ACTUATECH S.p.A.
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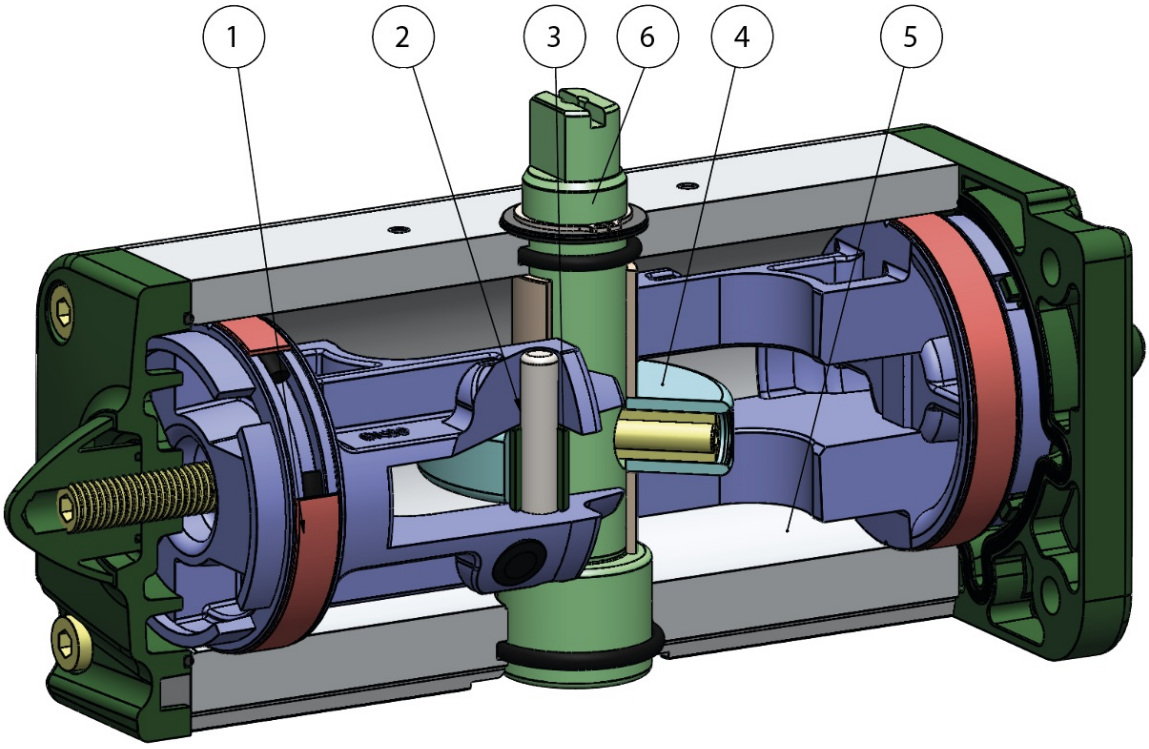
Aluminium GD (double acting) pneumatic actuator

Macro Pneumatic actuators

Category Aluminium actuators

Nominal torque of the actuator: from 8 Nm to 8000 Nm

benefits



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1.Energized and self-lubricated strips
Less friction between piston and cylinder
It prevents the bonding of the seal to the cylinder even after long periods of inactivity

2.Slots, bushes and pins made by steel with hardness higher than 50 HRC
Higher resistance to the forces inside the actuator

3.Rolling friction between piston and slot
Less friction

4.Scotch yoke with rolling friction (transforming rotary motion into linear motion using piston and shaft without teeths/gears)
Reduced friction between piston and shaft with consequently less wear on the relevant parts
Empowered Breakaway Torque (BTO & BTC)
Smaller volume/size than rack and pinion actuators (with the same torque) therefore less space required for installation
Less weight than the rack and pinion (-30% kg / Nm), with consequent savings on the construction sizing of the plant/equipment
Lower air consumption compared to the rack and pinion actuators (-40% air cm3/Nm for Double Acting and -20% air cm3/Nm for Spring Return) therefore less load on the compressor or the possibility of using a smaller compressor's size.

5.Rolled cylinder
Less wear of the energized ties thanks to the low roughness of the surface

6.Stainless steel shaft
Higher corrosion resistance

From sizes bigger than GD15, NAMUR interface for solenoid valve is already integrated
No need for extra plate.

100% in- house manufacturing process technology
Maximum control and accuracy in all the stages of the manufacturing process

ATEX Certificate
Installation is allowed in a potential explosive environment

Up to SIL 3 Certified
Guarantee of the high level of functional safety.

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features

TECHNICAL FEATURES

Torque from 8 Nm to 8000 Nm
Mounting flange according to EN ISO 5211
F03 - F04 - F05 - F07 - F10 - F12 - F14 - F16 - F25
In accordance with EN 15714-3
Rotation angle: 92° (-1°, +91°)
Torque: directly proportional to the air supply (see table)
In the code of standard version GD actuators, it is indicated the breakaway torque in Nm at 5,6 bar air supply.
ATEX version in conformity with directive 2014/34/EU

WORKING CONDITIONS

Temperature: from -20°C to +80°C. (Special versions: high temperature: -20°C +150°C; low temperature: -50°C +60°)
Air supply: 5,6 bar; maximum 8,4 bar (7 bar for GD8000)
Actuating media: filtered dry compressed air, not necessarily lubricated
In case of lubricated air, either non detergent oil, NBR compatible oil, must be used

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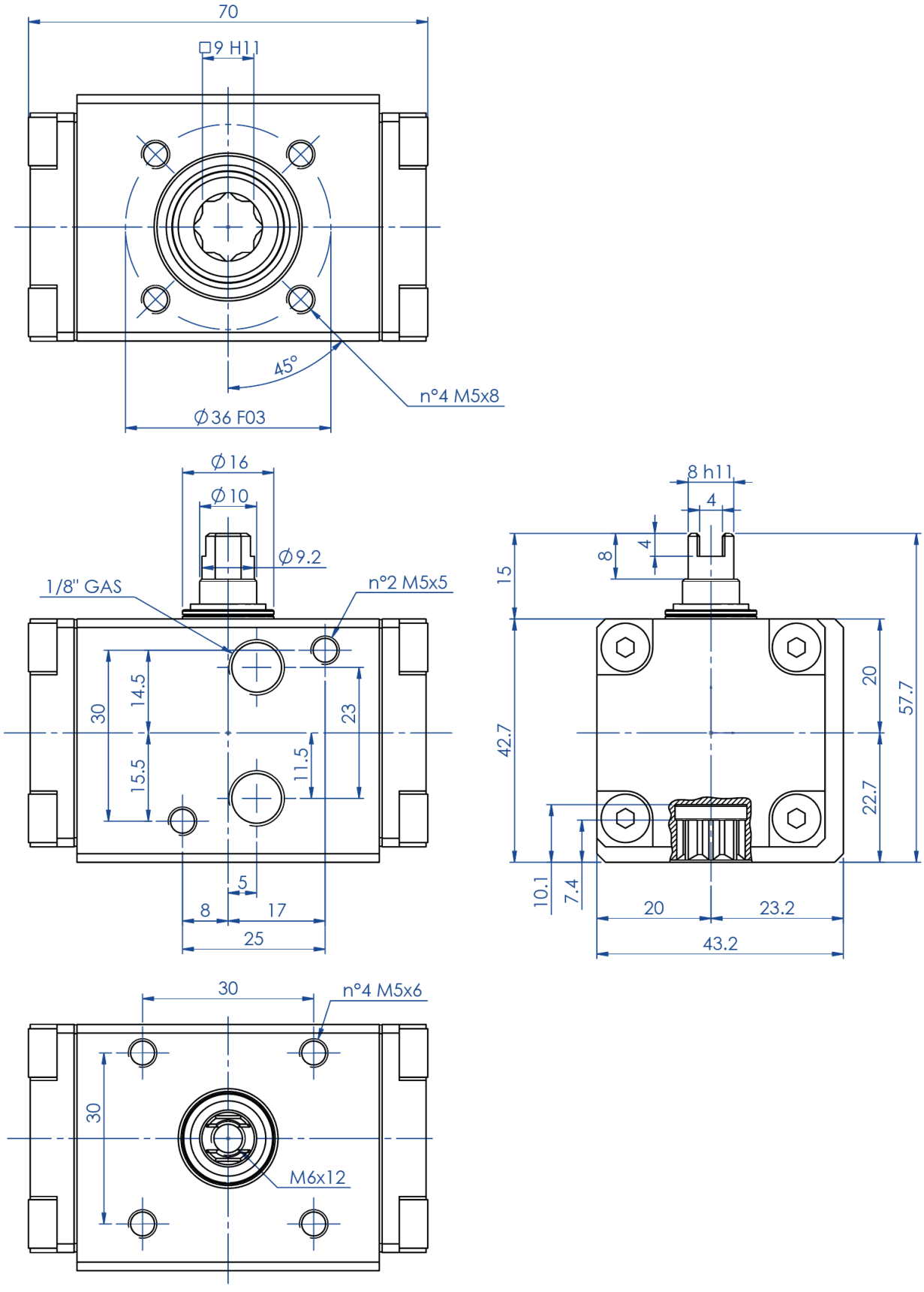
dimensions

GD08

Double acting pneumatic actuator size GD08 (Nm)



