



TECHNICAL CHARACTERISTICS



Reference Standard

II 2 GD h T6 -20°C<Tamb<80°C



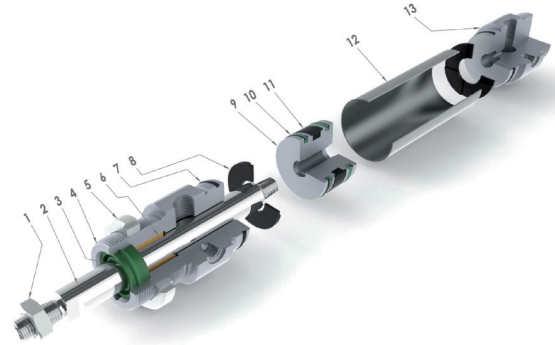
1907/2006

REACH

2011/65/CE

RoHS

SILICON FREE



Pressures

1 bar (0.1 MPa)
÷ 10 bar (1 MPa)



Temperature

0 °C (-20 °C con aria secca)
÷ + 80 °C



Fluids

Filtered and lubricated compressed air as well as non lubricated air.



Bores

32 - 40 - 50 - 63 mm



Standard Strokes

corse da 10 a 500 mm



Sensors recommended

DSL with AFX bracket



Functioning

Single acting magnetic (non-magnetic upon request).
Double acting, magnetic (non-magnetic upon request), single or double end rod, cushioned or non-cushioned.



Materiali e componenti

1. Zinc-plated steel Nut
2. Chrome steel C40 Piston rod
3. Polyurethane Rod seal
4. Anodised aluminium Front cover
5. Zinc-plated steel Nut
6. Sintered bronze Bearing
7. NBR O-RING Seals
8. Neoprene Bumper
9. Anodised aluminium Piston
10. Polyurethane Piston Seal
11. Bonded ferrite Magnet
12. Steel AISI 304 Cylinder shape body
13. Anodised aluminium Back cover



Series

Ø mm

Stroke

A B

0 3 2

0 0 2 5

- ▲ AB Single-Acting Magnetic
- ▲ AD Single-Acting Magnetic - Spring Thrust
- AF Double Acting Magnetic
- ◆ AH Double Acting Cushioned Magnetic
- AJ Double Acting Magnetic With Double Rod End
- ◆ AL Double Acting Cushioned Magnetic With Double Rod End

032
040
050
063

0010 0160
0025 0200
0050 0250
0080 0320
0100 0400
0125 0500

Ø (mm)	10	25	50	80	100	Stroke (mm)		125	160	200	250	320	400	500
32	▲●	▲◆	▲◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
40	▲●	▲◆	▲◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
50	▲●	▲◆	▲◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
63	▲●	▲◆	▲◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆

Intermediate or higher strokes are available upon request.

THRUST AND TRACTION FORCES														
Cylinder	Rod	Effective area		Working pressure										
Ø	Ø	mm²		bar										
				1	2	3	4	5	6	7	8	9	10	
Developed force														
32	12	S	=	804	72	144	216	288	360	432	504	576	648	720
		T	=	691	62	124	186	248	310	372	434	496	558	620
40	16	S	=	1257	110	220	330	440	550	660	770	880	990	1100
		T	=	1056	95	190	285	380	475	570	665	760	855	950
50	20	S	=	1963	175	350	525	700	875	1050	1225	1400	1575	1750
		T	=	1649	148	296	444	592	740	888	1036	1184	1332	1480
63	20	S	=	3117	280	560	840	1120	1400	1680	1960	2240	2520	2800
		T	=	2803	250	500	750	1000	1250	1500	1750	2000	2250	2500

