Cilindri A95 / *Cylinders A95*

I cilindri A95 realizzati con profilo pulito, lineare e dimensioni d'ingombro contenute sono particolarmente adatti per impieghi in spazi ristretti. Funzionalità e resistenza sono garantite da una particolare operazione di montaggio denominata "a doppia rullatura" con la quale le testate sono unite alla canna.

The cylinders A95 manufactured with a clean, linear profile and reduced overall dimensions are particularly suitable to be used in reduced spaces. By using a special assembling operation called "double rolling" to join the end covers to the barrel, functionality and resistance are ensured.

Caratteristiche Tecniche / *Technical Characteristics*

Pressioni / *Pressures*

Pressione minima / *Minimum pressure:* **1 bar** *(0.1 MPa)*
Pressione massima / *Maximum pressure:* **10 bar** *(1 MPa)*

Funzionamento / *Functioning*

Semplice e doppio effetto ammortizzato Magnetico e non Magnetico, Stelo singolo e passante.
Single and Double-acting cushioned Magnetic and no-Magnetic, Single or through piston rod

Temperature / *Temperatures*

Temperatura minima / *Minimum temperature:* 0 °C
(-20 °C con aria secca / *with dry air*)
Temperatura massima / *Maximum temperature:* +80 °C

Alesaggi / *Bores*

32 - 40 - 50 - 63 mm.

