

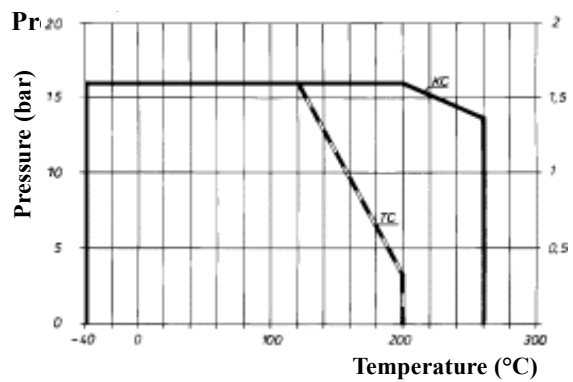
Fig 465 wafer pattern ball sector valve PN 40, PN25, PN16



Application

The Högfors Fig 465 ball sector control valve is specially design for the control applications of different media as liquits, pulps and steam.
The arrow on the body denotes the correct tightness direction according to ISO 5208.

Nominal pressure	PN 40	DN 25 ... 40
	PN 25	DN 50 ... 80
	PN 16	DN 100 ...
200		
Closing pressure difference	max.16 bar	
Operating temperature	KC	TC
	max	+260 °C +200 °C
	min	-40 °C -40 °C



Design

The Högfors Fig 465 wafer pattern ball sector valve is a reduced bore valve manufactured in stainless steel through-out with a hard chromed ball sector and stellite seat (PTFE is available as an option). The V-port gives an excellent control characteristic which is intermediate between linear and equal percentage.

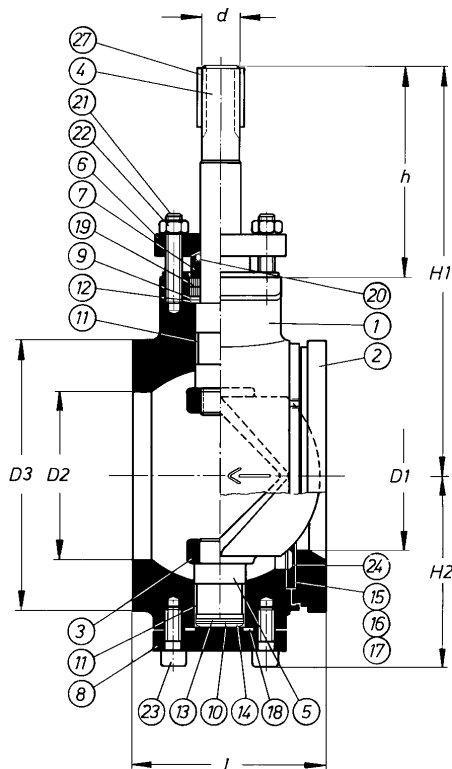
Nominal sizes DN 25 ... 200

Conform with the requirements of the Council Directive 97/23/EC on Pressure Equipement, marking: **CE**₀₄₃₄

Code number	Seat	Leakrate ISO 5208
465KC___	with manual lever	Stellite D
465KC___Z	with bare shaft	Stellite D
465KC___M	with gear	Stellite D
465TC___	with manual lever	PTFE A
465TC___Z	with bare shaft	PTFE A
465TC___M	with gear	PTFE A

For steam: Code number 46501KC With graphite shim

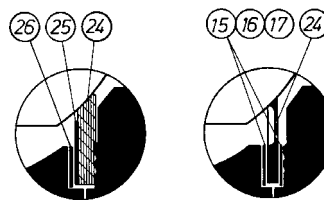
Control ball valve



Parts

1. Body	CF-8M
2. End piece	CF-8M
3. V-ball	CF-8M
4. Upper shaft	W:no 4401
5. Lower shaft	W:no 4401
6. Gland	W:no 4401
7. Spacer ring	W:no 4401
8. Cover	W:no 4401
9. Thrust bearing ring	W:no 4401
10. Thrust bearing disc	W:no 4401
11. Shaft bearing	Pampus
12. Upper thrust bearing	Pampus
13. Lower thrust bearing	Pampus
14. Cup spring	W:no 4401
15. Shim	SFS 5811 carbon fibre
16. Shim	SFS 5811 carbon fibre
17. Shim	SFS 5811 carbon fibre
18. Cover gasket	SFS 5811 carbon fibre
19. Packing	Graphite
20. O-ring	EPDM
21. Stud	
22. Nut	
23. Hexagon screw	
24. T-seat	PTFE
24. K-seat	Stellite
25. Support ring	W:no 4401
26. Shim	SFS 5811 carbon fibre
27. Key	Fe

