



**JDV
CONTROL
VALVES**

JEH / JEK Series

Pneumatic Actuator



JML Series

Manual Override





**JDV
CONTROL
VALVES**

JEH / JEK Series

Pneumatic Actuator

JEH/JEK Series pneumatic actuators are compact double rack and pinion designs used in ball, butterfly, plug and other quarter-turn valves to reach the control purpose. Precise machining and strengthened surface treatment provides accurate and reliable control function suited in various industrial applications

JEH/JEK 系列气动执行器是一款精简设计的执行器，特殊的双齿排及齿轮结构，经过精密的加工及强化的表面处理，更可以广泛应用于各种工业环境下的球阀、蝶阀、柱塞阀或其他 1/4 转的阀门来达到控制用途。



PRODUCT FEATURES 产品特点

	Standard Version	标准配置
Type 型式	Pneumatic Twin Piston Actuator JEH type=Double Acting JEK type=Single Acting(Spring Return)	双活塞压缩传动 JEH 型 = 双作用气缸 JEK 型 = 单作用气缸 (弹簧回复)
Construction 结构特色	Rack and pinion design.	齿轮齿条式设计
Specification 规格	Interface Actuator/Valve: 4 or 8 female thread holes in the body conforms to DIN/ISO 5211, PART 1+2 Shaft: DIN 3337 Interface Actuator/Solenoid Valve: NAMUR Interface Actuator/Signal Unit: NAMUR	气缸与阀连接处: DIN/ISO 5211 PART 1+2, 本体上有 4 或 8 孔位可供固定 心轴: 依据 DIN 3337 气缸与电磁阀连接处: NAMUR 气缸与讯号控制连接处: NAMUR
Material 材质	Body: Aluminum Hard Anodized End Caps: Aluminum Epoxy Coated Piston: Aluminum Shaft: Nickel Plated Carbon Steel Gasket: NBR Bearing: Easy sliding plastic + O-Ring +C-PTFE	本体: 铝合金 侧盖: 铝合金 + 环氧树脂处理 活塞: 铝合金 心轴: 镀镍碳钢 衬垫: 橡胶 滑动件: 简易滑动塑胶 +O 型环 + 强化特弗龙
Working Temperature: 工作温度	-30° C to 100° C in Standard Construction -15° C to 150° C with FKM O-rings -40° C to 80° C with Silicone O-rings	标准: -30° C to 100° C 氟橡胶 O 型环: -15° C to 150° C 硅橡胶 O 型环: -40° C to 80° C
标准: -30° C to 100° C 氟橡胶 O 型环: -15° C to 150° C 硅橡胶 O 型环: -40° C to 80° C	4 To 6421 Nm	4 至 6421 Nm
Maximum Working pressure 最大工作压力	8 bar (116 psig). (Except JEH-045 at 10 bar)	8 bar (除了 JEH-045 是 10 bar)
Movement 作动范围	Rotation angle 90° ± 5°	旋转角度 90° ± 5°

JEK SPRING ACTING 单动系列 JEH DOUBLE ACTING 双动系列



Technical drawing of a double-acting hydraulic cylinder, showing four views with dimensions in millimeters (mm):

- Front View (Top Left):** Shows the cylinder body with a double-acting actuator. Dimensions include:
 - Overall width: A (Double Acting Actuator)
 - Actuator mounting flange: 24 mm diameter, 12 mm thickness, 12 mm spacing between mounting holes.
 - Mounting holes: 4 Holes M5x12.
 - Actuator thread: G1/8" DIN259.
 - Body diameter: 32 mm.
 - Body thickness: 16 mm.
 - End view diameter: ϕ .
- Side View (Top Right):** Shows the cylinder body with dimensions:
 - Overall height: 30 mm.
 - Mounting flange thickness: 4 mm.
 - Mounting flange diameter: 4 mm.
 - Mounting flange spacing: 4 mm.
 - Mounting flange diameter: E .
 - Body diameter: D .
 - Body thickness: C .
- Top View (Bottom Left):** Shows the cylinder body with dimensions:
 - Overall width: 50 mm.
 - Overall height: 30 mm.
 - Mounting flange thickness: 15 mm.
 - Mounting flange diameter: 15 mm.
 - Mounting flange spacing: 15 mm.
 - Mounting flange diameter: 25 mm.
 - Mounting flange spacing: 25 mm.
 - Mounting flange diameter: 4 Hole M5x7.5.
- End View (Bottom Right):** Shows the cylinder body with dimensions:
 - Overall diameter: ϕ_L .
 - Mounting flange diameter: ϕ_S .
 - Mounting flange thickness: R .
 - Mounting flange spacing: $4 \times 90^\circ = 360^\circ$.
 - Mounting flange diameter: 4 MxV.

