

ΣΦΑΙΡΙΚΟΙ ΚΡΟΥΝΟΙ ΜΕ ΡΥΘΜΙΣΤΙΚΗ ΣΦΑΙΡΑ

**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.

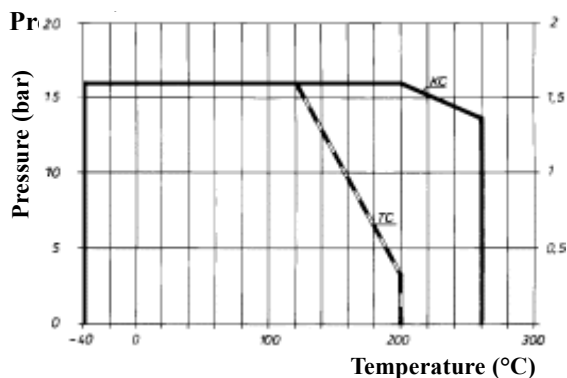
The arrow on the body denotes the correct tightness direction according to ISO 5208.

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 throughout 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

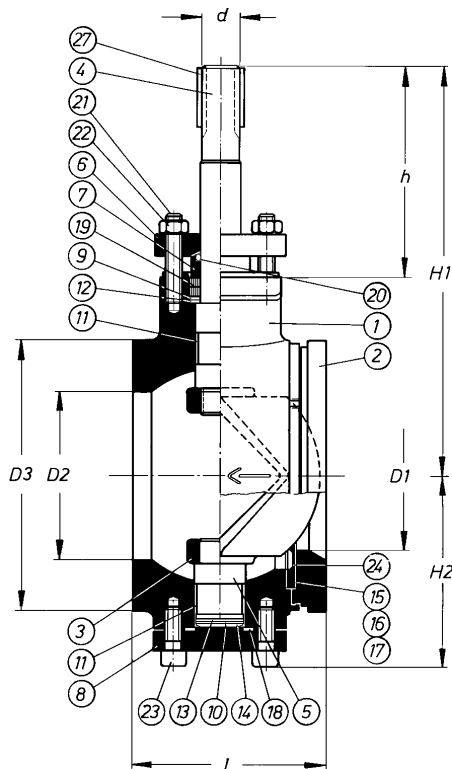
Conform with the requirements of the Council Directive 97/23/EC on Pressure Equipement, marking:  0434

