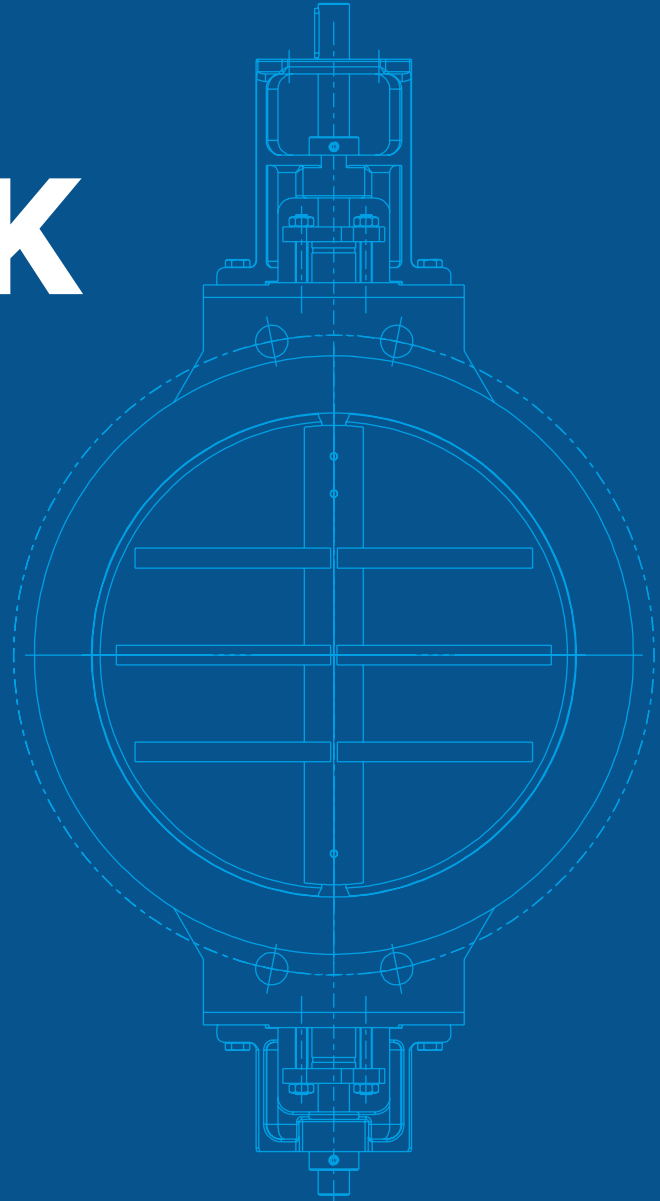


# CONTROL VALVE DKK/DAK

Control valve with centric disc design, suitable for applications with exhaust gases, burner gases and contaminated gases of all kinds. The solidly designed components enable maintenance-free use and maximum operational reliability.

- DN 50 - DN 1600 or 2" - 64"
- PN 2,5 - PN 16 or Class 150
- -10° C to +550° C
- TA-Luft available on request
- $\leq 0.5\%$  Kvs 90° (DKK)  $\leq 0.2\%$  Kvs 90° (DAK)



## Fields of application:



Metallurgy

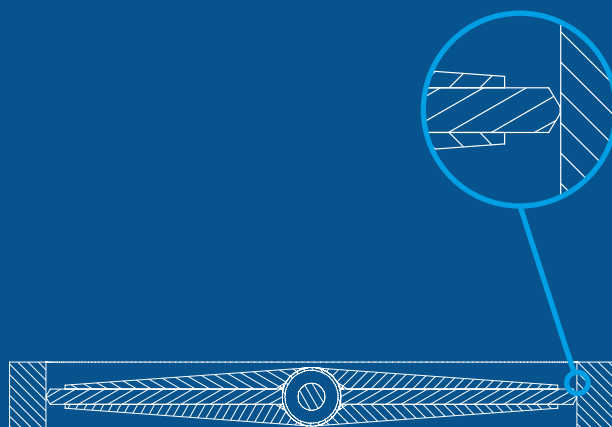


Coking plants

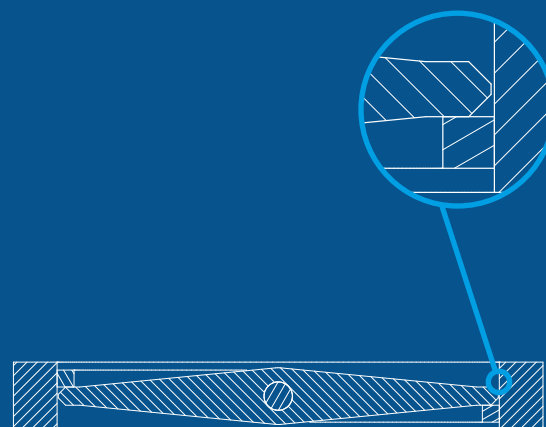


Furnace construction

## CONTROL VALVE DKK/DAK DESCRIPTION



- DKK  
Swing through control valve  
<math><0.5\% Kvs 90^\circ</math>



- DAK  
Step-seated control valve  
<math><0.2\% Kvs 90^\circ</math>

### The control valve type DKK/DAK offers the following design features:

- Control valve with centric disc design.
- Body in cast or welded design.
- The disc has a streamlined design and is connected to the actuator shaft by means of locating dowel pins. Type DKK 2 has a swing-through disc, the zero position in the closed position is adjusted and limited by a stop in the actuator. Type DAK 2 has a stop disc in the body, the bar is unmachined. Depending on the application conditions, the opening angle of the disc can be selected up to  $90^\circ$ . For control valves, the opening angle is ideally  $60^\circ$ , taking into account the opening characteristic and the dynamic torques.
- The shaft is continuous in the standard version and is mounted in external roller bearings. The power transmission of the actuator to the shaft is done with a feather key or clamp connection. Additional internal bearings are placed in the stuffing box space below the packing if required.