S Thrust; T Traction

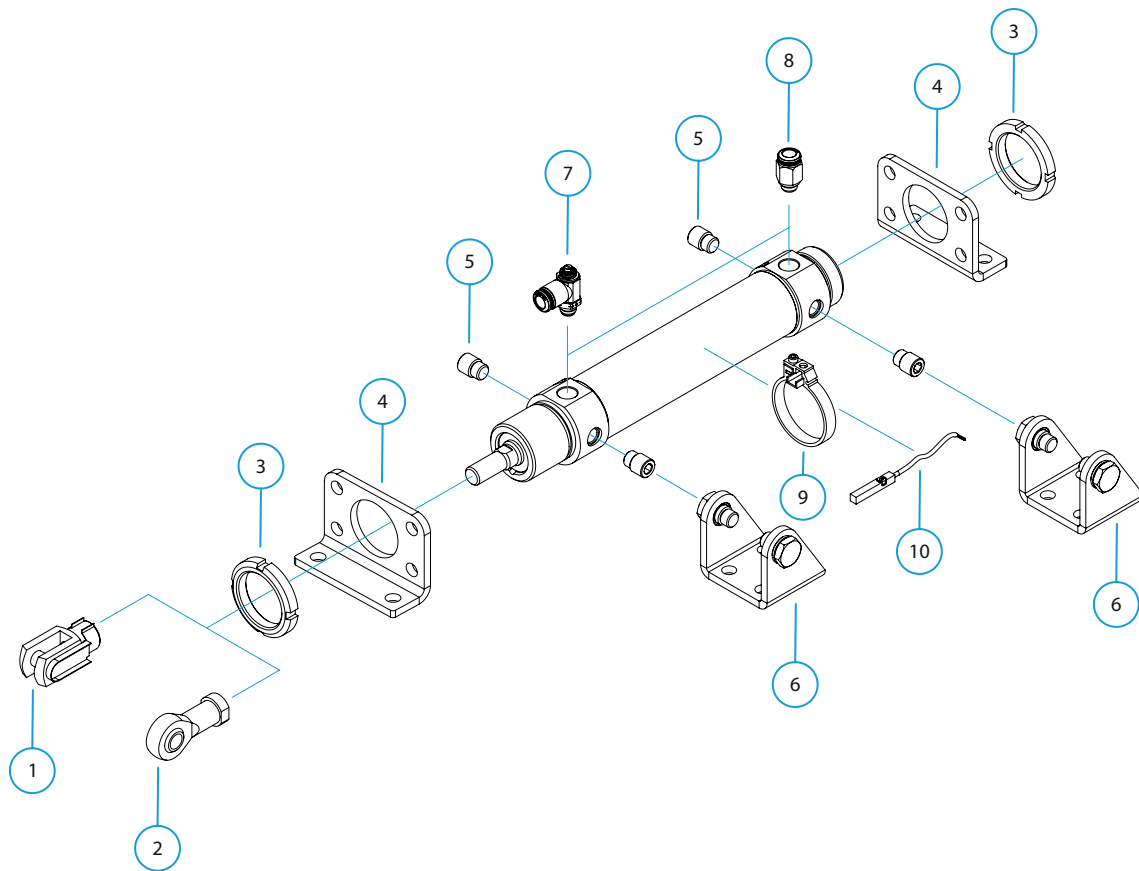
SPRING TRACTION FORCES				
Cylinder	Load spring	Stroke		
Ø		10	25	50
Developed force				
32	R	56	51	42
	C	60	60	60
40	R	60	55	44
	C	65	65	65
50	R	64	57	46
	C	68	68	68
63	R	65	58	47
	C	70	70	70

R Spring load at rest; C Compressed spring load

CYLINDER AIR CONSUMPTION														
Cylinder	Rod	Effective area			Working pressure									
Ø	Ø	mm²			bar									
					1	2	3	4	5	6	7	8	9	10
Air consumption per 10 mm of stroke														
32	12	S	=	804	0,016	0,024	0,032	0,040	0,048	0,056	0,064	0,072	0,080	0,088
		T	=	691	0,014	0,021	0,028	0,035	0,041	0,048	0,055	0,062	0,069	0,076
40	16	S	=	1257	0,025	0,038	0,050	0,063	0,075	0,088	0,101	0,113	0,126	0,138
		T	=	1056	0,021	0,032	0,042	0,053	0,063	0,074	0,084	0,095	0,106	0,116
50	20	S	=	1963	0,039	0,059	0,079	0,098	0,118	0,137	0,157	0,177	0,196	0,216
		T	=	1649	0,033	0,049	0,066	0,082	0,099	0,115	0,132	0,148	0,165	0,181
63	20	S	=	3117	0,062	0,094	0,125	0,156	0,187	0,218	0,249	0,281	0,312	0,343
		T	=	2803	0,056	0,084	0,112	0,140	0,168	0,196	0,224	0,252	0,280	0,308

