

SERIE

ST

**CILINDRI STOPPER**  
**STOPPER CYLINDERS**

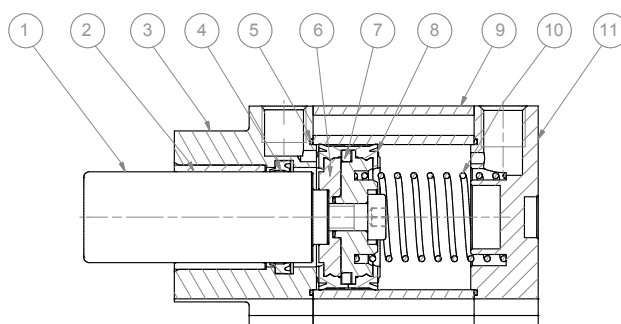
  
**ARTEC**<sup>®</sup>  
PNEUMATIC COMPONENTS

## CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS

<b>Pressione di esercizio</b> <i>Working pressure</i>	2 ÷ 10 bar (semplice effetto - <i>single acting</i> )
<b>Temperatura di esercizio</b> <i>Working temperature</i>	0 ÷ +80 °C (-20 °C con aria secca - <i>with dry air</i> )
<b>Versioni - Versions</b>	semplice effetto molla posteriore - <i>single acting rear spring</i>
<b>Alesaggi - Bores</b>	∅ 20 - 32 - 50 - 80
<b>Corse - Strokes</b>	15 - 20 - 30
<b>Fluido - Fluid</b>	aria compressa filtrata, non lubrificata - <i>compressed filtered, non lubricated air</i>

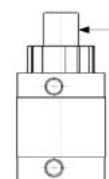
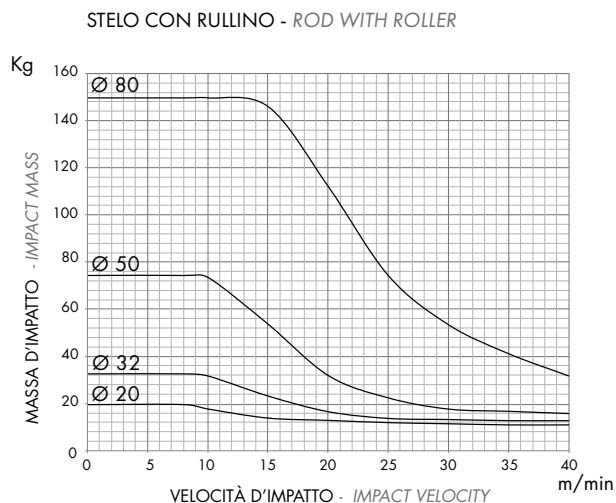
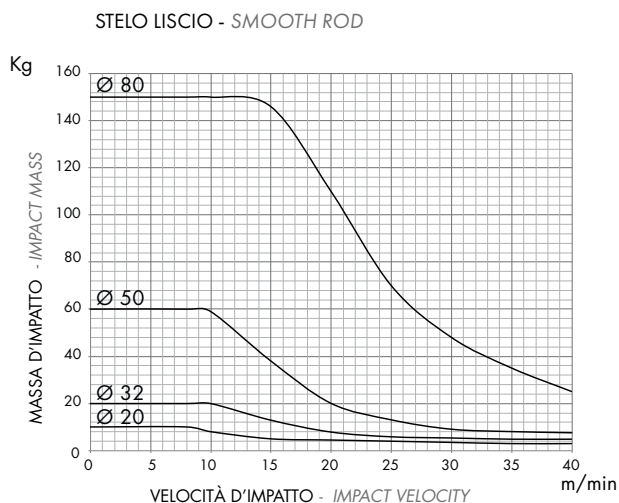
## CARATTERISTICHE COSTRUTTIVE - CONSTRUCTIVE CHARACTERISTICS

①	<b>Stelo - Rod</b>	acciaio inox cromato - <i>chromed stainless steel</i>
②	<b>Boccola - Bush</b>	acciaio+PTFE - <i>steel+PTFE</i>
③ ⑪	<b>Testate - Covers</b>	alluminio anodizzato - <i>anodized aluminium</i>
④ ⑧	<b>Guarnizioni - Seals</b>	poliuretano - <i>polyurethane</i>
⑤	<b>O-ring</b>	NBR
⑥	<b>Pistone - Piston</b>	alluminio - <i>aluminium</i>
⑦	<b>Magnete - Magnet</b>	plastroferrite - <i>rubber magnet</i>
⑨	<b>Tubo - Tube</b>	alluminio anodizzato - <i>anodized aluminium</i>
⑩	<b>Molla - Spring</b>	acciaio - <i>steel</i>
	<b>Viti - Screws</b>	acciaio zincato - <i>zinc coated steel</i>
	<b>Paracolpo - Bumper</b>	poliuretano - <i>polyurethane</i>



## DIAGRAMMA CARICO AMMISSIBILE

### ALLOWABLE LOAD



## CHIAVE DI CODIFICA

### KEY CODE

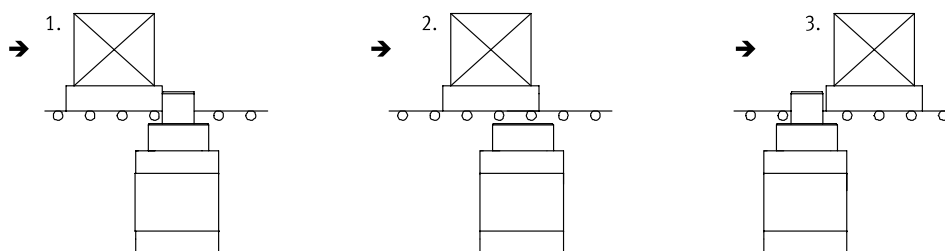
<b>P</b>		<b>S</b>		<b>T</b>		<b>050</b>		<b>.030</b>		<b>.GS</b>		<b>.L</b>	
		<b>ALESAGGIO - BORE (Ø)</b>				<b>CORSA - STROKE (mm)</b>				<b>STELO - ROD</b>			
		020				015				L		liscio smooth	
		032				020				R		con rullino with roller	
		050-080				030							
		<b>VERSIONE - VERSION</b>				<b>GUARNIZIONI - SEALS</b>							
		ST		STOPPER semplice effetto magnetico stelo esteso single acting magnetic STOPPER with rear spring		GS		guarnizioni standard standard seals					
		<b>SERIE - SERIES</b>											
<b>ISO 21287</b>	<b>P</b>	tubo profilato con cave per sensori tube with slots for sensors											
<b>UNITOP</b>	<b>A</b>	tubo profilato con cave per sensori tube with slots for sensors											