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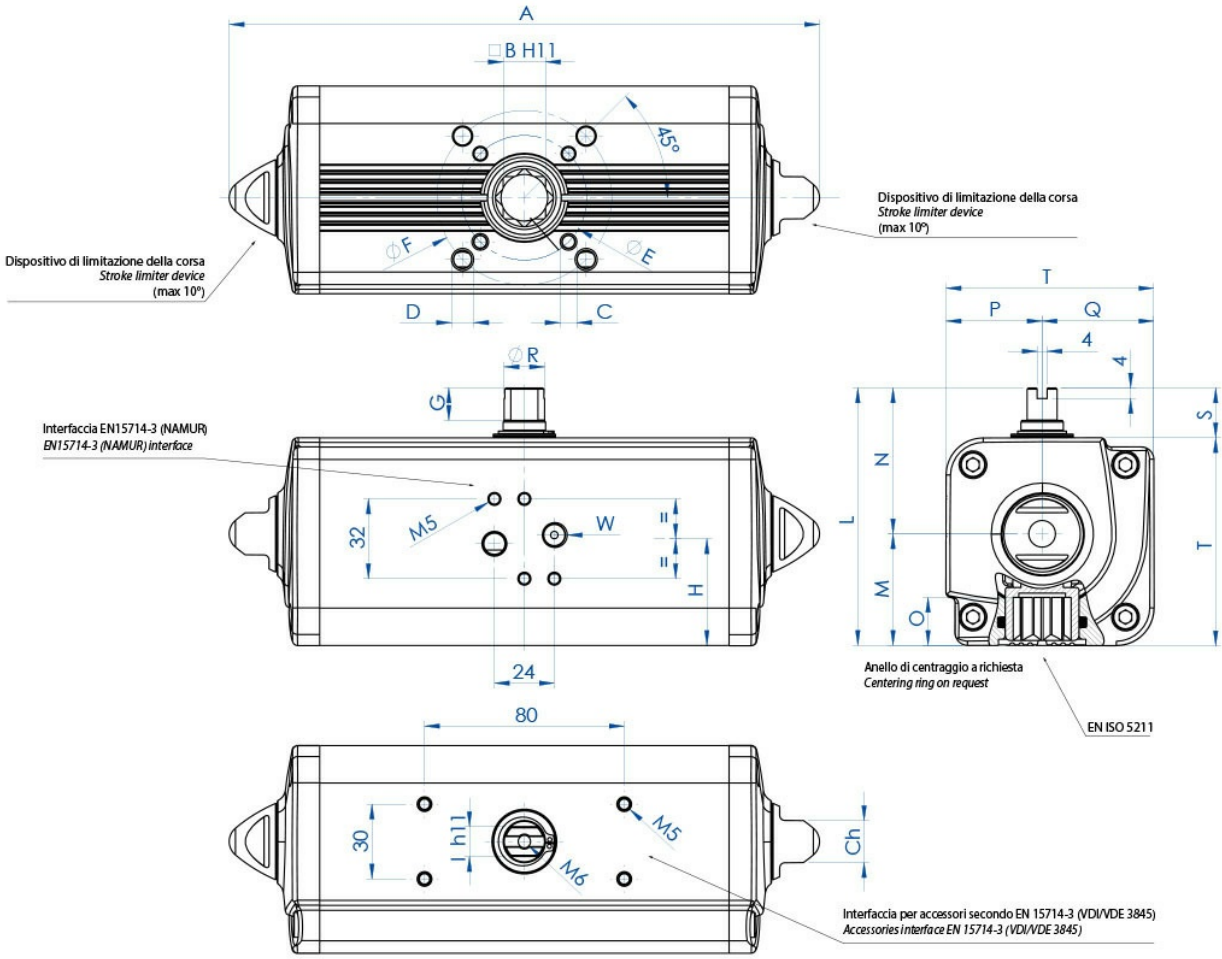
DATA SHEET GD08 (Nm)	
Weight [Kg]	0,29
Air volume [dm^3/cycle]	0,034
Spare seals	KGGI0010

GD15 - GD1920

Double acting pneumatic actuator sizes from GD15 (Nm) to GD1920 (Nm)



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DATA SHEET from GD15 (Nm) to GD60 (Nm)								
Spare seals	KGGI0012		KGGI0014		KGGI0015		KGGI0016	
Size	**GD15**		**GD30**		**GD45**		**GD60**	
ISO	F03	F04	F03/F05	F04	F04	F03/F05	F04	F05/F07
A	159,1	159,1	174,3	174,3	188,5	188,5	198,1	198,1
B	11	11	11	11	11	11	14	14
C x depth	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M6x9
D x depth	-	-	M6x9	-	-	M6x9	-	M8x12
E	36	42	36	42	42	36	42	50
F	-	-	50	-	-	50	-	70
G	10	10	10	10	13	13	13	13
H	26,8	26,8	30,3	30,3	32,5	32,5	35,7	35,7
I	8	8	9	9	10	10	10	10
L	72,2	72,2	79,2	79,2	84,5	84,5	90,4	90,4
M	28	28	31,5	31,5	34,5	34,5	37,7	37,7
N	44,2	44,2	47,7	47,7	50	50	52,7	52,7
O	13,2	13,2	13,2	13,2	13,2	13,2	16,5	16,5
P	24,2	24,2	27,7	27,7	30	30	32,7	32,7
Q	28	28	31,5	31,5	34,5	34,5	37,7	37,7
R	9,2	9,2	10,9	10,9	12,7	12,7	14,5	14,5
S	20	20	20	20	20	20	20	20
T	52,2	52,2	59,2	59,2	64,5	64,5	70,4	70,4
W (Gas)	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"
Ch	13	13	13	13	13	13	13	13
Weight (Kg)	0,75	0,75	1	1	1,2	1,2	1,6	1,6
Air (dm^3/cycle)	0,08	0,08	0,15	0,15	0,22	0,22	0,3	0,3
H = CENTER OF PLATE'S FIXING								

DATA SHEET from GD106 (Nm) to GD720 (Nm)							
Spare seals	KGGI0060	KGGI0018	KGGI0019	KGGI0020	KGGI0021	KGGI0022	KGGI0023
Size	**GD106**	**GD120**	**GD180**	**GD240**	**GD360**	**GD480**	**GD720**
ISO	F05/F07	F05/F07	F07/F10	F07/F10	F07/F10	F10/F12	F10/F12
A	237,1	257,4	289,9	313,6	339,3	387,7	433
B	17	17	22	22	22	27	27
C x depth	M6x9	M6x9	M8x12	M8x12	M8x12	M10x15	M10x15
D x depth	M8x12	M8x12	M10x15	M10x15	M10x15	M12x18	M12x18
E	50	50	70	70	70	102	102
F	70	70	102	102	102	125	125
G	13	13	16	17	19	19	19,5
H	42,8	44,8	54,5	58,1	60	57,4	61,5
I	12	12	15	15	19	19	22
L	103,3	107	137,5	141,1	148	164,9	178
M	44,8	46,8	56,5	60,1	62	72,9	78,5
N	58,5	60,2	81	81	86	92	99,5
O	19,3	19,3	24,8	24,8	24,3	29,5	29,5
P	38,5	40,2	51	51	56	62	69,5
Q	44,8	46,8	56,5	60,1	62	72,9	78,5
R	16,2	18	20,2	22,5	25,5	29	31,8
S	20	20	30	30	30	30	30
T	83,3	87	107,5	111,1	118	134,9	148
W (Gas)	1/8"	1/8"	1/8"	1/8"	1/8"	1/4"	1/4"
Ch	17	17	22	22	22	27	27
Weight (Kg)	2,5	2,6	4,6	5,4	6,5	9,6	12
Air (dm^3/cycle)	0,55	0,59	0,95	1,3	1,8	2,6	3,5
H = CENTER OF PLATE'S FIXING							

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DATA SHEET from GD960 (Nm) to GD1920 (Nm)						
Spare seals	KGGI0024		KGGI0025		KGGI0026	
Size	**GD960**		**GD1440**		**GD1920**	
ISO	F10/F12	F14	F12	F14	F12/F16	F14
A	479,4	479,4	567	567	601	601
B	36	36	36	36	46	46
C x depth	M10x15	M16x24	M12x18	M16x24	M12x18	M16x24
D x depth	M12x18	-	-	-	M20x30	-
E	102	140	125	140	125	140
F	125	-	-	-	165	-
G	19,5	19,5	19,5	19,5	18,5	18,5
H	78	78	86,5	86,5	99,2	99,2
I	24	24	27	27	32	32
L	198	198	216	216	237,7	237,7
M	93,5	93,5	101,5	101,5	114,7	114,7
N	104,5	104,5	114,5	114,5	123	123
O	38,5	38,5	38,5	38,5	48,5	48,5
P	74,5	74,5	84,5	84,5	93	93
Q	93,5	93,5	101,5	101,5	114,7	114,7
R	36,5	36,5	41	41	46	46
S	30	30	30	30	30	30
T	168	168	186	186	207,7	207,7
W (Gas)	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Ch	27	27	36	36	36	36
Weight (Kg)	17,4	17,4	23,4	23,4	32	32
Air (dm^3/cycle)	4,9	4,9	7,6	7,6	10,2	10,2
H = CENTER OF PLATE'S FIXING						

GD2880

Double acting pneumatic actuator size GD2880 (Nm)

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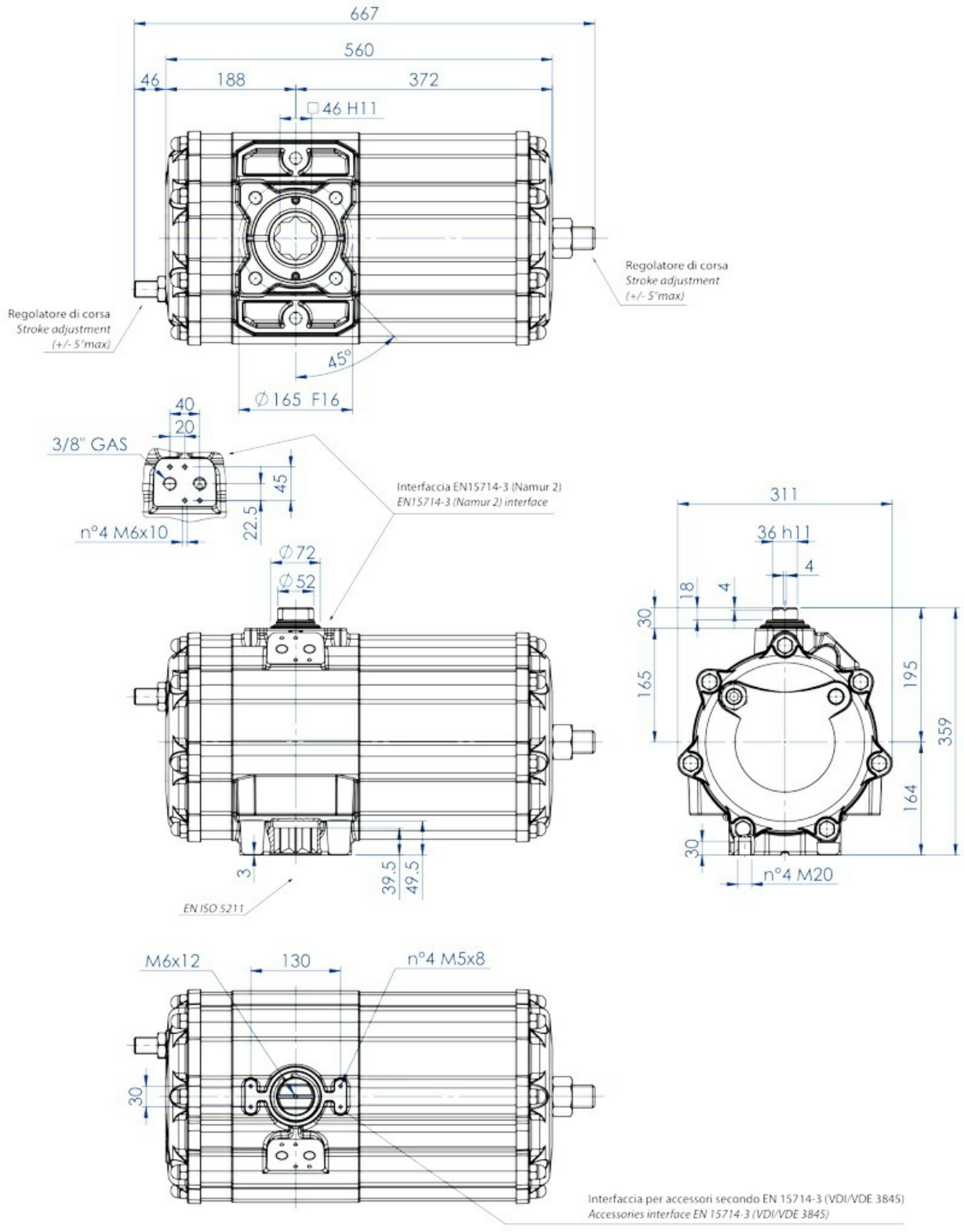

