

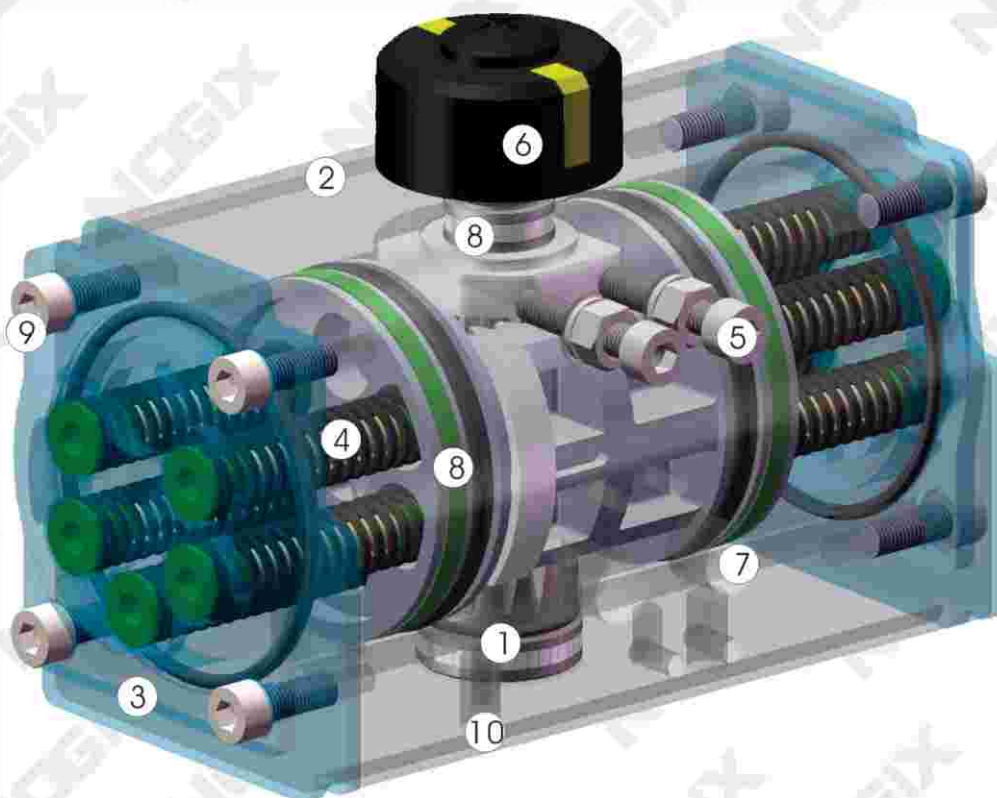
NOGIX FAMCO

هایپر صنعت

Pneumatic Actuator NOG BT Series



NOG BTS / NOG BTS series of new valve pneumatic actuator



NOGBTD/NOGBTS new rack and pinion pneumatic actuator by the NOGIX company combines the latest technology at home and abroad, through the three-dimensional model of innovation and optimization of CAD design, beautiful shape compact, modern styling; and adopt practical new materials, new processes, so that the product quality, more reliable; more standard selection of more affordable; products fully meet the latest international standards, technical specifications, to meet current and future needs.

① dual piston rack and pinion design of symmetric structures, rapid and smooth movement, high precision, high output power by a simple change in the direction of the piston assembly positions available anti-rotation.

② high quality extruded aluminum alloy cylinder block, by precision machining the hole and the external surface of hard anodized (anodic oxidation under special circumstances + Teflon coating), longer life, low friction coefficient.

③ integrated design, all the double acting and single-function actuator models have the same cylinder and end caps, easily removed by installing a spring or spring to change the mode of action.

④ combined pre-spring break Hearwhale group, whether in the assembly process or use on-site in both convenient and safe to install or change the

⑤ the external side of the two single independent adjustment screw has been number of springs, installed in the valve for the actuator is precisely to facilitate, control valve open and valve closed position, For the whole trip conditioned office is also configured in two cover a longer adjustment screws.

⑥ multi-position indicator, on-site visual instructions, consistent with VDI/VDE3845, NAMUR standard slot, the output can be installed and all the accessories, such as limit switch box, electric positioner, position sensor (Pepperl and Fuchs, Turck).

⑦ gas source interface line NAMUR standard, direct safety plaques NAMUR standard solenoid valve.

