

4.65

PNEUMATIC ROTARY ACTUATOR

VALVOIND Srl Via Pascoli, 5 - 24060 Bagnatica (Bergamo) Tel. 035.681919-Fax. 035.684461

Valvoind

valvole industriali



Body Anodized aluminum body
Endcaps Epoxy painted aluminum endcaps

USAGE CONDITIONS:

Air supply : from 3 upto 8 bar
Temperature : from -20°C upto +80°C
 (on request) : from -50°C upto +100°C
 : from +20°C upto +150°C

Drive medium : air lubricated or dry air, Non corrosive gas, water, oil

Ends detail : according to ISO 5211/DIN 3337 standards

Body : it can be installed inside and outdoor

Lubrication : no needs

Stroke : regulating quarter turn

Test : each actuator tested and certified

Shaft : nickel-plated steel

Piston : die-cast aluminum

Guide : acetate natural resin

Orings : nitrile rubber 60IRHD

Springs : SiCr

Bolt : stainless steel



TORQUE DOUBLE ACTION (DA)

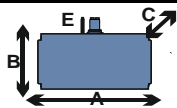
CLASS	ITEM	AIR SUPPLY						
		2	3	4	5	5,5	6	7
S	S.01.DA	2,9	4,4	5,8	7,3	8	8,8	10,2
	S.03.DA	7,9	11,9	15,8	19,8	21,7	23,7	27,7
	S.05.DA	16,9	25,4	33,8	42,3	46,5	50,7	59,2
	S.10.DA	33,8	50,7	67,6	84,5	93	101,4	118,3
C	TDA.12	40,8	61,3	81,7	102	112,3	122,5	142
	TDA.20	67,3	101	134,6	168	185,1	201,9	235
	TDA.35	125	187	249	312	343	374	437
	TDA.55	199	298	398	497	547	597	696
	TDA.70	275	412	550	587	756	825	962
	TDA.100	374	561	748	935	1029	1122	1309
	TDA.150	552	827	1103	1379	1517	1655	1931
	TDA.250	883	1324	1765	2206	2427	2648	3089
TDA.400	1601	2402	3202	4003	4403	4803	5604	

CODE	ITEM	Running time				Air consumption				Total weight (Kg)	
		Double effect		Spring return eff.		liter		cubic inch		double	spring
		ON	OFF	ON	OFF	ON	OFF	ON	OFF	action	return
KP00101	S.01.DA	<1	1	-	-	0,004	0,06	2,44	3,65	0,6	-
KP00102	S.03.DA	<1	1	1	1	0,009	0,12	5,49	7,32	1	1,1
KP00103	S.05.DA	<1	1	1	1	0,18	0,24	10,98	14,65	1,8	1,9
KP00104	S.10.DA	<1	1	1	1	0,38	0,5	23,18	30,52	2,8	2,9
KP00204	TDA.12	1,5	1,5	1,5	1	0,49	0,64	29,9	39,05	4,1	4,7
KP00205	TDA.20	2	2	2	1,5	0,9	1	54,92	61,02	6,3	7
KP00206	TDA.35	2,5	2,5	2,5	2	1,69	1,9	103,12	115,94	10,5	12
KP00207	TDA.55	3,5	3,5	3,5	3	2,8	3,4	170,86	207,47	18,2	20,6
KP00208	TDA.70	4	4	4	3	3,05	3,7	186,12	225,79	20,4	24,1
KP00209	TDA.100	4,5	4,5	5,5	3	5,52	5,9	336,85	360,04	31,2	35,8
KP00210	TDA.150	5	5	7	4	7,6	9,6	463,75	585,83	44,4	52,8
KP00301	TDA.250	7	7	8	5	8,5	9,8	518,03	598,03	59	84
KP00401	TDA.400	12	12	13	10	13,6	17,5	892,92	1037,92	107	135