DATA SHEET GD2880 (Nm)	
Weight [Kg]	55,4
Air volume [dm^3/cycle]	20
Spare seals	KGGI0635

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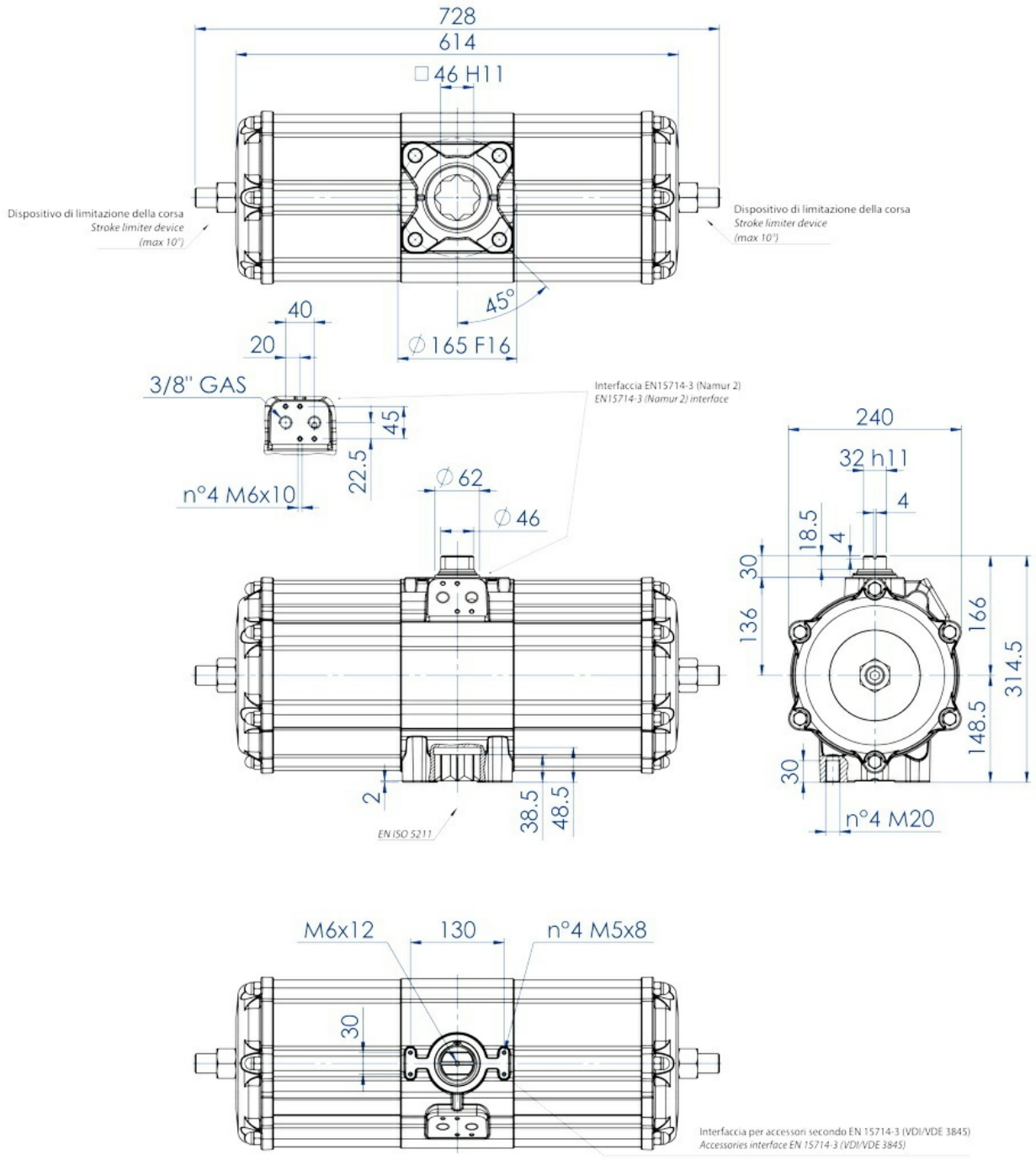
GD3840

Double acting pneumatic actuator size GD3840 (Nm)



DATA SHEET GD3840 (Nm)	
Weight [Kg]	49
Air volume [dm^3/cycle]	25,6
Spare seals	KGGI1030

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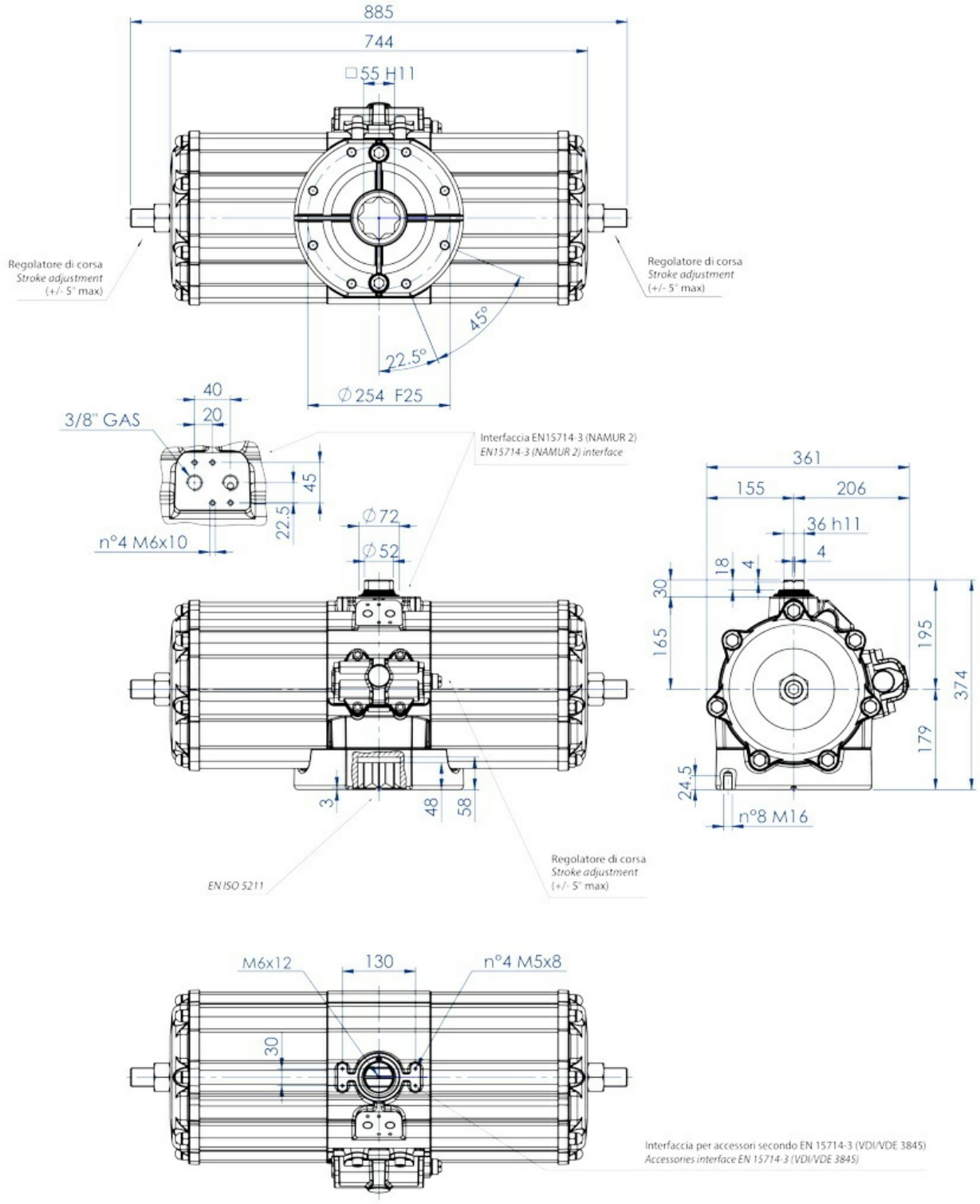
Double acting pneumatic actuator size GD5760 (Nm)



DATA SHEET GD5760 (Nm)	
Weight [Kg]	85,5
Air volume [dm^3/cycle]	38,0
Spare seals	KGGI0435