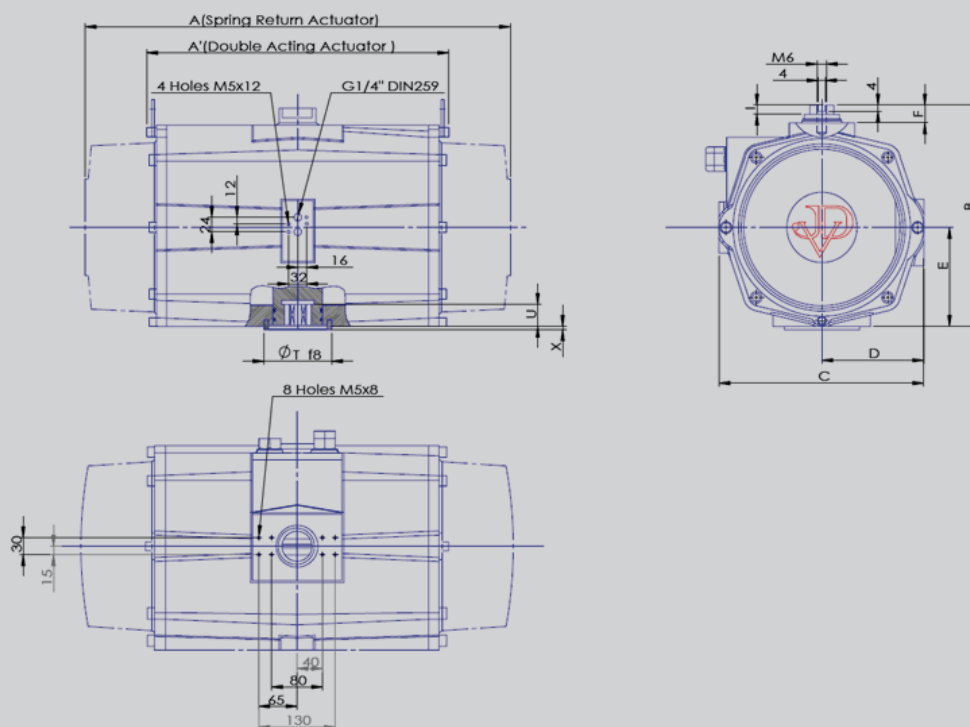
(M.M)

SIZE	A	A'	B	C	D	E	F	I	R	Ø S	ISO 5211	Ø L	M1Xv1	ISO5211	Ø L1	MxV	Ø T	X	U
JEH -045	100		76	56	33	23	9	6	9	12,5	F03	36				M5×8			10

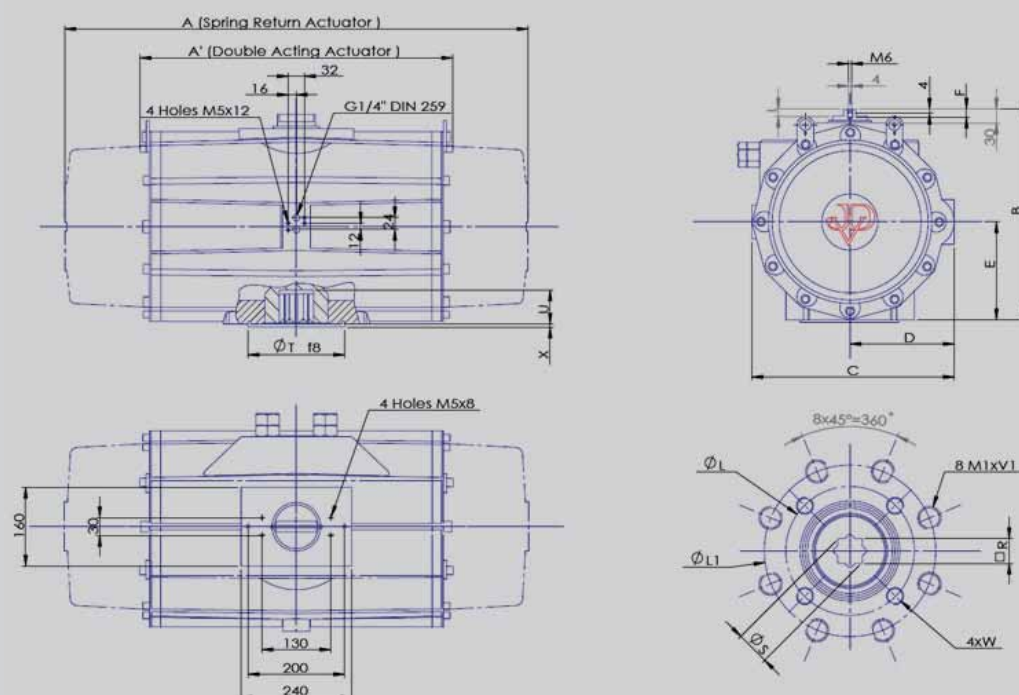


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JEH/JEK-265



JEH/JEK-305



DIMENSION

(M.M)

SIZE	A	A'	B	C	D	E	F	I	R	Ø S	ISO 5211	Ø L	M1xV1	ISO 5211	Ø L1	MxV	Ø T	X	U
JEH/JEK-265	738	518	383	356	177,5	176,5	16	15	46	60,2	F16	165				M20×29	130	4	58
JEH/JEK-305	940	630	434	415	213	201	16	15	55	72,5	F16	165	M16×30	F25	254	M20×30	200	4	60

