Hovercraft

Double Effect or Spring Return Pneumatic Actuator

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Pneumatic actuator with ISO 5211 connection
Anodized aluminum body, nickel plated steel pinion
Flange, end caps and pistons in die cast aluminum
Steel coated springs with technopolymer cartridge
Torque range (at 6bar air supply):

- Up to 3800Nm for double effect versions
- Up to 1400Nm for spring return versions

Allow opening/closing ±10° travel regulation

NAMUR VDI/VDE 3845 upper connection for accessories
NAMUR VDI/VDE 3845 connection for solenoid valve
ISO228/1 ¼" connection for supply fluid
Allowable supply fluid pressures from 1bar to 10bar
Working conditions: -20°C to +80°C.

TECHNICAL DATA

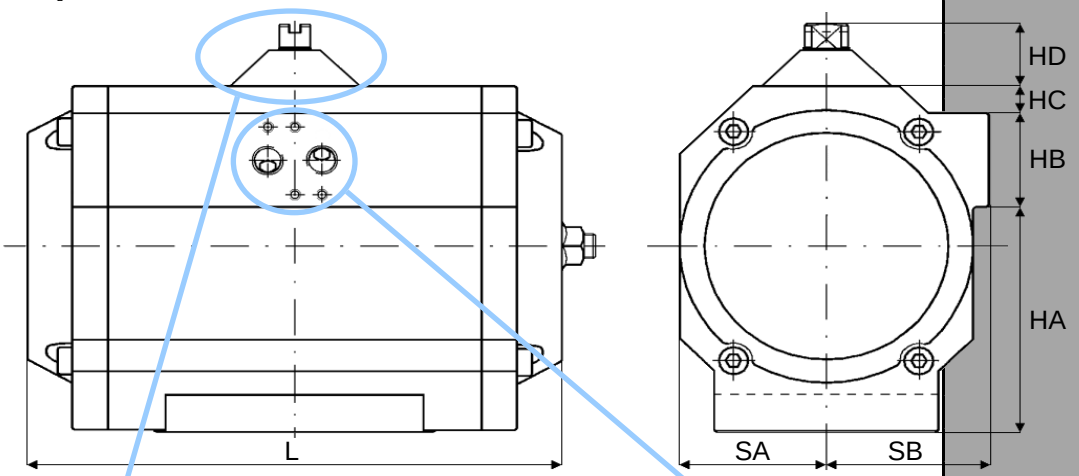
Model	Type	Version	Torque[1]	# of Springs	Air cons.[2]
KAHOVER15.801	UT15	Double effect	33Nm	-	0,41lt
KAHOVER16.801	UT17	Double effect	44Nm	-	0,55lt
KAHOVER17.801	UT20	Double effect	60Nm	-	0,71lt
KAHOVER18.801	UT25	Double effect	91Nm	-	1,10lt
KAHOVER19.801	UT30	Double effect	121Nm	-	1,40lt
KAHOVER20.801	UT35	Double effect	193Nm	-	2,45lt
KAHOVER21.801	UT40	Double effect	242Nm	-	3,05lt
KAHOVER22.801	UT45	Double effect	377Nm	-	4,40lt
KAHOVER23.801	UT50	Double effect	544Nm	-	6,80lt
KAHOVER24.801	UT55	Double effect	725Nm	-	9,00lt
KAHOVER25.801	UT60	Double effect	1099Nm	-	14,10lt
KAHOVER26.801	UT65	Double effect	1450Nm	-	16,60lt
KAHOVER27.801	UT70	Double effect	2838Nm	-	27,10lt
KAHOVER41.801	UT75	Double effect	3805Nm	-	31,40lt
KAHOVER28.801	UT15	Spring return	12Nm	4+4	0,18lt
KAHOVER29.801	UT17	Spring return	17Nm	5+5	0,25lt
KAHOVER30.801	UT20	Spring return	25Nm	5+5	0,29lt
KAHOVER31.801	UT25	Spring return	35Nm	5+5	0,48lt
KAHOVER32.801	UT30	Spring return	50Nm	5+5	0,65lt
KAHOVER33.801	UT35	Spring return	77Nm	5+5	1,20lt
KAHOVER34.801	UT40	Spring return	99Nm	5+5	1,60lt
KAHOVER35.801	UT45	Spring return	126Nm	4+4	1,85lt
KAHOVER36.801	UT50	Spring return	233Nm	5+5	2,90lt
KAHOVER37.801	UT55	Spring return	298Nm	5+5	4,10lt
KAHOVER38.801	UT60	Spring return	483Nm	5+5	5,50lt
KAHOVER39.801	UT65	Spring return	588Nm	5+5	7,10lt
KAHOVER40.801	UT70	Spring return	1161Nm	7+7	9,60lt
KAHOVER42.801	UT75	Spring return	1410Nm	7+7	11,70lt