SERIE  
**ST**

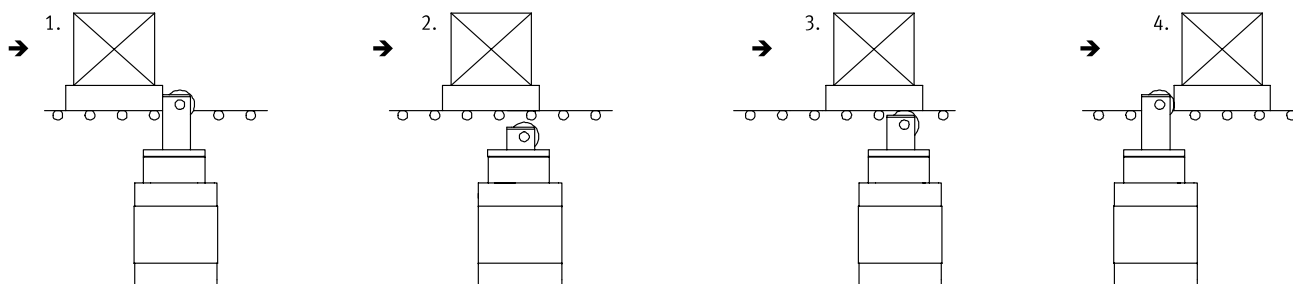
## SCHEMA DI FUNZIONAMENTO

### DIAGRAM OF OPERATION

STELO LISCIO - SMOOTH ROD



STELO CON RULLINO - ROD WITH ROLLER



## FORZA TEORICHE DI TRAZIONE (P=6bar)

### THEORETICAL FORCES OF TRACTION (P=6bar)

		Ø	020	032	050	080	
AST	PST	SPINTA - THRUST	[N]	188	482	1178	3014
		TRAZIONE - TRACTION	[N]	120	294	695	1837

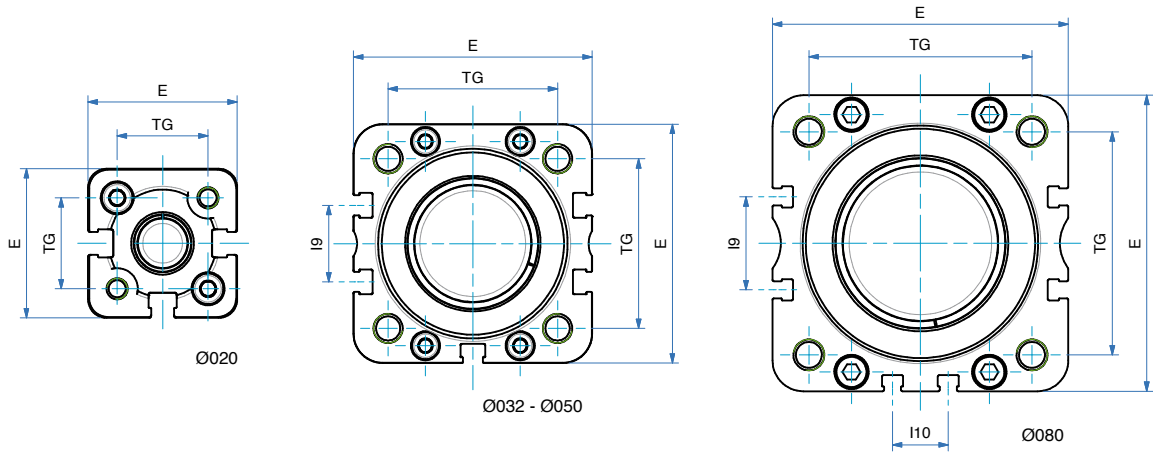
## FORZA TEORICA MOLLA

### SPRING THEORETICAL FORCE

		Ø	020	032	050	080	
AST	PST	CARICO MAX - MAX LOAD	[N]	36	51	78	187
		CARICO MIN - MIN LOAD	[N]	28	36	49	133

**CILINDRO STOPPER**

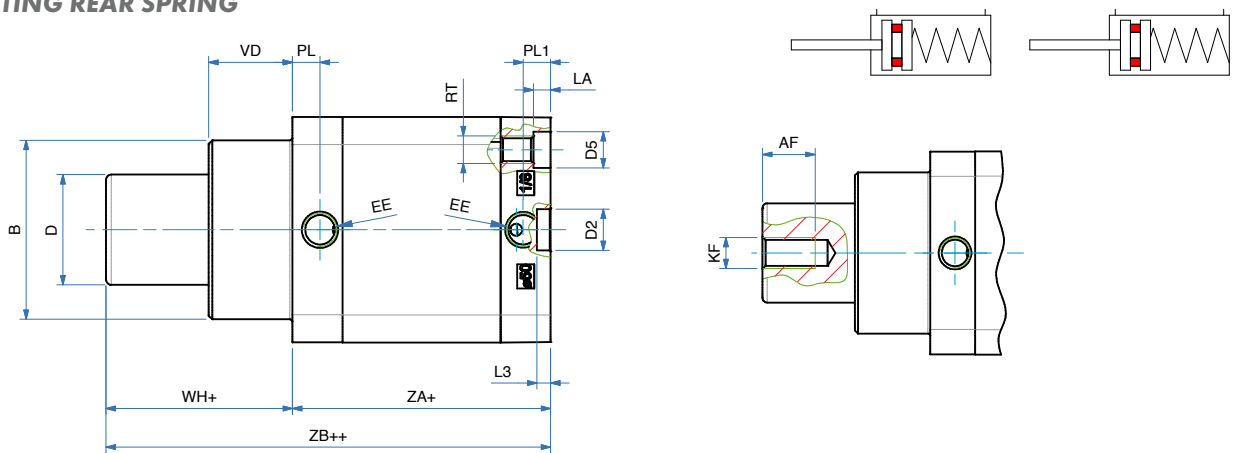
**STOPPER CYLINDER**



SERIE  
**ST**

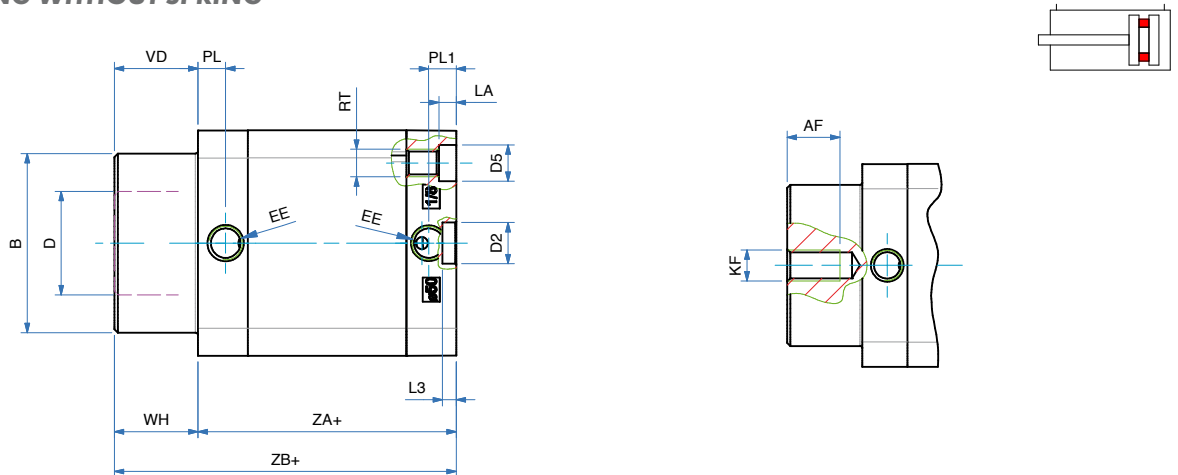
**SEMPLICE EFFETTO MOLLA POSTERIORE**

**SINGLE ACTING REAR SPRING**



**DOPPIO EFFETTO SENZA MOLLA**

**DOUBLE ACTING WITHOUT SPRING**



**CILINDRI STOPPER**
**PST-**
**STOPPER CYLINDERS**

<b>DIMENSIONI - DIMENSIONS</b>				
<b>Ø</b>	<b>020</b>	<b>032</b>	<b>050</b>	<b>080</b>
<b>AF</b>	15	15	17	20
<b>Ø B</b>	26	38	52	76
<b>Ø D</b>	12	20	32	50
<b>Ø D2</b>	9	9	12	12
<b>Ø D5</b>	7,5	9	10,5	13,5
<b>E</b>	36	49	65,5	95,5
<b>EE</b>	M5	G1/8"	G1/8"	G1/8"
<b>I9</b>	-	10,8	21	30
<b>I10</b>	-	-	-	18
<b>KF</b>	M6	M8	M10	M12
<b>LA</b>	4,5	5	5	3
<b>L3</b>	3	3	4	4
<b>PL</b>	9	8	8	8
<b>PL1</b>	7,5	8	8	8
<b>RT</b>	M5	M6	M8	M10
<b>TG</b>	22	32,5	46,5	72
<b>VD</b>	11,5	16,5	24,5	15
<b>WH</b>	11,5	16,5	24,5	15
<b>WH+</b>	11,5	16,5	24,5	15
<b>ZA+</b>	38	44	45	96
<b>ZB+</b>	49,5	60,5	69,5	111
<b>ZB++</b>	49,5	60,5	69,5	111

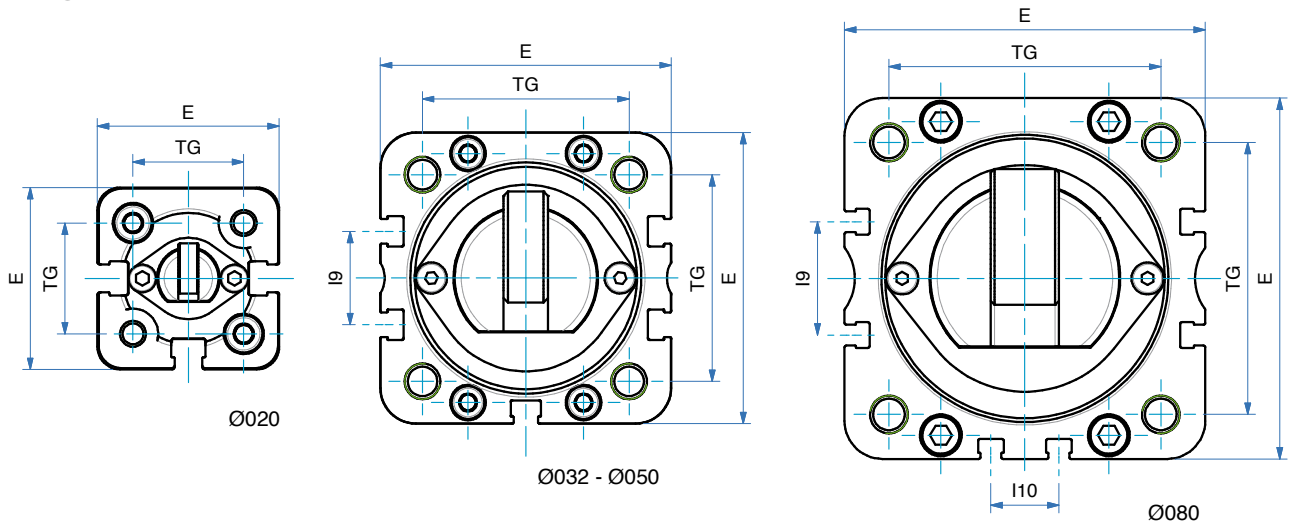
<b>Ø</b>	<b>CORSE STANDARD - STANDARD STROKES</b>
<b>020</b>	15
<b>032</b>	20
<b>050</b>	30
<b>080</b>	30