S Thrust; T Traction

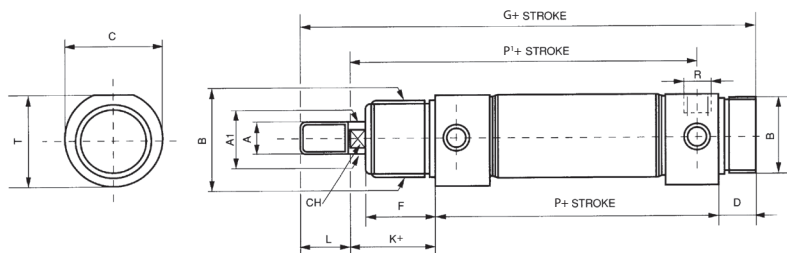
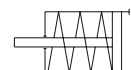
FIXING ELEMENTS AND ACCESSORIES



1	YOKE WITH LOCABLE PIN - STEEL - FC
2	ROD ENDS SELF-LUBRICATING - TF
3	NUT - AGT
4	FOOT FLANGE - APD
5	PIVOT - APE
6	CLEVIS BRACKET - ACC
7	FLOW REGULATOR
8	AUTOMATIC CONNECTOR
9	BRACKET FOR DSL - AFX
10	MAGNETIC SWITCHES - DSL

AB

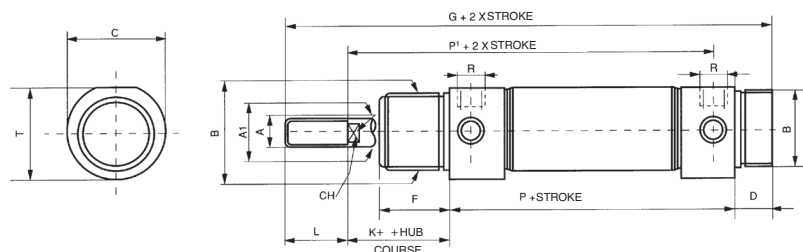
SINGLE-ACTING MAGNETIC



Ø	A	A1	B	T	C	D	F	G	K	L	P	P'	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

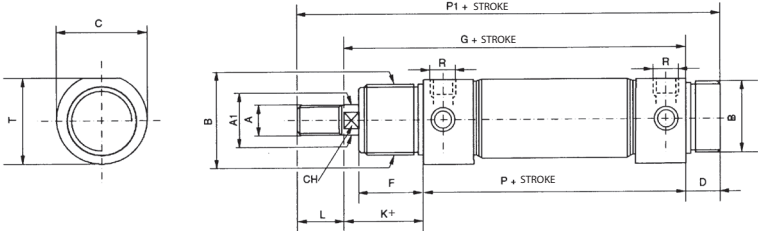
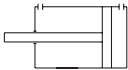
SINGLE-ACTING MAGNETIC - SPRING THRUST



Ø	A	A1	B	T	C	D	F	G	K	L	P	P'	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

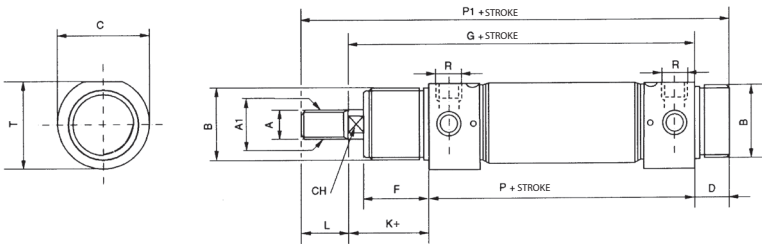
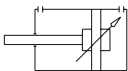
DOUBLE ACTING MAGNETIC



Ø	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	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

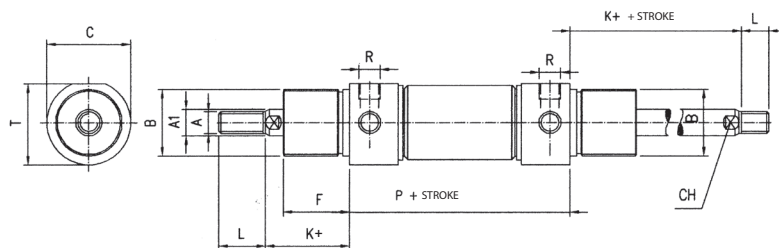
DOUBLE ACTING CUSHIONED MAGNETIC



Ø	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	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