TORQUE VALUE (Nm) SPRING RETURN ACTUATOR

CODE	ITEM	spring number		spring torque		air supply							
		external	internal	start	end	4 bar		5 bar		5,5 bar		6 bar	
						0°	90°	0°	90°	0°	90°	0°	90°
KR00308	S.03.SR	8		10,48	5,36	10,4	5,3	11,8	7,9	16,4	11,2	18,3	13,2
KR00310		10		13,1	6,7			13,1	6,7	15	8,6	17	10,6
KR00311		11		14,41	7,37					14,4	7,3	16,3	9,3
KR00312		12		15,72	8,04					13,7	6	15,7	8
KR00508	S.05.SR	8		21,76	12	21,8	12	30,3	20,5	34,5	34,7	38,7	28,9
KR00510		10		27,2	15			27,3	15,1	31,5	19,3	35,7	23,5
KR00511		11		29,92	16,5					30	16,6	34,2	20,8
KR00512		12		32,64	18					28,5	13,8	32,7	18,1
KR01008	S.10.SR	8		40,96	26,72	40,9	26,6	57,8	43,5	66,2	52	74,7	60,4
KR01010		10		51,2	33,4			51,1	33,3	59,6	41,8	68	50,2
KR01011		11		56,32	36,74					56,2	36,6	64,7	45,1
KR01012		12		61,44	40,08					52,9	31,5	61,3	40
KR01201	TSR.12	4	0	52,4	28,8	52,9	29,3	120,6	81,5	83,5	59,9	93,7	70,1
KR01202		4	2	65,5	36	54,7	16,2	108,6	59,8	76,3	46,8	86,5	57
KR01203		4	3	72,1	39,6			102,6	48,9	72,7	40,3	82,9	50,5
KR01204		4	4	78,6	43,2			96,7	38,1	69,1	33,7	79,3	43,9
KR02001	TSR.20	4	0	86,8	47,7	86,9	47,8	223,4	151	137,4	98,3	154,2	115,1
KR02002		4	2	108,5	53,7	75	26,1	201,3	110,8	125,4	76,6	142,3	93,4
KR02003		4	3	119,4	65,5			190,2	90,7	119,5	65,8	136,3	82,6
KR02004		4	4	130,2	71,6			179,2	70,6	113,5	54,9	130,3	71,7
KR03501	TSR.35	4	0	160,8	88,4	161	88,7	356,3	240,9	254,6	182,2	285,7	213,4
KR03502		4	2	201	110,5	138,9	48,5	321	176,8	232,5	142	263,6	173,2
KR03503		4	3	221,1	121,6			303,4	144,7	221,4	121,9	252,6	153,1
KR03504		4	4	241,2	132,6			285,8	112,7	210,4	101,8	241,5	133
KR05501	TSR.55	4	0	256,4	141	256,8	141,4	493	333	406	290,6	455,7	340,3
KR05502		4	2	320,5	176,3	221,6	77,3	444	245	370,7	226,5	420,5	279,2
KR05503		4	3	352,6	193,9			420	201	353,1	194,5	402,8	244,2
KR05504		4	4	384,6	211,5			395	156	335,5	162,4	385,2	212,2
KR07001	TSR.70	4	0	354	195	355	196	670	453	561	402	630	471
KR07002		4	2	443	243	306	107	604	333	513	314	581	382
KR07003		4	3	487	268			571	272	488	269	557	338
KR07004		4	4	531	292			538	212	464	225	533	294
KR10001	TSR.100	4	0	482	265	483	266	988	668	764	547	857	640
KR10002		4	2	603	331	417	146	890	491	697	426	791	520
KR10003		4	3	663	365			842	402	664	366	758	459
KR10004		4	4	723	398			793	313	631	306	725	399
KR15001	TSR.150	4	0	711	391	712	392	1600	1270	1126	806	1264	944
KR15002		4	2	889	489	615	215	1398	958	1028	629	1166	766
KR15003		4	3	977	538			1297	802	979	540	1117	678
KR15004		4	4	1066	586			1196	646	931	451	1069	589
KR25006	TSR.250	6		936	606	1159	829	1600	1270	1821	1491	2042	1712
KR25008		8		1248	808	957	517	1398	958	1619	1179	1840	1400
KR25009		9		1404	909			1297	802	1518	1023	1739	144
KR25010		10		1560	1010			1196	646	1417	867	1638	1088
KR40010	TSR.400	10		1820	1180	2022	1382	2823	2183	3223	2583	3623	2983
KR40012		12		2184	1416	1786	1018	2587	1819	2987	2219	3387	2619
KR40015		15		2730	1770			2233	1273	2633	1673	3033	2073
KR40016		16		2912	1888					2515	1491	2915	1891



Technical data

double	S.01.DA	S.03.DA	S.05.DA	S.10.DA	TDA.12	TDA.20	TDA.35	TDA.55	TDA.70	TDA.100	TDA.150	TDA.250	TDA.400
single		S.03.SR	S.05.SR	S.10.SR	TSR.12	TSR.20	TSR.35	TSR.55	TSR.70	TSR.100	TSR.150	TSR.250	TSR.400
ISO5211	F03	F04	F05/F07	F05/F07	F05/F07	F07	F07/F10	F12	F12	F14	F14	F16	F25
effect	ISO5211												

