

Approval and Industry Standard

- Actuators manufactured in conformity with CE certification to PED 97/23/EC
- Actuators certified to Explosion Protection Certificate
- Actuators certified to IP66/IP67
- Actuators designed and manufactured under a third party accredited
- ISO 9001:2000 quality assurance program.
- Suitable for Safety Integrity Level applications in accordance with IEC 61508 : 2000
- GOST-R Russian certificate of conformity

GEBFLOW

IST60C Series

Pneumatic Actuators



GEBFLOW

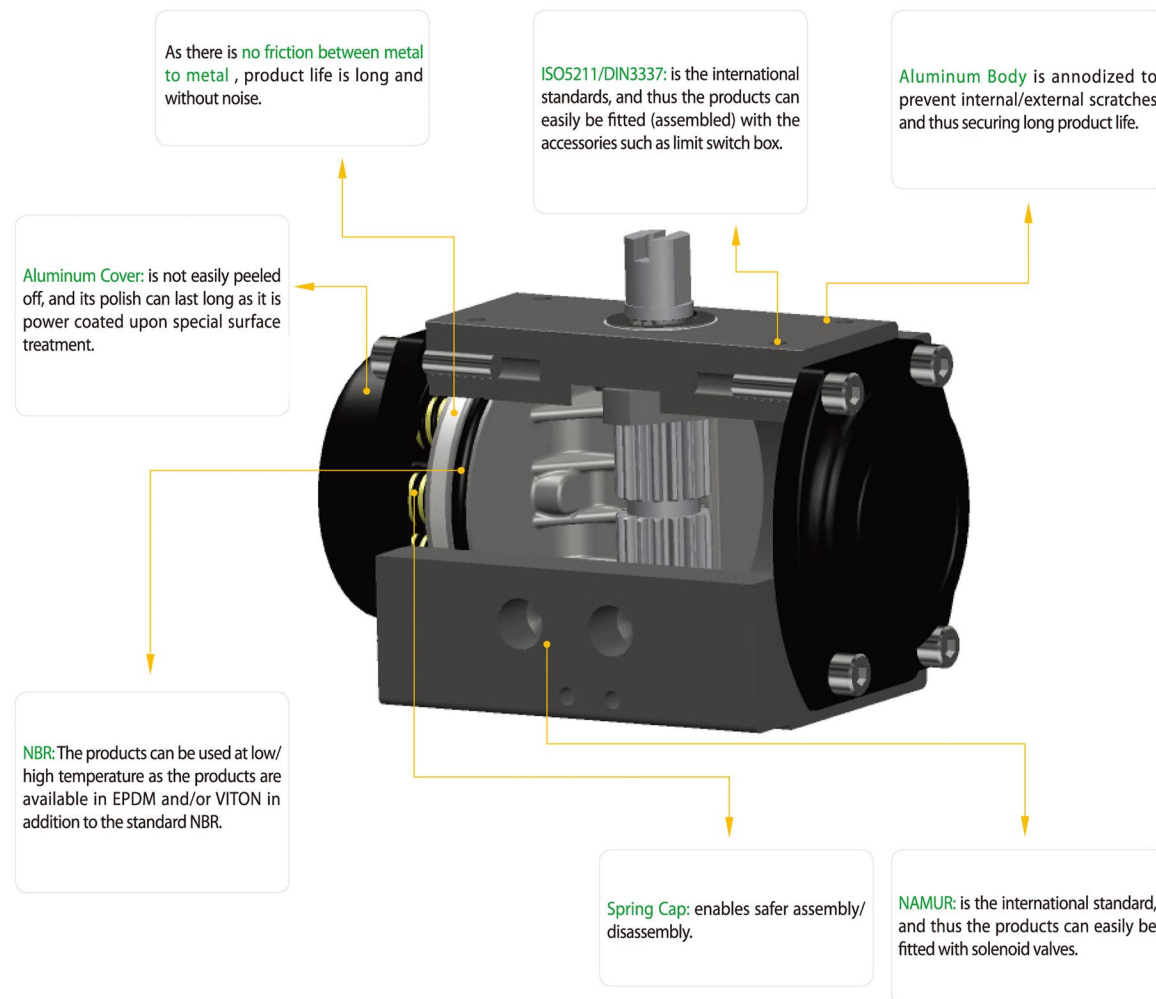
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Due to continuous development product data is subject to change without prior notice.
Literature #PA.002.02.Rev2

