

DKZ Straight Stroke Electric Actuator

Overview

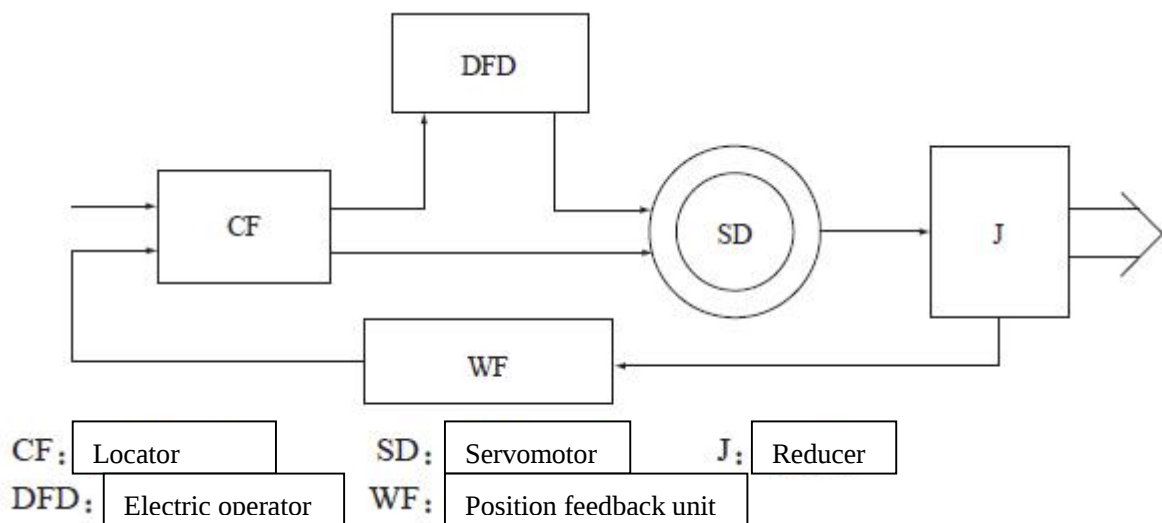
DKZ straight stroke electric actuator is the EU (execution unit) in automatic control system, which receives control signals of upper regulator or DCS system, outputs linear thrust, and adjusts procedure parameter. It is mainly used along with straight stroke regulating valve and sleeve valve.

The control modes of DKZ electric actuator are overall electronic type and separated type which has locator and electric actuator.



Operating Principle

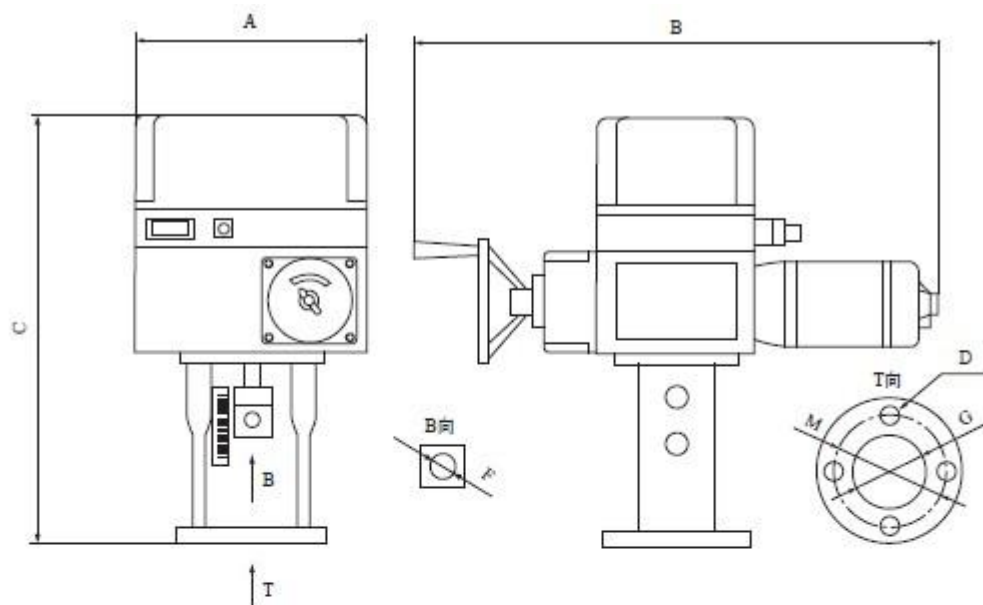
DKS electric actuator is a position servomechanism which adopts two-phase alternating current servomotor as motive force.



