SERIE HCG — COMPACT GUIDE PNEUMATIC CYLINDERS / *CILINDRI PNEUMATICI COMPATTI GUIDATI*

- Compact magnetic guided cylinder are available with C45 chromium plated steel rods in the BS version (bronze bushes) or with hardened chromium plated steel rods in the BB version (ball bearing).
- Cylinder bodies are machined in a one-piece anodized aluminium block, suitable for use with foldaway magnetic switches.
- Use of HCG cylinder is particulary recommended where large forces need to be generated in a confined space.

- *I cilindri magnetici compatti guidati vengono forniti con aste guida in acciaio C45 rettificato e cromato, nella versione con boccole guida a strisciamento (serie HCG-BS), e con aste guida in acciaio temprato rettificato e cromato nella versione con cuscinetti a ricircolo di sfere (serie HCG-BB).*
- *I cilindri sono costruiti con corpo unico, molto robusto e preciso, in lega di alluminio anodizzato e predisposti per alloggiamento di sensori magnetici a scomparsa.*
- *Particolarmente adatti ad essere montati dove le esigenze di spazio ed i carichi sono impegnativi.*

HCG □□.□□□ □□

Bore / *Alesaggio (mm)*:
- Ø16 ..... **16**
- Ø20 ..... **20**
- Ø25 ..... **25**
- Ø32 ..... **32**
- Ø40 ..... **40**
- Ø50 ..... **50**
- Ø63 ..... **63**
- Ø80 ..... **80**
- Ø100 .... **100**

Stroke / *Corsa (mm)*:

BS with brass bearing
con bronzine a strisciamento

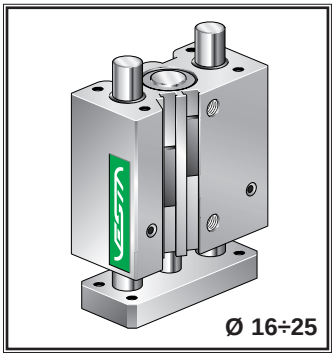
BB with ball bushing
con cuscinetti a ricircolo di sfere

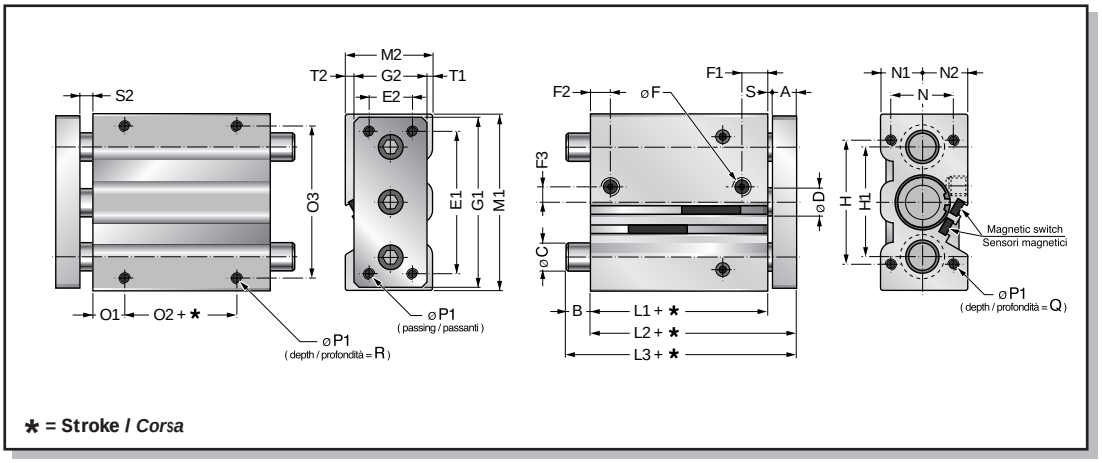
TECHNICAL FEATURES

Cylinder body	Anodized aluminium.
Seals	Rod seal in NBR rubber.
Piston rod	C45 chromium plated steel for BS series, C45 chromium plated hardened steel for BB series.
Environment temperature range	-10 ÷ +70 °C (-20 ÷ +200 °C).
Temperature range of medium	0 ÷ +40 °C (-20 ÷ +200 °C).
Lubrication	Not required.
Medium	Filtered air.
Max operating pressure	10 bar.