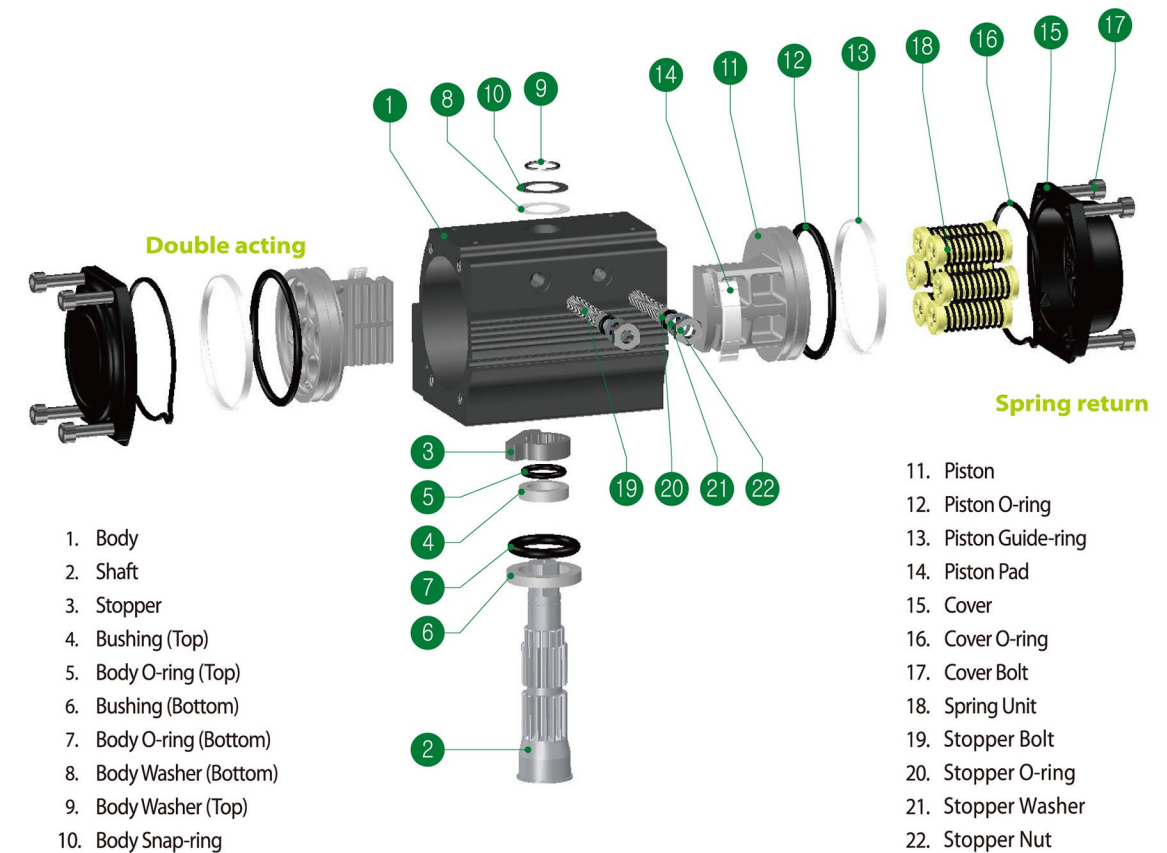


Advantages and Materials (Pinion)