AJ

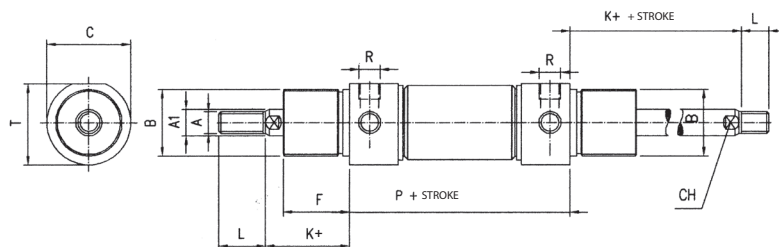
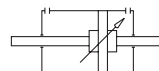
DOUBLE ACTING MAGNETIC WITH DOUBLE ROD END



Ø	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	1/8"GAS
40	M12x1.25	16	M38x1.5	44	46	35	45	24	111	12	1/4"GAS
50	M16x1.5	20	M45x1.5	55	57	38	50	32	120	16	1/4"GAS
63	M16x1.5	20	M45x1.5	67.5	70	38	50	32	124	16	3/8"GAS

AL

DOUBLE ACTING CUSHIONED MAGNETIC WITH DOUBLE ROD END

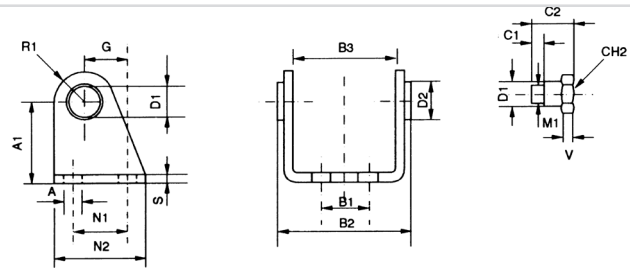
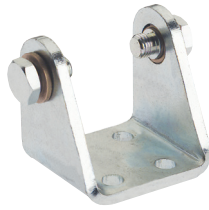


Ø	A	A1	B	T	C	F	K	L	P	CH	R
32	M10x1.25	12	M30x1.5	36.5	38	30	38	20	96	10	1/8"GAS
40	M12x1.25	16	M38x1.5	44	46	35	45	24	111	12	1/4"GAS
50	M16x1.5	20	M45x1.5	55	57	38	50	32	120	16	1/4"GAS
63	M16x1.5	20	M45x1.5	67.5	70	38	50	32	124	16	3/8"GAS

FIXING ELEMENTS AND ACCESSORIES

ACC

CLEVIS BRACKET

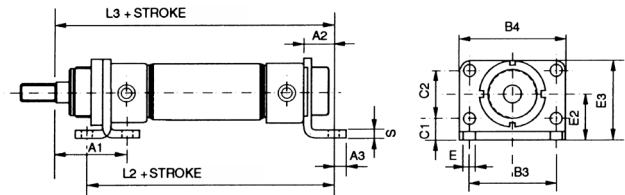


Aignep	Univer	Ø	D1	D2	A	A1	G	M1	N1	N2	R1	S	CH2	B1	B2	B3	V	C1	C2
ACC 032	MF-21032I	32	10	16	7	35	20	M8x1	24	40	12	4	13	20	50.1	38.1	4	6	18
ACC 040	MF-21040I	40	12	18	9	40	27	M10x1	30	50	13	5	17	28	60.1	46.1	5	7	21.6
ACC 050	MF-21050I	50	14	23	9	45	30	M12x1.5	34	54	14	6	19	34	74.1	57.1	6	9	26.4
ACC 063	MF-21060I	63	16	24	9	50	34	M14x1.5	35	65	16	6	19	42	88.1	70.1	6	15	34