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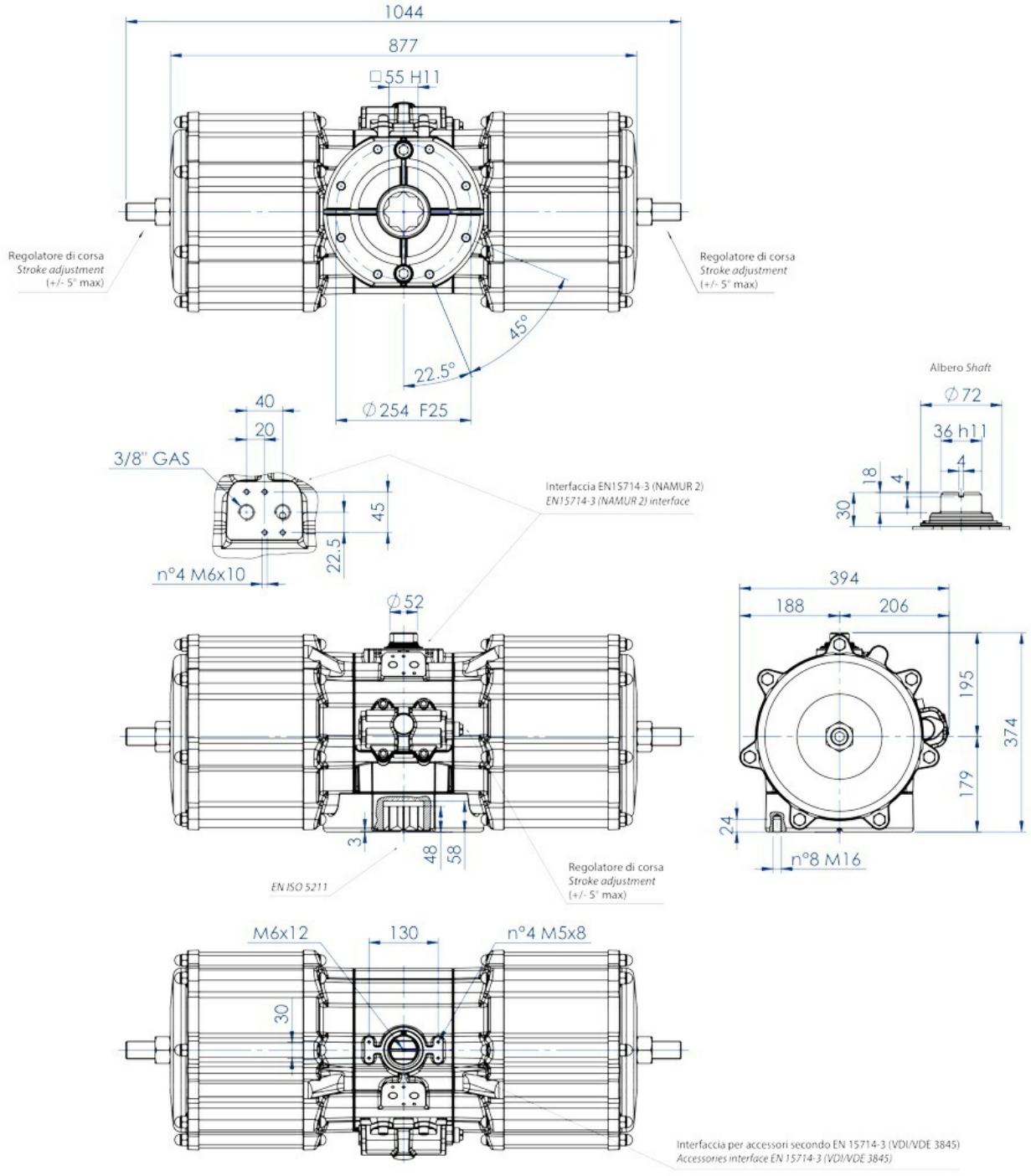
Double acting pneumatic actuator size GD8000 (Nm)



DATA SHEET GD8000 (Nm)	
Weight [Kg]	105,5
Air volume [dm^3/cycle]	50
Spare seals	KGGI0440

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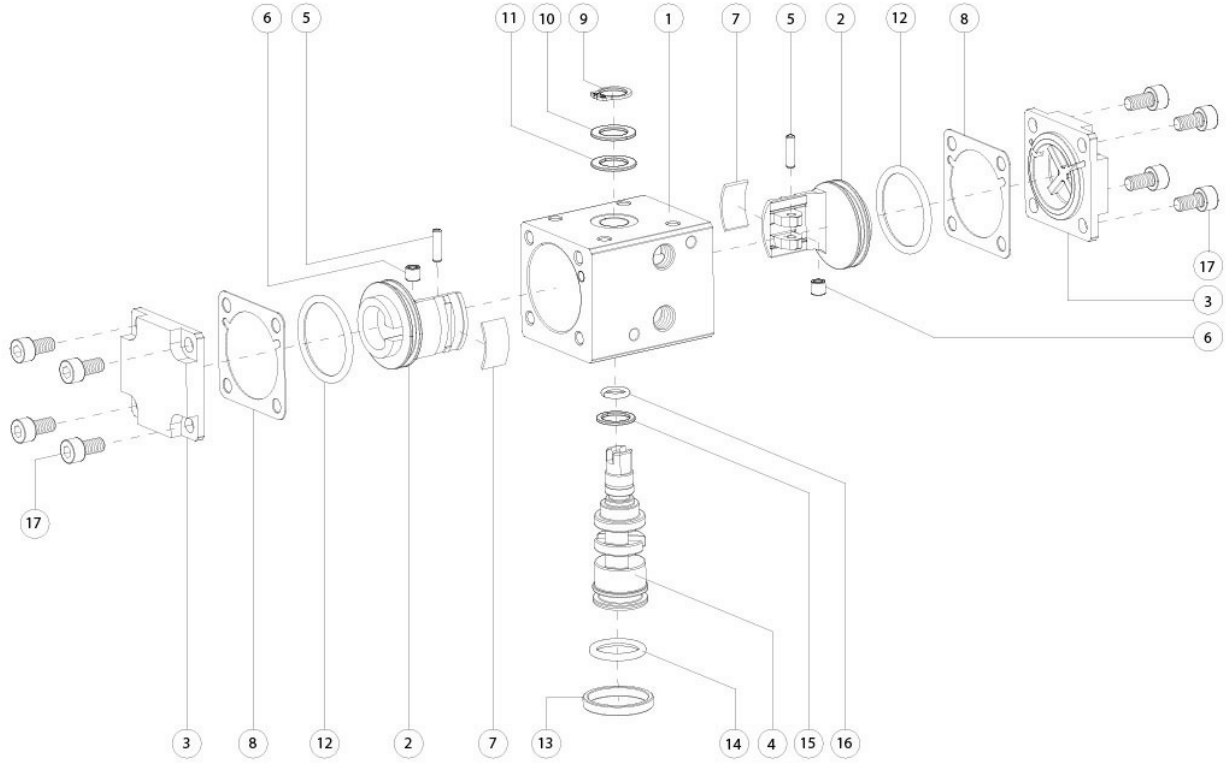
materials

GD08

DOUBLE ACTING PNEUMATIC ACTUATOR COMPONENTS SIZES: GD8



DOUBLE ACTING PNEUMATIC ACTUATOR COMPONENTS SIZES: GD8			
Pos	Denomination	Q.ty	Material
1	Cylinder	1	Aluminium alloy
2	Piston	2	Aluminium alloy
3	Cap DA	2	Aluminium alloy
4	Shaft	1	Steel alloy
5	Sleeve	2	Steel alloy
6	Steel Bush	2	Steel alloy
7*	Support band	2	Acetalic resins
8*	O-ring	2	Nitrilic rubber
9	Seeger	1	Stainless steel
10	Washer	1	Stainless steel
11*	Ext. support ring	1	Acetalic resins
12*	O-ring	2	Nitrilic rubber
13	Center ring (OPTIONAL)	1	Aluminium alloy
14*	O-ring	1	FKM
15*	Int.support ring	1	Acetalic resins
16*	O-ring	1	FKM
17	Screw	8	Stainless steel
*Components of spare part kit			

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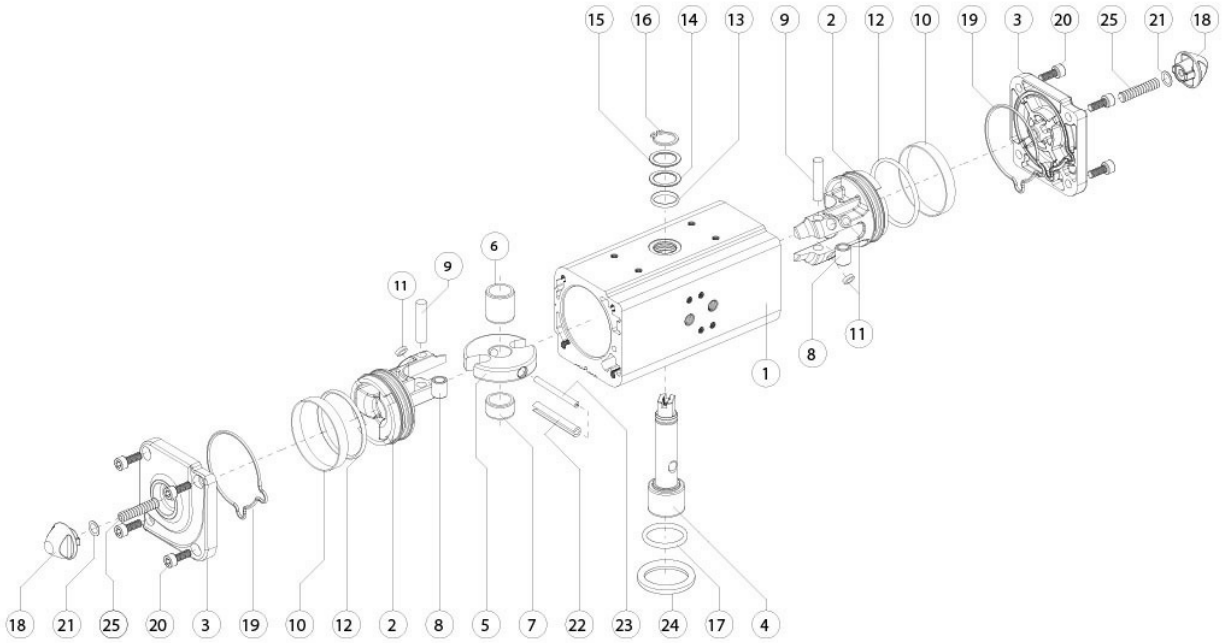
DOUBLE ACTING PNEUMATIC ACTUATOR COMPONENTS SIZE: GD15-GD1920