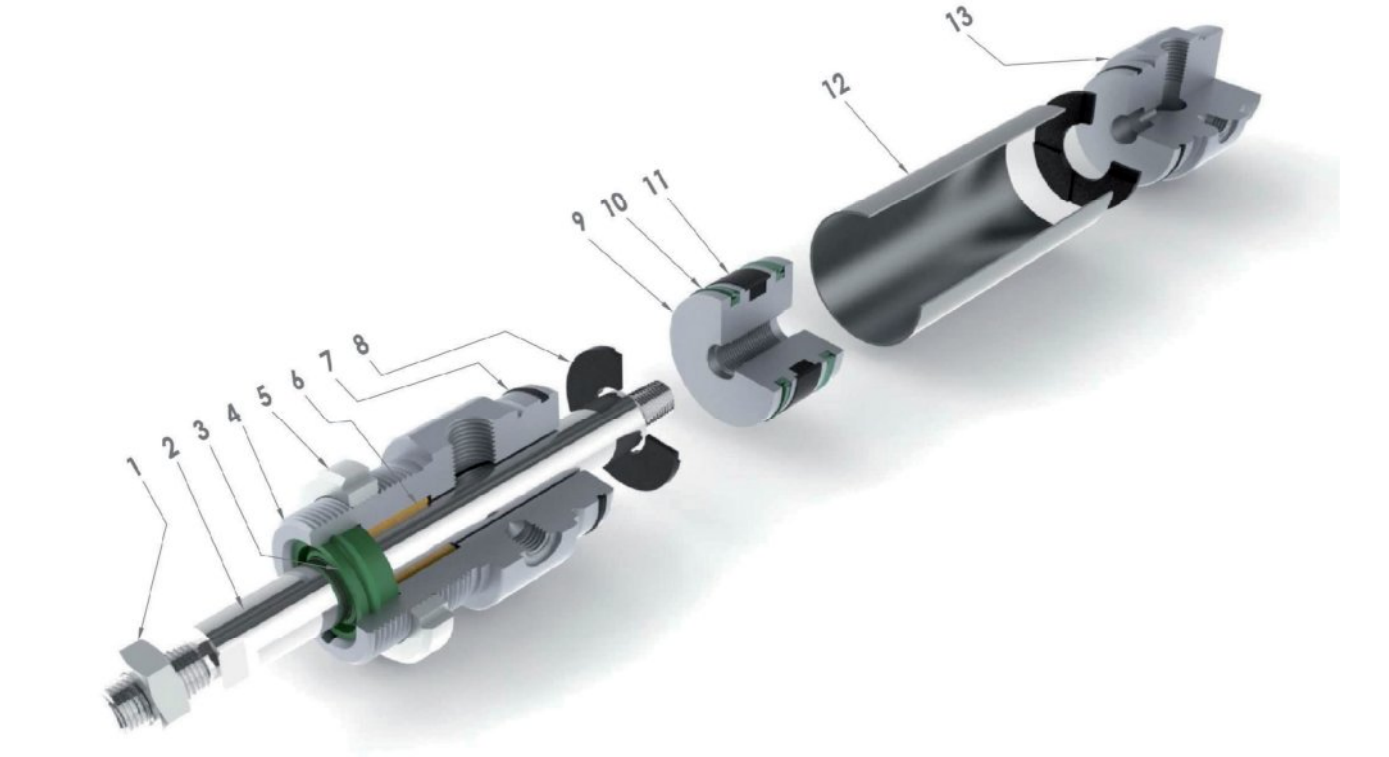
Fluidi compatibili / *Fluids*

Aria compressa filtrata e lubrificata e non lubrificata.
Filtered and lubricated compressed air as well as non lubricated air.

Corse / *Strokes*

Corse Standard / *Standard Strokes*
Da 10 a 500 mm / *From 10 to 500 mm*

Caratteristiche Tecniche / *Technical Characteristics*



Materiali e Componenti / *Component Parts and Materials*

1	**Dado in acciaio zincato**	1	*Zinc-plated steel Nut*
2	**Asta pistone acciaio C40 cromato**	2	*Chrome steel C40 Piston rod*
3	**Guarnizione asta in poliuretano**	3	*Polyurethane Rod seal*
4	**Testata anteriore in alluminio anodizzato**	4	*Anodised aluminium Front cover*
5	**Ghiera testata in acciaio zincato**	5	*Zinc-plated steel Nut*
6	**Bronzina in bronzo sinterizzato**	6	*Sintered bronze Bearing*
7	**Guarnizioni O-RING in NBR**	7	*NBR O-RING Seals*
8	**Paracolpi in neoprene**	8	*Neoprene Bumper*
9	**Pistone in alluminio anodizzato**	9	*Anodised aluminium Piston*
10	**Guarnizione pistone in poliuretano**	10	*Polyurethane Piston Seal*
11	**Magnete in plastoferrite**	11	*Plastoferrite Magnet*
12	**Camicia cilindro in acciaio AISI 304**	12	*Steel AISI 304 Cylinder shape body*
13	**Testata posteriore in alluminio anodizzato**	13	*Anodised aluminium Back cover*

Forze e Consumi / *Forces And Consumptions*

FORZE DI SPINTA E TIRO - *THRUST AND TRACTION FORCES*

Ø Cilindro / Ø Cylinder	Ø Stelo / Ø Rod	Superficie utile in mm2 / Working Surface in mm2	Pressione di lavoro in bar / Operating pressure in bar									
			1	2	3	4	5	6	7	8	9	10
			Forza sviluppata in N / Output force in N									
Ø32	12	Spinta / Thrust = 804	72	144	216	288	360	432	504	576	648	720
		Trazione / Traction = 691	62	124	186	248	310	372	434	496	558	620
Ø40	16	Spinta / Thrust = 1257	110	220	330	440	550	660	770	880	990	1100
		Trazione / Traction = 1056	95	190	285	380	475	570	665	760	855	950
Ø50	20	Spinta / Thrust = 1963	175	350	525	700	875	1050	1225	1400	1575	1750
		Trazione / Traction = 1649	148	296	444	592	740	888	1036	1184	1332	1480
Ø63	20	Spinta / Thrust = 3117	280	560	840	1120	1400	1680	1960	2240	2520	2800
		Trazione / Traction = 2803	250	500	750	1000	1250	1500	1750	2000	2250	2500

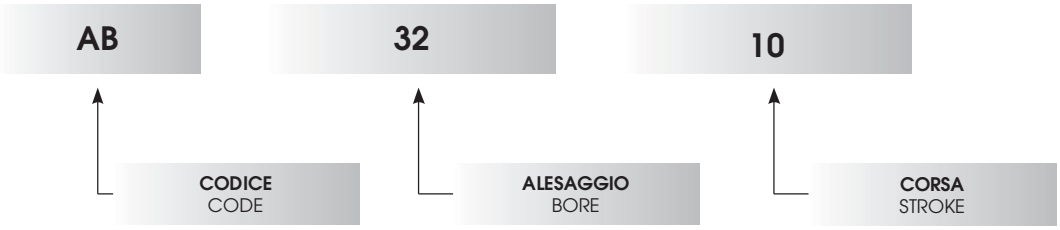
FORZE DELLA MOLLA - *SPRING TRACTION FORCES*