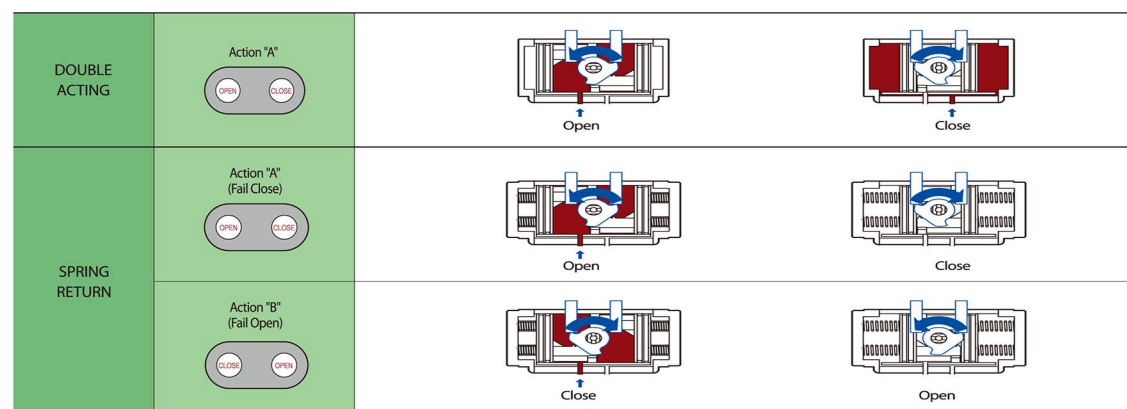
Advantages



Materials



Operating Mechanism



No.	Description 部件	Material 材料	No.	Description	Material
1	Body	Alluminum alloy	12	Piston O-ring	NBR
2	Shaft	Alloy steel	13	Piston Guide-ring	Engineering plastics
3	Stoper	Alloy steel	14	PistonPad	Engineering plastics
4	Bushing(Top)	Engineering plastics	15	Cover	Alluminum alloy
5	Body O-ring(Top)	NBR	16	Cover O-ring	NBR
6	Bushing(Bottom)	Engineering plastics	17	Cover Bolt	Stainless steel
7	Body O-ring(Bottom)	Engineering plastics	18	Spring Unit	Spring steel
8	Body Washer(Bottom)	Engineering plastics	19	Stoper Bolt	Stainless steel
9	Body Washer(Top)	Engineering plastics	20	StoperO-ring	NBR
10	Body Snap-ring	Engineering plastics	21	Stoper Washer	Engineering plastics
11	Piston	Alluminum alloy	22	Stoper Nut	Stainless steel

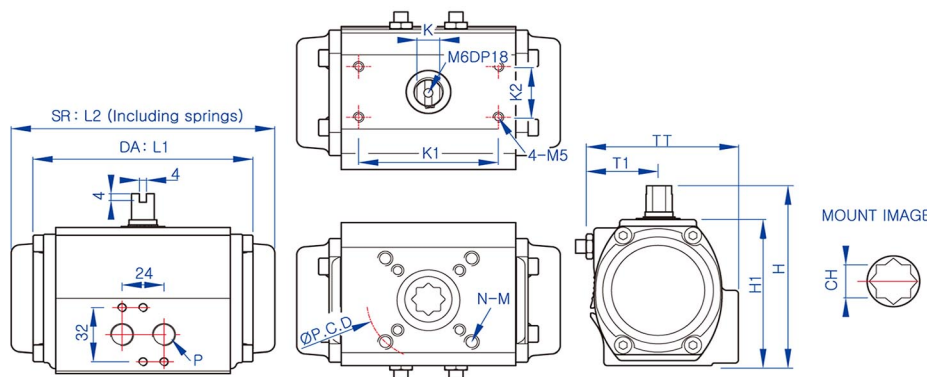
Output Torque and Dimension (Pinion)

Output Torque DA

Unit : Nm

MODEL	SUPPLY AIR				
	3Bar	4Bar	4.5Bar	5Bar	6Bar
IST60C06DA	3.2	4.5	5.3	6.0	7.3
IST60C08DA	5.0	7.0	8.0	9.0	11.0
IST60C10DA	10.3	13.7	15.5	17.1	20.6
IST60C13DA	19.1	25.4	28.6	31.8	38.2
IST60C16DA	39.3	52.2	58.8	65.3	78.4
IST60C18DA	57.8	77.1	86.8	96.4	115.7
IST60C20DA	84.4	12.5	126.5	140.6	168.7
IST60C25DA	171.2	228.4	256.9	285.4	342.5
IST60C28DA	243.3	324.4	365.0	405.5	486.6
IST60C32DA	350.7	467.6	526.0	584.4	701.3
IST60C42DA	725.4	967.2	1088.1	1209.0	1450.8