A	103	149,5	186,5	206	194	218	266	312	340	361	390		
B	45	70	87	118	118,5	140,5	166,5	207,5	207,5	250	300		
C	51	69,5	90,5	113	121	136,5	156	191	191	227	280		
E	20	20	20	20	20	20	20	30	30	30	30		

COMPRESSED AIR ACCESSORIES

ACTUATOR / VALVE COMBINATION

VALVOIND Srl Via Pascoli, 5 - 24060 Bagnatica (Bergamo) Tel. 035.681919-Fax. 035.684461

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BRASS THREADED BALL VALVE



valve	\varnothing	\varnothing 1/4"	\varnothing 3/8"	\varnothing 1/2"	\varnothing 3/4"	\varnothing 1"	\varnothing 1 1/4"	\varnothing 1 1/2"	\varnothing 2"	\varnothing 2 1/2"	\varnothing 3"	\varnothing 4"
	Nm	2	2,7	5,4	8	10	14	20	33	47	80	105
	ISO5211	F03	F03	F03	F04	F04	F05	F05	F05			

actuator	SR	S03.SR8	S03.SR8	S03.SR10	S05.SR8	S05.SR8	S05.SR10	S10.SR8	S10.SR10	TSR20.40	TSR35.40	TSR35.42
	ISO5211	F04	F04	F04	F05/F07	F05/F07	F05/F07	F05/F07	F05/F07	F07	F07/F10	F07/F10
	DA	S.01.DA	S.01.DA	S.01.DA	S.01.DA	S.03.DA	S.03.DA	S.03.DA	S.05.DA	S.10.DA	S.10.DA	TDA.12
	ISO5211	F03	F03	F03	F03	F04	F04	F04	F05/F07	F05/F07	F05/F07	F05/F07

2 WAY AISI THREADED BALL VALVE



valve	\varnothing	\varnothing 1/4"	\varnothing 3/8"	\varnothing 1/2"	\varnothing 3/4"	\varnothing 1"	\varnothing 1 1/4"	\varnothing 1 1/2"	\varnothing 2"	\varnothing 2 1/2"	\varnothing 3"	\varnothing 4"
	Nm	7	7	8	12	17	24	33	50	60	100	135
	ISO5211				F05	F05	F07	F07	F07	F10	F10	F10

actuator	SR	S03.SR11	S03.SR11	S05.SR8	S05.SR8	S10.SR8	S10.SR8	S10.SR10	TSR20.2	TSR20.3	TSR35.2	TSR55.0
	ISO5211	F04	F04	F05/F07	F05/F07	F05/F07	F05/F07	F05/F07	F07	F07	F07/F10	F12
	DA	S.01.DA	S.01.DA	S.01.DA	S.03.DA	S.03.DA	S.05.DA	S.05.DA	S.10.DA	S.10.DA	TDA.12	TDA.20
	ISO5211	F03	F03	F03	F04	F04	F05/F07	F05/F07	F05/F07	F05/F07	F05/F07	F07

3 WAY AISI THREADED BALL VALVE



valve	\varnothing	\varnothing 1/4"	\varnothing 3/8"	\varnothing 1/2"	\varnothing 3/4"	\varnothing 1"	\varnothing 1 1/4"	\varnothing 1 1/2"	\varnothing 2"
	Nm	6	6	6	20	30	40	52	69
	ISO5211			F03	F03	F04	F04	F05	F05

actuator	SR	S03.SR10	S03.SR10	S03.SR10	S10.SR8	S10.SR10	TSR20.0	TSR20.2	TSR35.0
	ISO5211	F04	F04	F04	F05/F07	F05/F07	F07	F07	F07/F10
	DA	S.01.DA	S.01.DA	S.01.DA	S.03.DA	S.05.DA	S.05.DA	S.10.DA	S.10.DA
	ISO5211	F03	F03	F03	F04	F05/F07	F05/F07	F05/F07	F05/F07

WAFER BALL VALVE



valve	DN	15	20	25	32	40	50	65	80	100	125	150
	Nm	9	17	25	35	45	50	80	100	160	300	360
	ISO5211		F04	F04	F05	F05	F05	F07	F07	F07	F10	F10

actuator	SR	S05.SR8	S10.SR	S10.SR8	S10.SR11	TS.20.0	TS.20.2	TS.35.0	TS.35.2	TS.55.2	TS100.3	TS100.2
	ISO5211	F05/F07	F05/F07	F05/F07	F05/F07	F07	F07	F07/F10	F07/F10	F12	F14	F14
	DA	S.03.DA	S.03.DA	S.05.DA	S.05.DA	S.05.DA	S.10.DA	S.10.DA	TDA.12	TDA.20	TDA.35	TDA.55
	ISO5211	F04	F04	F05/F07	F05/F07	F05/F07	F05/F07	F05/F07	F05/F07	F07	F07/F10	F12

