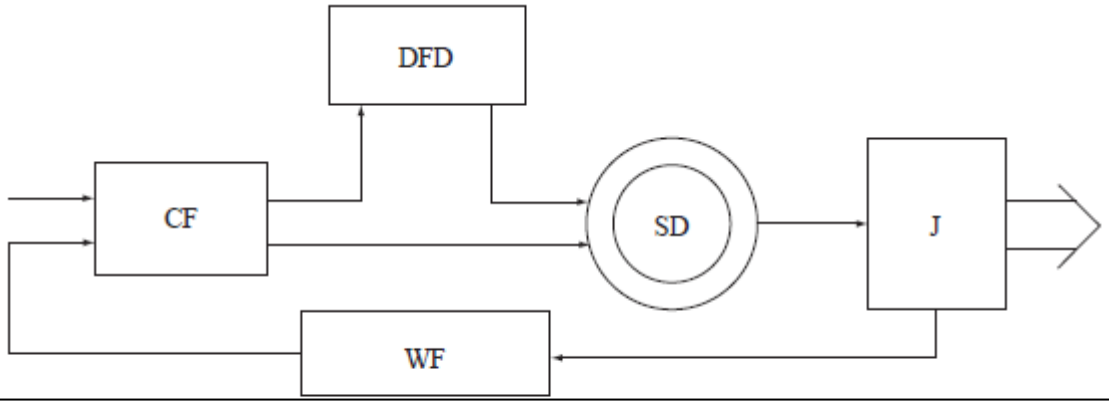
DKJ Angular Travel Electric Actuator

Overview

DKJ Angular Travel Electric Actuator adopts new technology developed by "S" type electric actuating mechanism: using precise conductive plastic potentiometers and WF-S type position transmitter composed of abroad ASIC. Therefore, the electric actuator not only is greatly improved than the original product in reliability, accuracy, load capacity, signal quality coefficient and other properties, but also broadens the environmental conditions, which has a great significance.

Operating Principle

DKJ series of electric actuator is a position servo mechanism which adopts two-phase AC servo motor as the motive power, the typical system block diagram is shown below:



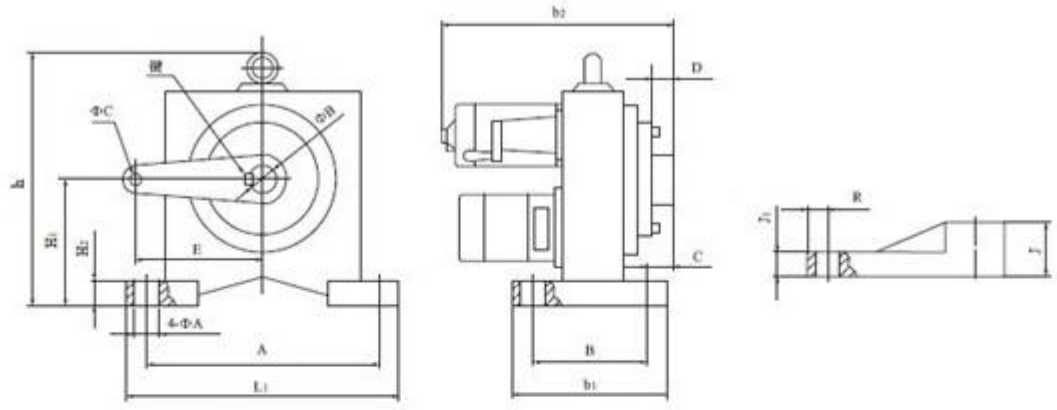
CF: Location Positioner SD: Servo Motor J: Reducer DFD: Electric Operation Station
WF: Position Feedback Unit

Technical Parameters

Input or Feedback Signal	4-20mA (or 0-10mA)
Output Torque or Thrust	Angular Travel: 100Nm-10000Nm
Actuation Range of Output Shaft	0-90 degrees
Non-linear Error	:±1%
Dead Zone	1%-3% adjustable
Back and Forth Variation	≤±1%
Damping Force Characteristic	Period of oscillation≤1.5 periods

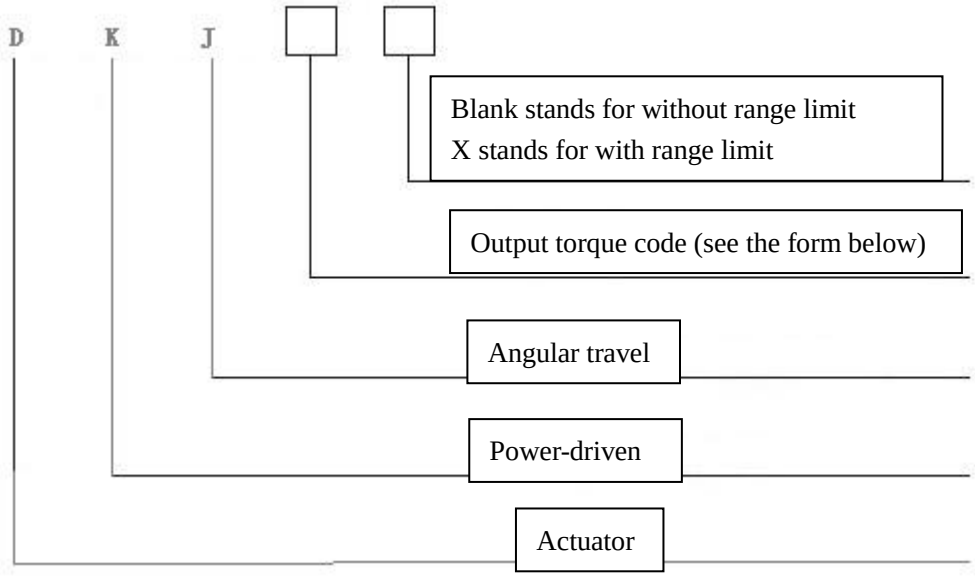
Supply Voltage	220V±10% 50Hz
Operating Environment Temperature	From -20℃ to +65℃
Relative Humidity of Operating Environment	<95% with no condensation

Dimension Figure



DKJ Series Electric Actuator Boundary Dimension and Installation Size

型号	A	B	C	D	E	H1	H2	ΦA	ΦB	ΦC	键	L1	b1	b2	h	J1	J	R
DKJ- 210 2100	220	130	90	41	100	125	20	Φ12	Φ25	Φ14	C8×35	245	152	411	275	15	35	15
DKJ- 310 3100	260	100	117	53	120	135	20	Φ13	Φ35	Φ16	C10×50	300	130	441	300	24	50	17
DKJ- 410 4100	320	130	142	62	150	170	30	Φ14	Φ40	Φ18	C12×60	365	162	510	380	23	60	20
DKJ- 510 5100	390	180	121	82	170	196	35	Φ14	Φ58	Φ20	C18×40	420	210	660	440	25	80	29
DKJ- 610A 6100A	390	180	182	87	200	196	35	Φ14	Φ65	Φ30	C18×85	450	240	730	444	35	85	29
DKJ- 610 6100	420	200	251	102	200	230	35	Φ18	Φ75	Φ35	C20×100	480	260	760	490	40	100	33



Torque Code	2	3	4	5	6A	6	7	8
Output Torque N・m	100	250	600	1600	2500	4000	6000	10000

Motor Power (Watts)	16	28	67	180	180	180	250	250