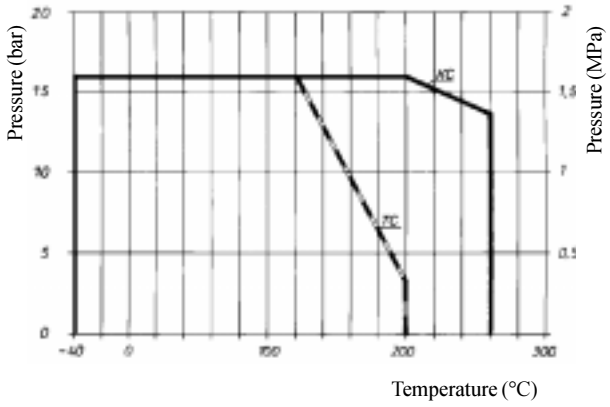
Fig 455 Full Bore ball sector valve of stainless steel PN 16

Application

The Högfors Fig 455 ball sector control valve is specially design for the control applications of different media as liquits, pulps and steam.

Nominal pressure PN 16

Pressure/temperature graph



Operating temperature: With stellite K-seat for steam 200°C max.

Design

The Högfors Fig 455 full bore ball sector valve is manufactured in stainless steel throughout with a hard chromed ball and stellite seat (PTFE is available as an option). The V-port gives an excellent control characteristic intermediate between linear and equal percentage. The full bore design permits high Kv-values. The two piece body is flanged PN 16 as standard, some sizes can accomodate alternative drillings.

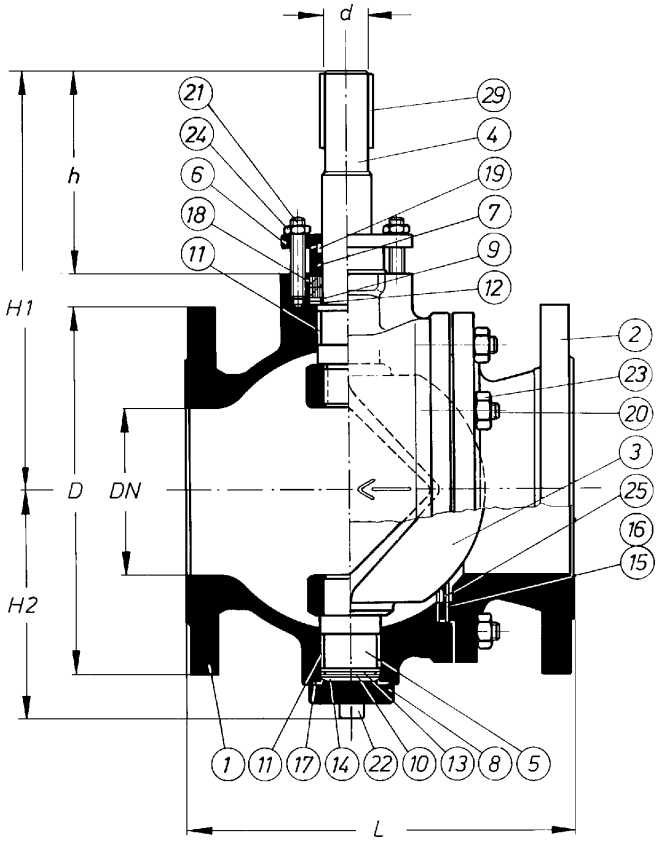
Face to face lenghts
DN 25 ... 100 according to ISO 5752 basic serie 3,
DN 125 ... 300 according to ISO 5752 basic serie 12

Flange drilling according to ISO 2084 PN 16

Nominal sizes DN 25...300

Code number		**Seat**
455KC _ _ _	with manual lever	**Stellite**
455KC _ _ _Z	with bare shaft	**Stellite**
455KC _ _ _M	with gear	**Stellite**
455TC _ _ _	with manual lever	**PTFE**
455TC _ _ _Z	with bare shaft	**PTFE**
455TC _ _ _M	with gear	**PTFE**

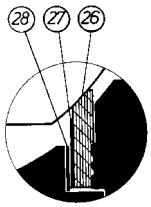
Ball sector valve



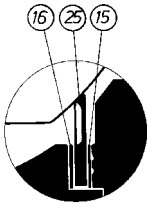
Parts

1.BodyCF-8M	
2.Body flange	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	SFS5811 carbon fibre
16.Shim	SFS5811 carbon fibre
17.Cover gasket	SFS5811 carbon fibre
18.Packing	Graphite
19.O-ring	EPDM
20.Stud	
21.Stud	
22.Screw	
23.Hexagon nut	
24.Hexagon nut	
25.K-seat	Stellite
26.T-seat	PTFE
27.Support ring	W:no 4401
28.Shim	SFS5811 carbon fibre
29.Key	Fe