OPERATION TIME 作动时间

AIR PRESSURE:6 bar-times:s(seconds)

JEH	055	065	085	095	115	125	135	165	185	215	235	265	305
Opening	4	8	11	15	15	30	40	80	120	180	230	280	300
Closing	9	8	10	15	22	40	50	90	150	200	260	310	350

JEK	055	065	085	095	115	125	135	165	185	215	235	265	305
Opening	12	20	27	32	50	70	90	220	230	280	330	380	430
Closing	18	29	40	50	60	85	110	260	280	320	370	420	500

DOUBLE ACTING TORQUE SHEET-JEH SERIES 双动扭力表

TYPE	Operating pressure P St [bar]																Weight(kg)						
	3 bar		3.5 bar		4 bar		4.5 bar		5 bar		5.5 bar		6 bar		6.5bar			7bar		8bar		10bar	
	0	90	0	90	0	90	0	90	0	90	0	90	0	90	0	90		0	90	0	90	0	90
JEH-045	6		8		9		10		11		11.5		12		12		13		14		15		0.64
JEH-055	9.7		11.4		13		14.6		16.2		17.8		19.5		21.1		23		26		-	-	1.4
JEH-065	20.3		23.7		27.1		30.5		33.9		37.3		41		44		47		54		-	-	2.1
JEH-085	38.5		44.9		51.3		57.7		64.1		70.5		77		83		90		103		-	-	3
JEH-095	59.1		68.9		78.7		88.6		98.4		108.3		118		128		138		157		-	-	3.8
JEH-115	88		102		117		131		146		161		175		190		205		234		-	-	5.6
JEH-125	145		170		194		218		242		267		291		315		339		388		-	-	8.5
JEH-135	217		253		289		325		361		397		433		469		505		577		-	-	11.2
JEH-165	359		419		479		538		598		658		718		778		837		957		-	-	16.9
JEH-185	519		606		692		779		865		952		1038		1125		1211		1384		-	-	25.8
JEH-215	707		824		942		1060		1178		1295		1413		1531		1649		1884		-	-	32.5
JEH-235	1086		1267		1448		1629		1810		1991		2172		2353		2534		2896		-	-	40.8
JEH-265	1730		2019		2307		2596		2884		3172		3461		3749		4038		4614		-	-	69.6
JEH-305	2408		2809		3210		3612		4013		4414		4816		5217		5618		6421		-	-	129.4

1 Nm = 8.86 Lb-in
1 Lb-in = 0.113 Nm

1 Lb-in = 0.0115 Kgm
1 Bar = 14.5 Psi

1 Kgm = 9.81 Nm
1 Kgm = 86.8 Lb-in

1 Mpa = 10 Bar
1 Lb-ft = 12 Lb-in



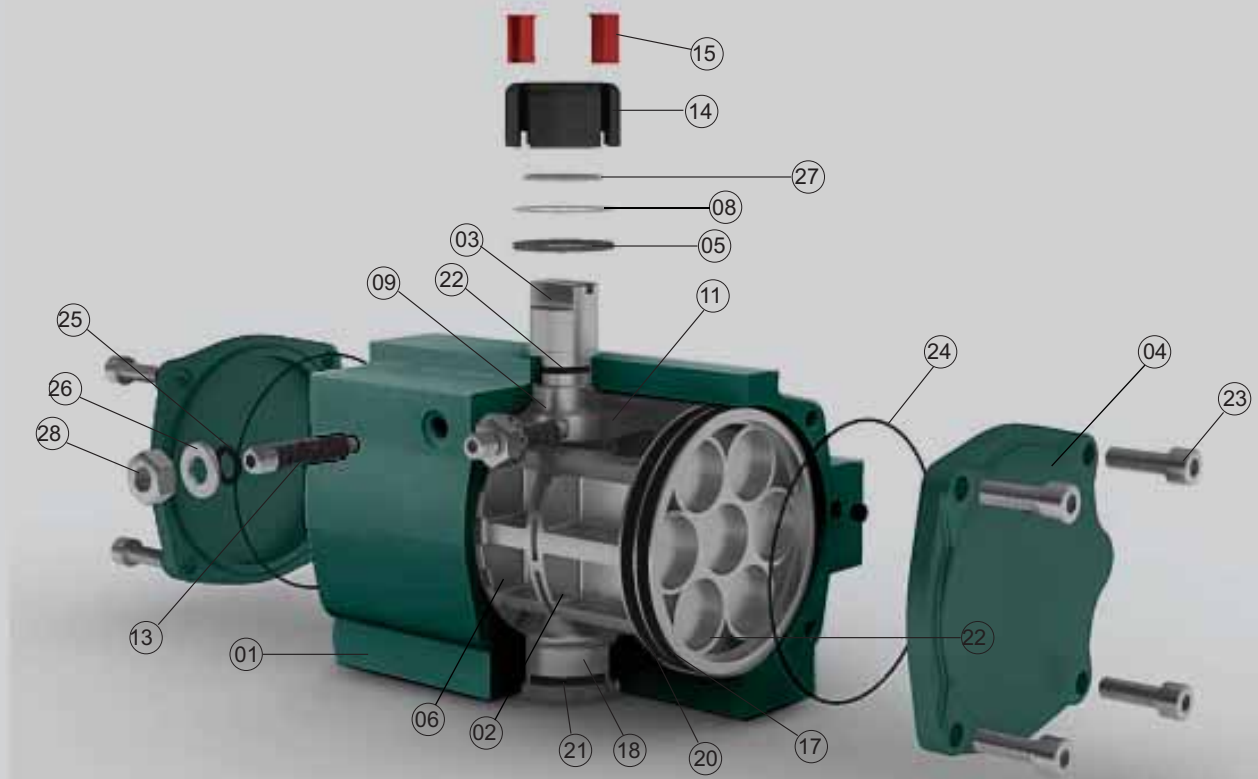
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SPRING RETURN TORQUE SHEET-JEK SERIES 单动扭力表

