



Pressures

1 bar (0.1 MPa)
10 bar (1 MPa)

Starting pressure: 0.3 bar (0.03 MPa)



Reference Standard

1907/2006
REACH ✓

2011/65/CE
RoHS ✓

SILICON
FREE

ATEX
2014/34/UE



Temperature NBR

0 °C (-20 °C with dry air)
+ 80 °C



Sensors recommended

DF - DT

CHARACTERISTICS

Fluids	Filtered and lubricated compressed air as well as non lubricated air
Piston rod	Chrome-plated Steel C4
Nut	Zinc-plated steel
Rod seal	PU
Front/rear head	Aluminium
Cushion seal	NBR
Cushion screw	Zinc-plated steel
Cylinder profile	Anodized Aluminium
Screw	Zinc-plated
Bushing	KU
Piston seals	NBR
Magnet	Plastoferrite
Piston	Aluminium
O-Ring (front head, piston, cushion screw)	NBR
Functioning	Single acting magnetic. Double cushioned acting single or double end rod, magnetic. Tandem.



II 2GD cT6 -20°C < Tamb < +80°C



Series	Execution	Ø mm	Stroke	Version	Varianti
L H		0 3 2	0 0 2 5		
LB Single-Acting Magnetic	= Male rod	032	0025 0300	= Standard	= Standard NBR
LH Double Acting Cushioned Magnetic	L Piston Rod Lock L1-N	040	0040 0320	T Tie rods	PU Polyurethane
LL Double Acting Cushioned Magnetic with Double Rod End	T Tandem	050	0050 0350		F Version -40°
		063	0060 0400		VS Only Rod Seals in FKM
		080	0075 0450		IS Stainless steel rod
		100	0080 0500		V All FKM seals
		125	0100 0600		W Water and chemical Version
			0125 0700		R Metal Scraper (NBR
			0150 0800		IVR Corrosion resistant and chemical agents compatible
			0160 0900		
			0200 1000		
			0250		

Intermediate or higher strokes are available upon request. Maximum stroke 2700 mm.

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
80	25	S	=	5027	450	900	1350	1800	2250	2700	3150	3600	4050	4500
		T	=	4536	405	810	1215	1620	2025	2430	2835	3240	3645	4050
100	25	S	=	7854	700	1400	2100	2800	3500	4200	4900	5650	6360	7000
		T	=	7363	660	1320	1980	2640	3300	3960	4620	5280	5940	6600
125	32	S	=	12270	1104	2208	3312	4416	5520	6624	7728	8832	9936	11040
		T	=	11468	1032	2064	3096	4128	5160	6192	7224	8256	9288	10320

S Thrust; T Traction

Spring forces

Cylinder	spring forces		Stroke			
Ø		25	50	75	80	100
Developed force						
32	R	50	41	33	31,5	24,5
	C	58	58	58	58	58
40	R	52	43	34	32	25
	C	61	61	61	61	61
50	R	92	77	64	60	49
	C	110	110	110	110	110
63	R	92	77	64	60	49
	C	110	110	110	110	110
80	R	117	98	79	75	59
	C	138	138	138	138	138
100	R	117	98	79	75	59
	C	138	138	138	138	138