DOUBLE ACTING PNEUMATIC ACTUATOR COMPONENTS SIZE: GD15-GD1920			
Pos	**Denomination**	**Q.ty**	**Material**
1	Cylinder	1	Aluminium alloy
2	Piston	2	Aluminium alloy
3	Cap	2	Aluminium alloy
4	Shaft	1	Stainless steel
5	Scotch yoke	1	Steel alloy
6	Support bush	1	Acetalic resin
7	Shaft support	1	Acetalic resin
8	Bush	2	Steel alloy
9	Rotative sleeve	2	Steel alloy
10*	Dynamic seal	2	Polyurethan
11*	Piston's suport	4	P.T.F.E. carbo-graphite filled
12*	O-ring	2	Nitrilic rubber
13	O-ring (upper sealing shaft)	1	FKM
14	External support ring	1	Acetalic resins
15	Washer	1	Stainless steel
16	Seeger	1	Stainless steel
17	O-ring (lower sealing shaft)	1	FKM
18	Nut	2	Aluminium alloy
19*	End-cap O-ring	2	Nitrilic rubber
20	Screws	8	Stainless steel
21*	O-ring	2	Nitrilic rubber
22	External elastic pin of the yoke	1	Steel alloy
23	Internal elastic pin of the yoke	1	Steel alloy
24	Centering ring (OPTIONAL)	1	Aluminium alloy
25	Stroke adjustment screw	2	Stainless steel
* Components of spare part kit			

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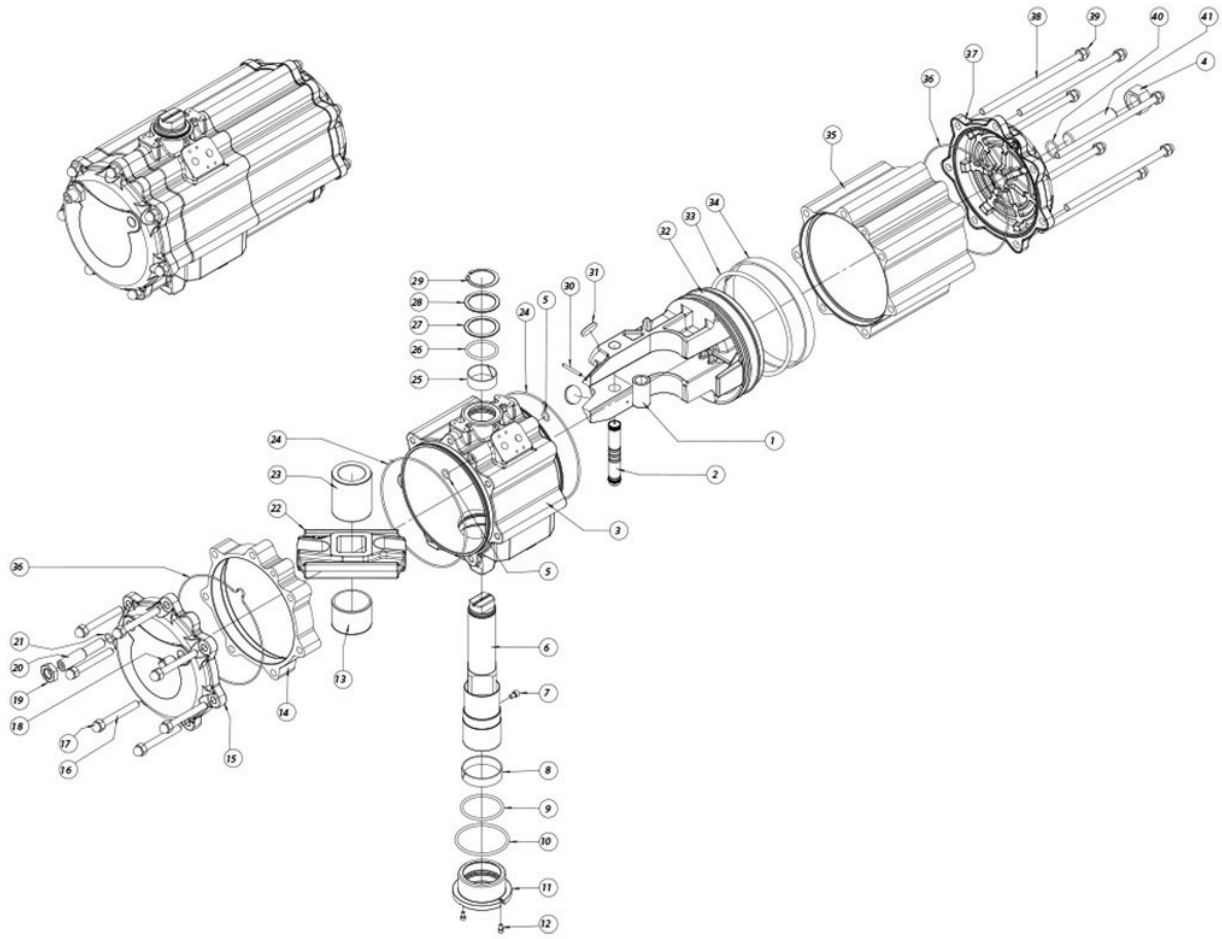
DOUBLE ACTING PNEUMATIC ACTUATOR COMPONENTS SIZE: GD2880



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DOUBLE ACTING PNEUMATIC ACTUATOR COMPONENTS SIZE: GD2880			
Pos	**Denomination**	**Q.ty**	**Material**
1	Steel bush	1	Steel alloy
2	Steel pin	1	Steel alloy
3	Body	1	Aluminium
4	Nut	1	Steel alloy
5*	O-ring	2	Nitrilic rubber
6	Shaft	1	Steel alloy
7	Screw	1	Steel alloy
8*	Bearing (shaft bottom)	1	P.T.F.E. carbo-graphite filled
9*	O-ring	1	FKM
10*	O-ring	1	FKM
11	Low bearing bush	1	Aluminium
12	Screw	2	Steel alloy
13	Bearing shaft	1	Acetalic resin
14	Spacer	1	Aluminium
15	Cap	1	Aluminium
16	Cap screw	7	Steel alloy
17	Cap nut	7	Steel alloy
18	Grub screw	1	Steel alloy
19	Nut	1	Steel alloy
20	Grub screw	1	Steel alloy
21*	O-ring	1	Nitrilic rubber
22	Scotch yoke	1	Steel alloy
23	Bearing shaft	1	Acetalic resin
24*	O-ring	2	Nitrilic rubber
25*	Bearing (shaft top)	1	P.T.F.E. carbo-graphite filled
26*	O-ring	1	FKM
27*	Thrust bearing	1	Acetalic resin
28	Washer	1	Steel alloy
29	Seeger	1	Steel alloy
30	Spring pin	1	Steel alloy
31*	Bearing (piston back)	2	Acetalic resin
32	Piston	1	Aluminium
33*	O-ring	1	Nitrilic rubber
34*	Bearing (piston head)	1	P.T.F.E. Carbo-Graphite filled
35	Lateral cylinder	1	Aluminium
36*	O-ring	2	Nitrilic rubber
37	Cap	1	Aluminium
38	Cap screw	7	Steel alloy
39	Cap nut	7	Steel alloy
40*	O-ring	1	Nitrilic rubber
41	Grub screw	1	Steel alloy
*Components of spare part kit			

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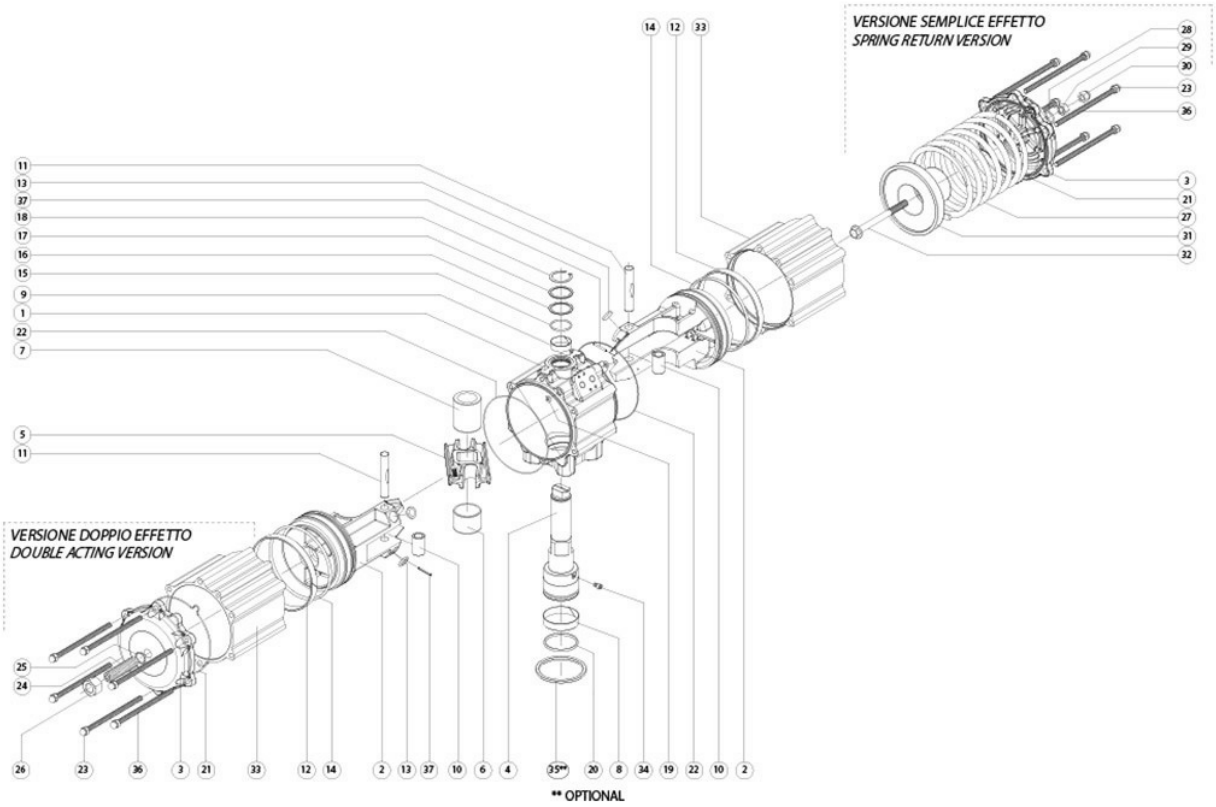
DOUBLE ACTING PNEUMATIC ACTUATOR COMPONENTS SIZE: GD3840