Dimension DA&SR



MODEL	K1	K2
IST60C06	25.5	25.5
IST60C08	50	50
IST60C10~32	80	80
IST60C42	310	310

P	
IST60C06~08	PT1/8
IST60C10~42	PT1/4

Unit : mm

MODEL	ISO	P.C.D(Ø)	N-G	K	L1 (DA)	L2 (SR)	T	T1	H	H1	CH	DTH	W1(K) (RD)	W2(K) (RS)
IST60C06	F03	36	4-M5	7	66	-	45	25	55	45	9*9	9	0.3	-
IST60C08	F03/F05	36/50	4-M5/M6	9	97	97	63	32	75	55	9*9	9	0.5	0.6
IST60C10	F03/F05/F07	36/50/70	4-M5/M6/M8	9	119	133	75	40	90	70	11*11	13	1.0	1.1
IST60C13	F05/F07	50/70	4-M6/M8	13	131	154	89	46	106.5	86.5	14*14	16	1.4	1.5
IST60C16	F07	70	4-M8	19	189	220	101	49.5	126	106	17*17	19	2.9	3.3
IST60C18	F07	70	4-M8	19	190	219	104	54.5	136	116	17*17	19	3.4	3.8
IST60C20	F07/F10	70/102	4-M8/M10	19	229	256	132	61.5	148	128	22*22 17*17	26 19	4.7	5.4
IST60C25	F07/F10	70/102	4-M8/M10	19	299	330	151	71.5	174	154	22*22	26	8.6	9.9
IST60C28	F10/F12	102/125	4-M10/M12	24	332	389	164	77	192	172	27*27 22*22	30 26	12.4	14.5
IST60C32	F10/F12	102/125	4-M10/M12	24	364	416	188	103.5	216	196	27*27	30	16.9	19.5
IST60C42	F14	140	4-M16	36	444	527	231	115	284	254	36*36	30	32.3	37.9

• Models beginning with "*" indicate compact models. They may look different to the above images in real, simultaneous angle adjustment at both sides is disabled.