**SERIE  
ST**

**CILINDRO STOPPER**

PST-R

**STOPPER CYLINDER**

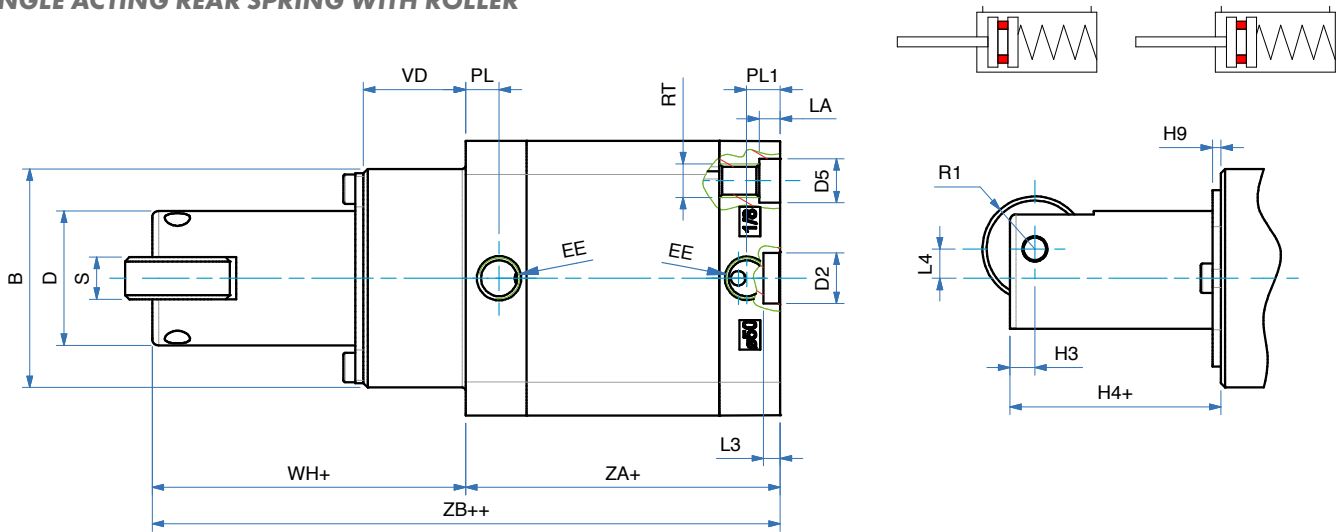


**SEMPLICE EFFETTO MOLLA POSTERIORE CON RULLINO**

PST-R

PSTD-R

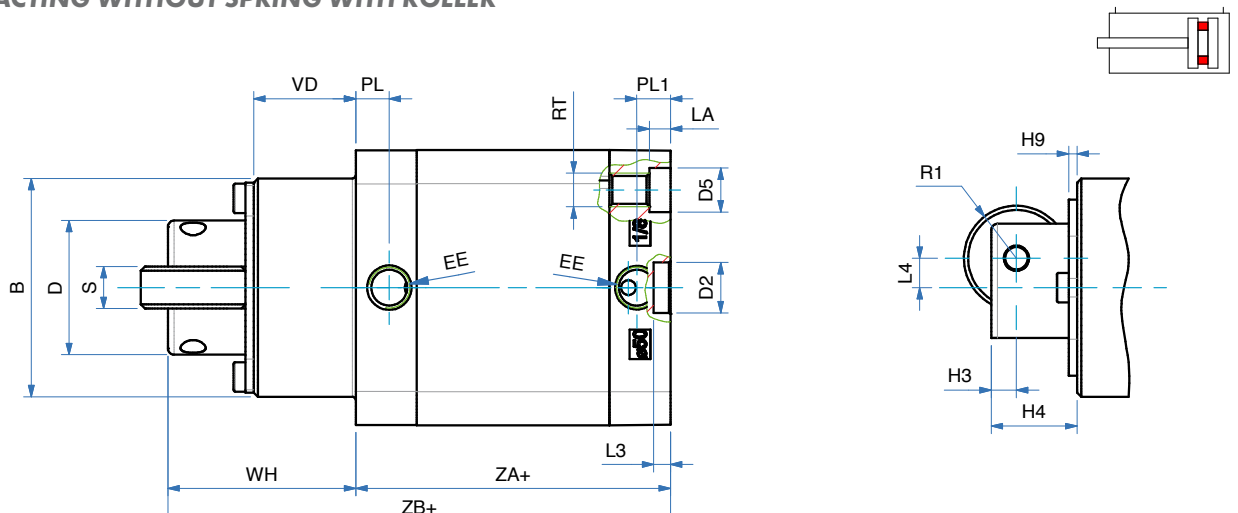
**SINGLE ACTING REAR SPRING WITH ROLLER**



**DOPPIO EFFETTO SENZA MOLLA CON RULLINO**

PSTD1-R

**DOUBLE ACTING WITHOUT SPRING WITH ROLLER**



**CILINDRI STOPPER**
**PST-R**
**STOPPER CYLINDERS**

<b>DIMENSIONI - DIMENSIONS</b>				
<b>Ø</b>	<b>020</b>	<b>032</b>	<b>050</b>	<b>080</b>
<b>Ø B</b>	26	38	52	76
<b>Ø D</b>	12	20	32	50
<b>Ø D2</b>	9	9	12	12
<b>Ø D5</b>	7,5	9	10,5	13,5
<b>E</b>	36	49	65,5	95,5
<b>EE</b>	M5	G1/8"	G1/8"	G1/8"
<b>H3</b>	3	6	6	10
<b>H4</b>	9	18	20,5	33
<b>H4+</b>	9	18	20,5	33
<b>H9</b>	2	2	2	3
<b>I10</b>	-	-	-	18
<b>I9</b>	-	10,8	21	30
<b>L3</b>	3	3	4	4
<b>L4</b>	2	3,5	7	11
<b>LA</b>	4,5	5	5	3
<b>PL</b>	9	8	8	8
<b>PL1</b>	7,5	8	8	8
<b>R1</b>	5	9	12,5	18
<b>RT</b>	M5	M6	M8	M10
<b>S</b>	4	8	10	18
<b>TG</b>	22	32,5	46,5	72
<b>VD</b>	11,5	16,5	24,5	15
<b>WH</b>	20,5	34,5	45	48
<b>WH+</b>	20,5	34,5	45	48
<b>ZA+</b>	38	44	45	96
<b>ZB+</b>	58,5	78,5	90	144
<b>ZB++</b>	58,5	78,5	90	144

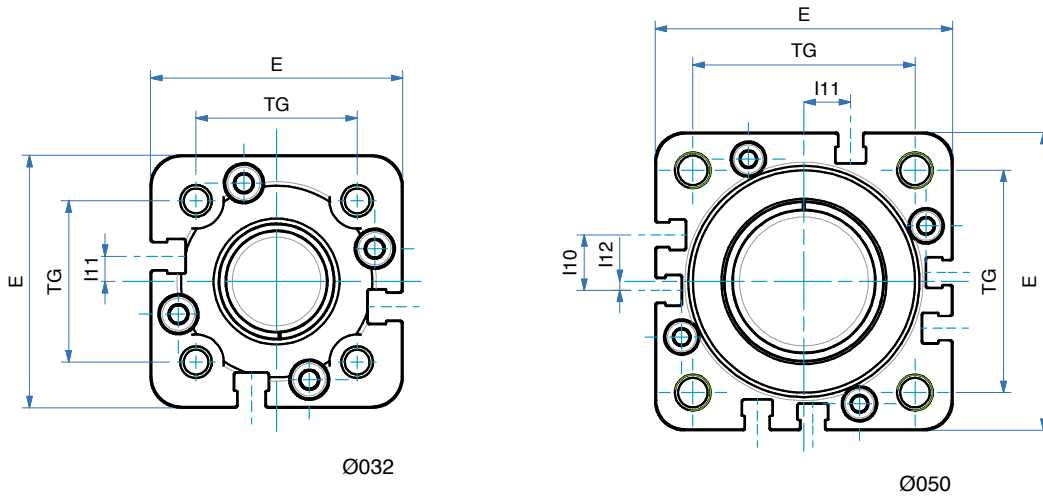
<b>Ø</b>	<b>CORSE STANDARD - STANDARD STROKES</b>
<b>020</b>	15
<b>032</b>	20
<b>050</b>	30
<b>080</b>	30