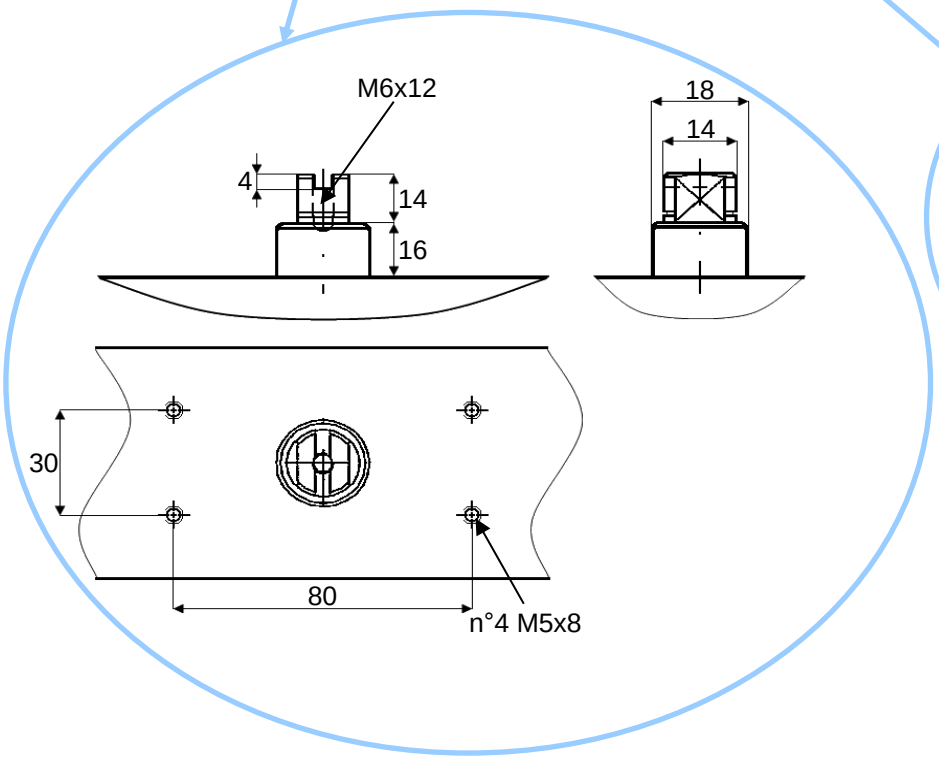
[1]Indicated torques valid for 6bar air supply (see torque sections)
[2]Indicated air consumption valid for complete opening/closing cycle