- The Bracket supports the forces of the actuator, the associated bearing block is the connection point between the throttle valve and the actuator.
- The shaft passage from the medium chamber to the atmosphere is sealed by adjustable packings whose material is adapted to the operating conditions. Special designs for additional packing lubrication as well as for sealing gas seal or intermediate suction are available.
- Actuator adaptation in accordance with DIN/ISO 5211

# CONTROL VALVE DKK/DAK

## DESIGN FEATURES

- Nominal size:** DN 50 - DN 1600 or 2" - 64"
- Leakage class:** 0.5% Kvs 90° (DKK) ≤ 0.2% Kvs 90° (DAK)
- Face-to-face dimensions:** in accordance with factory standard
- Pressure rating:** PN 2.5 - PN 16 or Class 150
- Operating temperature:** from -10° C to +550° C
- Shaft sealing:** TA-Luft available on request

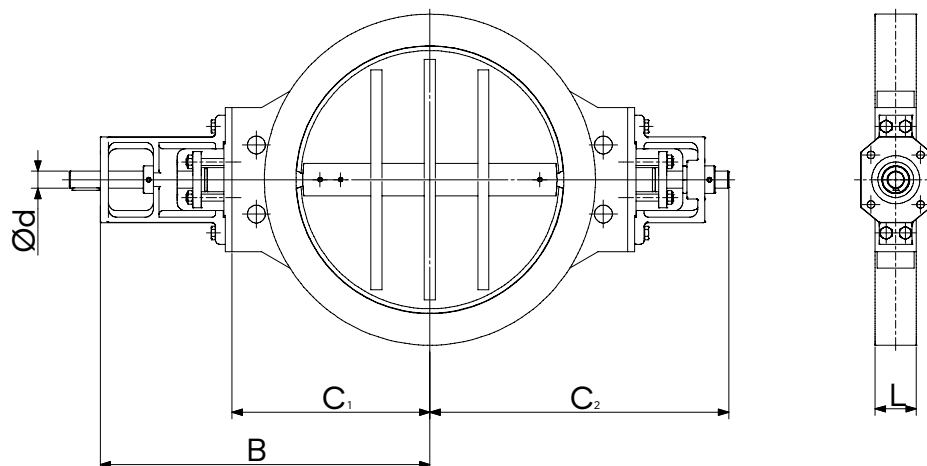


MATERIALS			
	Temperature limit		
	300° C	450° C	550° C
Valve body	EN 1.0425/1.0619	EN 1.0425/1.0619	EN 1.4581, 1.4571
Valve disc	EN 1.0425/1.0619	EN 1.0425/1.0619	EN 1.4581
Shaft	EN 1.4057	EN 1.4571	EN 1.4571
Bearing	GG 25	Cr-St. nitr.	Stellite

**Note:** Other materials on request.

# CONTROL VALVE SERIES DKK

## TECHNICAL INFORMATION



DKK WAFER DESIGN									
			DIMENSIONS					Gewicht bei PN 10 Weight at PN 10 kg	
DN		1)Fläche 1)Area	L	Ø d	B	C <sub>1</sub>	C <sub>2</sub>	Lager	Bearings
mm	inch	cm <sup>2</sup>							
50	2.0	8.6	50	15	270	90	215	10	12
65	2.5	22.5	50	15	280	100	225	11	13
80	3.0	31.8	50	15	285	105	230	12	14
100	4.0	41.5	50	20	305	125	255	14	16
125	5.0	75.5	50	20	315	135	265	16	18
150	6.0	119.5	50	20	330	150	280	18	20
200	8.0	238.0	50	20	355	175	305	22	24
250	10.0	395.0	50	20	380	200	330	29	31
300	12.0	590.0	50	20	420	240	370	32	34
350	14.0	775.0	50	20	440	260	390	43	45
400	16.0	1005.0	60	25	480	300	430	59	62
500	20.0	1647.0	60	25	530	350	480	80	83
600	24.0	2332.0	80	30	600	400	560	133	139
700	28.0	3198.0	90	35	690	460	620	186	193
800	32.0	4242.0	100	40	750	520	685	259	265
900	36.0	5477.0	100	40	800	570	735	312	319
1000	40.0	6881.0	130	45	875	625	810	431	443
1100	44.0	8285.0	130	45	925	675	860	492	504
1200	48.0	10137.0	130	45	975	725	910	552	564
1400	56.0	13780.0	130	45	1100	850	1035	667	679
1600	64.0	17960.0	130	60	1330	965	1150	953	967

**Note:** L = Face-to-face dimensions in accordance with DIN 3202/K1, 1) Dimensions H, F and connection dimensions related to Ø W see „Technical appendix“. Subject to technical changes. Drive selection: The mounting dimensions for drives comply with DIN/ISO 5211; all drives can be directly mounted or exchanged as long as they comply with the DIN/ISO dimensions; drives with different shaft drive profiles require a corresponding coupling and a bracket; different connections on request. The values given above are exemplary measured data and may deviate for specific applications. OHL Gutermuth reserves the right to change the contents without prior notice. Reproduction or disclosure to third parties without our prior consent is not permitted.