CARATTERISTICHE TECNICHE

Corpo cilindro	*Alluminio anodizzato.*
Guarnizioni	*Dello stelo in NBR.*
Stelo	*Acciaio C45 cromato per la serie BS, Acciaio C45 cromato e temprato per la serie BB.*
Temperatura ambiente	*-10 °C ÷ +70 °C (-20 ÷ +200 °C).*
Temperatura fluido	*0 °C ÷ +40 °C (-20 ÷ +200 °C).*
Lubrificazione	*Non necessaria.*
Fluido	*Aria filtrata.*
Pressione max d'esercizio	*10 bar.*

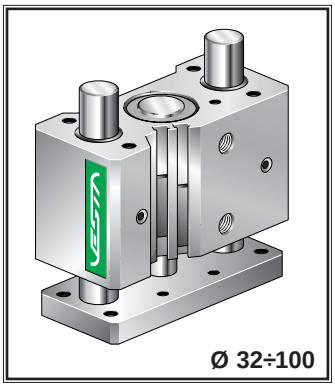


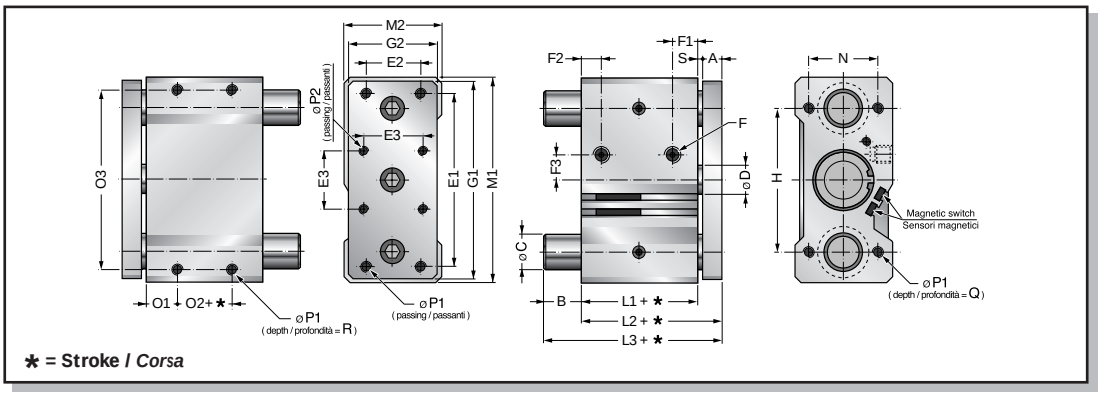


✱ = Stroke / *Corsa*

B 0+50	corsa/*stroke* 75,100	L3 0+50	corsa/*stroke* 75,100
0	26,5	45	-
0	27,5	49	76,5
0	30	49,5	79,5

Ø	A	C	D	E1	E2	F	F1	F2	F3	G1	G2	H	H1	L1	L2	M1	M2	N	N1	N2	O1	O2	O3	P1	Q	R	S	T1	T2
16	10	10	8	52	16	M5	11	8	6	62	25	42	40	33	45	64	33	22	15	18	13	7	54	M5	13	8	2	2,5	5,5
20	10	12	10	60	18	1/8	10,5	8,5	7	72	29	52	46	37	49	74	36	26	17	19	13	10	64	M5	13	8	2	2	4
25	10	16	12	70	26	-	11,5	9	8	86	38	62	56	37,5	49,5	88	42	32	21	21	14	10	76	M6	15	9	2	2	2