Ø Cilindri / Ø Cylinder	Carico Molla / Load Spring	Corsa / Stroke 10	25	50
		Forza sviluppata in N / Output force in N		
Ø32	Carico Molla a Riposo / Load of spring at rest	56	51	42
	Carico Molla Compressa / Load of compressed spring	60	60	60
Ø40	Carico Molla a Riposo / Load of spring at rest	60	55	44
	Carico Molla Compressa / Load of compressed spring	65	65	65
Ø50	Carico Molla a Riposo / Load of spring at rest	64	57	46
	Carico Molla Compressa / Load of compressed spring	68	68	68
Ø63	Carico Molla a Riposo / Load of spring at rest	65	58	47
	Carico Molla Compressa / Load of compressed spring	70	70	70

CONSUMI CILINDRO - CYLINDER AIR CONSUMPTION

Ø Cilindro / Ø Cylinder	Ø Stelo / Ø Rod	Superficie utile in mm2 / Working Surface in mm2	Pressione di lavoro in bar / Operating pressure in bar 1	2	3	4	5	6	7	8	9	10
			Consumo aria in NL per ogni 10mm. di corsa / Air consumption in NL for each 10mm. of stroke									
Ø32	12	Spinta / Thrust = 804	0,016	0,024	0,032	0,040	0,048	0,056	0,064	0,072	0,080	0,088
		Trazione / Traction = 691	0,014	0,021	0,028	0,035	0,041	0,048	0,055	0,062	0,069	0,076
Ø40	16	Spinta / Thrust = 1257	0,025	0,038	0,050	0,063	0,075	0,088	0,101	0,113	0,126	0,138
		Trazione / Traction = 1056	0,021	0,032	0,042	0,053	0,063	0,074	0,084	0,095	0,106	0,116
Ø50	20	Spinta / Thrust = 1963	0,039	0,059	0,079	0,098	0,118	0,137	0,157	0,177	0,196	0,216
		Trazione / Traction = 1649	0,033	0,049	0,066	0,082	0,099	0,115	0,132	0,148	0,165	0,181
Ø63	20	Spinta / Thrust = 3117	0,062	0,094	0,125	0,156	0,187	0,218	0,249	0,281	0,312	0,343
		Trazione / Traction = 2803	0,056	0,084	0,112	0,140	0,168	0,196	0,224	0,252	0,280	0,308

Esempio D'ordine / *How to Order*



CORSE STANDARD mm. - *STD STROKES*

Ø mm.	10	25	50	80	100	125	160	200	250	320	400	500
32	▲■●	▲■♦●	▲■♦●	♦●	♦●	♦●	♦●	♦●	♦●	♦●	♦●	♦●
40	▲■●	▲■♦●	▲■♦●	♦●	♦●	♦●	♦●	♦●	♦●	♦●	♦●	♦●
50	▲■●	▲■♦●	▲■♦●	♦●	♦●	♦●	♦●	♦●	♦●	♦●	♦●	♦●
63	▲■●	▲■♦●	▲■♦●	♦●	♦●	♦●	♦●	♦●	♦●	♦●	♦●	♦●