DIMENSIONS

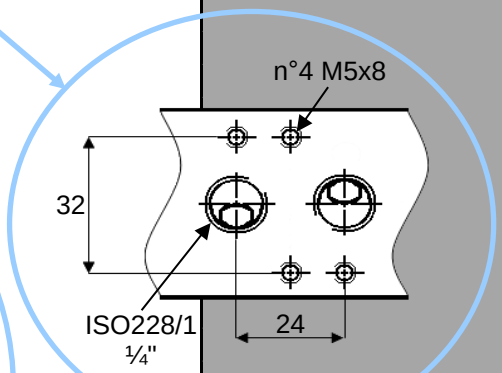
Type	Flange	Connect.	SA [mm]	SB [mm]	L [mm]	HA [mm]	HB [mm]	HC [mm]	HD [mm]	Weight[1] [kg]
UT15	F05, F07	⌾14	35	50	165	43	45	3	30	1,83 / 2,02
UT17	F05, F07	⌾14	35	50	197	43	45	3	30	2,35 / 2,59
UT20	F05, F07	⌾17	43	53	177	63	45	5	30	2,87 / 3,25
UT25	F05, F07	⌾17	43	53	239	63	45	5	30	4,00 / 4,52
UT30	F05, F07	⌾17	52	61	230	80	45	8	30	4,84 / 5,57
UT35	F07, F10	⌾22	66	73	246	108	45	13	30	7,58 / 9,02
UT40	F07, F10	⌾22	66	73	290	108	45	13	30	9,03 / 10,71
UT45	F07, F10	⌾22	73	78	351	116	45	17	30	12,46 / 15,02
UT50	F10, F12	⌾27	91	94	361	149	45	24	30	17,80 / 22,63
UT55	F10, F12	⌾27	91	94	418	149	45	24	30	22,18 / 27,00
UT60	F10, F12	⌾36	116	119	444	202	45	28	30	36,30 / 45,90
UT65	F10, F12	⌾36	116	119	502	202	45	28	30	42,80 / 52,40
UT70	F16	⌾46	166	166	587	134	65	134	30	66,80 / 82,96
UT75	F16	⌾46	166	166	677	134	65	134	30	81,60 / 98,00

[1]For double effect and spring return respectively
Adaptors to flanges and connections different from those indicated available on request
Dimensions on drawings are in mm





Detail of pinion and connection for accessories NAMUR VDI/VDE 3845



Detail of connection for solenoid valve NAMUR VDI/VDE 3845

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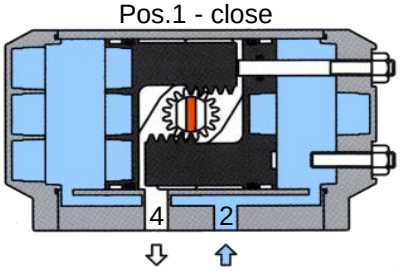
TORQUE (DOUBLE EFFECT VERSION)

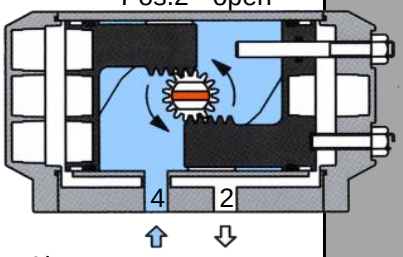
Model	2bar [Nm]	3bar [Nm]	4bar [Nm]	5bar [Nm]	6bar [Nm]	7bar [Nm]	8bar [Nm]	9bar [Nm]	10bar [Nm]
KAHOVER15.801	11,0	16,5	22,0	27,6	33,0	38,5	44,0	49,5	55,0
KAHOVER16.801	14,5	21,7	29,0	36,2	43,5	50,7	58,0	65,2	72,5
KAHOVER17.801	20,0	30,0	40,0	50,0	60,0	70,0	80,0	90,0	100,0
KAHOVER18.801	30,2	45,3	60,4	75,5	90,6	105,7	120,8	135,9	151,0
KAHOVER19.801	40,0	60,3	80,4	100,5	120,6	140,7	160,8	180,9	201,0
KAHOVER20.801	64,4	96,6	128,8	161,1	193,3	225,5	257,7	289,9	322,1
KAHOVER21.801	80,6	120,9	161,2	201,5	241,8	282,2	322,5	362,8	403,1
KAHOVER22.801	125,8	188,7	251,6	314,5	377,4	440,3	503,2	566,1	629,0
KAHOVER23.801	181,2	271,8	362,4	453,0	543,6	634,2	724,8	815,4	906,0
KAHOVER24.801	241,6	362,3	483,1	603,9	724,7	845,5	966,3	1087,1	1207,8
KAHOVER25.801	366,4	549,6	732,8	916,0	1099,2	1282,4	1465,6	1648,8	1832,0
KAHOVER26.801	483,2	724,8	966,4	1208,0	1449,6	1691,2	1932,8	2174,4	2416,0
KAHOVER27.801	946,0	1419,0	1892,0	2365,0	2838,0	3311,0	3784,0	4257,0	4730,0
KAHOVER41.801	1268,0	1903,0	2537,0	3171,0	3805,0	4439,0	5074,0	5709,0	6342,0