(Nm)

TYPE Pressure		Output Torque For Spring Return in Nm																						Weight (kg)
		3 bar		3,5 bar		4 bar		4,5 bar		5 bar		5,5 bar		6 bar		6,5bar		7bar		8bar		Springstroke		
		0	90	0	90	0	90	0	90	0	90	0	90	0	90	0	90	0	90	0	90	0	90	
JEK-055	04			8	5	9	7	11	8	13	10	14	12	16	13	17	15	19	17	22	20	4	7	1.51
	06									11	7	12	9	14	10	15	12	17	13	20	17	7	11	1.54
	08											10	5	12	7	14	9	15	10	18	14	9	15	1.56
JEK-065	04	16	14	20	17	23	20	26	24	30	27	33	30	37	34	40	37	43	41	50	47	5	8	2.17
	06	14	10	18	14	21	17	24	20	28	24	31	27	34	30	38	34	41	37	48	44	7	12	2.20
	08			15	10	19	14	22	17	26	20	29	24	32	27	36	30	39	34	46	41	10	16	2.23
	10							20	14	24	17	27	20	30	24	34	27	37	30	44	37	12	20	2.26
	12									21	13	25	17	28	20	32	24	35	27	42	34	15	24	2.29
	14												23	13	26	17	30	20	33	24	40	30	17	28
JEK-085	04	31	27	38	34	44	40	50	46	57	53	63	59	70	66	76	72	82	78	95	91	9	13	3.28
	06	27	21	34	28	40	23	47	41	53	47	59	53	66	60	72	66	79	73	92	86	13	20	3.36
	08					37	29	43	35	49	41	56	48	62	54	69	61	75	67	88	80	17	27	3.43
	10							39	29	46	36	52	42	59	49	65	55	71	61	84	74	22	33	3.51
	12									42	30	48	36	55	43	61	49	68	56	81	69	26	40	3.58
	14											45	31	51	37	58	44	64	50	77	63	30	47	3.65
JEK-095	06	43	36	52	46	62	56	72	65	82	75	92	85	102	95	111	105	121	115	141	134	19	27	4.40
	08			47	38	57	48	67	58	76	68	86	77	96	87	106	97	116	107	135	127	26	36	4.50
	10					51	40	61	50	71	60	81	70	91	80	100	89	110	99	130	119	32	45	4.60
	12							56	42	65	52	75	62	85	72	95	82	105	92	124	111	39	54	4.70
	14											70	54	80	64	89	74	99	84	119	103	45	64	4.80
JEK-115	06	61	49	76	63	90	78	105	92	119	107	134	122	149	136	163	151	178	166	207	195	31	46	6.50
	08			67	50	81	65	96	79	111	94	125	109	140	123	154	138	169	152	198	182	42	61	6.70
	10					72	52	87	66	102	81	116	96	131	110	146	125	160	139	189	169	52	77	6.90
	12							78	53	93	68	107	83	122	97	137	112	151	126	180	156	63	92	7.00
	14											99	70	113	84	128	99	142	113	172	143	73	107	7.30
JEK-125	06	102	75	126	99	151	123	175	148	199	172	223	196	247	220	272	245	296	269	344	317	51	83	9.65
	08			112	76	136	100	160	124	185	148	209	173	233	197	257	221	281	245	330	294	68	111	9.92
	10					122	76	146	101	170	125	194	149	219	173	243	198	267	222	315	270	85	138	10.20
	12							131	77	156	101	180	126	204	150	228	174	253	198	301	247	102	166	10.50
	14											165	102	190	126	214	151	238	175	287	223	119	193	10.80