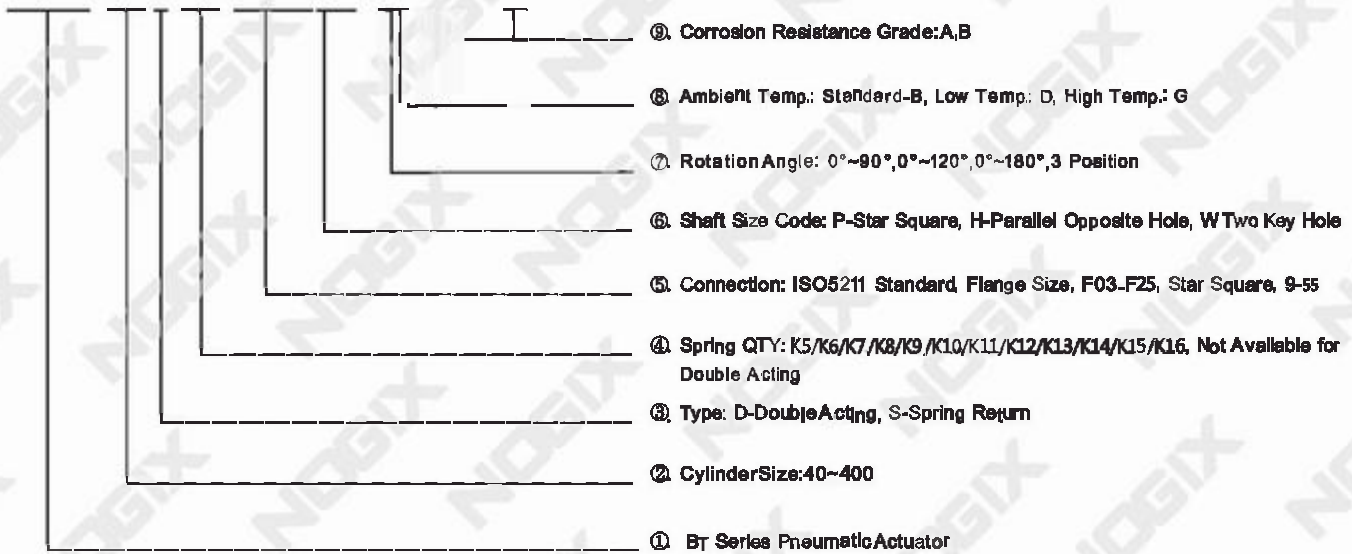
⑧ rack on the back of the composite bearing and piston guide ring and the output shaft bearings to prevent metal on metal friction and increasing lubrication, so a low friction, long life.

⑨ All fasteners are stainless steel, long-term corrosion resistance.

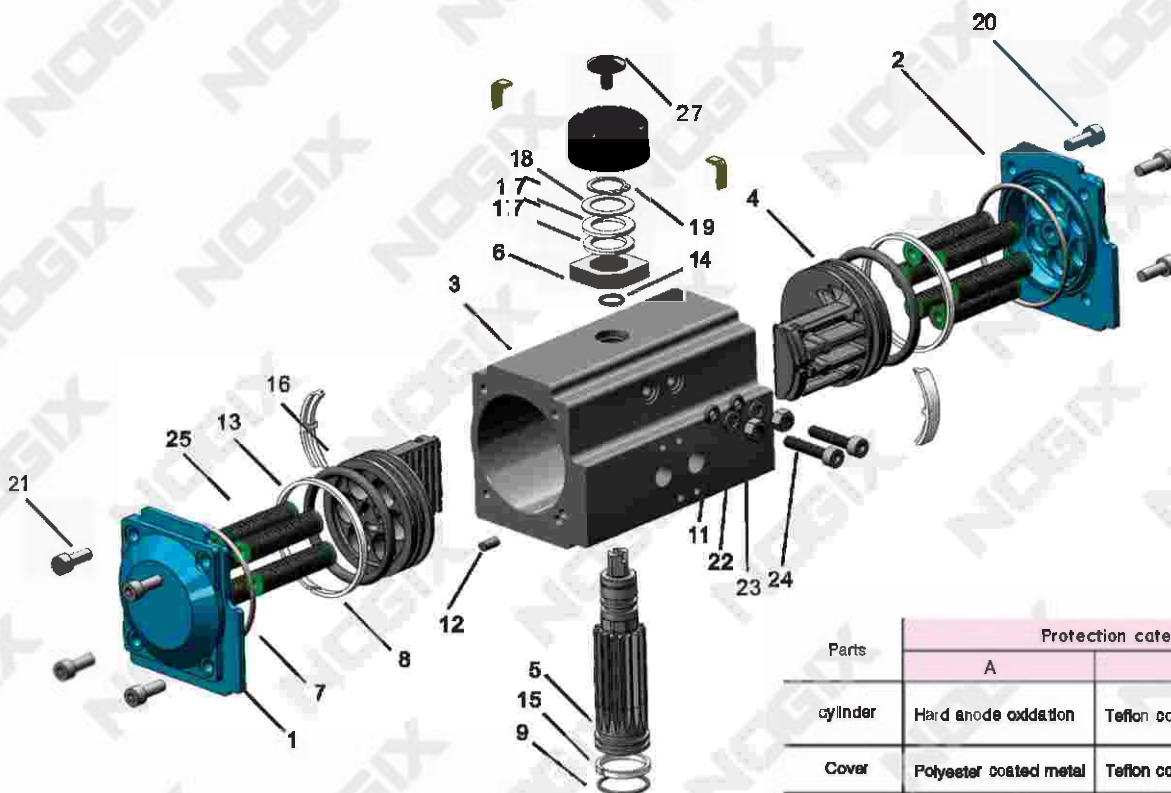
⑩ connection part of the line with new International standard ISO5211, DIN3337 (F03-F25) makes products with interchangeable, versatile.