 SERIE  
**ST**

**CILINDRO STOPPER**

AST-

**STOPPER CYLINDER**

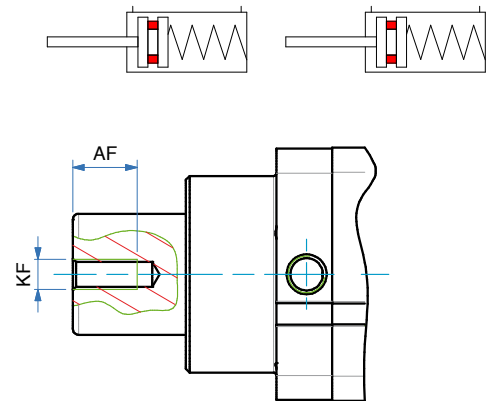
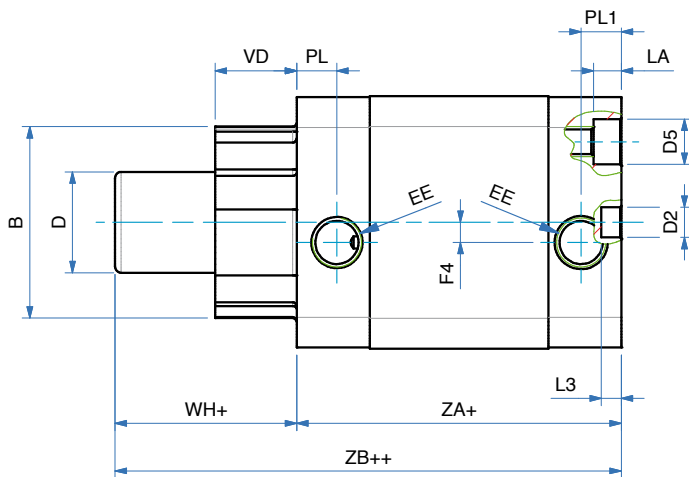


**SEMPLICE EFFETTO MOLLA POSTERIORE**

AST

ASTD

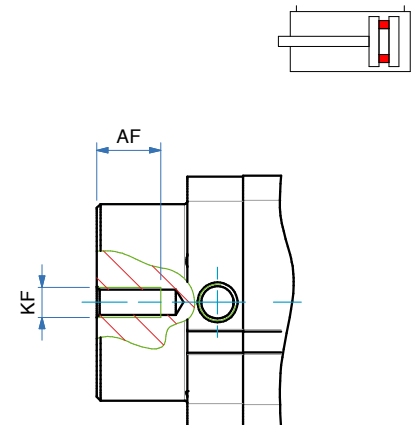
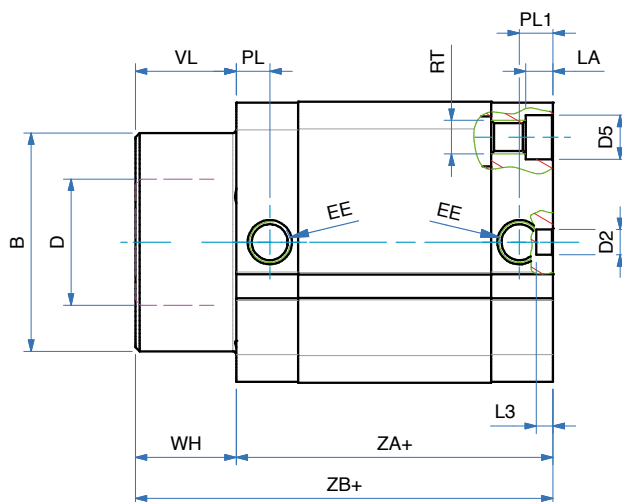
**SINGLE ACTING REAR SPRING**



**DOPPIO EFFETTO SENZA MOLLA**

ASTD1

**DOUBLE ACTING WITHOUT SPRING**





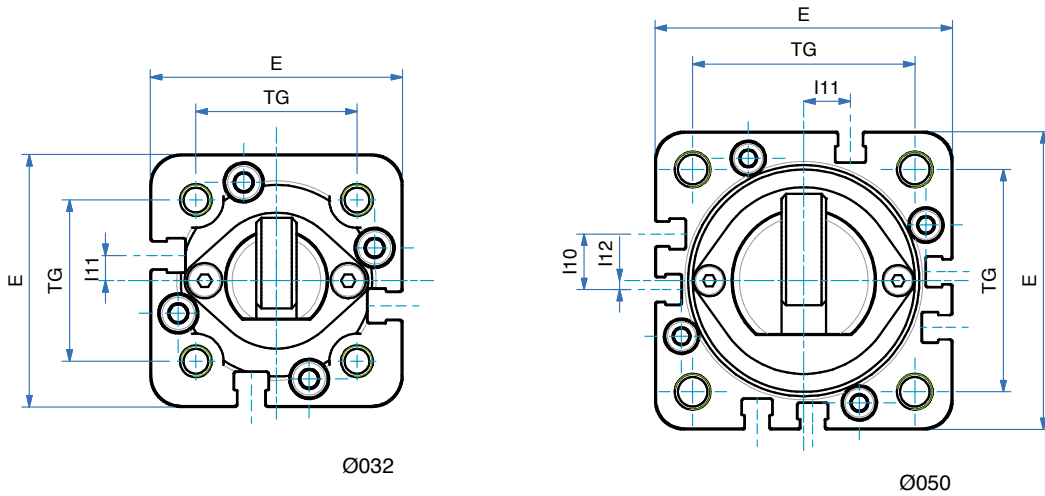
**CILINDRI STOPPER**
**STOPPER CYLINDERS**

<b>DIMENSIONI - DIMENSIONS</b>		
<b>Ø</b>	<b>032</b>	<b>050</b>
<b>AF</b>	15	17
<b>Ø B</b>	38	52
<b>Ø D</b>	20	32
<b>Ø D2</b>	6	6
<b>Ø D5</b>	9	10,5
<b>E</b>	50	67
<b>EE</b>	G1/8"	G1/8"
<b>F4</b>	4	-
<b>I10</b>	-	12,5
<b>I11</b>	5	10,5
<b>I12</b>	-	2
<b>KF</b>	M6	M8
<b>LA</b>	5,5	6,5
<b>L3</b>	4	4
<b>PL</b>	8	8
<b>PL1</b>	8	8
<b>RT</b>	M6	M8
<b>TG</b>	32	50
<b>VD</b>	16	24
<b>WH</b>	16	24
<b>WH+</b>	16	24
<b>ZA+</b>	44,5	45,5
<b>ZB+</b>	60,5	69,5
<b>ZB++</b>	60,5	69,5

