



JDV
CONTROL
VALVES

JEM Series

Pneumatic Actuator





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PRODUCT FEATURES

1. Waterproof protection

O-rings are installed on the box body, box cover, etc. to prevent external moisture from entering the drive device.

2. Standardized accessory installation dimensions

The output auxiliary connections are all in line with NUMAR standard, which is convenient for the installation and operation of standard electrical accessories.

3. Wear-resistant

The combination of piston rod and guide rod with excellent surface treatment and self-lubricating bearing ensures excellent wear resistance and prolongs the service life of all sliding parts.

4. High transmission efficiency

The finely ground piston rod, guide rod and self-lubricating bearing ensure that the input power is transmitted to the valve to the greatest extent, greatly improving the transmission efficiency, and at the same time minimizing the radial load of the piston rod.

5. Standard connection size ISO

The connection dimensions of the driving device and the valve meet the requirements of the ISO standard in each torque range.

6. Anti-corrosion

The driving device is sprayed with more than 3 layers of protective coatings to meet the requirements of petrochemical and other environments. The inner surface of the cylinder is sprayed with polytetrafluoroethylene coating to increase corrosion resistance and self-lubrication.

7. Install the spring module

In order to ensure the safety of the operator when installing and maintaining the spring module, the spring module can only be damaged from the driving and driving device along the axis of the cylinder module as a whole.

8. Modular design

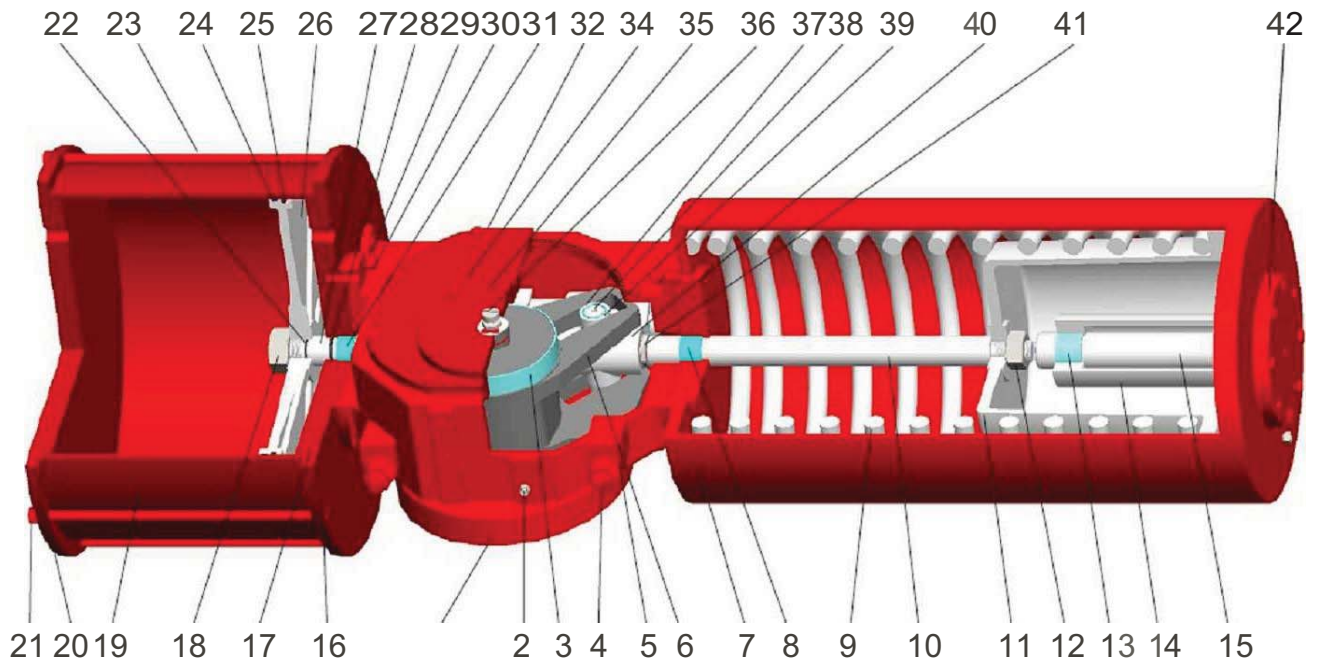
The driving device is composed of transmission, cylinder, spring and side attachments. These modules are easy to disassemble, replace and stabilize during installation. In order to reduce inventory, each module can be purchased separately.