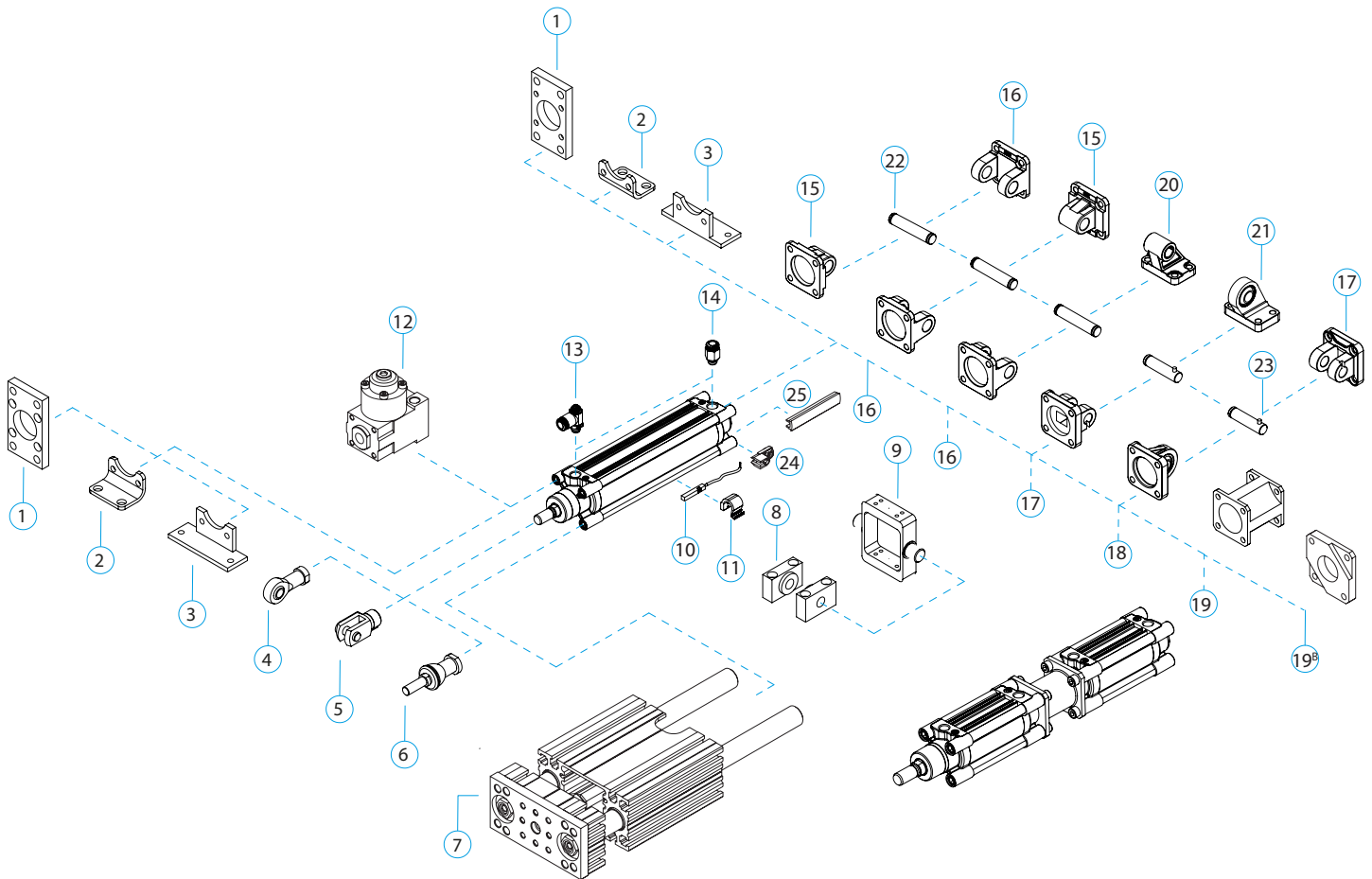
R Spring load at rest; C Compressed spring load

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
80	25	S	=	5027	0,101	0,151	0,201	0,251	0,302	0,352	0,402	0,452	0,503	0,553
		T	=	4536	0,091	0,136	0,181	0,227	0,272	0,318	0,363	0,408	0,454	0,499
100	25	S	=	7854	0,157	0,236	0,314	0,393	0,471	0,550	0,628	0,707	0,785	0,864
		T	=	7363	0,147	0,221	0,295	0,368	0,442	0,515	0,589	0,663	0,736	0,810
125	32	S	=	12270	0,245	0,368	0,491	0,614	0,736	0,859	0,982	1,104	1,227	1,350
		T	=	11468	0,229	0,344	0,459	0,573	0,688	0,803	0,917	1,032	1,147	1,261