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



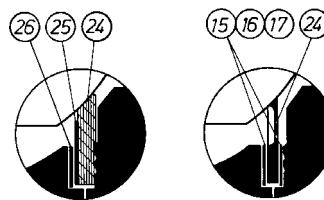
Control ball valve



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



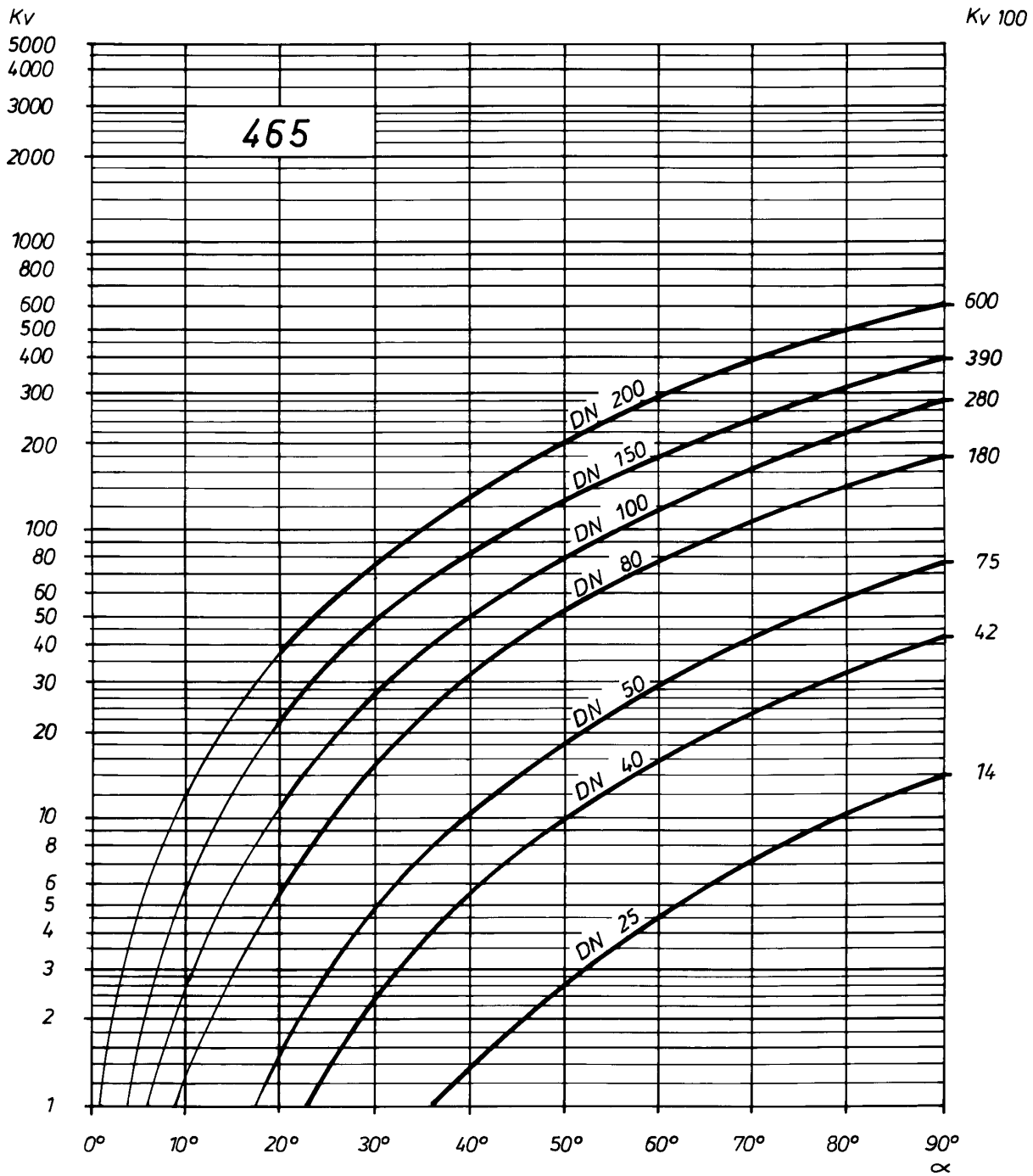
PTFE
465TC

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



ΧΡΥΣΑΦΙΔΗΣ Α.Ε.

Liite 6 / TY 707

HÖGFORS

LÄPPÄ- JA PALLOVENTTIILIN KÄYTTÖMOMENTIT
OPERATING TORQUE FOR BUTTERFLY- AND BALL VALVES
DREHMOMENT FÜR ABSPERRKLAPPEN UND KUGELHÄHNE

DN	PALLOVENTTIILIT BALL VALVES KUGELHÄHNE			V-AUKKO PALLOV. V-PORT BALL VALVES KUGELHÄHNE MIT V-ÖFFNUNG		LÄPPÄVENTTIILIT BUTTERFLY VALVES ABSPERRKLAPPEN			
	34000TR 440TS Nm	005TR 450TS Nm	450KC Nm	455KC Nm	465KC Nm	045ES Nm	31300CS 31500CS Nm	245TS* 41000TS* 411TS* Nm	245CS 41000CS 411CS Nm
10	5								
15	5								
20	5								
25	10	15	20	20	20				
32	15	25	30	28					
40	35	40	50	39	28				
50	60	60	80	52	39				
65	80	70	100	70					
80	130	120	160	100	70	60		70	90
100	180	180	230	150	100	80		100	130
125	250	300	400	240		100		140	180
150	360	450	650	340	150	150		190	240
200	600	800	1300	520	340	270	240	320	400
250	1300	1500	2200	600		460	400	550	700
300	1800			1000		700	700	850	1100
350						1000	1100	1300	1600
400						1400	1600	1800	2200
450						1800	2200	2400	3000
500						2600	3000	3400	4200
550							4200		
600						4500	4200	5500	6800
650							4200		
700							6800		10000
750							6800		
800							10000		
850							10000		
900							13000		
1000							16000		

*) myös ES, NS, VS

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HÖGFORS Salo 22.01.2003