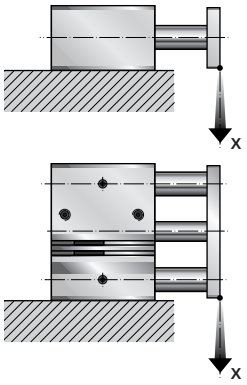




✱ = Stroke / *Corsa*

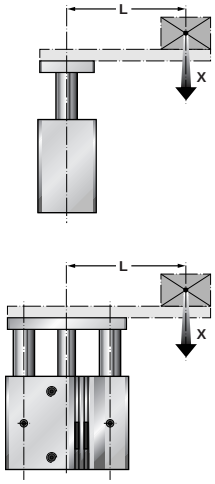
Ø	A	øD	E1	E2	E3	F	F1	F2	F3	G1	G2	H	L1	L2	M1	M2	N	O1	O2	O3	P1	P2	Q	R	S	L3	ØC	B
32	10	16	96	30	32,5	1/8	12,5	9	15	112	48	80	37,5	49,5	114	51	38	16	5	100	M8	M6	20	11	2	73,5	20	24
40	10	16	106	30	38	1/8	14	10	21	122	48	90	44	56	124	51	38	17	10	110	M8	M6	20	11	2	73,5	20	17,5
50	12	20	120	40	46,5	1/4	14	11	27	138	56	100	44	58	140	59	44	17	10	124	M10	M8	25	12,5	2	83	25	25
63	12	20	130	50	56,5	1/4	16,5	13,5	33	148	69	110	49	63	150	72	44	19	10	132	M10	M8	25	15	2	83	25	20
80	16	25	160	60	72	3/8	19	15,5	37	185	88	140	56,5	74,5	188	92	56	21	15	166	M12	M10	30	18	2	93	28	18,5
100	16	30	190	80	89	3/8	23	19	40	221	108	170	66	84	224	112	62	25	15	200	M14	M10	35	21	2	105	36	21

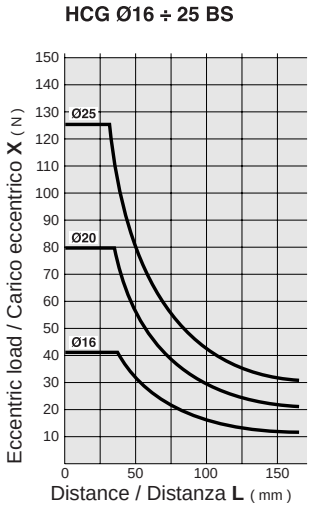
MAX. LATERAL LOAD FOR CYLINDER HCG SERIES [N] / *CARICO LATERALE MASSIMO PER CILINDRI SERIE HCG*