Model preparation

NOGBT-160 S-K10 F1 0/12 P27-90-B-A



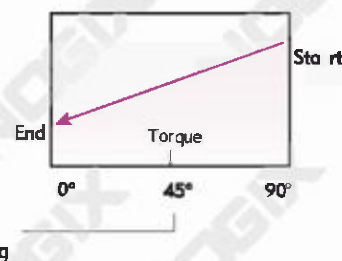
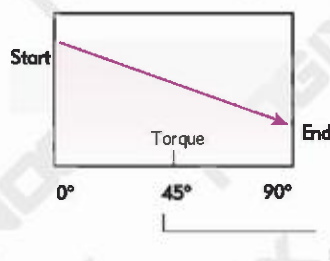
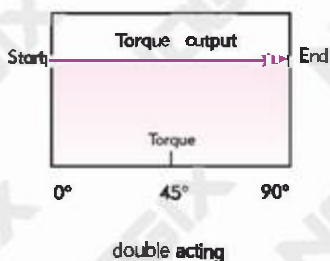
Components and materials, corrosion



Parts	Protection category	
	A	B
Cylinder	Hard anode oxidation	Teflon coating+ Anode selenols
Cover	Polyester coated metal	Teflon coating
Output shaft	Carbon steel electroless nickel plating	Electroless nickel plating or stainless steel
Use Occasion	General situation	General occasions or low concentrations of acidic environment

Part Number	Each number	Part Name	Standard Materials	Selected materials
01	1	Left Cover	Aluminum Die Casting	Stainless steel
02	1	Right Cover	Aluminum Die Casting	Stainless steel
03	1	body	Aluminum die casting	Stainless steel
04	2	Piston	Aluminum Die Casting	—
05	1	O-ring (left)	Carbon Steel	Stainless steel
06	1	Cam adjustment	Stainless steel	—
07*	2	O-ring (cover)	NBR	Fluorine or silicone rubber
08*	2	O-ring (Piston)	NBR	Fluorine or silicone rubber
09*	1	O-ring (output shaft bottom)	NBR	Fluorine or silicone rubber
10*	1	O-ring (output shaft at the top)	NBR	Fluorine or silicone rubber
11*	2	O-ring (adjusting screw)	NBR	Fluorine or silicone rubber
12*	2	Plug (Cylinder)	NBR	Fluorine or silicone rubber
13*	2	Bearing (Piston)	POM	—
14*	1	Bearing (output shaft at the top)	POM	—
15*	1	Bearing (output shaft bottom)	POM	—
16*	1	Guidewheel Bearing (Piston track)	POM	—
17*	2	Thrust bearings (output shaft)	POM	—
18	2	Gasket (output shaft)	Stainless steel	—
19	1	Flexible ring	Spring steel	—
20	4	Cover bolt	Stainless steel	—
21	4	Cover Gasket	Stainless steel	—
22	2	Gasket	Stainless steel	—
23	2	Nut	Stainless steel	—
24	2	Adjustment bolt	Stainless steel	—
25	5-12	Spring Components	Alloy spring steel	—
26	1	Position indicator	POM	—
27	1	Screw of indicator	POM	—

Torque Diagram



Double Acting Operation

Selection of double action actuators

The suggested safety factor for double acting actuators under normal working conditions is 20%-30%

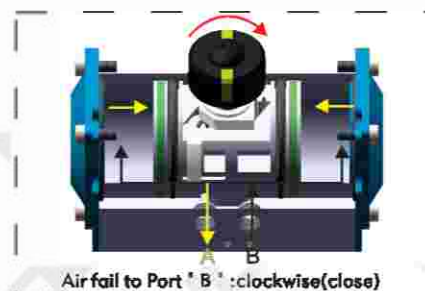
Example:

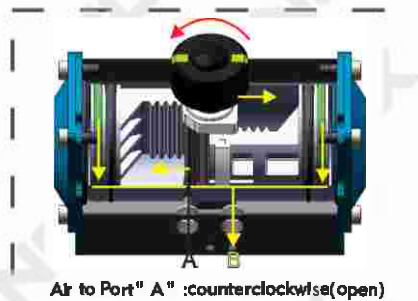
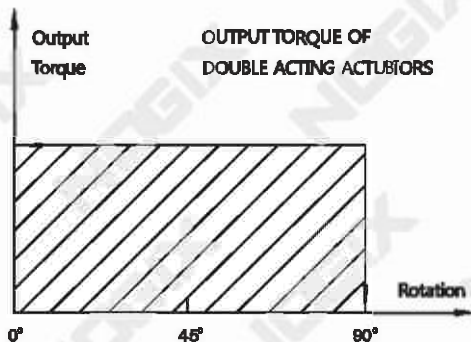
● The torque needed by valve = 100 N.m

● The torque considered safety factor $100 \times (1 + 30\%) = 130 \text{ N.m}$

● Air Supply = 5 Bar

According to double acting torque table, we can choose the minimum model is BT-10SD.





* Pistons must be inverted to reverse actuator rotation

Spring Return Operation

Selection of single action actuators

Under normal operating conditions, a single actuator to consider the role of the safety factor of 30%-50%.