TYPE Pressure		Output Torque For Spring Return in Nm																				Weight (kg)		
		3 bar		3,5 bar		4 bar		4,5 bar		5 bar		5,5 bar		6 bar		6,5bar		7bar		8bar			Springstroke	
		0	90	0	90	0	90	0	90	0	90	0	90	0	90	0	90	0	90	0	90		0	90
JEK-135	06	152	119	188	155	224	191	260	227	296	263	333	299	369	335	405	371	441	407	513	480	76	115	13.33
	08	131	86	167	122	203	158	239	194	275	231	311	267	347	303	383	339	419	375	492	447	101	153	13.84
	10					181	126	217	162	254	198	290	234	326	270	362	306	398	342	470	414	126	192	14.35
	12							196	129	232	165	268	201	304	238	340	274	376	310	449	382	152	230	14.85
	14											247	169	283	205	319	241	355	277	427	349	177	268	15.36
JEK-165	06	260	209	320	269	380	328	440	388	500	448	559	508	619	568	679	627	739	687	858	807	116	177	19.70
	08	227	159	287	218	347	278	407	338	467	398	526	458	586	518	646	577	706	637	826	757	155	236	20.30
	10			254	168	314	228	374	288	434	348	494	408	553	467	613	527	673	587	793	707	193	295	20.90
	12							341	238	401	298	461	358	521	417	580	477	640	537	760	657	232	353	21.60
	14											428	307	488	367	547	427	607	487	727	607	271	412	22.20
JEK-185	06	373	289	460	376	546	462	633	549	720	635	806	722	893	808	979	895	1066	981	1239	1154	171	271	30.10
	08	325	213	411	299	498	386	584	472	671	559	758	645	844	732	931	818	1017	905	1190	1078	229	361	31.10
	10	276	136	363	222	449	309	536	395	622	482	709	569	795	655	882	742	969	828	1142	1001	286	451	32.20
	12					401	232	487	319	574	405	660	492	747	578	833	665	920	751	1093	924	343	541	33.20
	14									525	329	612	415	698	502	785	588	871	675	1044	848	400	631	34.30
JEK-215	06	477	349	595	466	712	584	830	702	948	820	1066	937	1183	1055	1301	1173	1419	1291	1654	1526	270	421	39.30
	08	400	229	518	347	636	465	754	582	871	700	989	818	1107	936	1225	1053	1342	1171	1578	1407	360	562	41.00
	10			441	228	599	345	677	463	795	581	912	699	1030	816	1148	934	1266	1052	1501	1287	451	702	42.70
	12							600	344	718	461	836	579	954	697	1071	815	1189	933	1425	1168	541	843	44.40
	14									642	342	759	460	877	578	995	695	1113	813	1348	1049	631	983	46.00
JEK-235	6	702	509	883	690	1064	871	1245	1052	1426	1233	1607	1414	1788	1595	1969	1776	2150	1957	2512	2319	384	577	44.60
	8	574	316	755	497	936	678	1117	859	1298	1040	1479	1221	1660	1402	1841	1583	2022	1764	2384	2126	512	770	46.60
	10			627	305	808	486	989	667	1170	848	1351	1029	1532	1210	1713	1391	1894	1572	2256	1934	640	962	48.60
	12							861	474	1042	655	1223	836	1404	1017	1585	1198	1766	1379	2128	1741	768	1154	50.60
	14									914	463	1095	644	1276	825	1457	1006	1638	1187	2000	1549	896	1347	52.60
JEK-265	06	1299	1045	1587	1333	1876	1622	2164	1910	2453	2199	2741	2487	3029	2775	3318	3064	3606	3352	4283	3929	508	806	85.90
	08	1155	816	1444	1105	1732	1393	2020	1682	2309	1970	2597	2258	2886	2547	3174	2835	3462	3124	4039	3700	677	1075	89.40
	10			1300	876	1588	1165	1877	1453	2165	1742	2453	2030	2742	2318	3030	2607	3319	2895	3895	3472	846	1344	92.90
	12					1444	936	1733	1225	2021	1513	2310	1802	2598	2090	2886	2378	3175	2667	3752	3243	1015	1613	96.40
	14							1589	996	1877	1285	2166	1573	2454	1861	2742	2150	3031	2438	3608	3015	1184	1882	99.90
JEK-305	S06	1763	1262	2165	1663	2566	2065	2967	2466	3369	2867	3770	3269									758	1348	158.70
	S08	1549	880	1950	1282	2351	1683	2752	2084	3154	2485	3555	2887	3956	3288	4358	3689	4759	4091	5068	4399	1011	1797	164.70
	S10					2136	1301	2538	1702	2939	2104	3340	2505	3742	2906	4143	3307	4544	3709	4853	4017	1264	2246	170.80
	S12							2323	1320	2724	1722	3125	2123	3527	2524	3928	2926	4329	3327	4638	3636	1516	2696	176.90
	S14											2911	1741	3312	2142	3713	2544	4115	2945	4423	3254	1769	3145	182.90