Technical Parameters

Input or Feedback Signal	4-20mA (or 0-10mA)
Output Torque or Thrust	4000N-16000N
Output Shaft Actuation Range	6, 10, 16, 25, 40, 60, 100mm
Non-linear Error	$\pm 1\%$
Dead Zone	1%-3% is adjustable
Back and Forth Variation	$\leq \pm 1\%$
Damping Characteristic	Oscillation period ≤ 1.5 cycles
Power Supply Voltage	220V $\pm 10\%$ 50Hz
Operating Environment Temperature	-20℃ $\sim$ +65℃
Operating Environment Relative Humidity	<95%(no condensation)

Dimension Figure



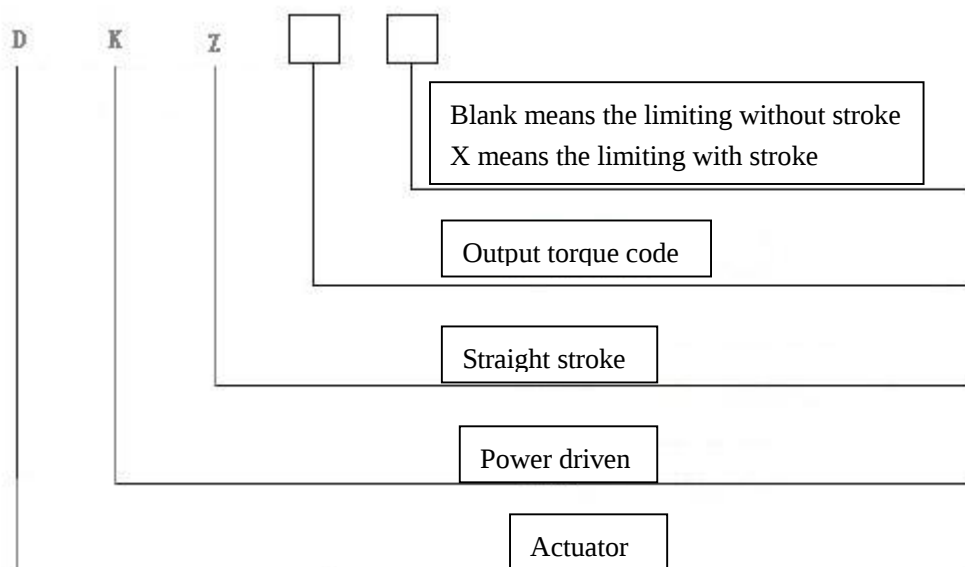
DKZ直行程安装尺寸

型 号	输出推力 (KN)	行程 (mm)	长×宽×高 A×B×C(mm)	阀杆连 接螺孔 (F)	法兰连 接孔距 (M)	法兰连 接 孔 (D)	法兰吻 合内径 (G)	公 称 径 (Dg)	重 量 (kg)
DKZ —	410	6.4	10	M8	Φ80	2 孔 Φ10.5	Φ60D4	25 32 40 50	45
	420	6.4	16						
	430	6.4	25						
DKZ—	540	10	40	M12× 1.25	Φ105	4 孔 Φ10.5	Φ80D4	65 80 100	50
	550	10	60	M16× 1.5	Φ118	4 孔 Φ10.5	Φ95D4	125 150	
DKZ— 560		16	60 100	M20× 1.5	Φ135	4 孔 Φ18	Φ100D4	200 250	60

Installation Dimension of DKZ Straight Stroke

Model	Out put Thr ust (K N)	Stroke(mm)	Length×Wi dth×Height A×B×C (mm)	Screw Hole of Valve Rod Connection (F)	Flange Connectin g Pitch-row (M)	Flange Connectin g Hole (D)	Flange Match Inner Diameter (G)	Inside Nomi nal Diam eter (Dg)	Weigh t (Kg)
410	6.4	10	258×594×5	M8	Φ80	2 holes Φ10.5	Φ60D4	25 32 40 50	45
DKZ- 420	6.4	16	10						
430	6.4	25							
DK 540	10	40	258×594×5	M12×10.25	Φ105	4 holes	Φ80D4	65 80	50

Z-				60			Φ10.5		100	
	550	10	60	258×594×5 86	M16×1.5	Φ118	4 holes Φ10.5	Φ95D4	125 150	
DKZ-560		16	60 100	258×620×6 50	M20×1.5	Φ135	4 holes Φ18	Φ100D4	200 250	60



Model				Stroke mm	Output Shaft Thrust N	Stroke Time s
4—20mA (Model III)		4—20mA (Model II)				
DKZ-4100	ZKZ-3100	DKZ-410	ZKZ-310	10	4000	7.5
DKZ-4200	ZKZ-3200	DKZ-420	ZKZ-320	16		12
DKZ-4300	ZKZ-3300	DKZ-430	ZKZ-330	25		18.75
DKZ-5400	ZKZ-4400	DKZ-540	ZKZ-440	40	6400	32
DKZ-5500	ZKZ-4500	DKZ-550	ZKZ-450	60		48
DKZ-5600	ZKZ-4600	DKZ-560	ZKZ-460	100	16000	60