Forexample:

Valve required torque = 100N.m

Safety torque = $100 \times (1 + 30\%) = 130 \text{ N.m}$

according to single acting actuator output torque table, we can find BT-140SK10

Torque following

Implementation process $0^\circ = 216.8 \text{ N.m}$ at

Implementation process $90^\circ = 175.8 \text{ N.m}$ air

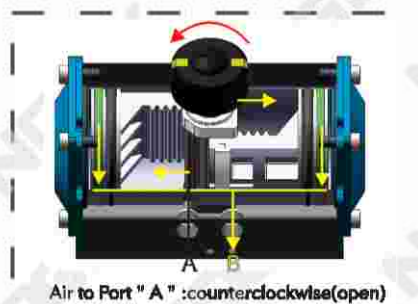
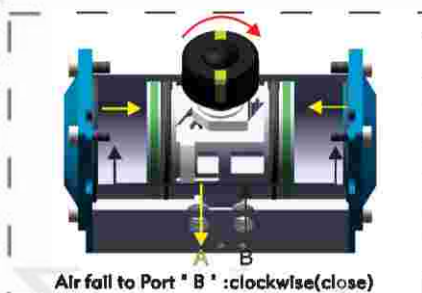
Spring stroke $0^\circ = 172 \text{ N.m}$

Spring stroke $90^\circ = 258 \text{ N.m}$

output Torque bigger than all our needs

Note:

Single action during the spring return actuators, actuator B hole ventilation does not affect actuator output torque. Instead it's helpful of spring return



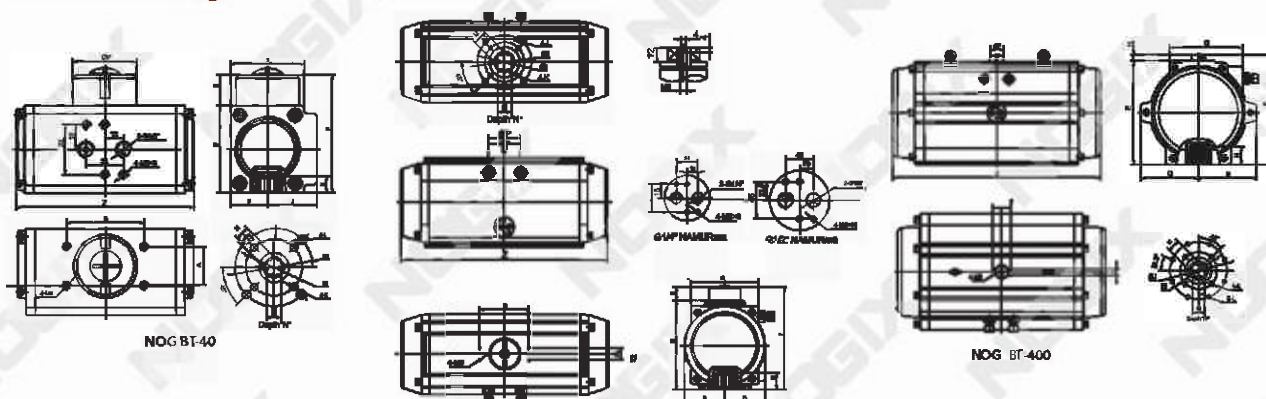
* Spring force makes the actuator clockwise when the air is exhausted at port "A"

* When air fall to counter-clockwise is required, the pistons must be inverted

Double Acting Actuator Output Torque(Nm)

Model	Air supply pressure(Unit:Bar)								
	3bar	3.5bar	4bar	4.5bar	5bar	5.5bar	6bar	7bar	8bar
NOGBT-40D	5.7	8.7	7.6	8.6	9.6	10.5	11.4	13.3	15.2
NOGBT-52D	12.0	14.0	15.0	16.0	20.0	22.0	24.0	26.0	32.0
NOGBT-63D	21.0	24.5	28.0	31.5	35.0	38.5	42.0	49.0	58.0
NOGBT-75D	30.0	35.0	40.0	45.0	50.0	55.0	60.0	70.0	80.0
NOGBT-83D	45.7	53.3	61.0	68.6	76.2	83.8	91.4	106.7	121.9
NOGBT-92D	67.4	78.7	89.9	101.2	112.4	123.6	134.9	157.4	179.8
NOG BT-105D	97.5	113.9	130.2	146.4	162.7	179.0	195.2	227.8	260.9
NOGBT-125D	152.2	177.6	203.0	226.3	253.7	279.1	304.4	355.2	405.9
NOGBT-140D	260.3	309.7	347.0	390.4	433.8	477.2	520.6	607.3	694.1
NOGBT-160D	395.6	462.7	528.8	594.9	661.0	727.1	793.2	925.4	1057.6
NOGBT-190D	639.3	746.9	852.4	959.0	1066.6	1172.1	1278.6	1491.7	1704.8
NOGBT-210D	781.0	911.2	1041.4	1171.6	1301.7	1431.9	1562.0	1822.4	2082.7
NOGBT-240D	1147.6	1338.8	1530.1	1721.3	1912.6	2103.9	2295.1	2677.6	3060.2
NOGBT-270D	1742.9	2033.4	2323.8	2614.3	2904.8	3195.3	3485.8	4066.7	4647.7
NOG BT-300D	2390.8	2789.3	3187.8	3586.2	3984.7	4383.2	4781.6	5576.6	6375.5
NOGBT-350D	3580	4176	4773	5369	5966	6563	7159	8352	9546
NOG BT-400D	5100	5950	6800	7650	8500	9350	10200	11900	13600

Dimensional Drawing



Dimension

NOG BT-52, NOG BT-63, NOG B-75, NOG BT-83, NOG BT-92, NOG BT-105, NOG BT-125
NOG BT-140, NOG BT-160, NOG BT-190, NOG BT-210, NOG BT-240, NOG BT-270, NOG BT-300, NOG BT-350

Unit (mm)