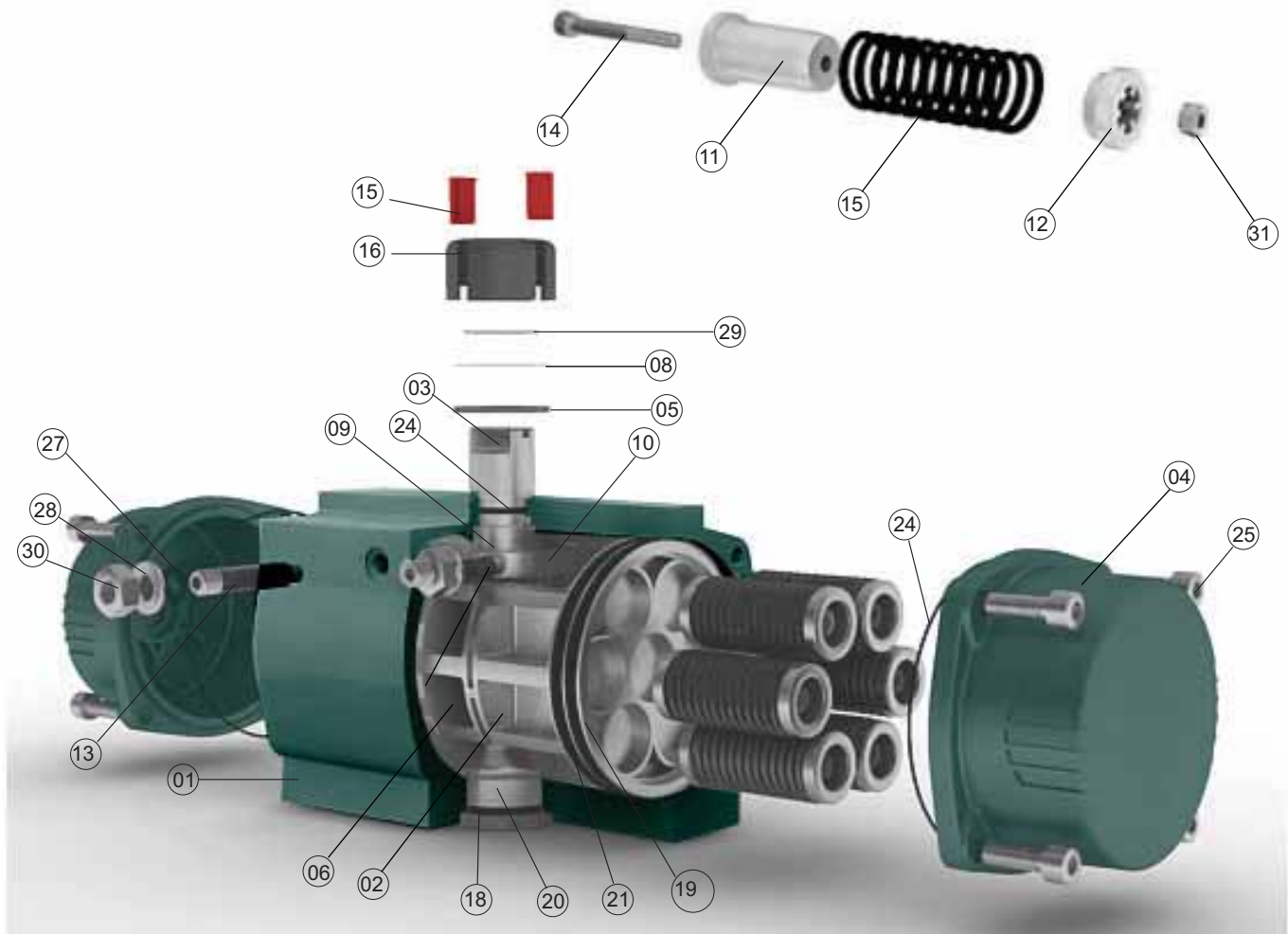
MATERIAL

NO	PART NAME	MATERIAL
1	Body	Aluminium Hard Anodized
2	Piston	Aluminium
3	Pinion	Nickel Plated Carbon Steel
4	End Caps	Aluminium Epoxy Coated
5	*Soft Pinion Washer	Polyamide PA6.6
6	*Slide Piston	Polyamide PA6.6+30%G.F.
7	**Lug	Nickel Plated Carbon Steel
8	Pinion Washer	Stainless Steel
9	*Upper Pinion Bearing	Polyamide PA6.6
10	Stop	ASTMA.105
11	Leveling Screw	Stainless Steel
12	Position Indicator	Polyamide
13	Cam	Polyamide

*Recommended spare parts

**Only for size 265&305

NO	PART NAME	MATERIAL
14	Centering Ring	Nickel Plated Carbon Steel
15	*Slide Guide	Polyamide Pa6.6+30%G.F.
16	*Lower Pinion Bearing	Polyamide Pa6.6
17	**Stop Washer Pinion	Stainless Steel
18	*O-Ring	NBR
19	*O-Ring	NBR
20	*O-Ring	NBR
21	Bolt	Stainless Steel
22	*O-Ring	NBR
23	*O-Ring	NBR
24	Washer	Stainless Steel
25	*Slip Washer	Stainless Steel
26	Nut	Stainless Steel