Seat alternatives



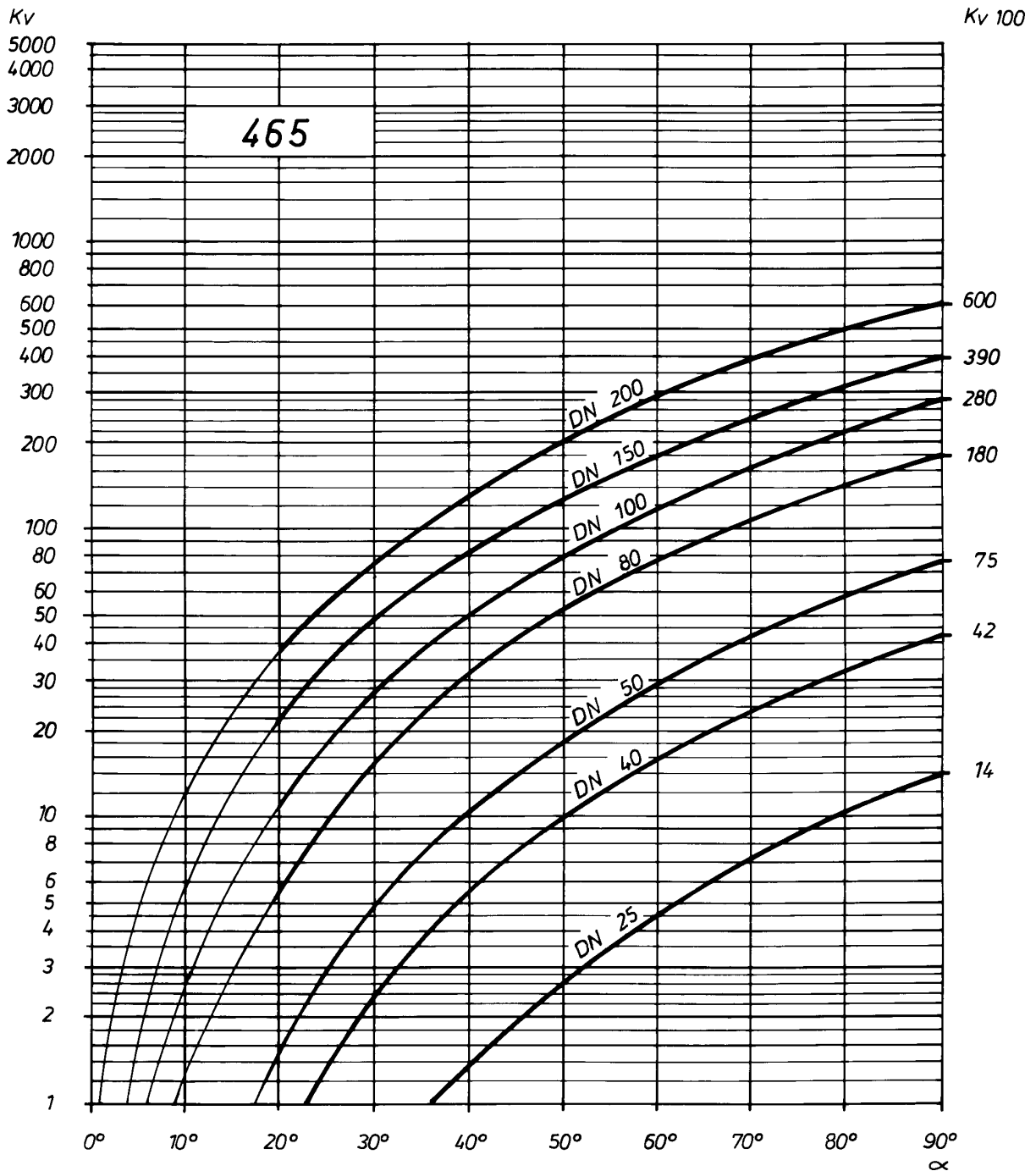
PTFE
465TC

Stellite
465KC

Dimensions

DN	PN	L	D1	D2	D3	d	h	H1	H2	Weight kg
25	40	50	25	30	65	11	85	143	58	1,7
40	40	60	40	48	90	15	95	165	79	3,2
50	25	75	49	60	105	15	95	169	83	4,5
80	25	100	77	87	140	20	110	213	97	8,4
100	16	115	96	112	160	25	115	233	126	12,4
150	16	160	118	162	216	25	115	263	135	27,4
200	16	200	170	213	273	30	150	342	194	41,0

Regulation curves



WATER:

Volume flow:

$$Q = K_V \sqrt{\frac{\Delta p}{\rho}}$$

Flow velocity:

$$v = 354 \frac{Q}{DN^2}$$

- K_V = kv-value — Capacity factors
- DN = nominal valve size (mm)
- α = disc opening angle
- Q = volume flow m³/h
- Δp = pressure difference bar
- ρ = density of liquid kg/dm³
- v = flow velocity m/s