Spring Return

Unit : Nm

Model	Spring unit	Supply Air													
		3Bar		4Bar		4.5Bar		5Bar		6Bar		7Bar		SPRING	
IST60C06SR	1	2.0	-	4.0	2.0	5.0	3.0	6.0	4.0	8.0	7.0	10.0	8.0	10.0	6.0
	2	1.0	-	2.0	-	3.0	-	4.0	-	6.0	2.0	8.0	4.0	12.0	9.0
IST60C10SR	5	6.8	5.3	10.2	8.7	11.9	10.4	13.6	12.1	-	-	-	-	5.0	3.5
	6	6.2	4.3	9.6	7.7	11.3	9.5	13.0	11.1	16.5	14.6	-	-	6.0	4.1
	7	5.5	3.3	8.9	6.7	10.6	8.4	12.3	10.1	15.8	13.6	19.2	17.0	7.0	4.8
	8	4.7	2.3	8.1	5.7	9.9	7.4	11.5	9.1	15.0	12.6	18.4	16.0	8.0	5.6
	9	-	-	7.4	4.6	9.2	6.4	10.8	8.0	14.3	11.5	17.7	14.9	9.1	6.3
	10	-	-	6.8	3.7	8.5	5.5	10.2	7.1	13.7	10.6	17.1	14.0	10.0	6.9
	11	-	-	-	-	7.8	4.4	9.5	6.1	13.0	9.6	16.4	13.0	11.0	7.6
	12	-	-	-	-	-	-	-	-	12.3	8.5	15.7	11.9	12.1	8.3
IST60C13SR	5	13.2	10.1	19.6	16.5	22.8	19.7	26.0	22.9	-	-	-	-	8.9	5.9
	6	11.9	8.3	18.3	14.7	21.5	17.9	24.7	21.1	31.1	27.5	-	-	10.8	7.1
	7	10.8	6.5	17.1	12.9	20.3	16.1	23.5	19.3	29.9	25.7	36.3	32.0	12.6	8.3
	8	9.6	4.7	16.0	11.1	19.2	14.3	22.4	17.5	28.7	23.8	35.1	30.2	14.4	9.5
	9	-	-	14.8	9.3	18.0	12.5	21.2	15.6	27.6	22.0	34.0	28.4	16.2	10.6
	10	-	-	13.6	7.5	16.8	10.6	20.0	13.8	26.4	20.2	32.8	26.6	18.0	11.8
IST60C16SR	11	-	-	-	-	15.6	8.8	18.8	12.0	25.2	18.4	31.6	24.8	19.8	13.0
	12	-	-	-	-	-	-	-	-	24.1	16.7	30.4	23.1	21.5	14.2
	5	26.6	19.6	39.6	32.5	46.2	39.1	52.7	45.6	-	-	-	-	19.7	12.6
	6	24.1	15.6	37.1	28.6	43.7	35.2	50.2	41.6	63.3	54.7	-	-	23.7	15.1
	7	21.6	11.7	34.6	24.7	41.2	31.3	47.7	37.8	60.8	50.9	73.8	63.9	27.5	17.6
	8	19.1	7.7	32.1	20.7	38.7	27.3	45.2	33.8	58.3	46.9	71.3	60.0	30.7	20.1
	9	-	-	29.6	16.7	36.2	23.3	42.7	29.8	55.7	42.9	68.8	56.0	35.5	22.6
	10	-	-	27.1	12.9	33.7	19.5	40.4	25.9	53.2	39.0	66.3	52.1	39.4	25.1
IST60C18SR	11	-	-	-	-	31.2	15.5	37.7	22.0	50.7	35.0	63.8	48.1	43.3	27.6
	12	-	-	-	-	-	-	-	-	48.2	31.2	61.3	44.3	47.2	30.1
	5	38.7	27.6	57.9	46.9	67.7	56.6	77.3	66.2	-	-	-	-	30.2	19.1
	6	34.8	21.5	54.1	40.8	63.8	50.5	73.4	60.1	92.7	79.4	-	-	36.3	23.0
	7	31.0	15.6	50.2	34.8	59.9	44.6	69.6	54.2	88.8	73.4	108.0	92.7	42.3	26.9
	8	27.2	9.5	46.4	28.8	56.2	38.5	65.8	48.1	85.0	67.4	104.3	86.6	48.3	30.6
	9	-	-	42.6	22.7	52.3	32.4	61.9	42.0	81.2	61.3	100.4	80.5	54.4	34.5
	10	-	-	38.7	16.6	48.4	26.4	58.0	36.0	77.3	55.2	96.5	74.5	60.5	38.4
IST60C20SR	11	-	-	-	-	44.7	20.4	54.3	30.0	73.5	49.3	92.8	68.5	66.4	42.1
	12	-	-	-	-	-	-	-	-	69.7	43.2	88.9	62.4	72.5	46.0
	5	58.3	43.8	86.4	71.9	100.4	85.9	114.5	100.0	-	-	-	-	40.6	26.1
	6	53.0	35.6	81.2	63.8	95.2	77.8	109.3	91.9	137.4	120.0	-	-	48.7	31.3
	7	47.8	27.6	75.9	55.7	89.9	69.7	104.0	83.8	132.1	112.0	160.3	140.1	56.8	36.6
	8	42.6	19.5	70.8	47.6	84.8	61.6	98.9	75.7	127.0	103.8	155.1	131.9	64.9	41.7
