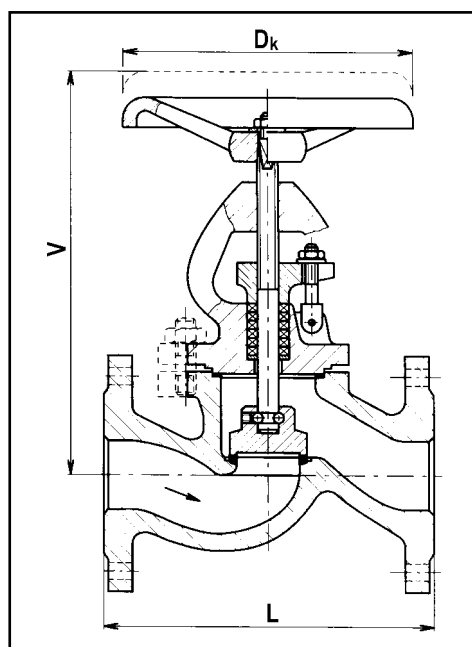
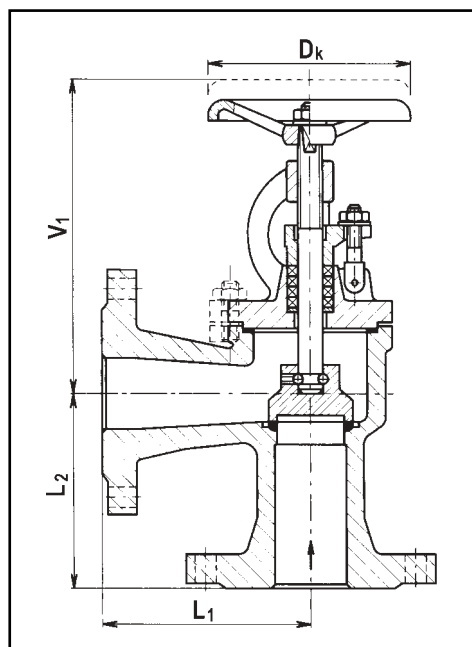


GLOBE VALVE



V30 111 540, V40 111 540



V30 211 540

APPLICATION

A closing or discharging organ for liquid and gaseous media. The working substance can be water, water steam, air and non-aggressive gases. The valve is as a regulating organ in basic executions unsuitable, in the execution with regulating cone is specified for a flow control.

Application:

- heat distributions
- refrigeration industry
- selected fields of chemical industry, petrochemistry
- food industry (in a stainless execution)

In the non-rusting execution you can request a corrosion resistance table owing to the practical use of individual fluids. The use for other working fluids it is possible after a consultation with the manufacturer.

TYPES / DN / PN TEMPERATURES / EXECUTION

V30 111 040	DN 15÷200	PN 40	-20 °C to 250 °C
V30 111 540	DN 15÷200	PN 40	-50 °C to 400 °C
V30 111 240	DN 15÷200	PN 40	-20 °C to 500 °C
V30 111 240	DN 15÷100	PN 40	-20 °C to 550 °C
V30 211 540	DN 15÷200	PN 40	-50 °C to 400 °C
V30 121 540	DN 15÷65	PN 40	-50 °C to 400 °C
V40 111 040	DN 15÷150	PN 40	-20 °C to 250 °C
V40 111 540	DN 15÷150	PN 40	-10 °C to 400 °C

The valves are manufactured in the ST, NT, VT executions.

REST

For a securing correct function of the valves V30 111 040, V40 111 540 and V40 111 040 the pressure gradient can be maximally:

DN	15÷100	125	150	200
Δp max [bar]	40	29	21	11

FUNCTION

V30 111 040, V30 111 240, V30 111 540, V30 211 540, V30 121 540

A spindle is of rotating and rising type. A cone performs the function of a valve closure. An opening of the valve has to perform slowly, with a gradual stopping on the lift, for the limitation of hydraulic and thermal impacts in the valve and in this way in a whole equipment. The internal bypass at the DN 125,200 serves for forming of the pressure gradient before and behind the valve in order that the valve could fully open. The bypass is not at a non-rusting execution.

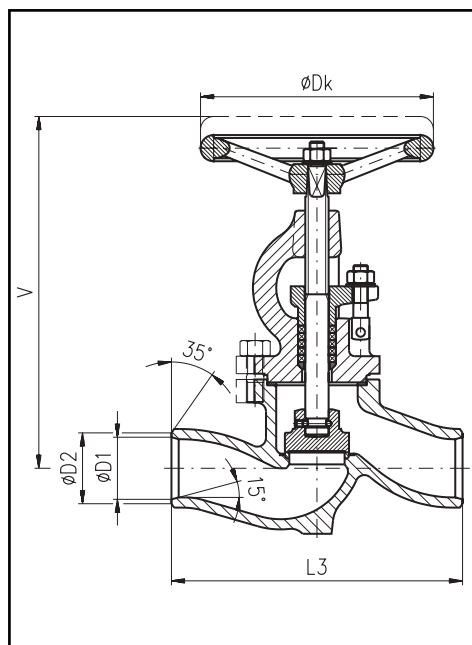
V40 111 040, V40 111 540

The spindle is rotating and rising type, the cone is the regulating cone. The valve is not the closing valve fittings, the closing valve fittings is inserted as a rule before it if there is required a full tightness of the equipment. A flow surface in a seat at the full valve opening is about 60% of an entry throat surface.