<b>Ø</b>	<b>CORSE STANDARD - STANDARD STROKES</b>
<b>032</b>	20
<b>050</b>	30

**CILINDRO STOPPER**

**STOPPER CYLINDER**



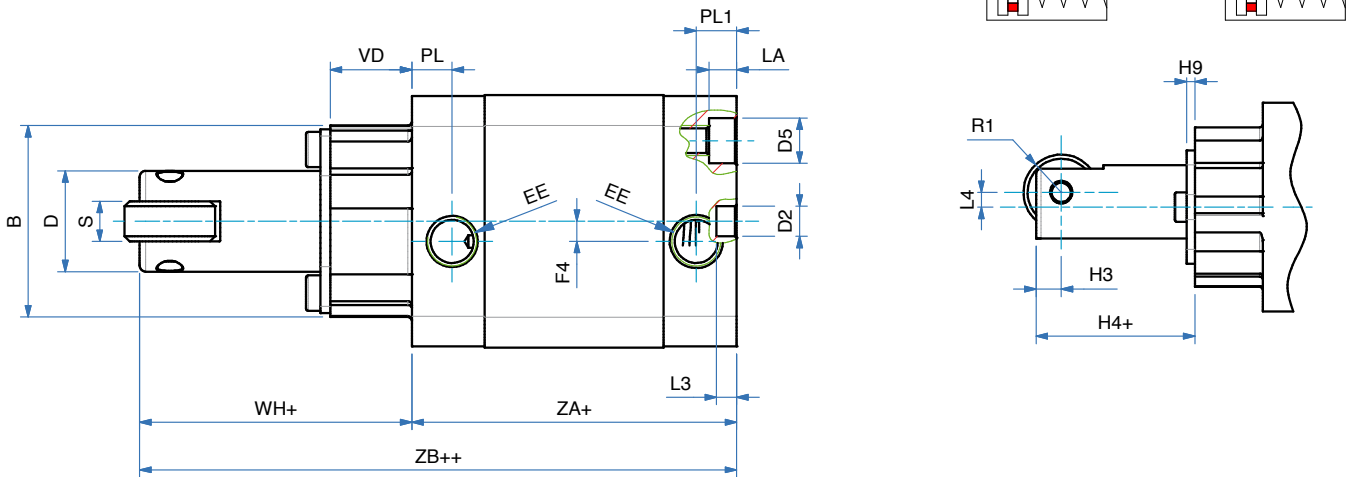
SERIE  
**ST**

**SEMPLICE EFFETTO MOLLA POSTERIORE CON RULLINO**

AST-R

ASTD-R

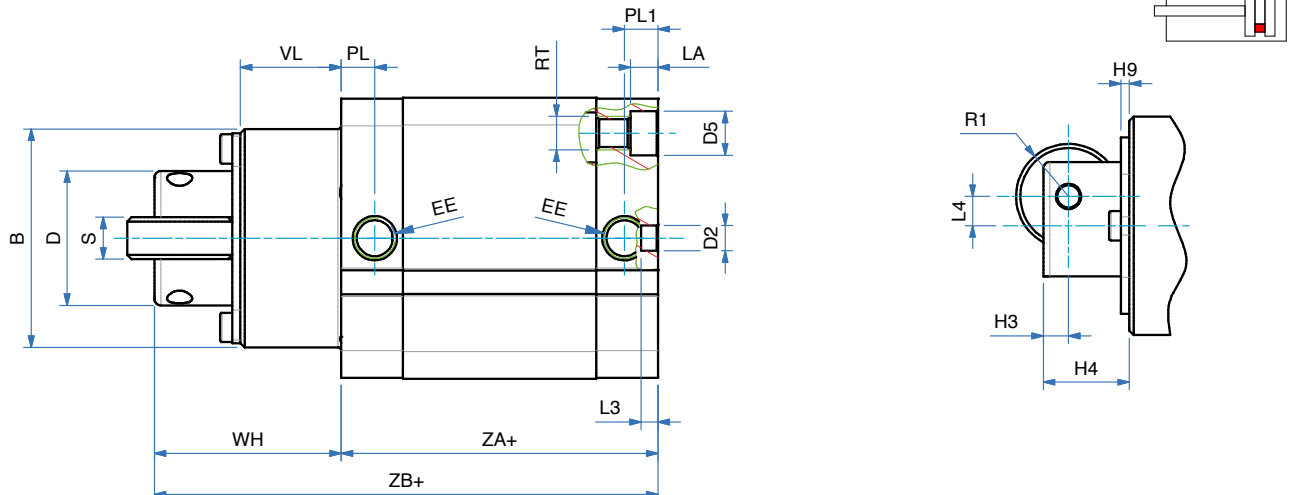
**SINGLE ACTING REAR SPRING WITH ROLLER**



**DOPPIO EFFETTO SENZA MOLLA CON RULLINO**

ASTD1-R

**DOUBLE ACTING WITHOUT SPRING WITH ROLLER**



**STOPPER CYLINDERS**

<b>DIMENSIONI - DIMENSIONS</b>		
<b>Ø</b>	<b>032</b>	<b>050</b>
<b>Ø B</b>	38	52
<b>Ø D</b>	20	32
<b>Ø D2</b>	6	6
<b>Ø D5</b>	9	10,5
<b>E</b>	50	67
<b>EE</b>	G1/8"	G1/8"
<b>F4</b>	4	-
<b>H3</b>	6	6
<b>H4</b>	18	20,5
<b>H4+</b>	18	20,5
<b>H9</b>	2	2
<b>I10</b>	-	12,5
<b>I11</b>	5	10,5
<b>I12</b>	-	2
<b>L3</b>	4	4
<b>L4</b>	3,5	7
<b>LA</b>	5,5	6,5
<b>PL</b>	8	8
<b>PL1</b>	8	8
<b>R1</b>	9	12,5
<b>RT</b>	M6	M8
<b>S</b>	8	10
<b>TG</b>	32	50
<b>VD</b>	16	24
<b>WH</b>	34	44,5
<b>WH+</b>	34	44,5
<b>ZA+</b>	44,5	45,5
<b>ZB+</b>	78,5	90
<b>ZB++</b>	78,5	90

<b>Ø</b>	<b>CORSE STANDARD - STANDARD STROKES</b>
<b>032</b>	20
<b>050</b>	30



SERIE

**M**

**PINZE PNEUMATICHE**  
**PNEUMATIC GRIPPERS**

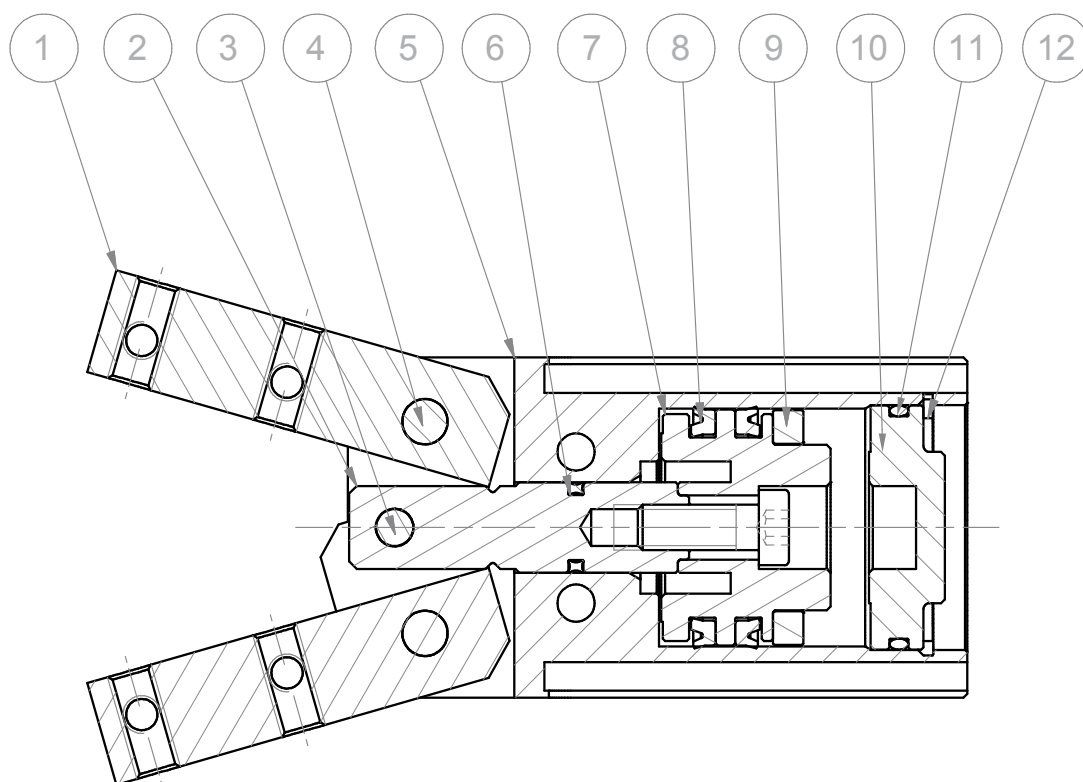
  
**ARTEC**<sup>®</sup>  
PNEUMATIC COMPONENTS

**CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS**

<b>Pressione di esercizio</b> <i>Working pressure</i>	max 10 bar
<b>Temperatura di esercizio</b> <i>Working temperature</i>	0 ÷ +80°C (-20°C con aria secca - <i>with dry air</i> )
<b>Versioni - Versions</b>	semplice effetto, doppio effetto - <i>single acting, double acting</i>
<b>Alesaggi - Bores</b>	∅ 16 - 20 - 32 - 50
<b>Fluido - Fluid</b>	aria compressa filtrata, non lubrificata - <i>compressed filtered, non lubricated air</i>

**CARATTERISTICHE COSTRUTTIVE - CONSTRUCTIVE CHARACTERISTICS**

①	<b>Griffa - Jaw</b>	acciaio temprato - <i>tempered steel</i>
②	<b>Stelo - Rod</b>	acciaio inox AISI 303 - <i>AISI 303 stainless steel</i>
③ ④	<b>Perno - Pin</b>	acciaio temprato - <i>tempered steel</i>
⑤	<b>Corpo - Housing</b>	alluminio anodizzato - <i>anodized aluminium</i>
⑥ ⑧ ⑫	<b>Guarnizioni - Seals</b>	NBR
⑦	<b>Pistone - Piston</b>	alluminio - <i>aluminium</i>
⑨	<b>Magnete - Magnet</b>	plastoferrite - <i>rubber magnet</i>
⑩	<b>Testata - Cover</b>	ottone - <i>brass</i>
⑪	<b>Seeger - Retaining ring</b>	acciaio - <i>steel</i>
	<b>Molla - Spring</b>	acciaio - <i>steel</i>



## CHIAVE DI CODIFICA

### KEY CODE

M 2 0 D E M

#### VERSIONE - VERSION

<b>NA</b>	normalmente aperta - molla posteriore <i>normally open - rear spring</i>
<b>NAM</b>	normalmente aperta magnetica - molla posteriore <i>normally open magnetic - rear spring</i>
<b>NC</b>	normalmente chiusa - molla anteriore <i>normally closed - front spring</i>
<b>NCM</b>	normalmente chiusa magnetica - molla anteriore <i>normally closed magnetic - front spring</i>
<b>DE</b>	doppio effetto <i>double acting</i>
<b>DEM</b>	doppio effetto magnetico <i>double acting magnetic</i>
<b>DEP</b>	doppio effetto con perno posteriore <i>double acting with rear pin</i>

#### ALESAGGIO - BORE (Ø)

016-020-032-050

#### SERIE - SERIES

**M** pinza pneumatica ad apertura angolare  
*pneumatic angular gripper*

## FORZA TEORICA DI BLOCCAGGIO (P=6bar)

### THEORETICAL LOCKING FORCE (P=6bar)

COD.	FORZA DI BLOCCAGGIO [KG] LOCKING FORCE [KG]	PRESSIONE DI ESERCIZIO [BAR] WORKING PRESSURE [BAR]
M16NA - M16NAM	4	2,5 ÷ 10
M16NC - M16NCM	5,2	2,5 ÷ 10
M16DE - M16DEM	5,5 - 6,5	1,5 ÷ 10
M20NA - M20NAM	7,5	2 ÷ 10
M20NC - M20NCM	8,5	2 ÷ 10
M20DE - M20DEM	10,1 - 12,2	1,5 ÷ 10
M32NA - M32NAM	16,5	2 ÷ 10
M32NC - M32NCM	19,5	2 ÷ 10
M32DE - M32DEM	22 - 24	1,5 ÷ 10
M50NAM	46	2 ÷ 10
M50NCM	49	2 ÷ 10
M50DEM	52 - 60	1,5 ÷ 10

La forza di bloccaggio è calcolata alla distanza di 15mm dal fulcro delle griffe; a 30mm per M50.