PRODUCT FEATURES

1. Spring safety lock
The spring module is firmly closed after compression, preventing the spring module from coming out of the box.
2. Reduce wear
The piston rod is supported by the guide rod, which counteracts side loading of the piston, reducing wear on the piston rod, bearings and seals.
3. Standard installation
It adopts the NUMAR standard installation structure and is suitable for the installation of various standardized accessories.
4. Replaceable bearings
Replaceable bearings protect sliding and rotating parts in both dry and lubricated conditions.
5. PTFE guide strip
The PTFE guide bar prevents the axial movement of the pin shaft and transmits the axial load to the drive module.
6. Hydraulic manual device for spring module
The spring return built-in hydraulic manual device does not need to increase the length of the drive unit.
7. Easy to lift
There are 4 hoisting holes on the drive box of SF2 and above specifications to ensure Safety during installation and movement.
8. Drain device
A detection valve is installed on the casing of the driving device to release the pressure in the casing and prevent Foreign matter or water from the outside has entered the drive unit.
9. Stroke $80^{\circ} \sim 100^{\circ}$ adjustable
Two-way travel limit device, satisfying that the driving device can be adjusted within the range of $80^{\circ} \sim 100^{\circ}$.
10. Roller
The fork and the pin are connected by a roller sleeve to reduce the friction between the pin and the fork and Wear of the forks and pins.
11. PTFE guide ring
The PTFE guide ring prevents the metal surface contact between the piston and the cylinder, and the cylinder is protected from scratches by the piston.



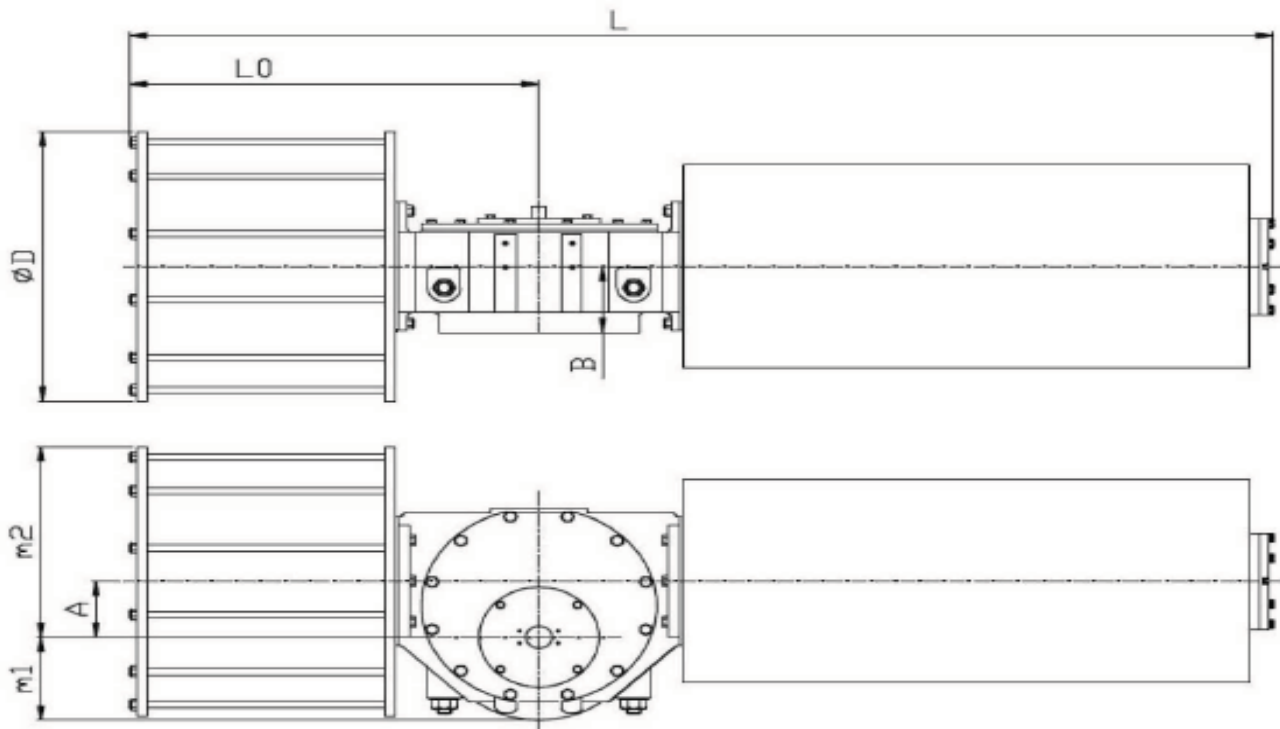
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MATERIAL

