

Shut-off valve cast steel Series GL146



Design type	Shut-off valve, straight-through design with back seal and Stuffing box packing, metal-to-metal sealing, non-rising stem, external spindle thread, with bellows
Actuation	via steel handwheel
Connection	Flanges DN15...DN250 according to EN1092-1 PN40
Overall length	according to EN558-1R1
Materials	Housing GP240GH+N, Seat Stainless steel 1.4370, Cone and Spindle Stainless steel 1.4021, Handwheel Steel, Package Graphite
Application range	Fluids and gases of group 1 and 2 in accordance with PED 2014/68/EU that do not attack the materials used.
Medium temperature	-10...+400°C
Operating pressure	Operating pressure according to table, Pressure reduction factors see table
Mounting type	Installation in rigid piping system
Mounting position	any
Approvals	TA-Luft
Special versions	Control cone, Cone with soft seal, pressure-relieved poppet, ATEX on request

Pressure reduction factors

Temperature range	-10...+50°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C
Operating pressure	40	38,2	35,2	33,3	30,5	27,6	25,7	23,8

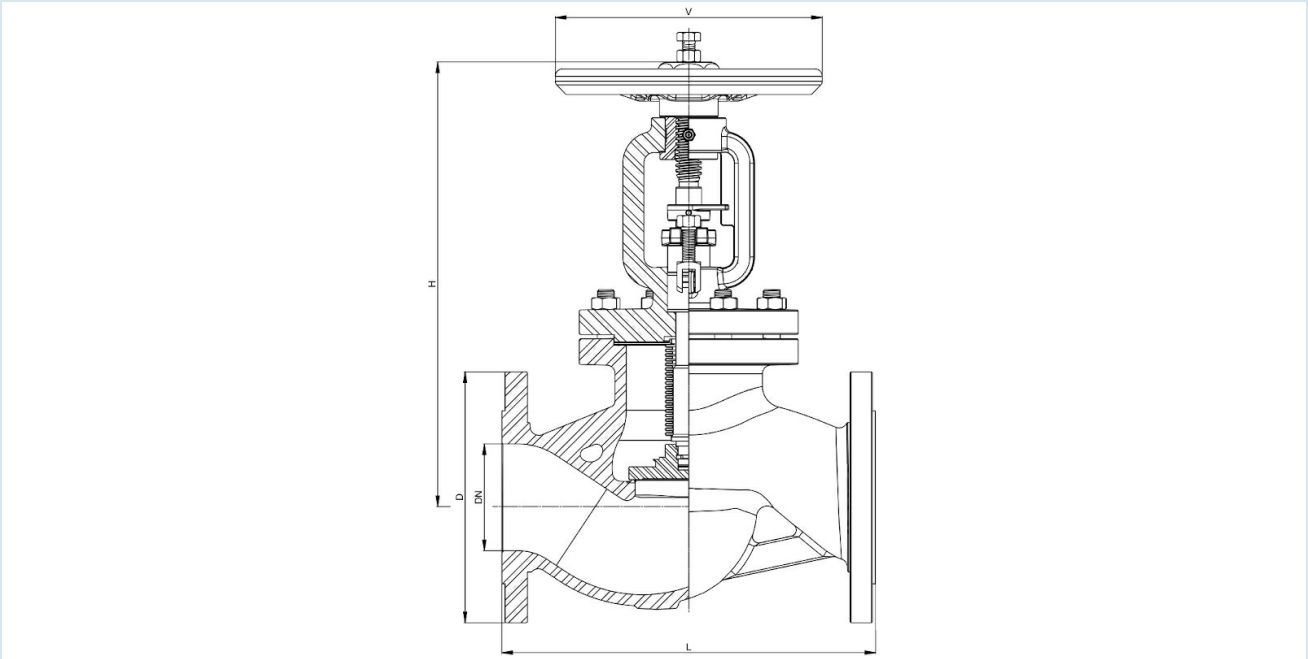
Intermediate values of the maximum operating pressures may be calculated by linear interpolation between the nearest lower and higher temperature values.

Kv value depending on the valve opening for Control cone [m³/h]

DN [mm]	15	20	25	32	40	50	65	80	100	125	150	200	250
20%	0,34	0,87	1,35	2,29	3,87	8,57	9,27	16,7	21,9	37,3	53,1	74,9	328,6
40%	1,03	1,84	2,92	4,71	7,53	14,8	18,7	32,1	42	63,3	113,4	148,7	576,2
60%	2,26	3,66	5,17	8,63	14	23,1	35,6	57,4	77,6	107,1	197,6	268,3	722,8
80%	3,4	5,69	7,95	13	20,6	32	56	83,6	121,7	160,2	262,1	392,1	807
100%	4,36	7,04	9,59	16	25,5	38	66,7	95,4	143,5	189,3	297,4	463,8	925,6



Dimensions



DN [mm]	PN [bar]	ØD	H	L	ØV	Kv value [m³/h]	Weight [approx. kg]	Type
15	40	95	235	130	125	4,8	4,4	GL146-15-W
20	40	105	235	150	125	7,6	5,3	GL146-20-W
25	40	115	245	160	125	12,2	6,7	GL146-25-W
32	40	140	245	180	125	17,5	8,8	GL146-32-W
40	40	150	275	200	150	27,8	11	GL146-40-W
50	40	165	275	230	150	44,3	13,5	GL146-50-W
65	40	185	375	290	200	81	26,5	GL146-65-W
80	40	200	375	310	200	115	31	GL146-80-W
100	40	235	410	350	250	184	46	GL146-100-W
125	30*	270	460	400	300	272	66	GL146-125-W
150	21*	300	520	480	350	383	98,5	GL146-150-W
200	14*	375	635	600	400	691	182	GL146-200-W
250	9*	450	785	730	500	1066	296,5	GL146-250-W

* for higher operating pressures use special version with pressure-relieved poppet cone

Illustrations non-binding
Design, dimensional and material changes reserved

Armatures / Valves, butterfly valves and gate valves - manually operated / Other materials - A04 / Globe valve Series GL146