The locking force is calculated at a distance of 15 mm from the jaws fulcrum; as to M50, the distance is 30mm.

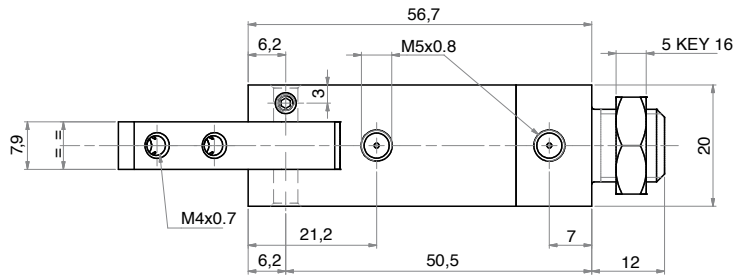
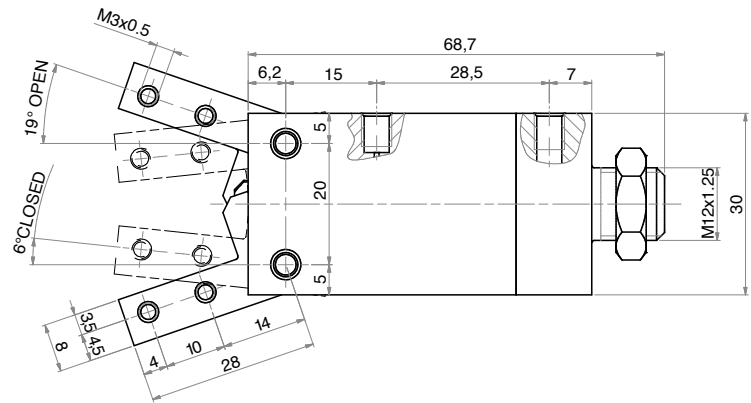
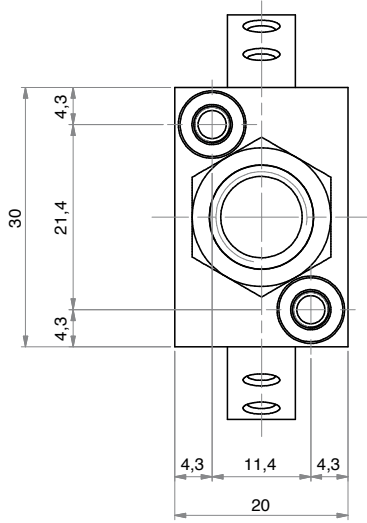
**PINZE PNEUMATICHE**

**M16DE**

**M16NA**

**M16NC**

**PNEUMATIC GRIPPERS**



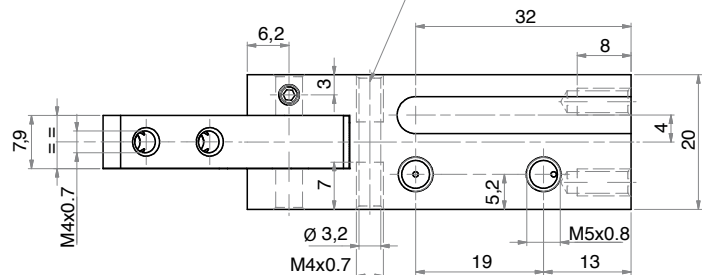
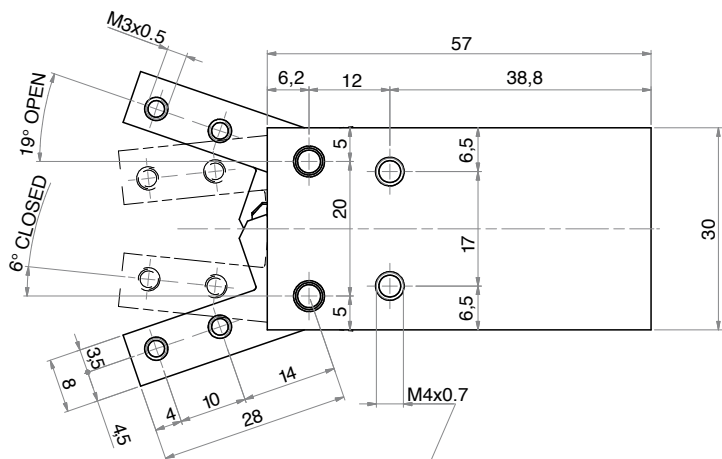
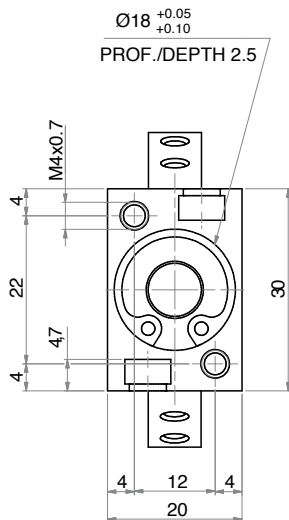
**PINZE PNEUMATICHE**