NO.	Name	Material	NO.	Name	Material
1	Body	Ductile Iron	22	O-Ring	NBR
2	Vent Valve	Carbon Steel	23	Screw	Alloyd Steel
3	Sliding Baing	TFE Metal+TFE	24	Guide Ring	PTFE
4	Adjust Stud	Alloyd Steel	25	O-Ring	NBR
5	Nut	2H	26	Piston	Ductile Iron
6	Yoke	Carbon Steel	27	Center Bar	Alloyd Steel
7	Spring Case	Carbon Steel	28	O-Ring	NBR
8	Sliding Bearing	TFE Metal+TFE	29	Stud	2H
9	Spring	Alloyd Steel	30	Nut	TFE Metal+TFE
10	Tension rod	Alloyd Steel	31	Sliding Baing	Carbon Steel
11	Spring Seat	Carbon Steel	32	Bolt	Carbon Steel
12	Nut	2H	33	Body Cap	Ductile Iron
13	Sliding Bearing	TFE Metal+TFE	34	Bolt	Carbon Steel
14	Hydraulic Cylinder	Carbon Steel	35	Cover	Ductile Iron
15	Hydraulic Piston	Carbon Steel	36	Drive Shaft	Alloyd Steel
16	Adapter	Ductile Iron	37	Roller	Alloyd Steel
17	O-Ring	NBR	38	Sliding Bearing	TFE Metal+TFE
18	Nut	2H	39	Pin	Alloyd Steel
19	Cylinder	Carbon Steel	40	Guide Block	Ductile Iron
20	End Cap	Ductile Iron	41	Nut	Carbon Steel
21	Nut	2H	42	Cover Plate	Carbon Steel