	9	-	-	65.5	39.4	79.5	53.5	93.6	67.6	121.7	95.7	149.9	123.8	73.0	47.0
	10	-	-	60.3	31.3	74.3	45.3	88.4	59.4	116.5	87.6	144.6	115.7	81.2	52.2
IST60C25SR	11	-	-	-	-	69.1	37.2	83.2	51.3	111.3	79.4	139.5	107.5	89.3	57.4
	12	-	-	-	-	-	-	-	-	106.1	71.4	134.2	99.5	97.3	62.6
	5	117.1	86.7	174.3	143.9	202.8	172.4	231.3	201.0	-	-	-	-	84.5	54.1
	6	106.3	69.2	163.5	126.4	192.0	154.9	220.5	183.4	277.6	240.5	-	-	102.0	64.9
	7	95.5	52.7	152.6	109.9	181.2	138.4	209.7	167.0	266.8	224.0	323.8	281.1	118.5	75.7
	8	84.7	35.2	141.8	92.4	170.4	120.9	198.9	149.5	256.0	206.5	313.0	263.6	136.0	86.5
	9	-	-	131.0	75.9	159.5	104.4	188.1	133.0	245.1	190.0	302.2	247.1	152.4	97.3
	10	-	-	120.2	58.4	148.7	86.9	177.3	115.5	234.3	172.5	291.4	229.6	170.0	108.2
IST60C28SR	11	-	-	-	-	137.4	70.5	165.9	99.0	223.0	156.0	280.1	213.1	186.4	119.5
	12	-	-	-	-	-	-	-	-	212.7	138.5	269.8	195.6	203.9	129.8
	5	126.3	82.5	248.0	204.2	288.5	244.7	329.1	285.3	-	-	-	-	120.3	76.4
	6	110.5	58.3	232.1	179.9	272.7	220.5	313.2	261.0	394.3	342.1	-	-	144.5	92.3
	7	95.6	35.0	217.2	156.6	257.8	197.2	298.3	237.7	379.4	318.8	460.5	399.9	167.8	107.2
	8	79.7	10.7	201.4	132.4	241.9	172.9	282.5	213.5	363.6	294.6	444.7	375.7	192.0	123.1
	9	-	-	186.4	108.1	227.0	148.7	267.5	189.2	348.6	270.3	429.7	351.4	216.3	138.0
	10	-	-	170.6	83.9	211.1	124.4	251.7	165.0	332.8	246.1	413.9	327.2	240.5	153.8
IST60C32SR	11	-	-	-	-	196.2	101.1	236.8	141.7	317.9	222.8	399.0	303.9	263.8	168.7
	12	-	-	-	-	-	-	-	-	302.0	198.6	383.1	279.7	288.0	184.6
	5	235.4	179.7	352.3	296.6	410.7	355.0	469.1	413.4	-	-	-	-	171.0	115.4
	6	211.7	145.7	328.6	262.7	387.0	321.1	445.4	379.5	562.3	496.4	-	-	205.0	139.1
	7	189.0	110.7	305.9	227.6	364.3	286.0	422.7	344.4	539.6	461.3	656.5	578.2	240.0	161.7
	8	165.3	76.7	282.2	193.6	340.6	252.0	399.0	310.4	515.9	427.3	632.8	544.3	274.0	185.4
	9	-	-	259.6	159.7	318.0	218.1	376.4	276.5	493.3	393.4	610.2	510.3	308.0	208.1
	10	-	-	236.9	125.7	295.3	184.1	353.7	242.5	470.6	359.4	587.5	476.3	342.0	230.7
IST60C42SR	11	-	-	-	-	271.6	150.1	330.0	208.5	446.9	325.4	563.8	442.3	376.0	254.4
	12	-	-	-	-	-	-	-	-	424.3	290.4	541.2	407.3	411.0	277.1
	4	563.8	442.9	805.6	684.6	-	-	-	-	-	-	-	-	282.5	161.6
	5	523.4	372.3	765.2	614.1	886.1	735.0	1,007.0	855.9	-	-	-	-	353.1	202.0
	6	483.1	301.7	724.8	543.4	845.7	664.4	966.7	785.3	1,208.2	1,027.0	-	-	423.7	242.4
	7	442.6	231.0	684.3	472.8	805.3	593.7	926.2	714.6	1,168.0	956.4	1,410.1	1,197.9	494.4	282.8
	8	-	-	644.0	402.2	764.9	523.1	885.8	644.1	1,127.9	885.8	1,369.9	1,127.9	565.0	323.2
	9	-	-	603.6	331.6	724.5	452.5	845.4	573.4	1,087.7	815.1	1,328.7	1,056.8	635.6	363.6