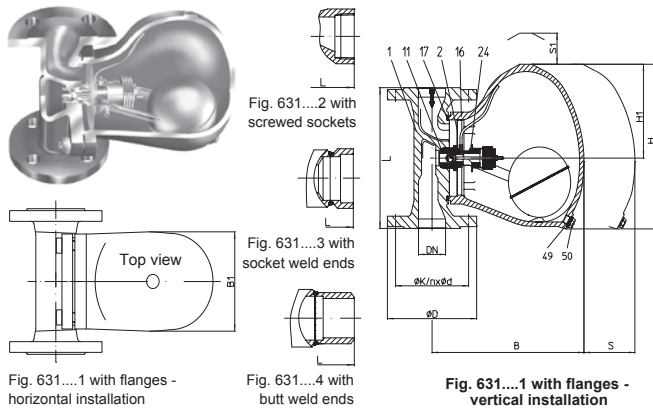


**Ball Float Steam Trap PN16 /PN40 - DN15-100**

**Fig. 631**



- Ball float steam trap with level control for the condensate-discharge from all kinds of steam systems
- Rapid system start-up due to thermostatic control element
- Standard installation position: - vertical
- Optional installation position: - horizontal with inlet from right or left (Please indicate when ordering).
- Inside strainer
- Body with flanged hood
- Non return protection
- The controller maybe changed without disturbing the pipe work
- On-site change of the installation position is possible according to the operating instructions
- Options: -Air vent - (Pos. 51) or blow down valve (Pos. 46), manual operated

**Dimensions**

Dimensions and Weights		Types of connection																	
		Flanges								Screwed sockets <sup>1)</sup>			Socket weld ends <sup>2)</sup>			Butt weld ends <sup>2)</sup>			
Nominal diameter	(mm) (inch)	15 1/2	20 3/4	25 1	40 1 1/2	50 2	65 <sup>2)</sup> 2 1/2	80 <sup>2)</sup> 3	100 <sup>2)</sup> 4	15 1/2	20 3/4	25 1	40 1 1/2	50 <sup>1)</sup> 2 <sup>1)</sup>	15 1/2	20 3/4	25 1	40 1 1/2	50 2
L*	(mm)	150	150	160	230	230	290	310	350	150	150	160	210	210 <sup>3)</sup>	160	160	160	250	250
H	(mm)	162	162	187	270	270	270	270	270	162	162	187	270	270	162	162	187	270	270
H1	(mm)	85	85	102	151	151	151	151	151	85	85	102	151	151	85	85	102	151	151
B (EN-JS1049)	(mm)	214	214	255	280	280	--	--	--	214	214	255	280	--	--	--	--	--	--
B (steel)	(mm)	214	214	255	280	280	280	280	280	167	167	196	285	285	167	167	196	285	285
B1	(mm)	95	95	118	157	157	157	157	157	95	95	118	157	157	95	95	118	157	157
S	(mm)	180	180	200	300	300	300	300	300	180	180	200	300	300	180	180	200	300	300
S1	(mm)	150	150	180	200	200	200	200	200	150	150	180	200	200	150	150	180	200	200
Weight approx.	(kg)	7.9	8.1	10.9	24.7	25.3	27.2	29.2	32.7	7.3	7.3	8.5	20	20.5	6.9	7.9	9	21	22

\* Face-to-face acc. to data sheet resp. customer request

**Material**

Pos.	Description	Fig. 12.631	Fig. 25.631
1	Body	EN-GJL-250, EN-JL1040	EN-GJS-400-18U-LT, EN-JS1049
2	Strainer	X5CrNi18-10, 1.4301	
11	Sealing ring*	R-Cu99	X6CrNiTi18-10, 1.4541
16	Hood	EN-GJL-250, EN-JL1040	EN-GJS-400-18U-LT, EN-JS1049
17	Gasket*	Graphite (CrNi laminated with graphite)	
24	Controller*	TB 102 / 85 (corrosion resistant bimetal)	
27	Cheese head screw	X6CrNiTi18-10, 1.4541 / 8.8	21CrMoV 5-7, 1.7709
46	Blow down valve, cpl.*	X8CrNiS18-9, 1.4305	
49	Sealing ring*	R-Cu99	X6CrNiTi18-10, 1.4541
50	Plug (M14x1,5)*	C35E, 1.1181	21CrMoV 5-7, 1.7709
51	Manual air vent valve*	X8CrNiS18-9, 1.4305	

\* Spare part

**Types of Connection**

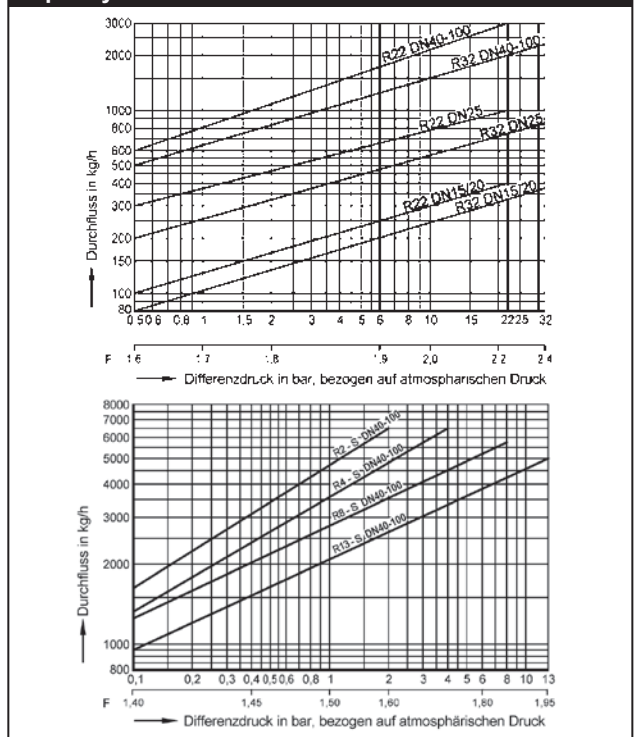
<b>Flanges ....1</b>	PN16 / PN40 acc. to DIN 2501
<b>Screwed sockets ....2</b>	Rp- and NPT-thread acc. to DIN EN 10226-1
<b>Socket weld ends ....3</b>	acc. to DIN EN 12760
<b>Butt weld ends ....4</b>	acc. to DIN EN 12627

Other types of connection on request.

**Operating limits**

	Fig. 12.631 PN16 Body/Hood: EN-JL1040				Fig. 25.631 PN40 Body/Hood: EN-JS1049					
Operating pressure PS (bar-g)	12.8	9.6	32	22						
Operating temperature TS (°C)	200	300	250	350						
allowable differential pressure ΔPMX (bar):	2	4	8	13	2	4	8	13	22	32
for controller:	R2	R4	R8	R13	R2	R4	R8	R13	R22	R32
	R2-S	R4-S	R8-S	R13-S	R2-S	R4-S	R8-S	R13-S		

**Capacity Chart**



The capacity chart shows the maximum flow quantities of hot condensate for the different controllers and steam trap sizes. In common, the steam traps are fitted out with an controller as shown in the flow diagrams of this page acc. to the differential pressures and flow rates. For very large flow rates with low differential pressures, steam traps at sizes DN40 p to DN100 can be fitted out with a super-controller. The maximum flow quantity of cold condensate at about 20°C can be determined by multiplication of the appropriate factor F (in the scale below the diagrams) with the hot condensate quantity determined by the capacity chart. (Factor F is related to the differential pressure)

\*last updated 10/16