S Thrust; T Traction

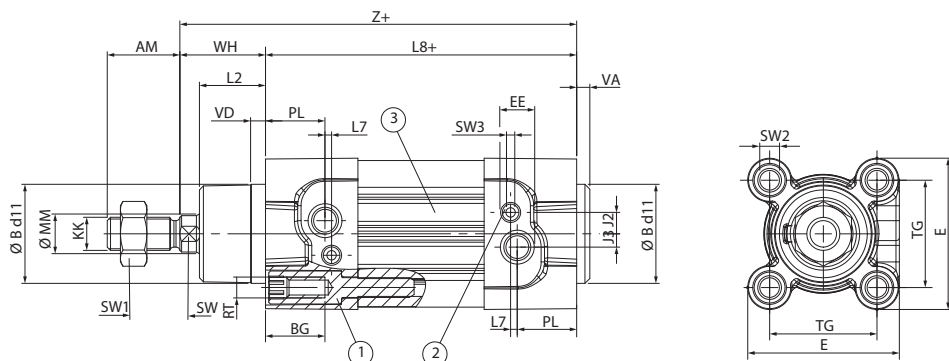
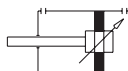
FIXING ELEMENTS AND ACCESSORIES - SERIES L



1	FLANGE - VFL
2	LOW-RISE PEDESTAL - VCP
3	LARGE LOW-RISE PEDESTAL - STEEL - VCB
4	FORK WITH ANGLED JOINT PIN - TF
5	FORK WITH IN-LINE JOINT PIN - FC
6	SNODABLE YOKE - STEEL - TS
7	GUIDE UNIT - J11
8	SUPPORT FOR INTERMEDIATE HINGE - VSI
9	INTERMEDIATE HINGE - STEEL - LCN
10	MAGNETIC SWITCHES DT - DF
11	BRACKET FOR SENSORS FOR CYLINDERS WITH TIE RODS - EXF
12	LOCKING BLOCK - L1N
13	FLOW REGULATOR
14	PUSH IN FITTINGS
15	MALE CLEVIS WITH SELF-LUBRICATING BUSHES - VCM
16	FEMALE HINGE WITH SELF-LUBRICATING BUSHES - VCF
17	NARROW FEMALE HINGE FOR SQUARE JOINT WITH ARTICULATED HEAD DIN648K - VCD
18	NARROW MALE HINGE WITH ARTICULATED HEAD DIN648K - ALUMINIUM - VCS
19	JOINING FLANGE - ALUMINIUM - VFT
19 ^B	FLANGE FOR OPPOSED CYLINDERS - KF36
20	SQUARE JOINT - VAS
21	SQUADRE JOINT WITH ARTICULATED HEAD DIN648K - STEEL- VADZ
22	PIN WITH SEEGER - VPE
23	PIN ANTI-ROTATION FOR NARROW FEMALE HINGE VCD - VPS
24	CABLE CLAMPING FOR DF SENSOR
25	DHF COVERING STRIP

SERIES L

LH - DOUBLE ACTING CUSHIONED MAGNETIC



Ø	ØB ⁴¹¹	VD	VA	L2	WH	ØMM	SW	KK	AM	SW1	Z	L8	BG	RT	SW2	E	TG	EE	PL	J3	J2	L7	SW3
32	30	10	4	20	26	12	10	M10X1.25	22	17	120	94	18	M6	6	46	32.5	G1/8	18	4	6.5	2	2.5
40	35	10.5	4	22	30	16	13	M12X1.25	24	19	135	105	18	M6	6	54	38	G1/4	17.5	3.5	8	5.8	2.5
50	40	11.5	4	28	37	20	17	M16X1.5	32	22	143	106	20	M8	8	64	46.5	G1/4	20.5	7	10	2	4
63	45	15	4	29	37	20	17	M16X1.5	32	22	158	121	20	M8	8	74	56.5	G3/8	22	11	8.5	4	4
80	45	15.7	4	35	46	25	22	M20X1.5	40	30	174	128	19	M10	6	94	72	G3/8	22	11	8.5	4	4
100	55	19.2	4	38	51.5	25	22	M20X1.5	40	30	189.5	138	19	M10	6	111	89	G1/2	26	9	12.5	5	4
125	60	20	6	50	65	32	27	M27X2	54	41	225	160	21	M12	8	135	110	G1/2	30	9	12.5	2.5	4