Seat alternatives



PTFE
455TC

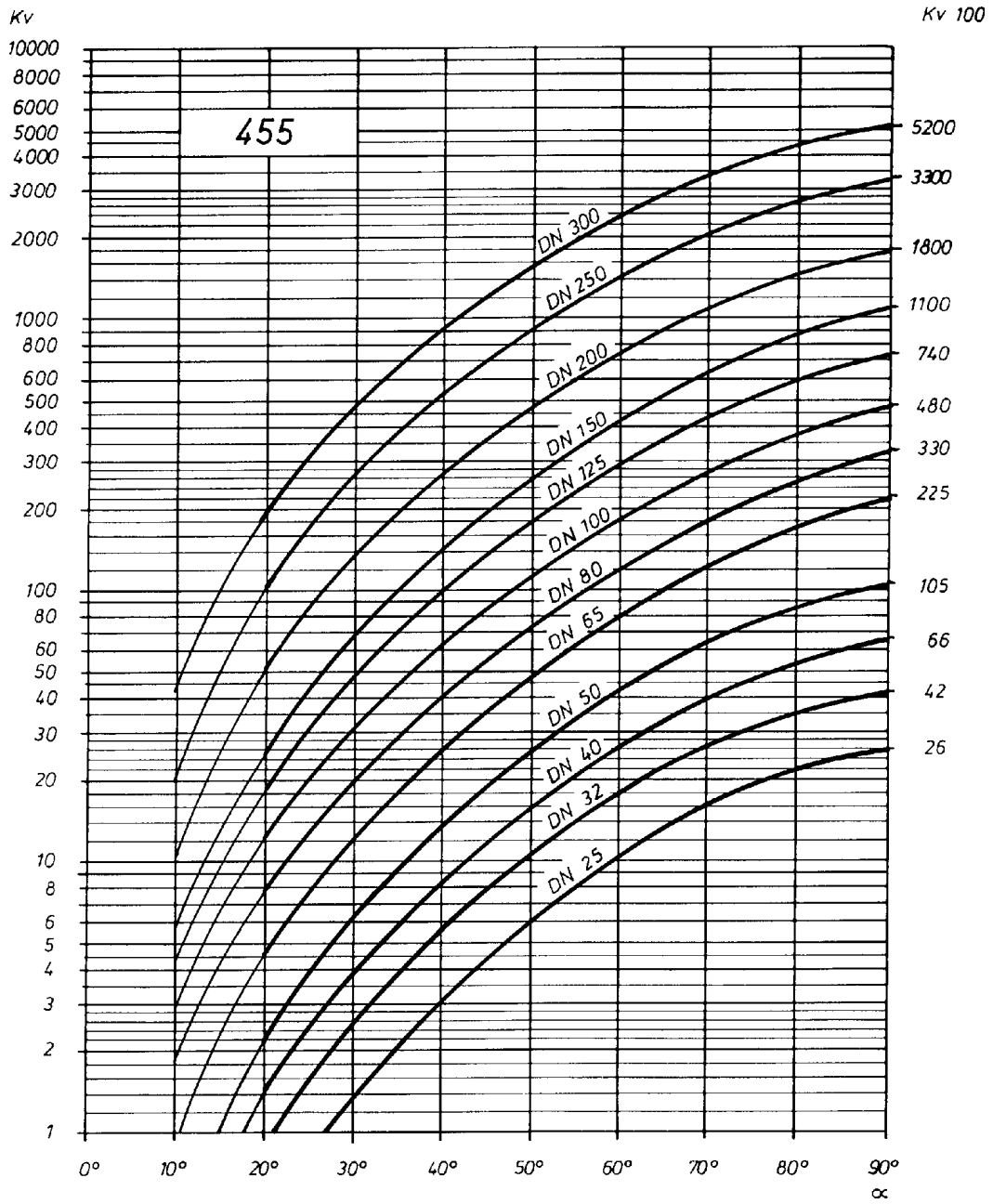


Stellite
455KC

Dimensions

DN	L	H1	H2	h	d	D	Connection PN 16			Weight kg
							pcd	bolt hole	holes	
25	127	143	68	85	11	115	85	14	4	5,0
32	140	166	79	95	15	140	100	18	4	7,7
40	165	170	83	95	15	150	110	18	4	9,6
50	178	196	91	110	20	165	125	18	4	12
65	190	204	99	110	20	185	145	18	4	17
80	203	235	126	115	25	200	160	18	8	23
100	229	245	136	115	25	220	180	18	8	27
125	356	329	185	150	30	250	210	18	8	55
150	394	343	199	150	30	285	240	22	8	67
200	457	404	248	170	45	340	295	22	12	127
250	533	439	283	170	45	405	355	26	12	230
300	610	495	337	185	60	460	410	26	12	280

Regulation curves



WATER:

Volume flow:

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

Flow velocity:

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

K_V	=	kv-value — Capacity factors
DN	=	nominal valve size (mm)
∝	=	disc opening angle
Q	=	volume flow m^3/h
Δp	=	pressure difference bar
ϱ	=	density of liquid kg/dm^3
v	=	flow velocity m/s