Model	A	B	C	D	E	F	G	H	I	I-1	J	J-1	K	L	M	N	P	Z	Air
NOG BT-40	25	50	24	32	56	76	48	20	36	F03	50	F05	M5×8	M6×10	9	10	42	110	1/8"
NOG BT-52	30	80	30	42.5	72.4	92.4	50.5	20	36	F03	50	F05	M5×8	M6×10	11	14	42	150	1/4"
NOG BT-63	30	80	36	47	88.5	108.5	69.5	20	50	F05	70	F07	M6×10	M8×13	14	18	42	171	1/4"
NOG BT-75	30	80	42.5	53	100	120	78	20	50	F05	70	F07	M6×10	M8×13	14	18	42	186	1/4"
NOG BT-83	30	80	46.5	57	109.5	129.5	86	20	50	F05	70	F07	M6×10	M8×13	17	21	42	206	1/4"
NOG BT-92	30	80	50	58	117	137	90	20	50	F05	70	F07	M6×10	M8×13	17	21	42	265	1/4"
NOG BT-105	30	80	57.5	64	135	155	104.5	20	70	F07	102	F10	M8×13	M10×16	22	26	42	272	1/4"
NOG BT-125	30	80	67.5	74.5	157	187	120.5	30	70	F07	102	F10	M8×13	M10×16	22	26	62	304	1/4"
NOG BT-140	30	80	75.5	75.5	174	204	125	30	102	F10	125	F12	M10×16	M12×20	27	32	62	395	1/4"
NOG BT-160	30	130	87	87	198	228	143	30	102	F10	125	F12	M10×16	M12×20	27	32	80	462	1/4"
NOG BT-190	30	130	103	103	232	262	172	30			140	F14		M16×25	36	40	80	552	1/4"
NOG BT-210	30	130	113	113	257	287	194	30			140	F14		M16×25	36	40	90	556	1/4"
NOG BT-240	30	130	130	130	292	322	230	30			165	F16		M20×30	46	50	90	630	1/4"
NOG BT-270	30	130	147	147	331	361	252	30			165	F16		M20×30	46	50	90	750	1/2"
NOG BT-300	30	130	161	172	354	384	290	30			165	F16		M20×30	46	50	90	772	1/2"

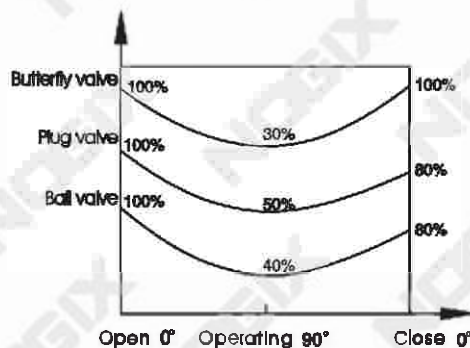
Single Acting Actuator Output Torque(Nm)