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DOUBLE ACTING PNEUMATIC ACTUATOR COMPONENTS SIZE: GD3840			
Pos	**Denomination**	**Q.ty**	**Material**
1	Cylinder	1	Aluminium alloy
2	Piston	2	Aluminium alloy
3	Cap	2	Aluminium alloy
4	Shaft	1	Stainless steel
5	Scotch yoke	1	Steel alloy
6	Bearing shaft	1	Acetalic resins
7	Bearing shaft	1	Acetalic resins
8*	Bearing (shaft bottom)	1	P.T.F.E. carbo-graphite filled
9*	Bearing (shaft top)	1	P.T.F.E. carbo-graphite filled
10	Steel bush	2	Steel alloy
11	Steel pin	2	Steel alloy
12*	Bearing (piston head)	2	P.T.F.E. Carbo-Graphite filled
13*	Bearing (piston back)	4	Acetalic resins
14*	O-ring	2	Nitrilic rubber
15*	O-ring	1	FKM
16*	Thrust bearing	1	Acetalic resins
17	Washer	1	Stainless steel
18	Seeger	1	Stainless steel
19*	O-ring	2	Nitrilic rubber
20*	O-ring	1	FKM
21*	O-ring	2	Nitrilic rubber
22*	O-ring	2	Nitrilic rubber
23	Cap nut	12	Stainless steel
24	Grub screws	2	Stainless steel
25*	O-ring	2	Nitrilic rubber
26	Nut	2	Stainless steel
27	Spring	4	Steel alloy
28*	O-ring	2	Nitrilic rubber
29	Nut	2	Stainless steel
30	Cap nut	2	Stainless steel
31	Spring cap	2	Aluminium alloy
32	Screw	2	Stainless steel
33	Cylinder	2	Aluminium alloy
34	Screw	1	Stainless steel
35**	Center ring (OPTIONAL)	1	Aluminium alloy
36	Cap screw	12	Steel alloy
37	Spring pin	2	Steel alloy
*Components of spare part kit			
** Optional			

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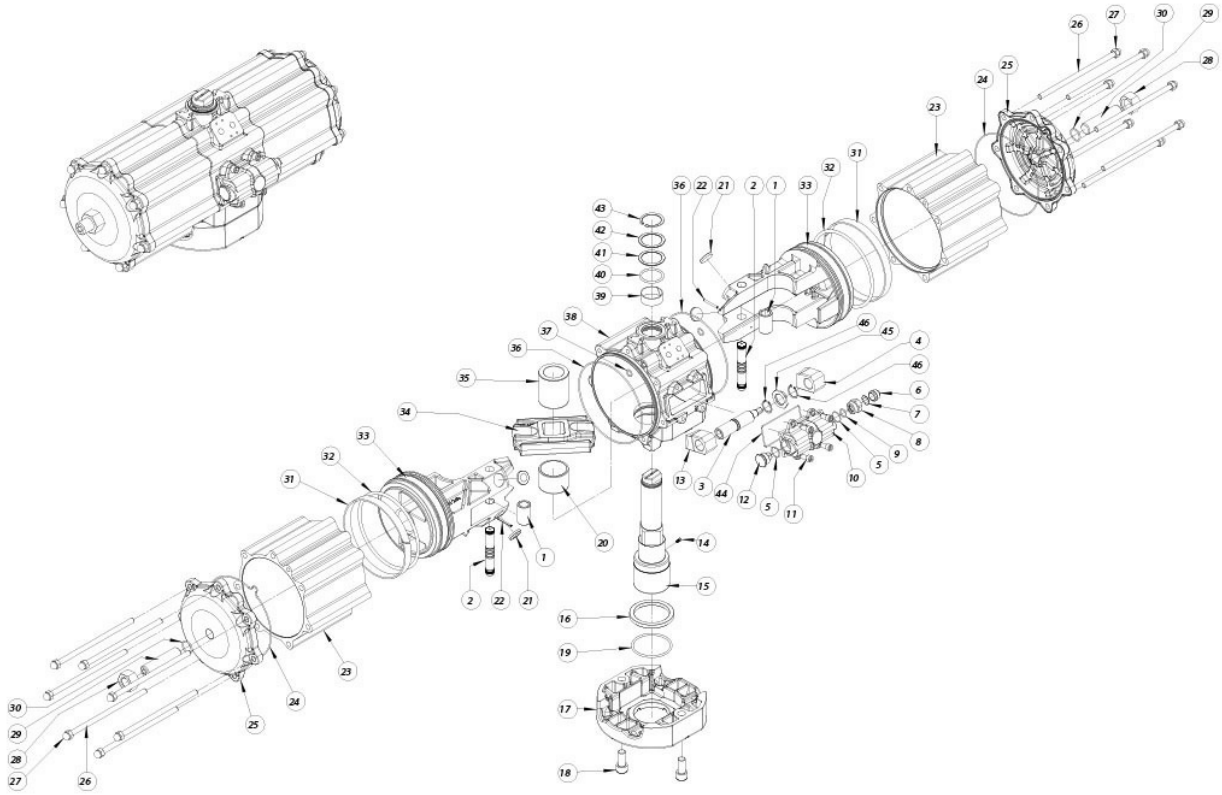
GD5760

DOUBLE ACTING PNEUMATIC ACTUATOR COMPONENTS SIZE: GD5760



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DOUBLE ACTING PNEUMATIC ACTUATOR COMPONENTS SIZE: GD5760			
Pos	**Denomination**	**Q.ty**	**Material**
1	Steel bush	2	Steel alloy
2	Steel pin	2	Steel alloy
3	Regolation screw	1	Steel alloy
4	Left stop	1	Steel alloy
5*	O-ring	2	Nitrilic rubber
6	Protection cap	1	Aluminium
7	Antirotation washer	1	Steel alloy
8	Metal ring	1	Stainless steel
9*	O-ring	1	Nitrilic rubber
10	Carter	1	Aluminium
11	Screw	4	Steel alloy
12	Metal ring	1	Stainless steel
13	Right stop	1	Steel alloy
14	Screw	1	Steel alloy
15	Shaft	1	Steel alloy
16	Bearing (shaft bottom)	1	P.T.F.E. carbo-graphite filled
17	Interface F25	1	Aluminium
18	Screw	2	Steel alloy
19*	O-ring	1	FKM
20	Bearing shaft	1	Acetalic resins
21*	Bearing (piston back)	4	Acetalic resins
22	Spring pin	2	Steel alloy
23	Lateral cylinder	2	Aluminium
24*	O-ring	2	Nitrilic rubber
25	Cap	2	Aluminium
26	Cap screws	14	Steel alloy
27	Cap nut	14	Steel alloy
28	Nut	2	Steel alloy
29	Grub screws	2	Steel alloy
30*	O-ring	2	Nitrilic rubber
31*	Bearing (piston head)	2	P.T.F.E. Carbo-Graphite filled
32*	O-ring	2	Nitrilic rubber
33	Piston	2	Aluminium
34	Scotch yoke	1	Steel alloy
35	Bearing shaft	1	Acetalic resin
36*	O-ring	2	Nitrilic rubber
37*	O-ring	2	Nitrilic rubber
38	Body	1	Aluminium
39*	Bearing (shaft top)	1	P.T.F.E. carbo-graphite filled
40*	O-ring	1	FKM
41*	Thrust bearing	1	Acetalic resin
42	Washer	1	Steel alloy
43	Seeger	1	Steel alloy
44*	Gasket	1	Nitrilic rubber
45	Washer	1	Steel alloy
46	Seeger	2	Steel alloy
*Components of spare part kit			

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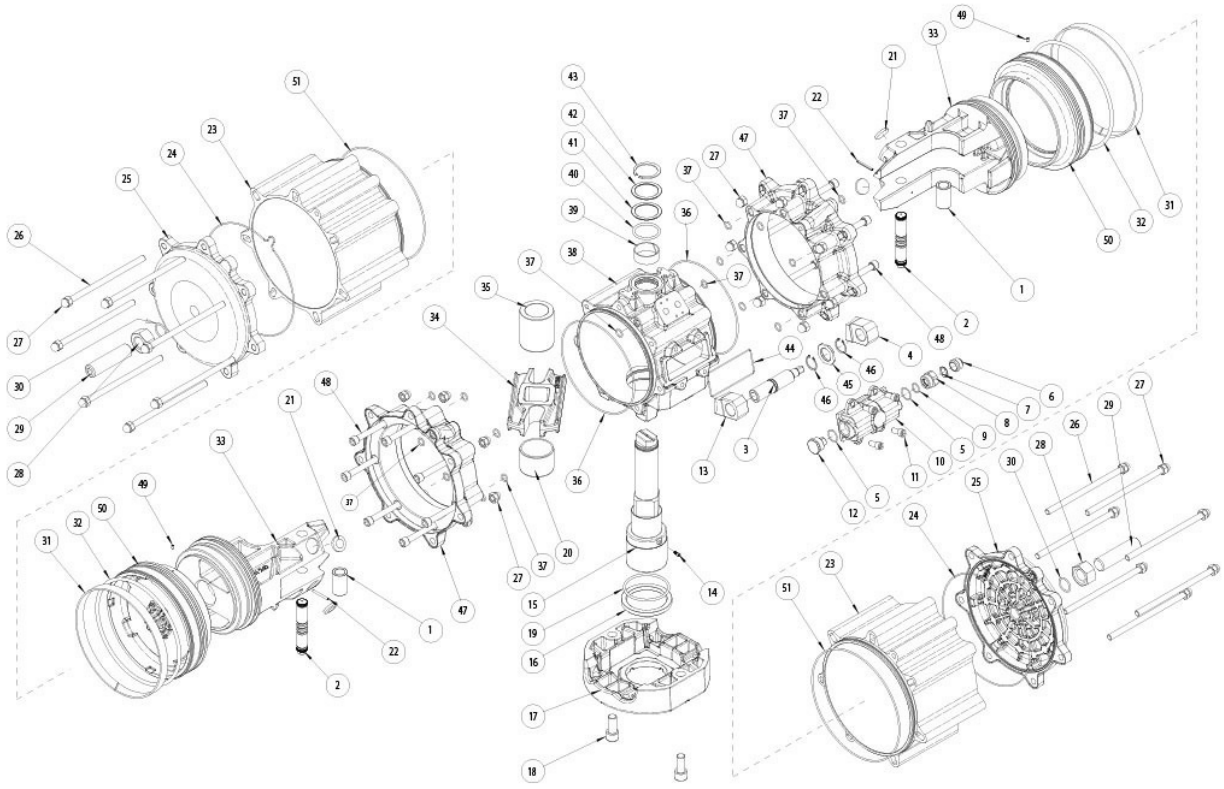
DOUBLE ACTING PNEUMATIC ACTUATOR COMPONENTS SIZE: GD8000