▲ AB **SEMPLICE EFFETTO MAGNETICO** - *SINGLE-ACTING MAGNETIC*

■ AD **SEMPLICE EFFETTO MAGNETICO - MOLLA IN SPINTA** - *SINGLE-ACTING MAGNETIC - SPRINGTHRUST*

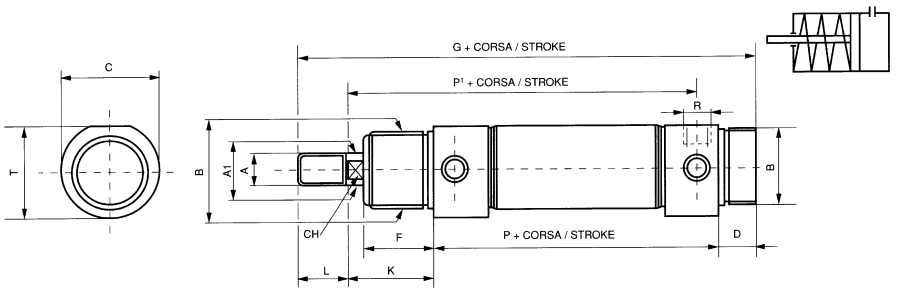
● AF **DOPPIO EFFETTO MAGNETICO** - *DOUBLE ACTING MAGNETIC*

♦ AH **DOPPIO EFFETTO AMMORTIZZATO MAGNETICO** - *DOUBLE ACTING CUSHIONED MAGNETIC*

● AJ **DOPPIO EFFETTO STELO PASSANTE MAGNETICO** - *DOUBLE ACTING MAGNETIC WITH DOUBLE ROD END*

♦ AL **DOPPIO EFFETTO STELO PASSANTE AMMORTIZZATO MAGNETICO**
DOUBLE ACTING CUSHIONED MAGNETIC WITH DOUBLE ROD END

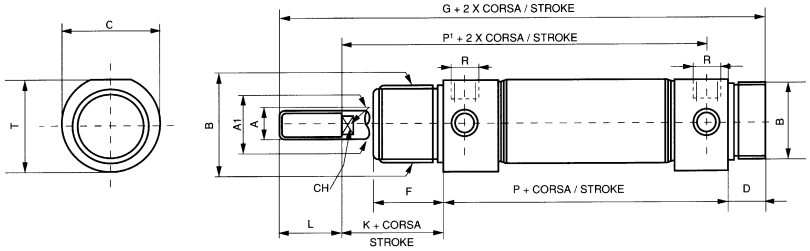
AGGIORNAMENTO: 11 APRILE 2012
UPDATE: APRIL 11, 2012

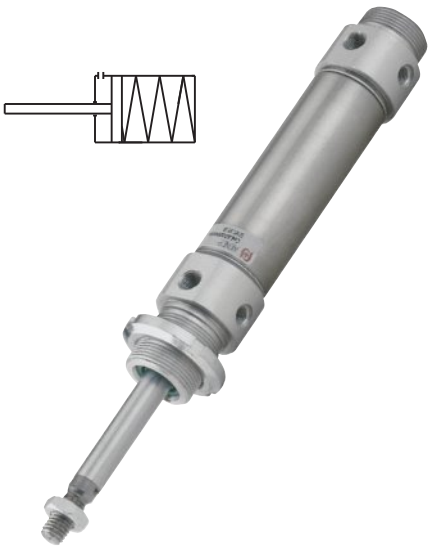


AB

Semplice Effetto Magnetico - *SINGLE-ACTING MAGNETIC*

Ø mm.	A	A¹	B	T	C	D	F	G	K	L	P	P¹	CH	R
32	M10x1.25	12	M30x1.5	36.5	38	14	30	168	38	20	96	125	10	1/8" GAS
40	M12x1.25	16	M38x1.5	44	46	16	35	196	45	24	111	144	12	1/4" GAS
50	M16x1.5	20	M45x1.5	55	57	18	38	220	50	32	120	158	16	1/4" GAS
63	M16x1.5	20	M45x1.5	67.5	70	18	38	224	50	32	124	161	16	3/8" GAS

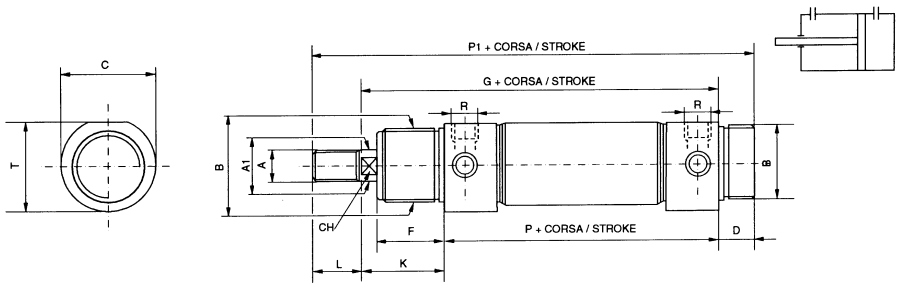




AD

Semplice Effetto Magnetico - Molla in Spinta - *SINGLE-ACTING MAGNETIC - SPRINGTHRUST*