MATERIAL

NO	PART NAME	MATERIAL
1	Body	Aluminium Hard Anodized
2	Piston	Aluminium
3	Pinion	Nickel Plated Carbon Steel
4	End Caps	Aluminium Epoxy Coated
5	*Soft Pinion Washer	Polyamide Pa6.6
6	*Slide Piston	Polyamide Pa6.6+30%G.F.
7	**Lug	Nickel Plated Carbon Steel
8	Pinion Washer	Stainless Steel
9	*Upper Pinion Bearing	Polyamide Pa6.6
10	Stop	ASTMA.105
11	Spring'S Long Support	Polyamide Pa6.6
12	Spring'S Short Support	Polyamide Pa6.6
13	Leveling Screw	Stainless Steel
14	Bolt	Stainless Steel
15	Spring	DIN2076.D-5.6
16	Position Indicator	Polyamide

NO	PART NAME	MATERIAL
17	Cam	Polyamide
18	Centering Ring	Nickel Plated Carbon Steel
19	*Slide Guide	Polyamide Pa6.6+30%G.F.
20	*Lower Pinion Bearing	Polyamide Pa6.6
21	**Stop Washer Pinion	Stainless Steel
22	*O-Ring	NBR
23	*O-Ring	NBR
24	*O-Ring	NBR
25	Bolt	Stainless Steel
26	*O-Ring	NBR
27	*O-Ring	NBR
28	Washer	Stainless Steel
29	*Slip Washer	Stainless Steel
30	Nut	Stainless Steel
31	Nut	Stainless Steel

*Recommended spare parts

**Only for size 265&305



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CONTROL
VALVES

JML Series

Manual Override 手动装置



JML Series manual override is characterized by small size, light weight, large output torque, rational structure, easy to operate and having reliably self-latching capacity. It is suitable to control the 90° rotary butterfly valve, ball valve, cock valve and regulating valve, etc.

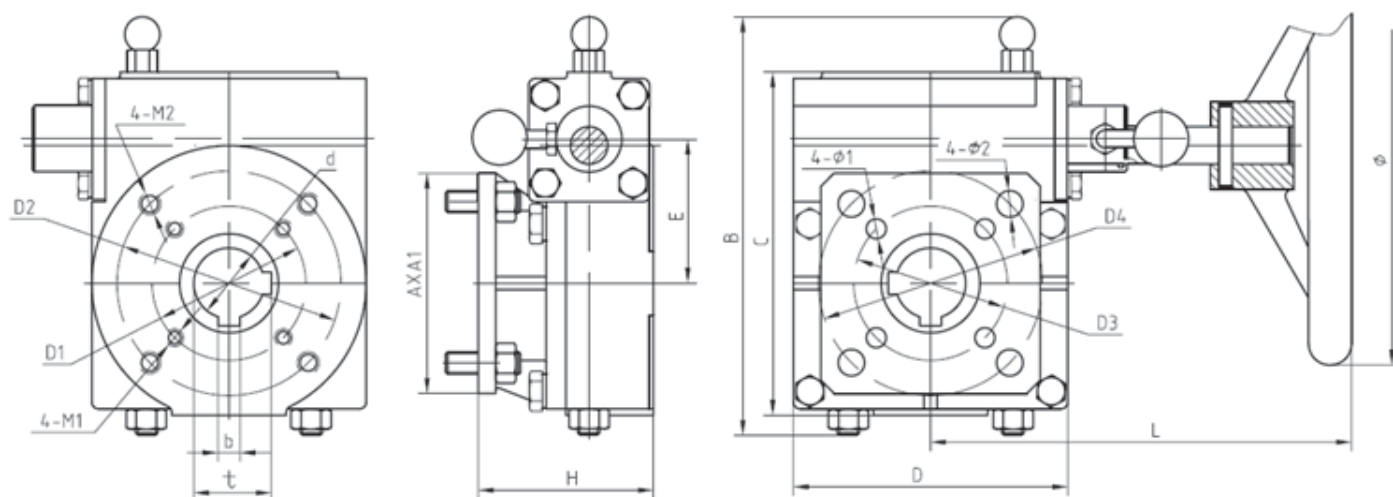
本产品与气动装置联合使用。用于 90° 开启的蝶阀、球阀、旋塞阀等阀门。体积小、重量轻、样式新颖。提起限位销，旋转偏心装置 180°，限位销自动限位，实现气动；反之，实现手动。产品系列化，输出转矩与气动装置、各种阀门匹配。