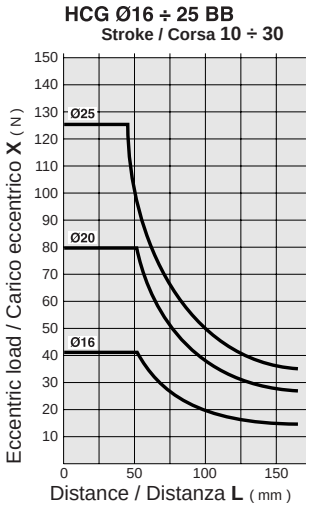


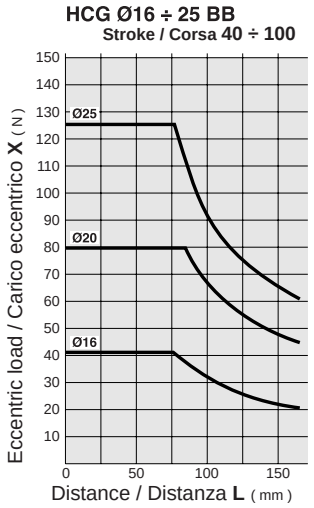
Ø	Modello/Type	10	20	25	30	40	50	75	100
16	HCG 16/... BS	35	29	-	26	23	20	-	-
	HCG 16/... BB	29	31	-	27	38	34	-	-
20	HCG 20/... BS	-	52	-	45	39	35	58	50
	HCG 20/... BB	-	56	-	48	79	70	54	45
25	HCG 25/... BS	-	71	-	61	54	48	78	66
	HCG 25/... BB	-	72	-	62	78	73	60	52
32	HCG 32/... BS	-	-	197	-	-	168	138	109
	HCG 32/... BB	-	-	88	-	-	60	276	217
40	HCG 40/... BS	-	-	197	-	-	168	138	109
	HCG 40/... BB	-	-	89	-	-	60	276	217
50	HCG 50/... BS	-	-	295	-	-	256	216	177
	HCG 50/... BB	-	-	138	-	-	89	393	314
63	HCG 63/... BS	-	-	295	-	-	256	216	177
	HCG 63/... BB	-	-	138	-	-	89	393	314
80	HCG 80/... BS	-	-	354	-	-	305	256	207
	HCG 80/... BB	-	-	236	-	-	158	864	687
100	HCG 100/... BS	-	-	540	-	-	471	412	344
	HCG 100/... BB	-	-	471	-	-	314	1371	1071

LIFTING APPLICATION FOR CYLINDER HCG SERIES / *UTILIZZO CON FUNZIONI DI SOLLEVAMENTO PER CILINDRI HCG*







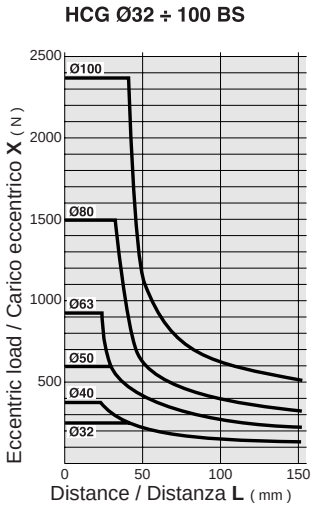


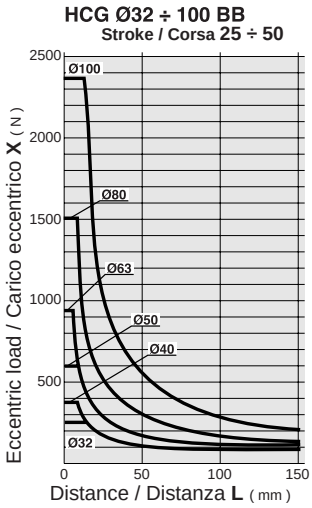
Pressure test 5 bar
Pressione di prova 5 bar

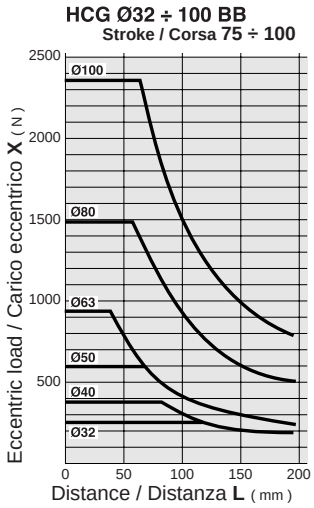
When choosing the cylinder diameter, total loading (**F**) dont be over the theorical thrust force.

Selezionare il diametro del cilindro in modo che il carico (F) non superi la forza di spinta teorica.

Bore *Alesaggio*	Theorical thrust *Forza teorica*
Ø 16	Load / Forza (**F**) < 40% **X**
Ø 20 ÷ 25	Load / Forza (**F**) < 50% **X**
Ø 32 ÷ 100	Load / Forza (**F**) < 60% **X**







MAGNETIC SWITCHES FOR HCG CYLINDER / *FINECORSA MAGNETICI PER CILINDRI HCG*

For magnetic switches features see:
Caratteristiche finecorsa magnetici vedi:
VSCR2, VSPR2, VSCE3, VSPE3. Pag. A-19