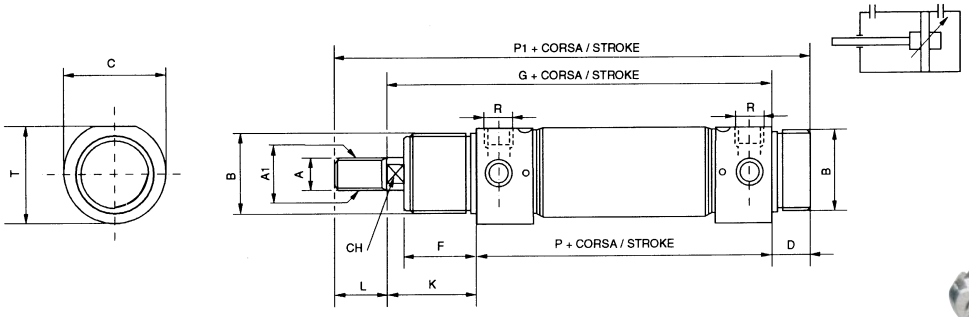
Ø mm.	A	A¹	B	T	C	D	F	G	K	L	P	P¹	CH	R
32	M10x1.25	12	M30x1.5	36.5	38	14	30	168	38	20	96	125	10	1/8"GAS
40	M12x1.25	16	M38x1.5	44	46	16	35	196	45	24	111	144	12	1/4"GAS
50	M16x1.5	20	M45x1.5	55	57	18	38	220	50	32	120	158	16	1/4"GAS
63	M16x1.5	20	M45x1.5	67.5	70	18	38	224	50	32	124	161	16	3/8"GAS



AF

Doppio Effetto Magnetico - *DOUBLE ACTING MAGNETIC*

Ø mm.	A	A[1]	B	T	C	D	F	G	K	L	P	P1	CH	R
32	M10x1.25	12	M30x1.5	36.5	38	14	30	134	38	20	96	168	10	1/8"GAS
40	M12x1.25	16	M38x1.5	44	46	16	35	156	45	24	111	196	12	1/4"GAS
50	M16x1.5	20	M45x1.5	55	57	18	38	170	50	32	120	220	16	1/4"GAS
63	M16x1.5	20	M45x1.5	67.5	70	18	38	174	50	32	124	224	16	3/8"GAS

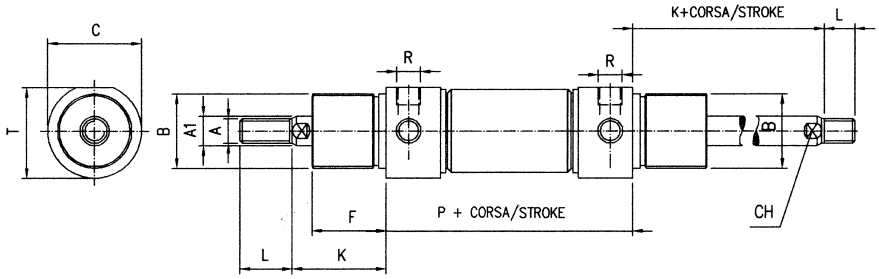


AH

Doppio Effetto Ammortizzato Magnetico - *DOUBLE ACTING CUSHIONED MAGNETIC*

Ø mm.	A	A[1]	B	T	C	D	F	G	K	L	P	P1	CH	R
32	M10x1.25	12	M30x1.5	36.5	38	14	30	134	38	20	96	168	10	1/8"GAS
40	M12x1.25	16	M38x1.5	44	46	16	35	156	45	24	111	196	12	1/4"GAS
50	M16x1.5	20	M45x1.5	55	57	18	38	170	50	32	120	220	16	1/4"GAS
63	M16x1.5	20	M45x1.5	67.5	70	18	38	174	50	32	124	224	16	3/8"GAS