TECHNICAL SPECIFICATION 技术资料

MATERIAL

PART NAME	普通型	可选材质
箱体	灰铁	球铁
蜗轮	球铁	铝青铜
蜗杆	45	
蜗杆轴	45	不锈钢

JML-15 ~ 35



型号	d	b	t	D1	4-M1	D2	4-M2	AxA1	D3	4-Φ2	D4	4-Φ2
JML-15	18	6	20.8	70	4-M8			64x64	70	4-Φ9		
	22.2	8	25.5	70	4-M8			64x64	70	4-Φ9		
JML-20	22.2	8	25.5	70	4-M8			100x70	70	4-Φ9		
	32	10	35.5	70	4-M8	102	4-M10	100x100	70	4-Φ9	102	4-Φ12
	38	10	41.3			102	4-M10	110x110			125	4-Φ14
	45	14	48.8			102	4-M10	130x130			140	4-Φ18
JML-25	36	10	39.3	102	4-M10	125	4-M12	110x110	102	4-Φ12	125	4-Φ14
	48	14	51.8	102	4-M10	140	4-M16	130x130			140	4-Φ18
	60	18	64.4			140	4-M16	156x156			140	4-Φ22
JML-30	48	14	51.8	140	4-M16			135x156	140	4-Φ18	165	
	60	18	64.4	156	4-M20			156x156	165	4-Φ22		
JML-35	48	14	51.8	140	4-M16			135x156	140	4-Φ18		
	60	18	64.4	156	4-M20			156x156	165	4-Φ22		



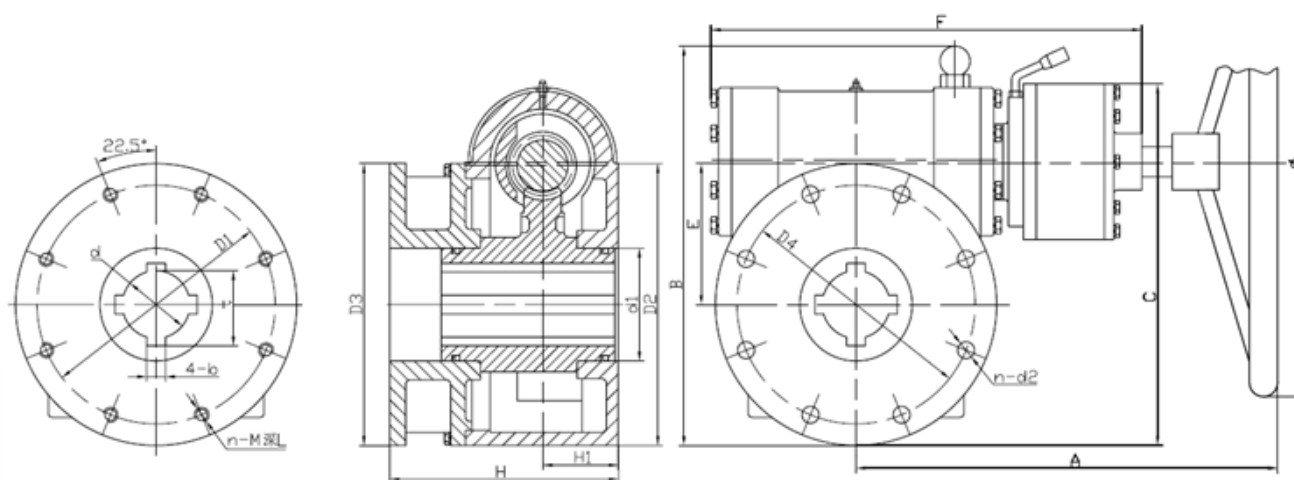
JDV CONTROL VALVES

型号	H	Φ	HxH	L	B	C	D	E
JML-15	71	200	14x14	192	166	130	104	50.5
	71	200	14x14	192	166	130	104	50.5
JML-20	79	200	17*17	195	191	156	125	65.5
	79	200	22*22	195	191	156	125	65.5
	82	250	27*27	225	191	156	125	65.5
	88	300	36*36	225	191	156	125	65.5
JML-25	86	250	27*27	233	234	200	175	85.5
	95	300	36*36	233	234	200	175	85.5
	103	300	46*46	233	234	200	175	85.5
JML-30	114	300	36*36	271	311	279	234	123
	114	400	46*46	277	311	279	234	123
JML-35	120	300	36*36	2365	363	322	276	141.6
	120	600	46*46	265	363	322	276	141.6

型号	速比	输入扭矩 (N.m)	输出扭矩	手轮直径	重量 (Kg)
JML-15	26:1	60	300	Φ 200	6.7
JML-20	38:1	60	550	Φ 200	13
		75	620	Φ 250	
		90	700	Φ 300	
JML-25	54:1	100	1000	Φ 250	17
		120	1200	Φ 300	
JML-30	80:1	110	1600	Φ 300	22
		140	2000	Φ 400	
JML-35	78:1	200	3100	Φ 600	31



JML-60 ~ 80



型号	输出扭矩 (N.m)	d	b	t	d 1	与阀连接		
						D2	D1	n-M 深 L
JML-60	7000	55.1	16	59.3	100	300	254	8-M16*25
		75	20	79.9	120	300	254	8-M16*25
JML-80	18000	110	28	116.4	160	415	298	8-M20*30

型号	与执行器连接			A	B	C	E	F	H	H1	Φ
JML-60	300	254	8-Φ18	463	435	384.5	152	461	244	81	500
	300	254	8-Φ18								
JML-80	350	298	8-Φ22	646	616	566	230	570	278	89	700



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