Material: Steel

APD

FOOT FLANGE

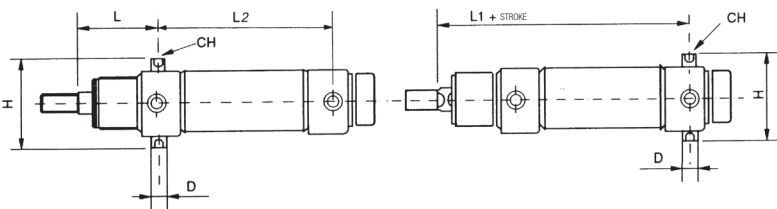


Aignep	Univer	Ø	E	E2	E3	C1	C2	L2	L3	B3	B4	S	A1	A2	A3
APD 032	MF-13032I	32	7	28	49	14	28	124	148	52	66	4	48	14	7
APD 040	MF-13040I	40	9	33	58	18	30	151	176	60	80	5	60	20	10
APD 050	MF-13050I	50	9	40	70	20	40	160	190	70	90	6	64	20	10
APD 063	MF-13063I	63	9	45	80	20	50	164	194	76	96	6	65	20	10

Material: Steel

APE

PIVOT

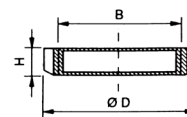


Aignep	Univer	Ø	D	H	L1	L2	L	CH
APE 032	MF-18032I	32	10	51	125	78	47	5
APE 040	MF-18040I	40	12	61	144	87	57	6
APE 050	MF-18050I	50	14	75	158	96	62	6
APE 063	MF-18063I	63	16	90	161	98	63	8

Material: Steel

AGT

NUT

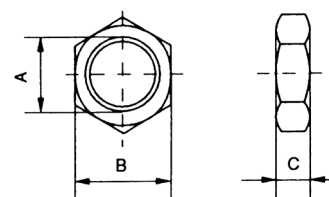


Aignep	Univer	B	D	H
AGT 032	MF-20032I	M30x1.5	45	7
AGT 040	MF-20040I	M38x1.5	50	8
AGT 050	MF-20050I	M45x1.5	58	9

Material: Steel

DA

NUT FOR RODS

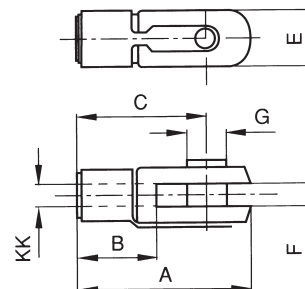


Aignep	Univer	A	B	C
ODA00 00 51 C9 ZI	KF-16032I	M10x1.25	17	8
ODA00 00 51 D5 ZI	KF-16040I	M12x1.25	19	7
ODA00 00 51 E3 ZI	KF-16050I	M16x1.5	22	6

Material: Steel

FC

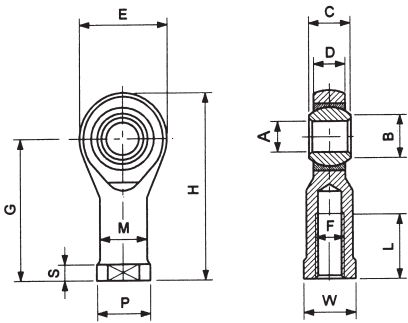
YOKE WITH LOCABLE PIN



Aignep	Univer	KK	A	B	C	E	F	G
FC 025	KF-15032PI	M10x1.25	52	20	40	20	10	10
FC 040	KF-15040PI	M12x1.25	62	24	48	24	12	12
FC 050	KF-15050PI	M16x1.5	83	32	64	32	16	16

Material: Steel

TF
ROD ENDS SELF-LUBRICATING



Aignep	Aignep	Univer	F	A	B	C	Ø	D	E	G	H	L	M	P	S	W	Radial load	Weight	
•	■	•					Sphere										D	S	
				H7	0	0 -0.13		±0.13	±0.5	±0.5		±0.7	±0.7	±0.5	+0.2 -0.7	±0.25	kg	kg	g
TF 025	TFI 025	KF-17032I	M10x1.25	10	12,9	14	19,05	11,5	30	43	58	15	15	19	6,5	16	1.200	3.100	88
TF 040	TFI 040	KF-17040I	M12x1.25	12	15,4	16	22,23	12,5	34	50	67	18	17,5	22	6,5	18	1.400	3.700	120
TF 050	TFI 050	KF-17050I	M16x1.5	16	19,3	21	28,58	15,5	42	64	85	24	22	27	8	24	2.500	6.300	240

- Material: Steel
- Material: Stainless steel
- D : Dynamic
- S : Static