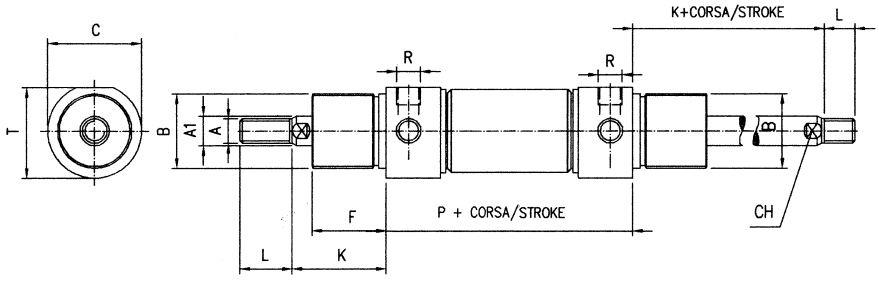
AGGIORNAMENTO: 1 APRILE 2012
UPDATE: APRIL 1st 2012



AJ

Doppio Effetto Stelo Passante Magnetico - *DOUBLE ACTING MAGNETIC WITH DOUBLE ROD END*

Ø mm.	A	A¹	B	T	C	F	K	L	P	CH	R
32	M10x1.25	12	M30x1.5	36.5	38	30	38	20	96	10	1/8G
40	M12x1.25	16	M38x1.5	44	46	35	45	24	111	12	1/4G
50	M16x1.5	20	M45x1.5	55	57	38	50	32	120	16	1/4G
63	M16x1.5	20	M45x1.5	67.5	70	38	50	32	124	16	3/8G

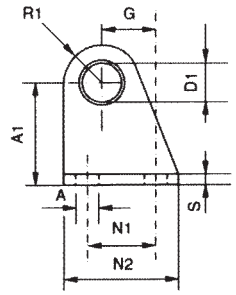


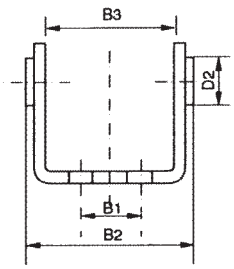
AL

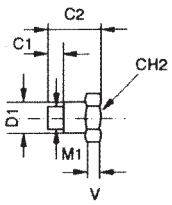
Doppio Effetto Stelo Passante Ammortizzato Magnetico - *DOUBLE ACTING CUSHIONED MAGNETIC WITH DOUBLE ROD END*

Ø mm.	A	A¹	B	T	C	F	K	L	P	CH	R
32	M10x1.25	12	M30x1.5	36.5	38	30	38	20	96	10	1/8G
40	M12x1.25	16	M38x1.5	44	46	35	45	24	111	12	1/4G
50	M16x1.5	20	M45x1.5	55	57	38	50	32	120	16	1/4G
63	M16x1.5	20	M45x1.5	67.5	70	38	50	32	124	16	3/8G

Componenti di fissaggio / *Mounting Accessories*



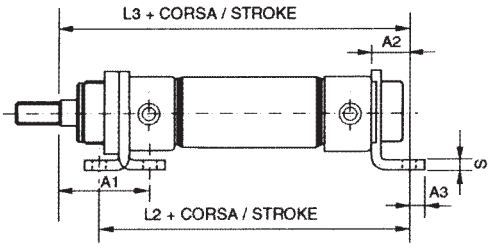


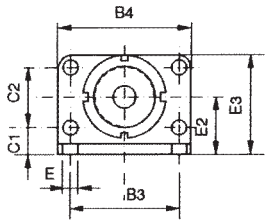


ACC

KIT CERNIERA CON VITI DI SERRAGGIO - *CLEVIS BRACKET*

Ø mm.	D1	D2	A	A1	G	M1	N1	N2	R1	S	CH2	B1	B2	B3	V	C1	C2
32	10	16	7	35	20	M8x1	24	40	12	4	13	20	50.1	38.1	4	6	18
40	12	18	9	40	27	M10x1	30	50	13	5	17	28	60.1	46.1	5	7	21.6
50	14	23	9	45	30	M12x1.5	34	54	14	6	19	36	74.1	57.1	6	9	26.4
63	16	24	9	50	34	M14x1.5	35	65	16	6	19	42	88.1	70.1	6	15	34