WAFER & LUG BUTTERFLY VALVE



valve	DN	40	50	65	80	100	125	150	200	250	300	350	400
	Nm	18	35	41	51	81	107	162	279	482	864	1020	1323
	ISO5211	F07	F07	F07	F07	F07	F07	F07	F07	F10	F10	F10	F14

actuator	SR	S10.SR8	S10.SR11	TS.20.0	TS.20.2	TS.35.0	TS35.2	TS55.2	TS100.2	TS150.2	TS250.9	TS400.10	TS400.12
	ISO5211	F05/F07	F05/F07	F07	F07	F07/F10	F07/F10	F12	F14	F14	F16	F25	F25
	DA	S.01.DA	S.05.DA	S.05.DA	S.10.DA	S.10.DA	TDA.12	TDA.20	TDA.35	TDA.55	TDA.100	TDA.100	TDA.150
	ISO5211	F03	F05/F07	F05/F07	F05/F07	F05/F07	F05/F07	F07	F07/F10	F12	F14	F14	F14

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BOX - REDUCERS - BRACKET FOR ROTARY PNEUMATIC ACTUATOR

VALVOIND Srl Via Pascoli, 5 - 24060 Bagnatica (Bergamo) Tel. 035.681919-Fax. 035.684461

Valvoid

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KS 010
BOX WITH 2 LIMITSWITCHES FOR ROTARY PNEUMATIC ACTUATORS

- Body and lid in phosphochromatised aluminum - Polyester coating (black color)
- Indicator cover in UV resistant and self-extinguishing V0 polycarbonate
- Three-dimensional two-color position indicator
- No. 2 threaded cable entries 1/2 "npt-f
- No. 2 electromechanical SPDT microswitches ,. (resistive load) 5A @ 250VAC,
- Complete with limit switch box assembly kit (model to be specified)

CODE	MODEL	TYPE	BRACKET
KS01001	SM0120N-2	IP 65	KNXX
KS01002	SF01200-2	IP 67	KNXX
KS01101	SY01200-2	II 2G Ex d IIC T6-T4 e II 2D ExtD B21	KNXX
KS01102	SXC4200-2	Ex II 2 GD EEx d IIB T4/T5/T6	KNXX


KS 100
GEAR BOX

- All gearboxes are self-locking and have a minimum of play to avoid vibrations
 All units are sealed and completely waterproof, suitable for outdoor use. High temperature lubricant is available on request.
 The adjustment is +/- 5% in both opening and closing. The standard unit is subjected to epoxy-based basic and final painting.
 The coupling flange is in accordance with the ISO 5211 standard


KS 200..
BRACKET ISO 5211 - ZINC PLATED STEEL DIN 3337

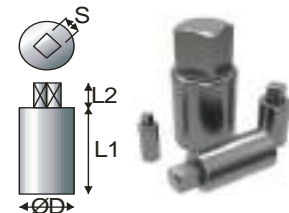
CODE	...01	...02	...03	...04	...05	...06	...07	...08	...09
ACTUATOR	F03	F04	F04	F05	F05	F05	F07	F07	F07
VALVE	F03	F04	F03	F05	F04	F03	F07	F05	F04

CODE	...10	...11	...12	...13	...14	...15	...16	...17	...18
ACTUATOR	F07	F10	F10	F10	F10	F12	F12	F12	F12
VALVE	F03	F10	F07	F05	F04	F12	F10	F07	F05

CODE	...19	...20	...21	...22	...23	...24	...25	...26
ACTUATOR	F14	F14	F14	F14	F16	F16	F16	F16
VALVE	F14	F12	F10	F07	F16	F14	F12	F10


KS 300..
TRANSMISSION - EXTENDER (D-L1-L2-S)

...03	...04	...05	...06	...07
25-59-12-11	25-59-15-14	30-59-15-14	35-59-15-14	30-59-18-17
...08	...09	...10	...11	...12
35-59-18-17	45-59-18-17	35-79-23-22	45-79-23-22	55-79-23-22
...13	...14	...15	...16	...17
45-79-28-27	55-79-28-27	55-89-37-36	70-118-48-46	70-178-58-55


EV 170
SOLENOID VALVES

3/5 WAY NAMUR VALVE		
MODEL	1 SOLENOID	2 SOLENOIDS
STANDARD = IP 65	EV 17002	EV 17202
EEXia IIC ATEX EX II 1GD	EV 17051	EV 17251
EEX d IIC T6 ATEX EX II 2 GD	EV 17061	EV 17261



