

### ZJ Range Gearbox Performance Parameter

Gearbox Model	ZJ3	ZJ4										
Mounting Flange For Valve (ISO 5211)	F10	F14										
Max output torque(Nm)	700	1800										
Rated output torque(Nm)	500	1000										
Primary reduction ratio	40:1	40:1	60:1	70:1	40:1			60:1		70:1		
Secondary reduction ratio	—	—	—	—	2:1	3:1	4:1	3:1	4:1	2:1	3:1	4:1
Third reduction ratio	—	—	—	—	—	—	—	—	—	—	—	—
Total reduction ratio	40:1	40:1	60:1	70:1	80:1	120:1	160:1	180:1	240:1	140:1	210:1	280:1
Max stem dia(mm)	45	64										
Factor	12	12	18	21	24	36	48	54	72	42	63	84
Max input torque(Nm)	58.3	150	100	85.7	22.5	50	37.5	33.3	25	42.9	28.6	21.4
Flange for actuator (ISO 5210)	F10	F10										

### ZJ Range Gearbox Performance Parameter

Gearbox Model	ZJ5									
Mounting Flange For Valve (ISO 5211)	F16									
Max output torque(Nm)	3500									
Rated output torque(Nm)	2000									
Primary reduction ratio	40:1	70:1	40:1				70:1			
Secondary reduction ratio	—	—	2:1	3:1	4:1	5:1	2:1	3:1	4:1	5:1
Third reduction ratio	—	—	—	—	—	—	—	—	—	—
Total reduction ratio	40:1	70:1	80:1	120:1	160:1	200:1	140:1	210:1	280:1	350:1
Max stem dia(mm)	76									
Factor	12	21	24	36	48	60	42	63	84	105
Max input torque(Nm)	291.7	166.7	145.8	97.2	72.9	58.3	83.3	55.6	41.7	33.3
Flange for actuator (ISO 5210)	F10/F14									

### ZJ Range Gearbox Performance Parameter

Gearbox Model	ZJ6									
Mounting Flange For Valve (ISO 5211)	F25									
Max output torque(Nm)	6800									
Rated output torque(Nm)	4000									
Primary reduction ratio	40:1	70:1	80:1	40:1		70:1			80:1	
Secondary reduction ratio	—	—	—	3:1	4:1	2:1	3:1	4:1	3:1	4:1
Third reduction ratio	—	—	—	—	—	—	—	—	—	—
Total reduction ratio	40:1	70:1	80:1	120:1	160:1	140:1	210:1	280:1	240:1	320:1
Max stem dia(mm)	90									
Factor	12	21	24	36	48	42	63	84	72	96
Max input torque(Nm)	566.7	323.8	283.3	188.9	141.7	161.9	107.9	81	94.4	70.8
Flange for actuator (ISO 5210)	F14/F16									

## ZJ Range Gearbox Performance Parameter

Gearbox Model	ZJ7											ZJ8				
Mounting Flange For Valve (ISO 5211)	F25											F25				
Max output torque(Nm)	11200											22400				
Rated output torque(Nm)	8000											16000				
Primary reduction ratio	40:1	60:1	70:1	40:1			60:1			70:1			60:1	60:1		
Secondary reduction ratio	—	—	—	2:1	3:1	4:1	3:1	4:1	2:1	3:1	4:1	—	2:1	3:1	4:1	
Third reduction ratio	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Total reduction ratio	40:1	60:1	70:1	80:1	120:1	160:1	180:1	240:1	140:1	210:1	280:1	60:1	120:1	180:1	240:1	
Max stem dia(mm)	100						100						120			
Factor	12	18	21	24	36	48	54	72	42	63	84	18	36	54	72	
Max input torque(Nm)	933.3	622.2	533.3	466.7	311.1	233.3	207.4	155.6	266.7	177.8	133.3	1244.4	622.2	414.8	311.1	
Flange for actuator (ISO 5210)	F16/F25											F16/F25				

## ZJ Range Gearbox Performance Parameter

Gearbox Model	ZJ9												
Mounting Flange For Valve (ISO 5211)	F30												
Max output torque(Nm)	35000												
Rated output torque(Nm)	25000												
Primary reduction ratio	40:1	60:1	70:1	40:1				60:1		70:1			
Secondary reduction ratio	—	—	—	2:1	2:1	2:1	2:1	2:1	2:1	2:1	2:1	2:1	2:1
Third reduction ratio	—	—	—	1:1	1.5:1	2:1	3:1	1.5:1	3:1	1:1	1.5:1	2:1	3:1
Total reduction ratio	40:1	60:1	70:1	80:1	120:1	160:1	240:1	180:1	360:1	140:1	210:1	280:1	420:1
Max stem dia(mm)	160												
Factor	9.6	14.4	16.8	19.2	28.8	38.4	57.6	43.2	86.4	33.6	50.4	67.2	100.8
Max input torque(Nm)	3645.8	3645.8	2083.3	1822.9	1215.3	911.5	607.6	810.2	405.1	1041.7	694.4	520.8	347.2
Flange for actuator (ISO 5210)	F25/F30												

### ZJ Range Gearbox Performance Parameter

Gearbox Model	ZJ10						ZJ11				ZJ12				
Mounting Flange For Valve (ISO 5211)	F35						F40				F48				
Max output torque(Nm)	50000						90000				130000				
Rated output torque(Nm)	32000						40000				65000				
Primary reduction ratio	60:1	60:1					60:1	60:1			64:1	64:1			
Secondary reduction ratio	—	2:1	2:1	2:1	2:1	3:1	—	2:1	2:1	2:1	—	1.86:1	1.86:1	1.31:1	1.31:1
Third reduction ratio	—	1:1	1.5:1	2:1	3:1	3:1	—	1.5:1	2:1	3:1	—	1.5:1	1.96:1	1.5:1	1.96:1
Total reduction ratio	60:1	120:1	180:1	240:1	360:1	540:1	60:1	180:1	240:1	360:1	64:1	179:1	233:1	126:1	164:1
Max stem dia(mm)	185						185				230				
Factor	14.4	28.8	43.2	57.6	86.4	129.6	14.4	43.2	57.6	86.4	15.36	42.96	55.92	30.24	39.36
Max input torque(Nm)	3472.2	1736.1	1157.4	868.1	578.7	385.8	6250	2083	1562.5	1041.7	8463.5	3026.1	2324.7	4298.9	3302.8
Flange for actuator (ISO 5210)	F25/F30						F25/F30				F25/F30				