Airpressure		Spring Torque																Spring Torque					
Model	Spring Qty	2.5bar		3.0bar		3.5bar		4.0bar		4.5bar		5.0bar		5.5bar		6.0bar		7.0bar		8.0bar		0° Start	90° End
		0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End				
NOG BT-62S	5	6.7	3.8	7.7	5.8	9.7	7.8	11.7	9.8	13.7	11.8	15.7	13.8	17	14.6	18.1	16.1	21.3	18.1	24.4	20.9	6.2	4.3
	6	5	2.8	7	4.6	9	6.8	11	8.8	13	10.8	15	12.6	17	14.6	18.1	16.1	21.3	18.1	24.4	20.9	7.4	5
	7			8.1	6.4	10.1	8.1	12.1	10.1	14.1	12.1	16.1	14.1	18.1	16.1	20.4	18.1	24.4	20.9	28.5	24.4	8.6	5.9
	8					11.1	9.1	13.1	11.1	15.1	13.1	17.1	15.1	19.1	17.1	21.3	19.1	24.4	20.9	30.6	26.5	9.9	6.7
	9					12.1	10.1	14.1	12.1	16.1	14.1	18.1	16.1	20.4	18.1	22.7	20.4	24.4	20.9	32.7	28.6	11.1	7.6
	10					13.1	11.1	15.1	13.1	17.1	15.1	19.1	17.1	21.3	19.1	23.8	21.3	24.4	20.9	34.8	30.7	12.4	8.5
	11					14.1	12.1	16.1	14.1	18.1	16.1	20.4	18.1	22.7	20.4	25.9	23.8	24.4	20.9	36.9	32.8	13.6	9.3
	12					15.1	13.1	17.1	15.1	19.1	17.1	21.3	19.1	23.8	21.3	27.0	24.9	24.4	20.9	39.0	34.9	14.8	10.2
	5	10.7	7.1	14.2	10.6	17.7	14.1	21.2	17.6	24.7	21.1	28.2	24.6	30.3	26	32.4	28.9	38.1	32.3	43.7	37.2	10.4	6.8
	6	8.3	5	12.8	8.5	16.3	12	19.8	15.5	23.3	19	26.8	22.5	28.9	24.6	31.1	27.6	36.7	30.2	41.3	34.8	12.5	8.2
	7			11.4	8.4	14.9	9.9	18.4	14.4	21.9	17.9	25.4	21.4	27.7	23.7	29.9	25.9	34.9	28.4	43.3	36.8	14.6	9.6
	8					15.9	11.9	19.4	15.4	22.9	18.9	26.4	22.4	28.7	24.7	31.9	27.9	36.9	30.4	45.3	38.8	16.7	10.9
NOG BT-68S	5	14.6	10.6	19.6	15.6	24.6	20.6	29.6	25.6	34.6	30.6	39.6	35.6	42.3	37.6	45.2	40.3	53.1	46.8	61	53.9	14.5	10.5
	6	12.3	7.8	17.3	12.6	22.3	17.8	27.3	22.8	32.3	27.8	37.3	32.8	40.2	34.7	42.2	36.7	49.1	42.8	56.1	48.9	17.4	12.7
	7			15.2	9.7	20.2	14.7	25.2	19.7	30.2	24.7	35.2	29.7	38.1	31.8	43.1	36.8	51	43.9	61	53.9	20.3	14.8
	8					18.1	11.8	23.1	16.8	28.1	21.8	33.1	26.5	39	32.9	44.1	37.8	53.1	45.9	63	55.9	23.2	16.9
	9							21	18.9	31	23.9	35.1	28.5	41.9	33.9	45.1	38.8	55.1	47.9	65	57.9	26.1	19
	10									32.9	24.9	36.1	29.5	43.9	35.9	47.1	40.8	57.1	49.9	67	59.9	29	21.1
	11																					31.9	23.2
	12																					34.7	25.3
	5	22.2	16	28.9	22.7	37.5	30.3	46.2	38	52.8	45.8	68.4	53.2	72.7	62.3	84.7	68.6	98.1	81.9	108.1	91.9	23	15.8
	6	19.0	13.4	26.7	18.1	34.3	26.7	42	33.4	48.8	41	57.2	48.6	61.7	51.6	74.1	58.1	87.1	70.9	97.1	80.9	27.6	19
	7			23.8	13.6	31.2	21.1	38.8	28.6	46.5	38.4	54.1	44	61.7	51.6	69.3	51.6	81.4	69.9	88.4	80.5	32.2	22.1
	8					26	16.5	35.7	24.2	43.3	31.8	50.9	39.4	58.5	47	68.1	47	81.4	69.9	88.4	80.5	36.8	25.3
9					32.5	19.6			50.9	38.4	64.1	52.6	84.8	72.7	94.1	81.9	103.1	90.9	118.1	101.9	41.4	28.5	
10									57.2	44.8	70.9	58.4	94.1	81.9	103.1	90.9	118.1	101.9	128.1	111.9	46	31.6	
11																					50.6	34.6	
12																					55.2	38	
NOG BT-92S	5	32.8	21.7	44.1	33	55.4	44.3	66.8	55.5	77.9	66.8	89.1	78	95.8	82.4	102.2	88.6	120.1	102.4	137.9	117.9	34.4	23.3
	6	28.1	14.9	38.4	28.2	50.7	37.5	61.9	48.7	73.2	60	74.2	64.4	81.7	68.3	97.6	84.2	110.7	93.1	128.1	111.1	41.2	28
	7			34.7	19.3	46	30.6	57.2	41.8	68.5	53.1	73.7	64.3	86.3	75.5	102.2	88.6	120.1	102.4	137.9	117.9	48.1	32.7
	8					41.4	28.7	62.9	45.9	76.1	61.7	79.1	67.4	91.6	78.2	107.2	93.8	120.1	102.4	137.9	117.9	55	37.3
	9							68.5	51.5	85.9	67.7	84.8	74.1	101.6	86.3	107.2	93.8	120.1	102.4	137.9	117.9	61.9	42
	10									89.1	71.9	84.8	74.1	101.6	86.3	107.2	93.8	120.1	102.4	137.9	117.9	68.7	48.7
	11																					75.6	51.4
	12																					82.5	56
	5	49.7	32.1	66	48.4	82.3	64.7	98.6	81	114.8	97.2	131.1	113.5	141	119.9	150.9	110.1	177.2	149.1	205.4	171.7	49.2	31.6
	6	43.3	22.2	59.6	38.6	76.9	54.8	92.2	71.1	108.4	87.3	124.7	103.6	141	119.9	150.9	110.1	177.2	149.1	205.4	171.7	59.1	38
	7			53.3	28.7	69.8	45	85.9	61.8	102.1	77.5	118.4	93.8	134.7	110.1	144.8	100.3	177.2	149.1	205.4	171.7	68.9	44.3
	8					63.3	35.2	73.3	41.8	89.1	65.9	94.8	74.1	125.6	101.6	150.9	110.1	177.2	149.1	205.4	171.7	78.7	50.6
9																					88.5	56.9	
10																					98.4	63.3	
11																					108	69.6	
12																					118	75.9	
NOG BT-126S	5	74.8	47.8	160.2	73.2	125.8	88.5	151	124	178.3	149.2	201.7	174.7	218.1	186.1	231.4	186.1	271.2	230.2	311.9	264.9	79	52
	6	83.6	32.6	89.2	58.2	114.8	83.6	140	109	185.3	134	190.7	159.7	218.1	186.1	231.4	186.1	271.2	230.2	311.9	264.9	94	63
	7			79.2	42.2	104.8	87.8	130	98	156.3	118.3	180.7	143.7	201.7	169.7	218.1	186.1	271.2	230.2	311.9	264.9	110	73
	8					98.5	52.6	119	78	144.3	103	169.7	128.7	195.1	154.1	220.4	154.1	271.2	230.2	311.9	264.9	125	84
	9							109	62	134.3	87.3	159.7	112.7	185.1	144.1	210.4	144.1	271.2	230.2	311.9	264.9	141	94
	10									123.3	71.3	148.7	96.7	174.1	122.1	199.4	122.1	250.2	198.2	300.9	248.9	157	105
	11																					173	115
	12																					188	125
	5	130.9	87.9	174.3	181.3	217.7	174.7	281	218	304.4	281	347.6	304.9	374.2	322.2	400.8	298.2	470.3	401.3	539.1	462.1	129	86
	6	113.9	61.9	157.3	105.3	200.7	148.7	244	192	287.4	235	330.8	278.8	347.2	295.2	374.2	298.2	470.3	401.3	539.1	462.1	155	103
	7			140.3	79.3	186.7	87.7	227	166	270.4	209	313.8	262.8	347.2	295.2	374.2	298.2	470.3	401.3	539.1	462.1	181	120
	8							218	141	253.4	184	328.8	277.8	347.2	295.2	374.2	298.2	470.3	401.3	539.1	462.1	206	137
9							192	115	238.4	158	313.8	262.8	347.2	295.2	374.2	298.2	470.3	401.3	539.1	462.1	232	155	
10									218.4	132	328.8	277.8	347.2	295.2	374.2	298.2	470.3	401.3	539.1	462.1	258	172	
11																					284	189	
12																					310	206	
NOG BT-																							