Spring Return Acting



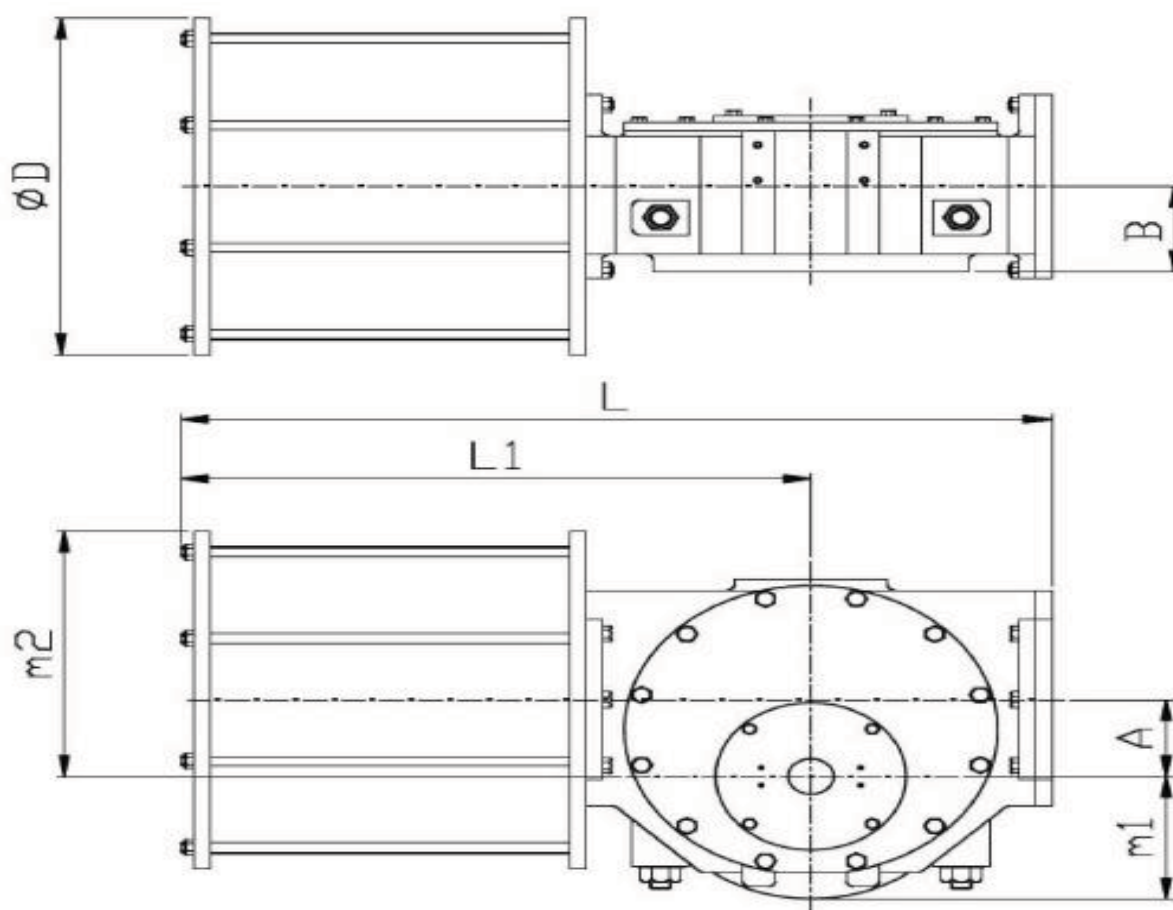
Model	Connect Flange	L	L0	m1	m2	A	B	D	Air Port
JEM-14SR-200	F14	1105	449	87.5	187.5	60	88	255	RC3/8"
JEM-14SR-250		1105	449	87.5	212.5	60	88	305	RC1/2"
JEM-14SR-300		1125	449	87.5	237.5	60	88	360	RC1/2"
JEM-16SR-250	F16	1289	499	105	222.5	70	92	305	RC1/2"
JEM-16SR-300		1289	499	105	247.5	70	92	360	RC1/2"
JEM-16SR-350		1318	499	105	272.5	70	92	415	RC1/2"
JEM-25SR-350	F25	1576	556	150	292.5	90	104	415	RC1/2"
JEM-25SR-400		1576	556	150	317.5	90	104	465	RC3/4"
JEM-25SR-450		1674	556	150	350	90	104	520	RC3/4"
JEM-30SR-450	F30	1807	662	175	370	110	130	520	RC3/4"
JEM-30SR-500		1807	662	175	395	110	130	570	RC3/4"
JEM-30SR-550		1807	662	175	420	110	130	620	RC3/4"
JEM-35SR-550	F35	2005	817	207.5	450	140	165	620	RC3/4"