DOUBLE ACTING PNEUMATIC ACTUATOR COMPONENTS SIZE: GD8000			
Pos	**Denomination**	**Q.ty**	**Material**
1	Steel bush	2	Steel alloy
2	Steel pin	2	Steel alloy
3	Regulation screw	1	Steel alloy
4	Left stop	1	Steel alloy
5*	O-ring	2	Nitrilic rubber
6	Protection cap	1	Aluminium
7	Antirotation washer	1	Steel alloy
8	Metal ring	1	Stainless steel
9*	O-ring	1	Nitrilic rubber
10	Carter	1	Aluminium
11	Screw	4	Steel alloy
12	Metal ring	1	Stainless steel
13	Right stop	1	Steel alloy
14	Screw	1	Steel alloy
15	Shaft	1	Steel alloy
16	Bearing (shaft bottom)	1	P.T.F.E. carbo-graphite filled
17	Interface F25	1	Aluminium
18	Screw	2	Steel alloy
19*	O-ring	1	FKM
20	Bearing shaft	1	Acetalic resins
21*	Bearing (piston back)	4	Acetalic resins
22	Spring pin	2	Steel alloy
23	Lateral cylinder	2	Aluminium
24*	O-ring	2	Nitrilic rubber

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25	Cap	2	Aluminium
26	Cap screws	14	Steel alloy
27	Cap nut	28	Steel alloy
28	Nut	2	Steel alloy
29	Grub screws	2	Steel alloy
30*	O-ring	2	Nitrilic rubber
31*	Bearing (piston head)	2	P.T.F.E. Carbo-Graphite filled
32*	O-ring	2	Nitrilic rubber
33	Piston	2	Aluminium
34	Scotch yoke	1	Steel alloy
35	Bearing shaft	1	Acetalic resins
36*	O-ring	2	Nitrilic rubber
37*	O-ring	18	Nitrilic rubber
38	Body	1	Aluminium
39*	Bearing (shaft top)	1	P.T.F.E. carbo-graphite filled
40*	O-ring	1	FKM
41*	Thrust bearing	1	Acetalic resins
42	Washer	1	Steel alloy
43	Seeger	1	Steel alloy
44*	Gasket	1	Nitrilic rubber
45	Washer	1	Steel alloy
46	Seeger	2	Steel alloy
47	Flange	2	Aluminium
48	Screws	14	Steel alloy
49	Screw	2	Steel alloy
50	Flange	2	Aluminium
51*	O-ring	2	Nitrilic rubber
* Components of spare part kit			

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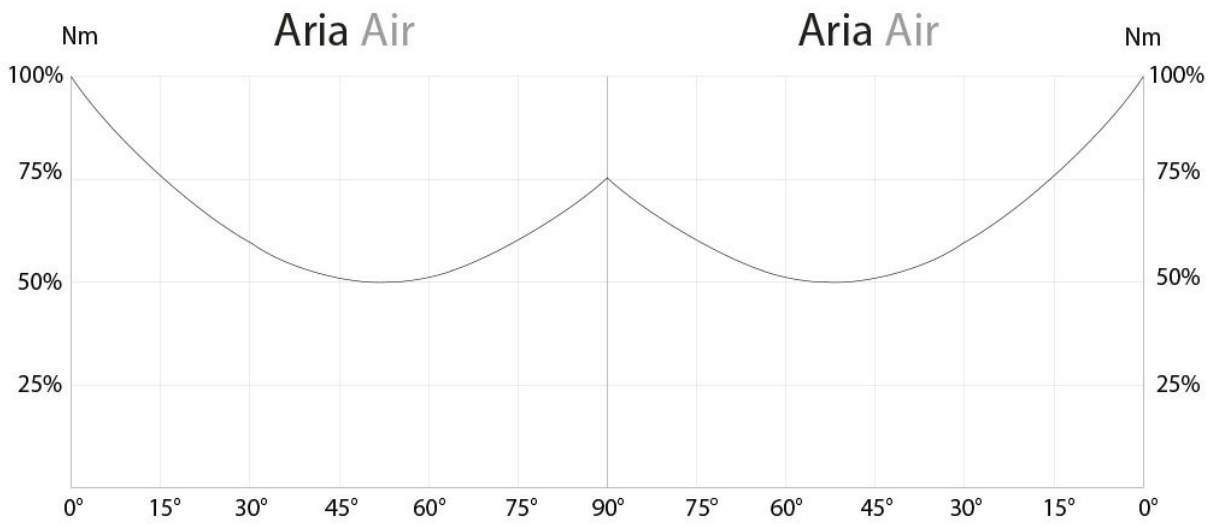
diagrams and breakaway torque

Output torque diagram related to rotation angle



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OUTPUT TORQUE TABLE (Nm) α°= ROTATION ANGLE								
SIZE	α°	3 bar	4 bar	5 bar	5,6 bar	6 bar	7 bar	8 bar
GD 08	0°	3,8	5	6,3	7	7,5	8,8	10
	45°	1,9	2,5	3,1	3,5	3,8	4,4	5
	90°	3,8	5	6,3	7	7,5	8,8	10
GD 15	0°	8,0	10,7	13,4	15,0	16,1	18,8	21,4
	50°	4,0	5,4	6,7	7,5	8,0	9,4	10,7
	90°	6,1	8,1	10,1	11,3	12,1	14,1	16,1
GD 30	0°	16,1	21,4	26,8	30,0	32,1	37,5	42,9
	50°	8,0	10,7	13,4	15,0	16,1	18,8	21,4
	90°	12,1	16,1	20,1	22,5	24,1	28,1	32,1
GD 45	0°	24,1	32,1	40,2	45,0	48,2	56,3	64,3
	50°	12,1	16,1	20,1	22,5	24,1	28,1	32,1
	90°	18,1	24,1	30,1	33,8	36,2	42,2	48,2
GD 60	0°	32,1	42,9	53,6	60,0	64,3	75,0	85,7
	50°	16,1	21,4	26,8	30,0	32,1	37,5	42,9
	90°	24,1	32,1	40,2	45,0	48,2	56,3	64,3
GD 106	0°	56,8	75,7	94,6	106,0	113,6	132,5	151,4
	50°	28,4	37,9	47,3	53,0	56,8	66,3	75,7
	90°	42,9	57,1	71,4	80,0	85,7	100,0	114,3
GD 120	0°	64,3	85,7	107,1	120,0	128,6	150,0	171,4
	50°	32,1	42,9	53,6	60,0	64,3	75,0	85,7
	90°	48,2	64,3	80,4	90,0	96,4	112,5	128,6
GD 180	0°	96,4	128,4	160,7	180,0	192,9	225,0	257,1
	50°	48,2	64,3	80,4	90,0	96,4	112,5	128,6
	90°	72,3	96,4	120,5	135,0	144,6	168,8	192,9
GD 240	0°	128,6	171,4	214,3	240,0	257,1	300,0	342,9
	50°	64,3	85,7	107,1	120,0	128,6	150,0	171,4
	90°	96,4	128,6	160,7	180,0	192,9	225,0	257,1
GD 360	0°	192,9	257,1	321,4	360,0	385,7	450,0	514,3
	50°	96,4	128,6	160,7	180,0	192,9	225,0	257,1
	90°	144,6	192,9	241,1	270,0	289,3	337,5	385,7
GD 480	0°	257,1	342,9	428,6	480,0	514,3	600,0	685,7
	50°	128,6	171,4	214,3	240,0	257,1	300,0	342,9
	90°	192,9	257,1	321,4	360,0	385,7	450,0	514,3
GD 720	0°	385,7	514,3	642,9	720,0	771,4	900,0	1028,6
	50°	192,9	257,1	321,4	360,0	385,7	450,0	514,3
	90°	289,3	385,7	482,1	540,0	578,6	675,0	771,4
GD 960	0°	514,3	685,7	857,1	960,0	1028,6	1200,0	1371,4
	50°	257,1	342,9	428,6	480,0	514,3	600,0	685,7
	90°	385,7	514,3	642,9	720,0	771,4	900,0	1028,6
GD 1440	0°	771,4	1028,6	1285,7	1440,0	1542,9	1800,0	2057,1
	50°	385,7	514,3	642,9	720,0	771,4	900,0	1028,6
	90°	578,6	771,4	964,3	1080,0	1157,1	1350,0	1542,9
GD 1920	0°	1028,6	1371,4	1714,3	1920,0	2057,1	2400,0	2742,9
	50°	514,3	685,7	857,1	960,0	1028,6	1200,0	1371,4
	90°	771,4	1028,6	1285,7	1440,0	1542,9	1800,0	2057,1
GD 2880	0°	1542,9	2057,1	2571,4	2880,0	3085,7	3600,0	4114,3
	50°	771,4	1028,6	1285,7	1440,0	1542,9	1800,0	2057,1
	90°	1157,1	1542,9	1928,6	2160,0	2314,3	2700,0	3085,7
GD 3840	0°	2057,1	2742,9	3428,6	3840,0	4114,3	4800,0	5485,7
	50°	1028,6	1371,4	1714,3	1920,0	2057,1	2400,0	2742,9
	90°	1542,9	2057,1	2571,4	2880,0	3085,7	3600,0	4114,3
GD 5760	0°	3085,7	4114,3	5142,9	5760,0	6171,4	7200,0	8228,6
	50°	1542,9	2057,1	2571,4	2880,0	3085,7	3600,0	4114,3
	90°	2314,3	3085,7	3857,1	4320,0	4628,6	5400,0	6171,4
GD 8000	0°	4285,7	5714,3	7142,9	8000,0	8571,4	10000,0	---
	50°	2142,9	2857,1	3571,4	4000,0	4285,7	5000,0	---
	90°	3214,3	4285,7	5357,1	6000,0	6428,6	7500,0	---

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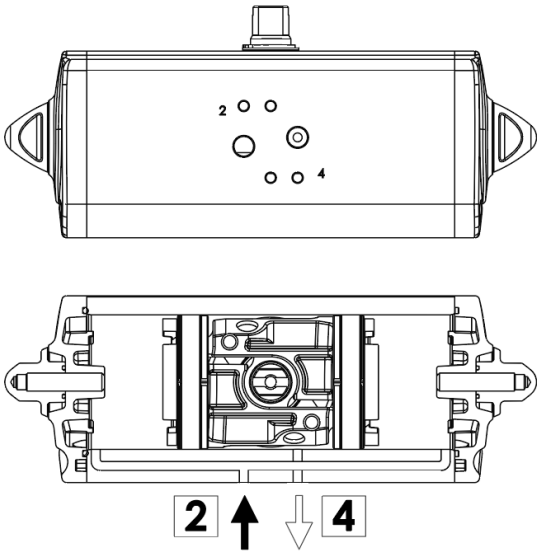
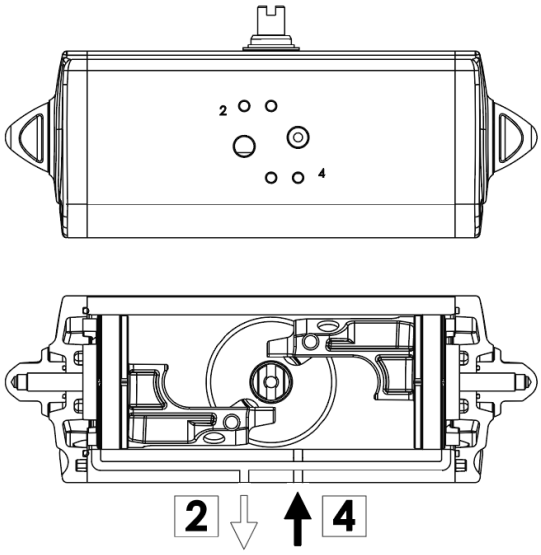
specifications

WORKING PLANE PNEUMATIC ACTUATOR "GD" TYPE



SCHEMA DI FUNZIONAMENTO
Immettendo aria nel foro 2 di alimentazione, i pistoni si muovono verso il centro e si ha una rotazione antioraria, la posizione finale è quella rappresentata nel disegno.