Single Acting Actuator Output Torque(Nm)

Air pressure		Spring Torque																		Spring Torque			
Model	Spring Q-ty	2.5bar		3.0bar		3.5bar		4.0bar		4.5bar		5.0bar		5.5bar		6.0bar		7.0bar		8.0bar		0° Start	90° End
		0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End		
NOGBT-350B	5	1810	1281	2407	1878	3003	2474	3800	3071	4198	3887	4783	4254	5155	4620	5517	4180	6475	5028	7434	6482	1702	1173
	6	1575	940	2172	1637	2768	2133	3385	2730	3961	3328	4058	3823	4821	4180	5517	4180	6475	5028	7434	6482	2043	1408
	7			1938	1197	2634	1793	3131	2390	3727	2998	4324	3583	4821	4180	5517	4180	6475	5028	7434	6482	2383	1642
	8					2299	1452	2896	2049	3492	2846	4089	3242	4599	3839	5282	3839	6475	5028	7434	6482	2724	1877
	9							2681	1709	3287	2305	3854	2902	4451	3499	5047	3499	6475	5028	7434	6482	3064	2112
	10									3023	1964	3820	2561	4217	3158	4818	3168	6006	4847	7200	6141	3405	2346
	11											3365	2221	3982	2918	4578	2818	5771	4807	6985	5801	3745	2581
	12													3747	2477	4343	2477	6538	4288	6730	5460	4086	2816
NOGBT-400B	7	2413	1378	3263	2220	4113	3070	4883	3820	5813	4770	6883	5820	7250	6058	7538	5647	9270	7785	10713	9074	2880	1837
	8	2160	958	3000	1808	3850	2858	4700	3608	5550	4388	6400	5208	6750	5858	7538	5647	9270	7785	10713	9074	3292	2100
	9	1888	647	2738	1397	3560	2247	4438	3087	5288	3947	6138	4797	6998	5847	7538	5647	9270	7785	10713	9074	3703	2382
	10	1628	155	2478	985	3328	1855	4178	2885	5028	3538	5878	4385	6726	5285	7578	5285	9270	7785	10713	9074	4115	2624
	11			2213	574	3083	1424	3918	2274	4763	3124	5519	3974	6463	4824	7313	4824	9016	7374	10713	9074	4526	2887
	12					2801	1812	3651	1952	4501	2712	5381	3662	6201	4412	7051	4412	8751	6981	10451	8282	4938	3149
	13							3181	1451	4239	2301	5098	3181	6098	4301	6788	4301	8488	6881	10188	8281	5349	3412
14									3978	1889	4826	2739	5878	3889	6228	3889	8228	6139	9928	7828	5761	3674	
15														5413	3178	6263	3178	7983	6728	9883	7828	6172	3937
16														5753	3778	6883	3778	7383	6428	9428	7828	6583	4199

Sizing information and How to order



Forexample

Butterfly of the original maximum torque=80Nm

Opened torque $80 \times 30\% = 24\text{Nm}$

Air pressure=5Bar

We can choose BT-125SK10

Air travel $0^\circ = 148.7\text{Nm} > 80\text{Nm}$

Air travel $90^\circ = 96.7\text{Nm} > 24\text{Nm}$

Spring stroke $90^\circ = 157\text{Nm} > 24\text{Nm}$

Spring stroke $0^\circ = 105\text{Nm} > 80\text{Nm}$

The above figures show opening meet of the butterfly valve

Operating type (Double acting and spring return)

Air supply connection is designed in accordance with NAMUR Standard to install solenoid valves.



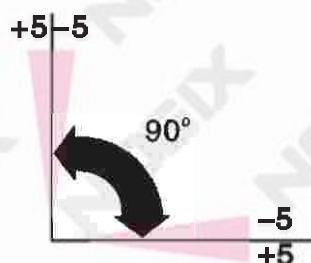
The Namur drive pinion and the Namur top mounting connection permit direct installation of accessories such as limit switch box and positioner.