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JEM-35SR-600	F40	2005	817	207.5	450	140	165	670	RC1"
JEM-35SR-700		2005	817	207.5	475	140	165	770	RC1"
JEM-40SR-600		2695	960	237.5	505	170	200	670	RC1"
JEM-40SR-700		2695	960	237.5	555	170	200	770	RC1"
JEM-40SR-800		2695	960	237.5	607.5	170	200	875	RC1-1/2"
JEM-48SR-800	F48	3395	1130	280	637.5	200	210	875	RC1-1/2"
JEM-48SR-900		3395	1130	280	687.5	200	210	975	RC2"
JEM-48SR-1000		3585	1130	280	787.5	200	210	1075	RC2"
JEM-60SR-800	F60	4185	1380	343	707.5	270	230	875	RC1-1/2"
JEM-60SR-900		4185	1380	343	757.5	270	230	975	RC2"
JEM-60SR-1000		4750	1380	343	807.5	270	230	1075	RC2"
JEM-60SR-1100		4750	1380	343	857.5	270	230	1175	RC2"

Double Acting



Model	Connect Flange	L	LO	m1	m 2	A	B	D	Air Port
JEM-14DA-200	F14	594	449	87.5	187.5	60	88	255	RC3/8"
JEM-14DA-250		594	449	87.5	212.5	60	88	305	RC1/2"
JEM-14DA-300		594	449	87.5	237.5	60	88	360	RC1/2"
JEM-16DA-250	F16	679	499	105	222.5	70	92	305	RC1/2"
JEM-16DA-300		679	499	105	247.5	70	92	360	RC1/2"
JEM-16DA-350		679	499	105	272.5	70	92	415	RC1/2"
JEM-25DA-350	F25	766	556	150	292.5	90	104	415	RC1/2"
JEM-25DA-400		766	556	150	317.5	90	104	465	RC3/4"
JEM-25DA-450		766	556	150	350	90	104	520	RC3/4"
JEM-30DA-450	F30	922	662	175	370	110	130	520	RC3/4"
JEM-30DA-500		922	662	175	395	110	130	570	RC3/4"
JEM-30DA-550		922	662	175	420	110	130	620	RC3/4"
JEM-35DA-550	F35	1130	817	207.5	450	140	165	620	RC3/4"
JEM-35DA-600		1130	817	207.5	450	140	165	670	RC1"
JEM-35DA-700		1130	817	207.5	475	140	165	770	RC1"
JEM-40DA-600	F40	1320	960	237.5	505	170	200	670	RC1"
JEM-40DA-700		1320	960	237.5	555	170	200	770	RC1"
JEM-40DA-800		1320	960	237.5	607.5	170	200	875	RC1-1/2"
JEM-48DA-800	F48	1580	1130	280	637.5	200	210	875	RC1-1/2"
JEM-48DA-900		1580	1130	280	687.5	200	210	975	RC2"
JEM-48DA-1000		1580	1130	280	787.5	200	210	1075	RC2"
JEM-60DA-800	F60	1960	1380	343	707.5	270	230	875	RC1-1/2"
JEM-60DA-900		1960	1380	343	757.5	270	230	975	RC2"
JEM-60DA-1000		1960	1380	343	807.5	270	230	1075	RC2"
JEM-60DA-1100		1960	1380	343	857.5	270	230	1175	RC2"



