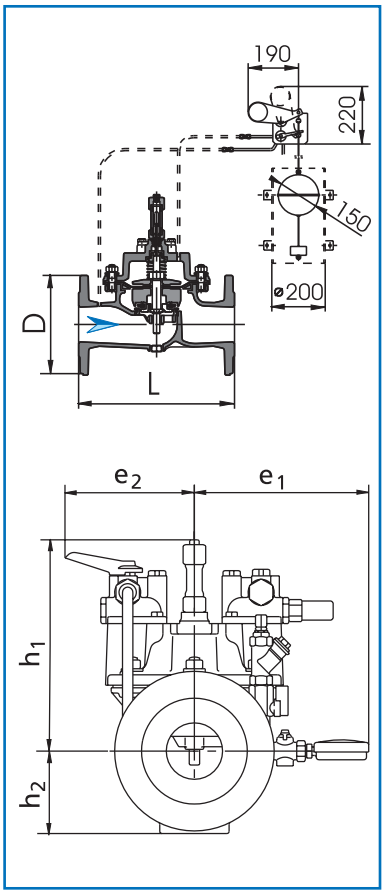
Size **DN**	Pressure rating **PN**	Prod. no.
200 50 - 200 250 - 600	10 16 upon request	6020 5400 6021 5400

When placing the order, please specify max. flow rate, max. static pressure when the valve is closed, minimum pressure upstream of the valve at max. flow rate, the minimum and maximum pressure downstream of the valve.

Flanges type B..., connecting dimensions to ISO 7005-2 Type 21, PN 16 or PN 10.

Material and Equipment

Surface protection	**EKB** epoxy coating, blue
Body and cover	SG ductile cast iron to EN-JS 1040
Plug/clamping ring	Injected cast iron / bronze
Body seat and guide	Bronze
Sealing ring	EPDM
Diaphragm	Neoprene with fabric ply
Guide rod and screws	Stainless steel
Position indicator	Stainless steel / brass
Pilot circuit, fittings, and ball valve	Stainless steel / brass, nickel-plated
3/2-way pilot valve, manual valve[3)]	Brass
Throttle valve[4)], filter	Brass / Stainless steel
Float dia. 150, float cable, brackets	Plastic / Stainless steel
Brackets for stilling tube dia. 200	Stainless steel
Pressure gauge with isolating valve	Upstream



Stilling tube (PVC rigid dia. 200) and the copper tubes (dia. 8 x 1) for pilot circuit are not included in our supply.

Dimensions

Size **DN**	Face-to face dimension L mm	Flange dia. D mm	Height h1 mm	 h2 mm	Space requirement e1 mm	 e2 mm	Weight ca. kg	Packing dimensions l x b x h cm
50	230	165	225	85	220	135	17	70 x 40 x 40
65	290	185	245	95	205	150	23	70 x 40 x 40
80	310	200	265	105	210	155	28	70 x 40 x 40
100	350	220	290	115	170	220	36	70 x 40 x 40
125	400	250	385	130	220	170	49	80 x 50 x 40
150	480	285	430	145	235	185	73	80 x 50 x 40
200	600	340	730	175	215	215	116	90 x 50 x 70
250-600 on request								

3) This manual valve facilitates opening and closing the float valve independent of the pilot unit.
4) By means of the throttle valve, the opening time of the main valve can be controlled within a certain range.

ERHARD Float Valve with upstream pressure sustaining device. ERHARD Float Valve with flow limiting device. Prices upon request.

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Ваш выбор в мире арматуры

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