Bottom mounting connection is designed in accordance with ISO 5211, DIN 3337 standards for direct mounting with valve gear boxes or mounting brackets.



Operating conditions:



1. Operating media

Dry or lubricated air, or the non-corrosive gases

The maximum particle diameter must less than 30 μm

2. Air supply pressure

The minimum supply pressure is 2.5 Bar

The maximum supply pressure is 8 Bar

3. Operating temperature

Standard: $-20^\circ\text{C} \sim +80^\circ\text{C}$

Low temperature: $-40^\circ\text{C} \sim +80^\circ\text{C}$

High temperature: $-15^\circ\text{C} \sim +150^\circ\text{C}$

4. Travel adjustment

Have adjustment range of $\pm 5^\circ$ for the rotation at 0° and 90°

5. Application

Air Consumption

Model	Maximum pressure	The angle of rotation	Temperature	1 st the need to adjust the number of laps	Diameter	Internal volume		On-off time		Weight	
						close	Open	close	Open	A weight	Spring weight
NOG BT - 52S	Lubrication or dry oil compressed air 8bar	(0°-90°) ±5° or full linearity 0°-90°	B(normal) NBR O-ring -20~+80°C G(High Temperature) Viton O-ring -18~+180°C D(Low Temperature) Silicone O-ring -40~+80°C	1/6	52	0.1	0.2	DA0.6 SR2.0	DA0.6 SR 0.5	DA 1.30 SR 1.42	... 0.0095
NOG BT - 63S				1/6	63	0.2	0.3	DA0.7 SR2.0	DA0.7 SR 1.0	DA2.05 SR2.25	... 0.0135
NOG BT - 75S				1/5	75	0.3	0.0	DA0.8 SR2.0	DA0.7 SR1.0	DA2.65 SR2.95	... 0.0210
NOG BT - 83S				1/5	83	0.5	0.8	DA0.9 SR2.5	DA0.8 SR1.0	DA3.30 SR3.70	... 0.0365
NOG BT - 92S				1/5	92	0.7	1.1	DA1.0 SR2.0	DA1.0 SR 1.0	DA4.55 SR5.30	... 0.0600
NOG BT -105S				1/4	105	1.2	1.3	DA1.5 SR3.0	DA 1.5 SR 1.0	DA5.80 SR6.70	... 0.0730
NOG BT -125S				1/4	125	1.5	2.3	DA2.0 SR4.0	DA2.0 SR 1.0	DA8.95 SR 10.35	... 0.1100
NOG BT -140S				1/4	140	2.4	3.0	DA2.5 SR4.0	DA2.5 SR 1.0	DA 13.35 SR 15.35	... 0.1865
NOG BT -160S				1/4	160	3.1	4.0	DA4.0 SR4.0	DA3.0 SR 1.5	DA 19.20 SR23.10	... 0.2695
NOG BT -190S				1/4	190	4.5	7.3	DA5.0 SR5.0	DA4.0 SR1.0	DA31.05 SR36.80	... 0.4792
NOG BT - 210S				1/4	210	5.5	11.2	DA5.0 SR6.0	DA5.0 SR3.0	DA39.00 SR45.50	... 0.5001
NOG BT - 240S				1/4	240	10	15.2	DA6.0 SR12	DA6.0 SR4.0	DA53.00 SR64.00	... 0.9167
NOG BT - 270S				1/4	270	14.5	21.4	DA8.0 SR15	DA8.0 SR6.0	DA 76.00 SR95.20	... 1.6000
NOG BT -300S				1/4	300	23.8	29.7	DA12 SR18	DA12 SR8.0	DA 100.0 SR 128.2	... 2.3500
NOG BT -350S				1/4	350	35.1	46	DA14 SR20	DA14 SR10	DA 186.0 SR216.0	... 2.5001
NOG BT - 400S				1/4	400	52.6	56	DA15 SR25	DA15 SR12	DA243.0 SR279.0	... 3.0001

Air consumption test with Supply, Air volume and Action cycle times, expressions

$$L/Min = \text{Air volume} (\text{Air volume Opening} + \text{Air volume closing}) \times [(\text{Air Supply (Kpa)} + 101.3) \div 101.3] \times \text{Action cycle times (min)}$$

Common faults and inspection, troubleshooting

Failure phenomenon	Inspection items	Solution
Pneumatic valve can not move	1, the electromagnetic valve is normal, coil is burned, Electromagnetic valve is stuck being stoken	Solenoid valve replacement, replacement coils, remove stoken property
	2, a separate air supply pneumatic actuator test, check seals and whether the cylinder is damaged.	Replace a bad ring and cylinder.
	3, there are impurities in the spool valve stuck.	Remove impurities, replace damaged parts.
	4, the handle in a manual motor location.	change the handle to pneumatic position
Slow motion, crawling	1, supply pressure is not enough.	The increase of gas supply pressure (0.4-0.7Mpa)
	2, pneumatic actuator output torque is too small.	increase the pneumatic actuator Production.
	3, the valve spool or valve assembly too tight.	Re-assembly adjustments.
	4, air supply pipe plug, flow is too small.	Exclude plug, replace the filter cartridge.
Reply devices without signal	1, power line short circuit or open circuit.	Maintenance of power lines.
	2, reply within the cam position is not accurate.	Adjust the cam to the correct location
	3, micro switch damaged.	Replacement Micro Switch

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