Double Acting

Model	MaxTorque of Drive Module	Air Pressure									
		3 Bar		4 Bar		5Bar		6 Bar		7 Bar	
		Break	Run	Break	Run	Break	Run	Break	Run	Break	Run
JEM-14DA-200	2000Nm	830	504	1107	672	1384	839	1660	1007	1937	1175
JEM-14DA-250		1298	787	1730	1049	1263	1312				
JEM-14DA-300		1861	1129								
JEM-16DA-250	4000Nm	1622	984	2163	1312	2704	1640	3245	1968	3786	2296
JEM-16DA-300		2336	1417	3115	1889	3894	2362				
JEM-16DA-350		3180	1929	4240	2572						
JEM-25DA-350	8000Nm	3926	2381	5235	3175	6543	3969	7852	4763		
JEM-25DA-400		4984	3023	6646	4031	8307	5039				
JEM-25DA-450		6309	3827	8412	5103						
JEM-30DA-450	16000Nm	7710	4677	10280	6236	12580	7631	15420	9354		
JEM-30DA-500		9519	5774	12693	7700	15866	9625				
JEM-30DA-550		11519	6988	15359	9317						
JEM-35DA-550	32000Nm	14660	8893	19547	11858	24433	14822	29320	17787	34207	20752
JEM-35DA-600		17447	10584	23263	14112	29078	17640	34894	21169		
JEM-35DA-700		23748	14407	31664	19209						
JEM-40DA-600	63000Nm					35310	21421	42373	25706	49435	29990
JEM-40DA-700				38449	23325	48062	29157	57674	34988	67286	40820
JEM-40DA-800		37664	22849	50219	40366	62774	38082				
JEM-48DA-800	125000Nm					73852	44803	88623	53764	103393	62725
JEM-48DA-900				74775	45363	93468	56703	112162	68044	130856	79385
JEM-48DA-1000		69237	42003	92316	56005	115395	70006				
JEM-60DA -800	250000Nm							119641	72582	139581	84679
JEM-60DA-900				100947	61241	126183	76551	151420	91861	176657	107171
JEM-60DA-1000		93469	56704	124626	75606	155782	94507	186939	113409	218095	132310
JEM-60DA-1100		113097	68612	150797	91483	188496	114354	226195	137224	263894	160095

Spring Return Acting (3Bar)

Model	Max Torque of Drive Module	Spring break	Spring end	Air break	Air break
JEM-14SR-200	2000Nm	511	307	523	318
JEM-14SR-250		789	506	791	508
JEM-14SR-300		1079	674	1194	790
JEM-16SR-250	4000Nm	1092	607	1014	529
JEM-16SR-300		1434	892	1444	902
JEM-16SR-350		1896	1227	1953	1283
JEM-25SR-350	8000Nm	2249	1470	2346	1567
JEM-25SR-400		2996	1895	3089	1903
JEM-25SR-450		3960	2534	3774	2348
JEM-30SR-450	16000Nm	4786	2889	4821	2924
JEM-30SR-500		6044	3535	5984	3475
JEM-30SR-550		6867	4349	7169	4651
JEM-35SR-550	32000Nm	9180	5400	9260	5480
JEM-35SR-600		11016	6378	11069	6430
JEM-35SR-700		14449	8907	14840	9298
JEM-40SR-600	63000Nm	13131	8114	13071	8054
JEM-40SR-700		16359	10272	18564	12477
JEM-40SR-800		21426	13666	23998	16238
JEM-48SR-800	125000Nm	26619	16381	27930	17691
JEM-48SR-900		33844	20827	35254	22237
JEM-48SR-1000		45789	29097	40140	23447
JEM-60SR-800	250000Nm	36800	22805	35799	21805
JEM-60SR-900		47118	27842	47867	28592
JEM-60SR-1000		63398	38261	55207	30071
JEM-60SR-1100		78878	49217	63881	34219



Spring Return Acting (4Bar)

Model	Max Torque of Drive Module	Spring break	Spring end	Air break	Air break
JEM-14SR-200	2000Nm	679	436	671	428
JEM-14SR-250		1079	674	1056	651
JEM-14SR-300		1477	948	1544	1015
JEM-16SR-250	4000Nm	1281	818	1345	882
JEM-16SR-300		1896	1227	1888	1219
JEM-16SR-350		2595	1629	2611	1645
JEM-25SR-350	8000Nm	2996	1895	3193	2092
JEM-25SR-400		3960	2534	4112	2686
JEM-25SR-450		4955	2999	5412	3456
JEM-30SR-450	16000Nm	6329	3820	6461	3952
JEM-30SR-500		7929	4869	7824	4763
JEM-30SR-550		9375	5824	9534	5983
JEM-35SR-550	32000Nm	12297	7481	12066	7250
JEM-35SR-600		14449	8907	14356	8813
JEM-35SR-700		19069	11549	20114	12594
JEM-40SR-600	63000Nm	16359	10272	17976	11888
JEM-40SR-700		21426	13666	24782	17023
JEM-40SR-800		30015	18757	31461	20203
JEM-48SR-800	125000Nm	33844	20827	38254	25237
JEM-48SR-900		45789	29097	45677	28986
JEM-48SR-1000		57348	35200	57115	34968
JEM-60SR-800	250000Nm	47118	27842	51918	32642
JEM-60SR-900		63398	38261	62685	37548
JEM-60SR-1000		78878	49217	75409	45747
JEM-60SR-1100		95891	58177	92620	54906