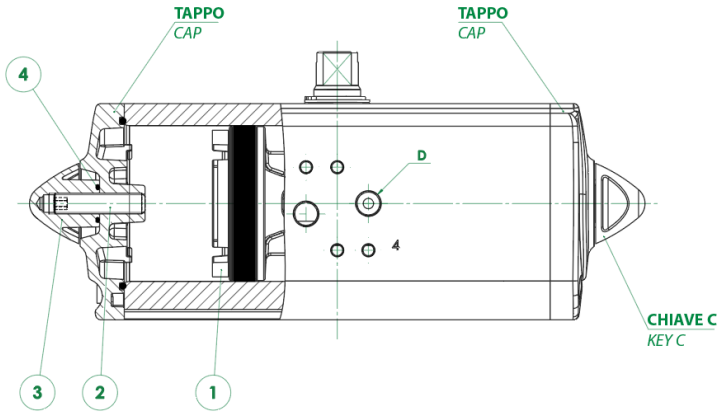
WORKING PLANE
Supplying air through the air connection 2, the pistons move towards the center in an anticlockwise direction. The above drawing shows the final position.



SCHEMA DI FUNZIONAMENTO
Immettendo aria nel foro 4 di alimentazione, i pistoni si muovono verso l'esterno e si ha una rotazione oraria, la posizione finale è quella rappresentata nel disegno.

WORKING PLANE
Supplying air through the air connection 4, the pistons move outwards in a clockwise direction. The above drawing shows the final position.

ATTUATORE REGOLABILE-ISTRUZIONI PER L' UTILIZZO *ACTUATOR WITH STROKE ADJUSTMENT-INSTRUCTIONS*



A) Immettere aria nel foro "D" in modo che i pistoni (part. n°1) si vengano a trovare in posizione di finecorsa verso i tappi.
B) Togliere il controdado (part. n°3) agendo sulla chiave C.
C) Togliere l'aria di alimentazione.
D) Con una chiave a brugola agire sulle viti (part. n°2) ed effettuare la limitazione di corsa desiderata.
N.B. La corsa può essere limitata per un massimo di 10° da 80° a 90°.
Altre regolazioni disponibili a richiesta.
E) Mettere aria nel foro "D", verificare che entrambe le viti (part. n°2) siano a battuta contro i pistoni.
F) Mettere il controdado (part. n°3) munito di O-ring (part. n°4) per la tenuta tra dado e tappo.

N.B. queste spiegazioni sono indicative, per le istruzioni operative, vedere il manuale.

A) *Supply air through the air connection D so that the pistons (Part. 1) move to the end-stroke position, towards the caps.*
B) *Remove the counter nut (part. 3) acting on the C key.*
C) *Shut off the air supply.*
D) *Adjust the end stroke as desired, acting on the screws (part 2) with an hexagonal key.*
Note: *maximum adjusting stroke 10°, ranging from 80° to 90°.*
Other regulations on request.
E) *Supply air through the air connection D and check that both screws stop the pistons.*
F) *Screw the counter-nut (part 3) and its o-ring (part 4) to keep nut and cap tight.*

N.B. *these explanations are indicative, for operating instructions, see the manual.*

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accessories

LIMIT SWITCH BOX

MANUAL OVERRIDE WITH HAND WHEEL

NAMUR SOLENOID VALVES

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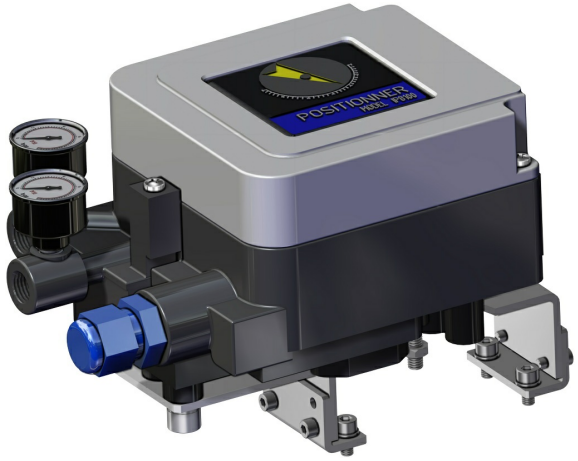
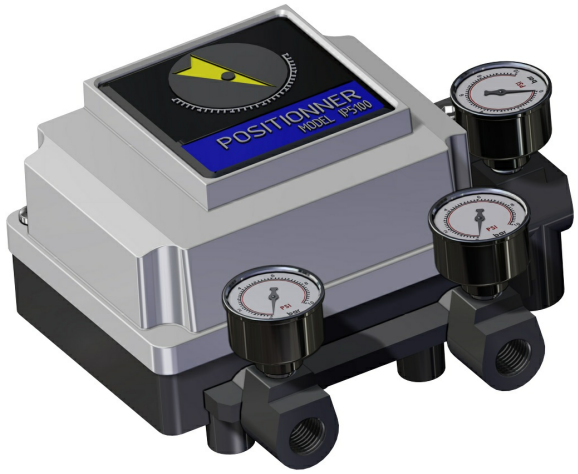
SOLENOID VALVES

ELECTROPNEUMATIC POSITIONER (INTRINSICALLY SAFE)



PNEUMATIC POSITIONER



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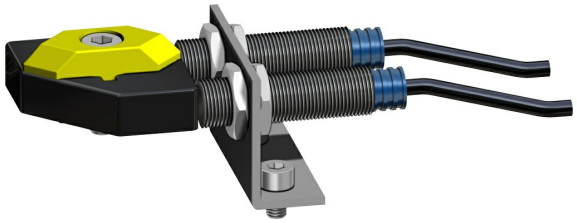
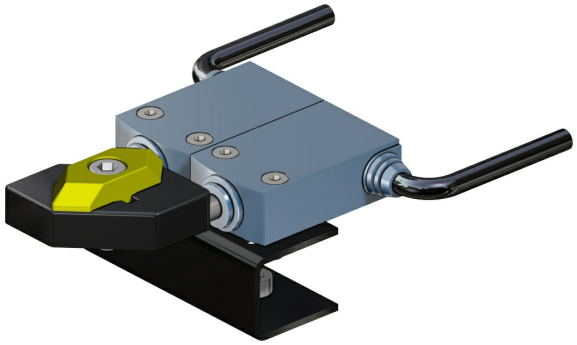
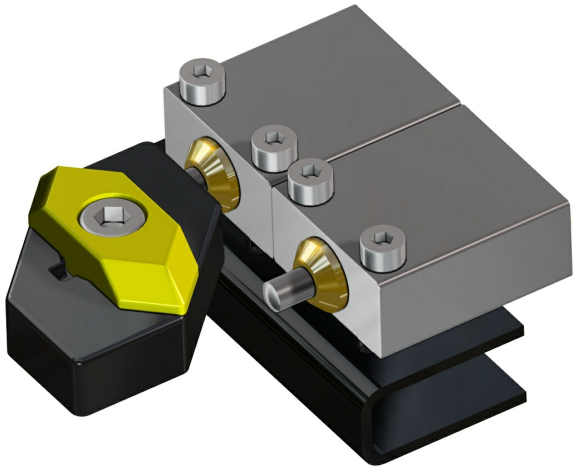
PROXIMITY LIMIT SWITCHES



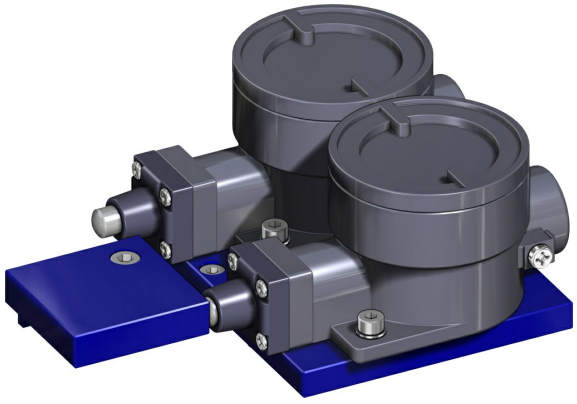
ELECTROMECHANICAL LIMIT SWITCHES



PNEUMATIC LIMIT SWITCHES



EXPLOSION PROOF LIMIT SWITCHES II2GD ExdIIC



For more information check the ACTUATECH Accessories Catalogue.

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documents

Catalogs

ATTUATORI PNEUMATICI IN ALLUMINIO

Datasheet

GD0008F03
GD0030F03F05
GD0045F04
GD0106F05F07
GD0240F07F10
GD0720F10F12
GD1920F14
GD1440F12
GD3840F16 100°
GD0015F03
GD0030F04
GD0060F04
GD0120F05F07
GD1440F14
GD0960F10F12
GD0360F07F10
GD2880F16
GD5760F25
GD0015F04
GD0045F03F05
GD0180F07F10
GD0060F05F07
GD0480F10F12
GD0960F14
GD1920F12F16
GD3840F16
GD8000F25

Manuals

MANUALE GD0008 - MAN80938
MANUALE GD2880-GD8000 E GS1440-GS4000 - MAN80937
MANUALE GD0015-GD1920 E GS0015-GS0960 - MAN80515

Certificates

AKNOWLEDGEMENT OF RECEIPT - EC - ATEX
DECLARATION OF DUST AND WATER PROTECTION DEGREE IP6X-IPX8-IPX6
SIL CERTIFICATE GD