Same features ad page
4.81 of our catalogue

3 WAY SOLENOID VALVE										
CODE	TYPE	COIL	Ø	Ø int.	KV	DIFF.PRESS (bar)			POWER	
						min.	max.		VA	W
							AC	DC		
EV14101	C02 B	C 3	1/8"	2,4	2,2	0	10	10	13	8
EV14102	C02 C	C 3	1/4"	2,4	2,3	0	10	10	13	8



power: 24 - 115 - 220 - 240 V double frequency 50/60Hz

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COMPRESSED AIR ACCESSORIES

STRAINERS - REDUCERS - LUBRICATOR - FITTINGS

VALVOIND Srl Via Pascoli, 5 - 24060 Bagnatica (Bergamo) Tel. 035.681919-Fax. 035.684461



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KV 9..
ACCESSORIES FOR COMPRESSED AIR PLANTS

CODE	Ø	THREADED AIR FILTER REGULATOR FOR COMPRESSED AIR
KV 91802	1/4"	Air filter regulator 0÷8 bar
KV 91803	3/8"	Technopolymer body - 20µ HDPE filter element
KV 91804	1/2"	Cup with condensation drain cock c / impact protection

CODE	Ø	THREADED STRAINER FOR COMPRESSED AIR
KV 91902	1/4"	Technopolymer body - 20µ HDPE filter element
KV 91903	3/8"	Polycarbonate cup with condensation drain cock
KV 91904	1/2"	with impact protection
KV 91906	1"	ON REQUEST
KV 91909	2"	ON REQUEST

CODE	Ø	THREADED REDUCER FOR COMPRESSED AIR
KV 92002	1/4"	Reducer regulator 0÷8 bar
KV 92003	3/8"	Technopolymer body pressure 12 bar
KV 92004	1/2"	complete of integrated manometer 0...12 bar

CODE	Ø	THREADED LUBRICATOR FOR COMPRESSED AIR
KV 92102	1/4"	With variable passage orifice depending on the flow rate
KV 92103	3/8"	Adjustment of the quantity of lubricant.
KV 92104	1/2"	Possibility to recharge with pressurized system

CODE	Ø	THREADED SOLENOID VALVE FOR COMPRESSED AIR
KV 92202	1/4"	3-way valve - low-absorption electric drive
KV 92203	3/8"	Tensions: 12/24 V dc - 24/110/220 V ac
KV 92204	1/2"	directly coupled to other systems

CODE	Ø	BRACKET
KV 93002	1/4"	Size 1
KV 93003	3/8"	Size 2
KV 93004	1/2"	Size 3

KV 940..
FITTINGS FOR COMPRESSED AIR PLANTS


Linear		
KV 94001	Ø 1/4"	Ø 6
KV 94002	Ø 1/4"	Ø 8
KV 94003	Ø 1/4"	Ø 10
KV 94301	Ø 3/8"	Ø 6
KV 94302	Ø 3/8"	Ø 8
KV 94303	Ø 3/8"	Ø 10
KV 94401	Ø 1/4"M	Ø 1/4"M
KV 94402	Ø 3/8"M	Ø 3/8"M
KV 94403	Ø 1/2"M	Ø 1/2"M
KV 94501	Ø 1/4"M	Ø 1/4"F
KV 94502	Ø 3/8"M	Ø 3/8"F
KV 94503	Ø 1/2"M	Ø 1/2"F



Elbow		
KV 95001	Ø 1/4"	Ø 6
KV 95002	Ø 1/4"	Ø 8
KV 95003	Ø 1/4"	Ø 10
KV 95101	Ø 3/8"	Ø 6
KV 95102	Ø 3/8"	Ø 8
KV 95103	Ø 3/8"	Ø 10
KV 95201	Ø 1/4"M	Ø 1/4"M
KV 95202	Ø 3/8"M	Ø 3/8"M
KV 95203	Ø 1/2"M	Ø 1/2"M
KV 95301	Ø 1/4"M	Ø 1/4"F
KV 95302	Ø 3/8"M	Ø 3/8"F
KV 95303	Ø 1/2"M	Ø 1/2"F



"T"		
KV 96001	Ø 6	Ø 6
KV 96002	Ø 8	Ø 8
KV 96003	Ø 10	Ø 10



KV 97001	Air exhaust filter	Ø 1/8"
KV 97002		Ø 1/4"
KV 97101	Flow regulator with strainer	Ø 1/8"
KV 97102		Ø 1/4"