Spring Return Acting (5 Bar)

Model	Max Torque of Drive Module	Spring break	Spring end	Air break	Air break
JEM-14SR-200	2000Nm	789	506	877	594
JEM-14SR-250		1345	815	1347	818
JEM-14SR-300		1880	1206	1908	1235
JEM-16SR-250	4000Nm	1553	1011	1692	1150
JEM-16SR-300		2421	1455	2438	1472
JEM-16SR-350		3194	2085	3215	2106
JEM-25SR-350	8000Nm	3960	2534	3826	2400
JEM-25SR-400		4955	2999	5309	3352
JEM-25SR-450		6326	3726	6788	4188
JEM-30SR-450	16000Nm	7929	4869	7892	4922
JEM-30SR-500		9375	5824	10042	6490
JEM-30SR-550		11426	7092	12106	7772
JEM-35SR-550	32000Nm	14449	8907	15527	9984
JEM-35SR-600		18185	10752	18327	10894
JEM-35SR-700		23864	14109	25470	15715
JEM-40SR-600	63000Nm	21426	13666	21644	13884
JEM-40SR-700		30015	18757	29304	18046
JEM-40SR-800		35425	21679	41095	27349
JEM-48SR-800	125000Nm	45789	29097	44755	28063
JEM-48SR-900		57348	35200	58269	36121
JEM-48SR-1000		69602	42618	72776	45792
JEM-60SR-800	250000Nm	63398	38261	61439	36302
JEM-60SR-900		78878	49217	76967	47305
JEM-60SR-1000		95891	58177	97605	59891
JEM-60SR-1100		112369	71764	116733	76127

Spring Return Acting (6 Bar)

Model	Max Torque of Drive Module	Spring break	Spring end	Air break	Air break
JEM-14SR-200	2000Nm	1028	623	1037	633
JEM-14SR-250		1477	948	1648	1118
JEM-14SR-300		2291	1458	2280	1447
JEM-16SR-250	4000Nm	1896	1227	2018	1348
JEM-16SR-300		2595	1629	3044	2077
JEM-16SR-350		3858	2446	3914	2502
JEM-25SR-350	8000Nm	4955	2999	4633	2677
JEM-25SR-400		6326	3726	6243	3643
JEM-25SR-450		8261	4720	7897	4357
JEM-30SR-450	16000Nm	9375	5824	9598	6046
JEM-30SR-500		11426	7092	11962	7613
JEM-30SR-550		14080	8344	14694	8957
JEM-35SR-550	32000Nm	18185	10752	18569	11136
JEM-35SR-600		22471	12716	22179	12424
JEM-35SR-700		28953	17288	30207	18543
JEM-40SR-600	63000Nm	26630	16828	25544	15471
JEM-40SR-700		35425	21679	35995	22248
JEM-40SR-800		47742	29300	46029	28593
JEM-48SR-800	125000Nm	57348	35200	53421	31275
JEM-48SR-900		69602	42618	69545	42561
JEM-48SR-1000		82680	51976	86497	55793
JEM-60SR-800	250000Nm	78878	49217	70724	40762
JEM-60SR-900		95891	58177	93243	55529
JEM-60SR-1000		112369	71764	115175	74570
JEM-60SR-1100					