V30 111 540.53, V30 111 540.54

The spindle is rotating and rising type. The cone performs a function of the valve closure. The opening of the valve has to pass slowly, with a gradual stopping on the lift, for the purpose of the prevention of hydraulic and thermal shocks in the valve and in this way in the whole equipment. At the variant V30 111 540.53 a simple back closure is on the cone formed for a partial release of a stuffing box stress at the full opening. The back closure with the seat on the cone and also the yoke at the variant V30 111 540.54 is formed for the full release of the stuffing box at the full opening. The closure is tested for tightness.

GLOBE VALVE



V30 121 540

ADMISSIBLE PRESSURES AND TEMPERATURES

It is valid for the valves V30 111 240, V30 111 540, V30 211 540, V30 121 540, V40 111 540:

	DN	Temperature [°C]										
		-50	-20	-10	120	200	250	300	350	400	500	550
		Maximum working overpressure [bar]										
ČSN	15÷200	32	40	40	40	40	34,4	30,9	27,2	23,5	21,1	13,7
DIN	15÷200	-	-	40	40	35	32	28	24	21	-	-

It is valid for the valves V30 111 040 and V40 111 040:

DN	Temperature [°C]		
	-20	20	250
Maximum working overpressure [bar]			
15÷200	40	40	23

MATERIAL AND CONNECTION

	V30 111 040 V40 111 040	V30 111 240	V30 111 540	V30 211 540	V30 121 540	V40 111 540	V30 111 540.53 V30 111 540.54
Body, yoke	42 2942.4	42 2745 (550°C)	42 2643 42 2714 (-50°C) 1.0619 N			1.0619 N	
Body seat	CASTING BASIC MATERIAL	NON-RUSTING OVERLAY (WELD DEPOSIT)					
Cone	STAINLESS STEEL	DN15÷100 STAINLESS STEEL DN125÷200 CARBON STEEL					
Cone seat	CASTING BASIC MATERIAL	DN15÷100 CONE BASIC MATERIAL DN125÷200 NON-RUSTING OVERLAY (WELD DEPOSIT)					
Spindle	STAINLESS STEEL						
Packing	ASBESTOS-FREE						
Connection	ČSN		ČSN DIN			DIN	
Building lengths	According to the EN 558-1						

Note: Connecting flange dimensions see pages 114, 115.

DIMENSION TABLE

PN		40											
DN		15	20	25	32	40	50	65	80	100	125	150	200
D _k [mm]		125	125	125	160	200	200	250	250	315	315	315	400
L [mm]		130	150	160	180	200	230	290	310	350	400	480	600
L ₁ , L ₂ [mm]		90	95	100	105	115	125	145	155	175	200	225	275
L ₃ [mm]		130	150	160	180	200	230	290	-	-	-	-	-
D ₁ [mm]		16,8	21,7	26,6	37,2	40	51,2	69,6	-	-	-	-	-
D ₂ [mm]		19,8	24,7	29,6	40,2	43,0	54,2	72,6	-	-	-	-	-
V [mm]		170	195	200	235	275	275	345	355	415	490	545	680
V ₁ [mm]		170	195	200	235	250	250	320	335	385	445	545	655
m [kg]	V30 111 040	4,2	5,1	5,0	10	14	16,5	26	34	50	82	118	211
	V40 111 040	4,2	5,1	5,0	10	14	16,5	26	34	50	82	118	-
	V30 111 240, 540	4,0	5,3	5,7	10	13,3	15,3	25,2	32,2	50,5	78	104	198,0
	V40 111 540	4,0	5,3	5,7	10	13,3	15,3	25,2	32,2	50,5	78	104	-
	V30 211 540	4,5	6,0	7,2	11,1	14,1	17,4	25	33	51	79	97	190
	V30 121 540	2,9	3,15	3,2	6,8	9,3	10,7	22,2	-	-	-	-	-
Loss coefficient	V30	4,35	6,5	5,7	8,3	5,0	5,8	5,3	5,6	5,0	6,2	5,7	5,6
	V40	4,9	7,1	6,5	8,6	5,6	6,4	5,8	6,0	5,7	6,8	6,3	-