**M16DEM**

**M16NAM**

**M16NCM**

**PNEUMATIC GRIPPERS**







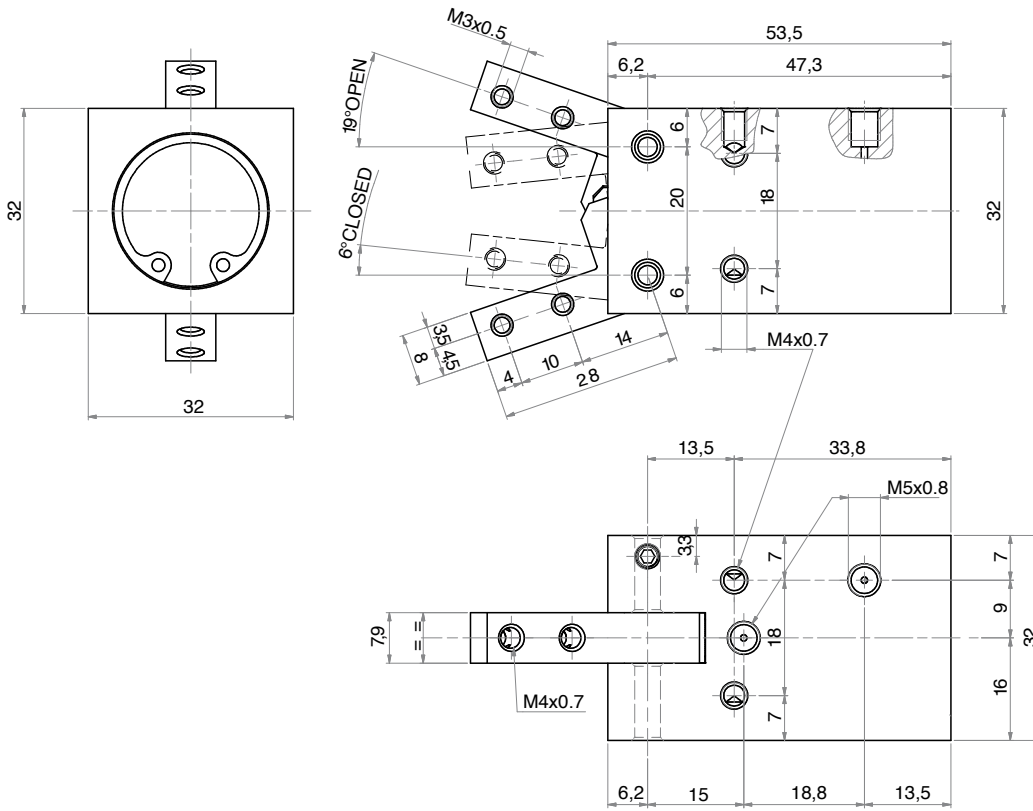
**PINZE PNEUMATICHE**

**M20DE**

**M20NA**

**M20NC**

**PNEUMATIC GRIPPERS**



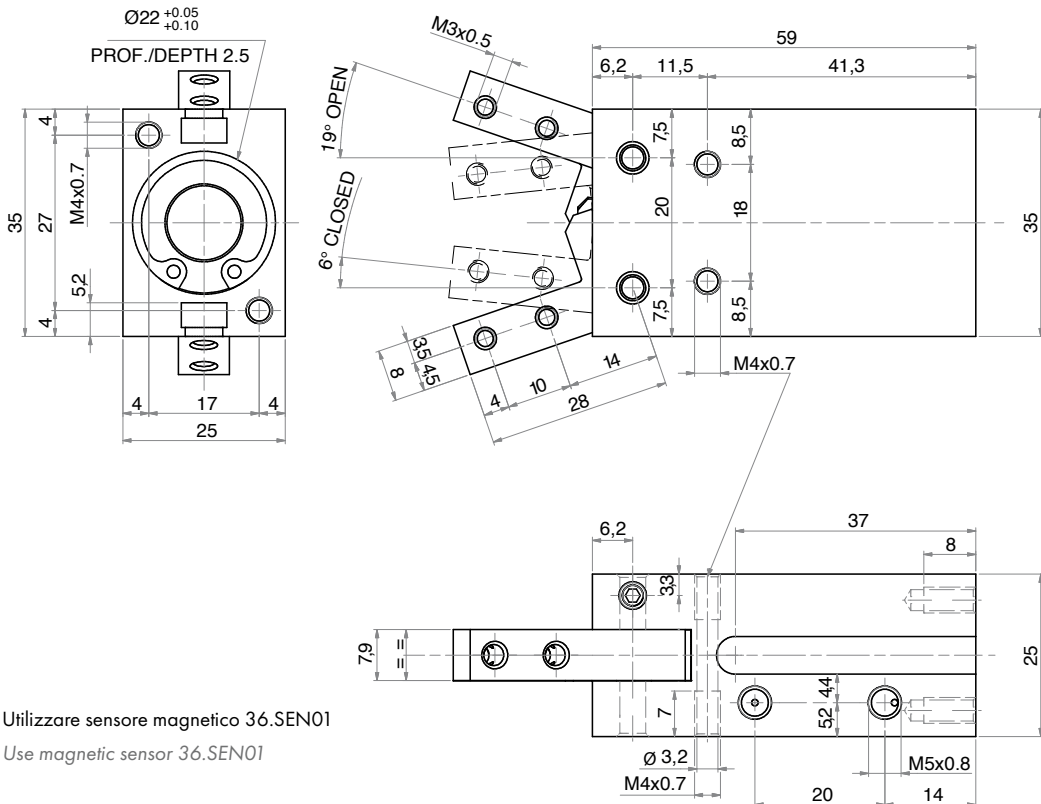
**PINZE PNEUMATICHE**

**M20DEM**

**M20NAM**

**M20NCM**

**PNEUMATIC GRIPPERS**



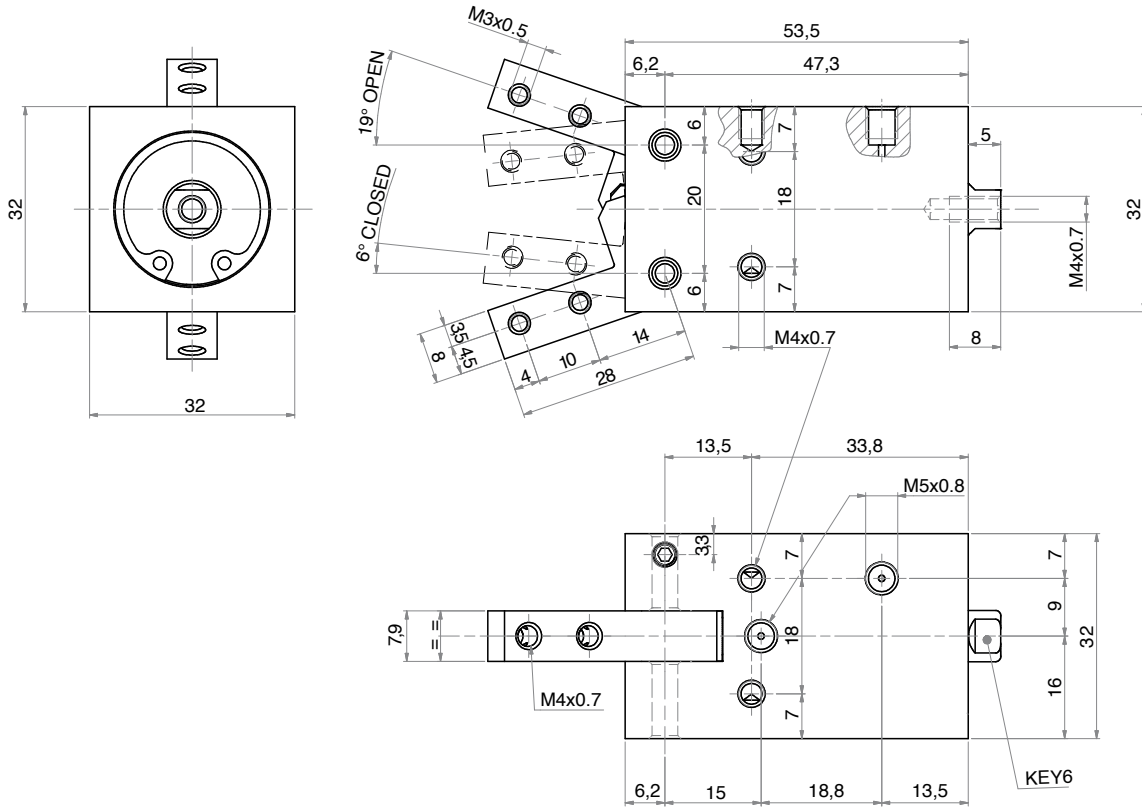
!!!: Utilizzare sensore magnetico 36.SEN01