Close by supplying air to port 2

Pos.1 - close



Pos.2 - open



Open by supplying air to port 4

Air in = ⇧ ⇩ = Air out

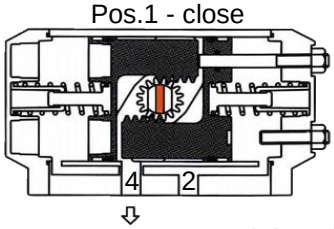
TORQUE (SPRING RETURN VERSION)

Model	# Spring base cfg	2bar [Nm]	3bar [Nm]	4bar [Nm]	5bar [Nm]	6bar [Nm]	> 6bar [Nm]
KAHOVER28.801	4+4	- / 3,0[1]	- / 6,0[2]	5,1 / 9,1[3]	10,6	12,1	12,1
KAHOVER29.801	5+5	- / 3,6[1]	- / 7,2[2]	- / 10,8[3]	10,1 / 14,4[4]	17,4	18,0
KAHOVER30.801	5+5	- / 6,2[2]	- / 10,4[2]	5,4 / 15,6[3]	15,4 / 20,8[4]	25,4	26,0
KAHOVER31.801	5+5	- / 8,1[2]	- / 14,0[2]	5,1 / 20,9[3]	20,2 / 27,9[4]	34,9	34,9
KAHOVER32.801	5+5	- / 11,9[2]	- / 21,1[2]	9,7 / 31,6[3]	29,8 / 42,2[4]	49,9	52,7
KAHOVER33.801	5+5	- / 17,9[2]	- / 34,6[2]	12,6 / 52,0[3]	44,9 / 68,1[4]	77,1	86,6
KAHOVER34.801	5+5	- / 23,6[2]	- / 41,9[2]	18,6 / 62,8[3]	58,9 / 83,7[4]	99,2	104,7
KAHOVER35.801	4+4	- / 31,6[1]	- / 63,1[2]	50,8 / 94,7[3]	113,7	126,2	126,2
KAHOVER36.801	5+5	- / 56,9[2]	- / 98,1[2]	51,6 / 147,2[3]	142,2 / 196,2[4]	232,8	245,3
KAHOVER37.801	5+5	- / 73,7[2]	- / 119,1[2]	63,4 / 178,1[3]	184,2 / 238,3[4]	297,8	297,8
KAHOVER38.801	5+5	- / 124,2[2]	- / 193,1[2]	127,2 / 289,6[3]	310,4 / 386,2[4]	482,7	482,7
KAHOVER39.801	5+5	- / 166,1[2]	- / 249,1[3]	173,6 / 352,8[3]	415,2 / 470,5[4]	588,1	588,1
KAHOVER40.801	7+7	- / 346,0[2]	- / 519,0[3]	- / 694,0[5]	688,0 / 927,0[6]	1161,0	1212,0
KAHOVER42.801	7+7	- / 403,0[2]	- / 619,0[4]	- / 933,0[5]	925,0 / 1208[6]	1410,0	1410,0

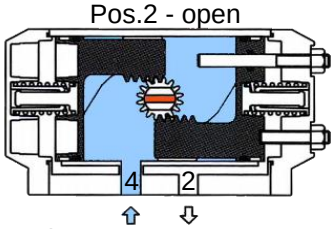
[1]Removing springs from cylinders to 1+1 spring configuration
[2]Removing springs from cylinders to 2+2 spring configuration
[3]Removing springs from cylinders to 3+3 spring configuration
[4]Removing springs from cylinders to 4+4 spring configuration
[5]Removing springs from cylinders to 5+5 spring configuration
[6]Removing springs from cylinders to 6+6 spring configuration

Air failure, actuator is closed by springs

Pos.1 - close



Pos.2 - open



Open by supplying air to port 4

Air in = ⇧ ⇩ = Air out

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