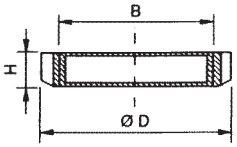




APD

PIEDINO FLANGIA - *FOOT FLANGE*

Ø mm.	E	E2	E3	C1	C2	L2	L3	B3	B4	S	A1	A2	A3
32	7	28	49	14	28	124	148	52	66	4	48	14	7
40	9	33	58	18	30	151	176	60	80	5	60	20	10
50	9	40	70	20	40	160	190	70	90	6	64	20	10
63	9	45	80	20	50	164	194	76	96	6	65	20	10

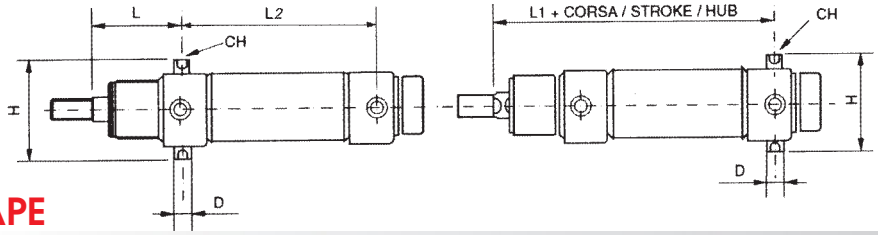


AGT

GHIERA - *NUT*

Ø mm.	B	D	H
32	M30x1.5	45	7
40	M38x1.5	50	8
50 - 63	M45x1.5	58	9

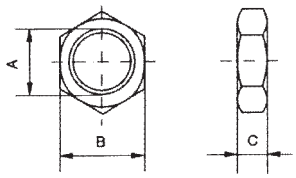
AGGIORNAMENTO: 11 APRILE 2012
UPDATE: APRIL 2012



APE

FISSAGGIO CON 2 PERNI - *PIVOT*

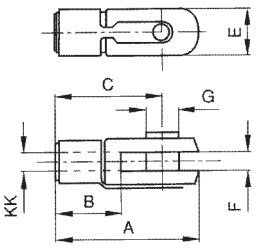
Ø mm.	D	H	L1	L2	L	CH
32	10	51	125	78	47	5
40	12	61	144	87	57	6
50	14	75	158	96	62	6
63	16	90	161	98	63	8



DA

DADO PER STELI - *NUT FOR RODS*

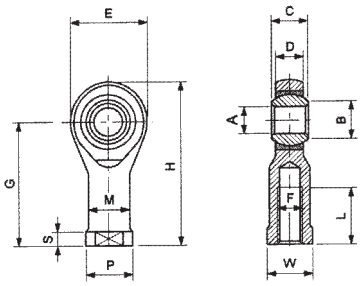
Cod.	Ø mm.	A	B	C
0DA000051C9ZI	32	M10x1.25	17	8
0DA000051D5ZI	40	M12x1.25	19	7
0DA000051E3ZI	50 - 63	M16x1.5	22	6



FC

FORCELLA CON CLIPS IN ACCIAIO ZINCATO - *YOKE WITH LOCABLE PIN*

Ø mm.	A	B	C	E	F	G	KK
25 - 32	52	20	40	20	10	10	M10x1.25
40	62	24	48	24	12	12	M12x1.25
50-63	83	32	64	32	16	16	M16x1.5



TF

TESTE DI BIELLA AUTOLUBRIFICANTI - *ROD ENDS SELF-LUBRIFICATING*

ø mm.	A	B	C	Ø	D	E	F	G	H	L	M	P	S	W	Carico radiale Dinamico	Carico radiale Statico	Peso
	H7	0	0 -0,13	SFERA	±0,13	±0,5		±0,5		±0,7	±0,7	±0,5	+0,2 -0,7	±0,25	kg	kg	g
25 - 32	10	12,9	14	19,05	11,5	30	M10x1.25	43	58	15	15	19	6,5	16	1.200	3.100	88
40	12	15,4	16	22,23	12,5	34	M12x1.25	50	67	18	17,5	22	6,5	18	1.400	3.700	120
50-63	16	19,3	21	28,58	15,5	42	M16x1.5	64	85	24	22	27	8	24	2.500	6.300	240

AGGIORNAMENTO: 11 APRILE 2012
UPDATED APRIL 11, 2012