!!!: Use magnetic sensor 36.SEN01

**PINZE PNEUMATICHE**

**M20DEP**

**PNEUMATIC GRIPPERS**



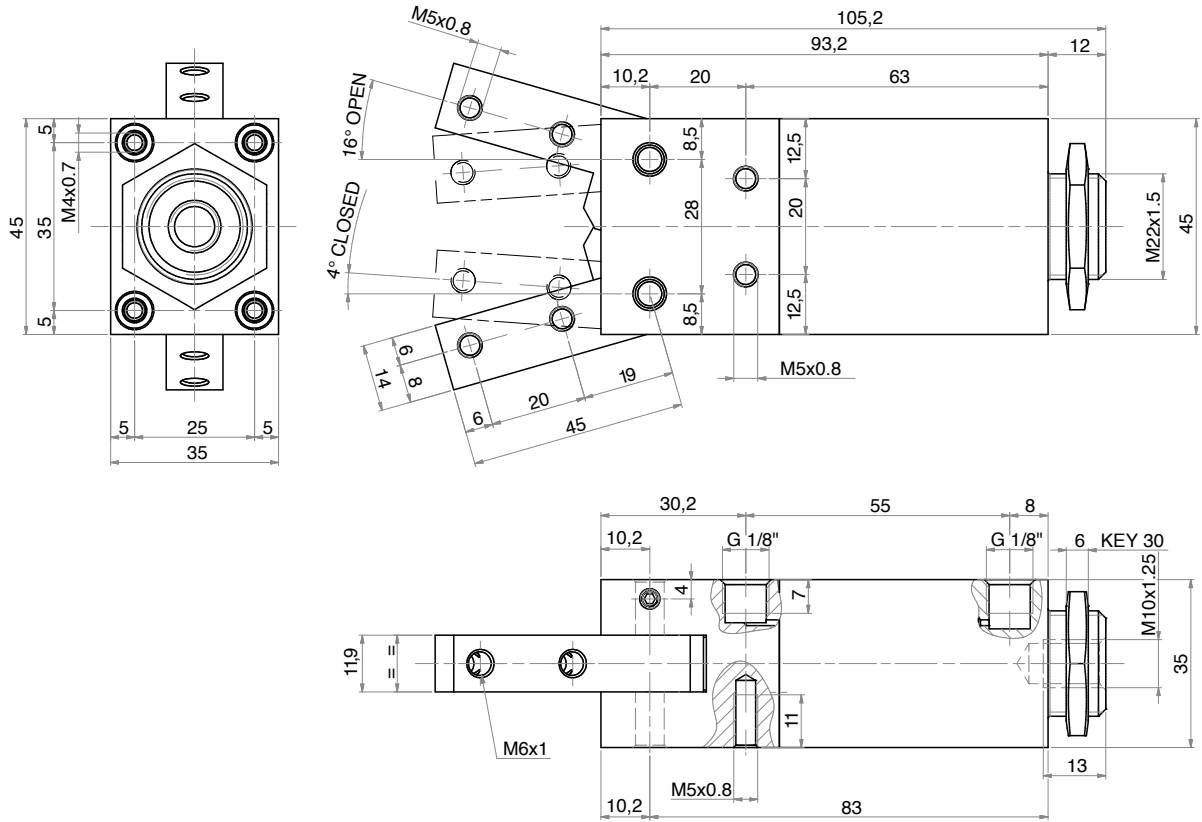
**PINZE PNEUMATICHE**

**M32DE**

**M32NA**

**M32NC**

**PNEUMATIC GRIPPERS**



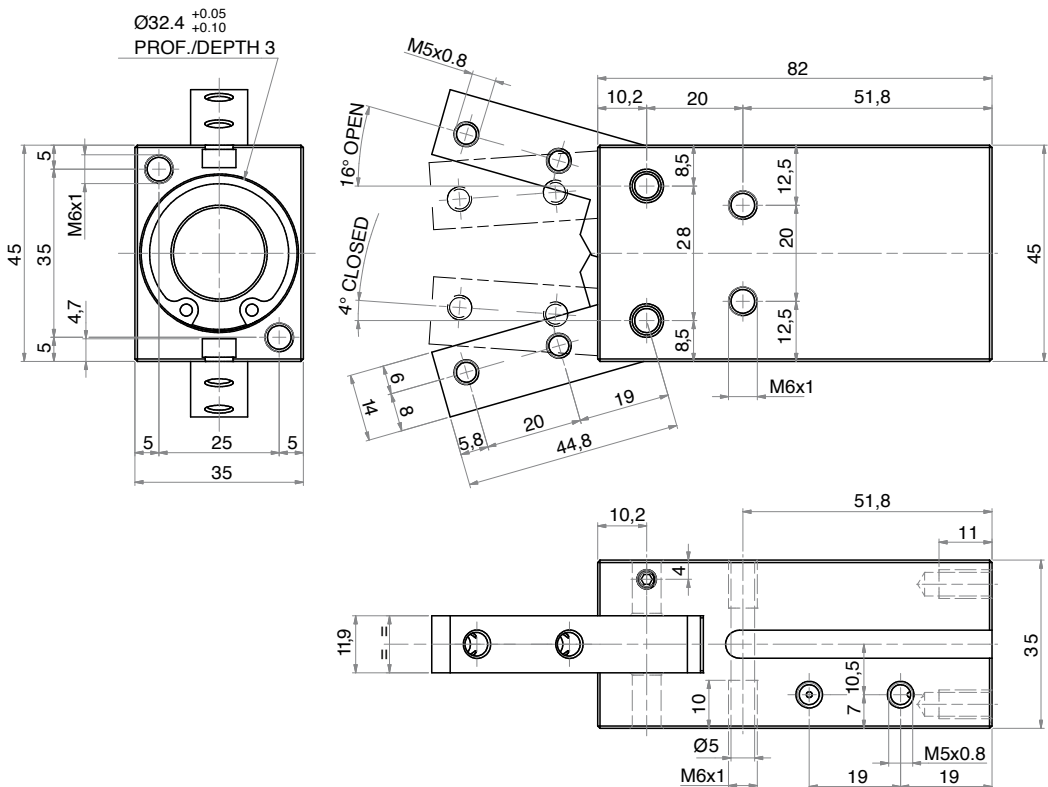
**PINZE PNEUMATICHE**

**M32DEM**

**M32NAM**

**M32NCM**

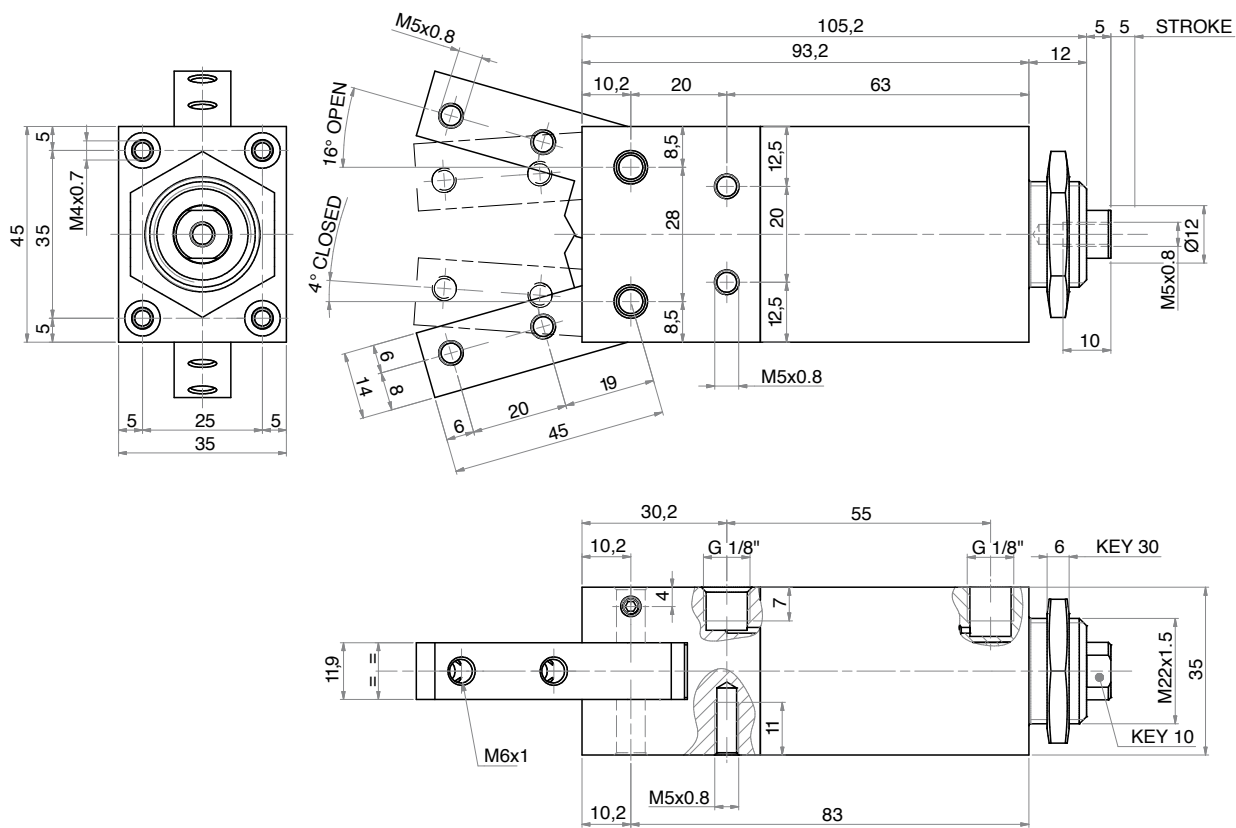
**PNEUMATIC GRIPPERS**



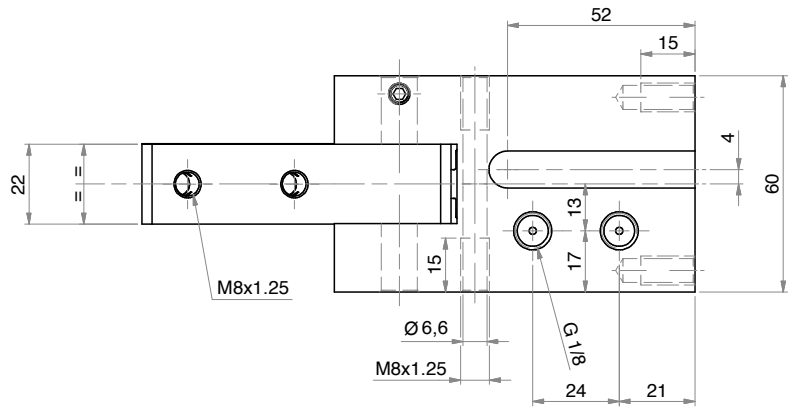
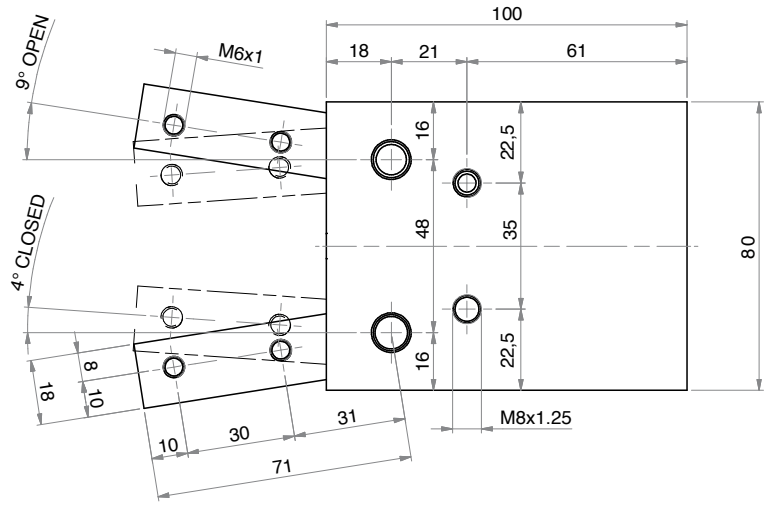
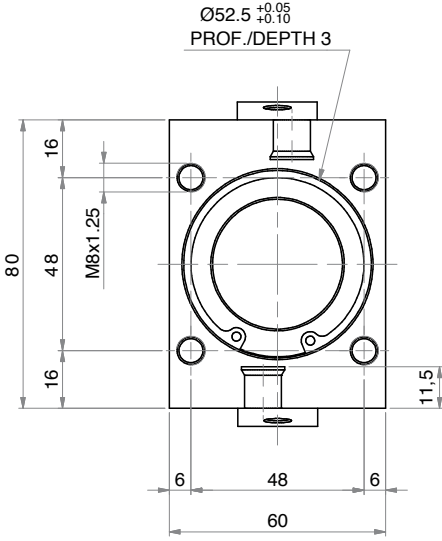
**PINZE PNEUMATICHE**

**M32DEP**

**PNEUMATIC GRIPPERS**



PNEUMATIC GRIPPERS



!!!: Utilizzare sensore magnetico 36.SEN01

!!!: Use magnetic sensor 36.SEN01