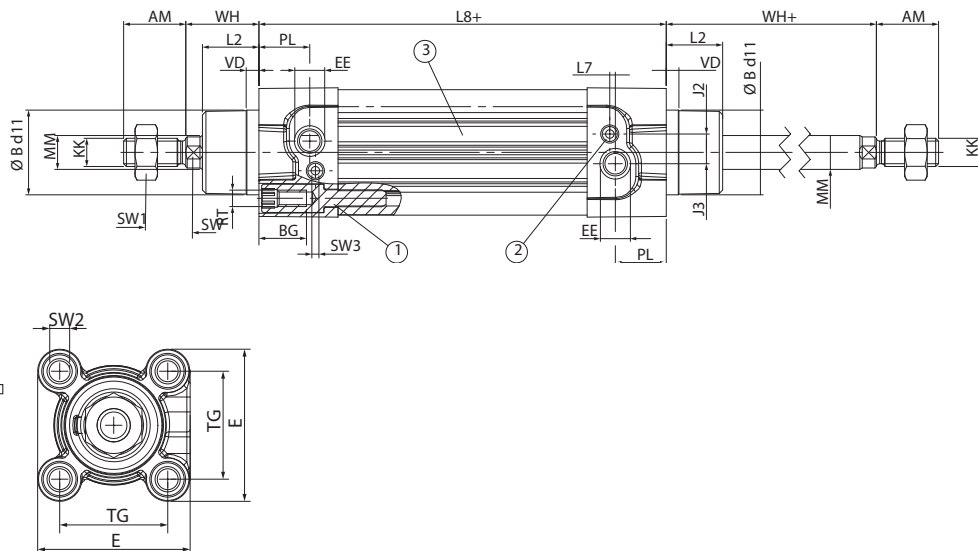
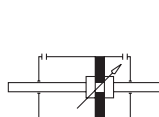
1. Socket head screw with female thread for mounting attachments

2. Regulating screw for adjustable end-position cushioning

3. Slot for proximity sensor

+ Add Stroke

LL - DOUBLE ACTING CUSHIONED MAGNETIC WITH DOUBLE ROD END



Ø	ØB ⁴¹¹	VD	VA	L2	WH	ØMM	SW	KK	AM	SW1	Z	L8	BG	RT	SW2	E	TG	EE	PL	J3	J2	L7	SW3
32	30	10	4	20	26	12	10	M10X1.25	22	17	120	94	18	M6	6	46	32.5	G1/8	18	4	6.5	2	2.5
40	35	10.5	4	22	30	16	13	M12X1.25	24	19	135	105	18	M6	6	54	38	G1/4	17.5	3.5	8	5.8	2.5
50	40	11.5	4	28	37	20	17	M16X1.5	32	22	143	106	20	M8	8	64	46.5	G1/4	20.5	7	10	2	4
63	45	15	4	29	37	20	17	M16X1.5	32	22	158	121	20	M8	8	74	56.5	G3/8	22	11	8.5	4	4
80	45	15.7	4	35	46	25	22	M20X1.5	40	30	174	128	19	M10	6	94	72	G3/8	22	11	8.5	4	4
100	55	19.2	4	38	51.5	25	22	M20X1.5	40	30	189.5	138	19	M10	6	111	89	G1/2	26	9	12.5	5	4
125	60	20	6	50	65	32	27	M27X2	54	41	225	160	21	M12	8	135	110	G1/2	30	9	12.5	2.5	4

1. Socket head screw with female thread for mounting attachments

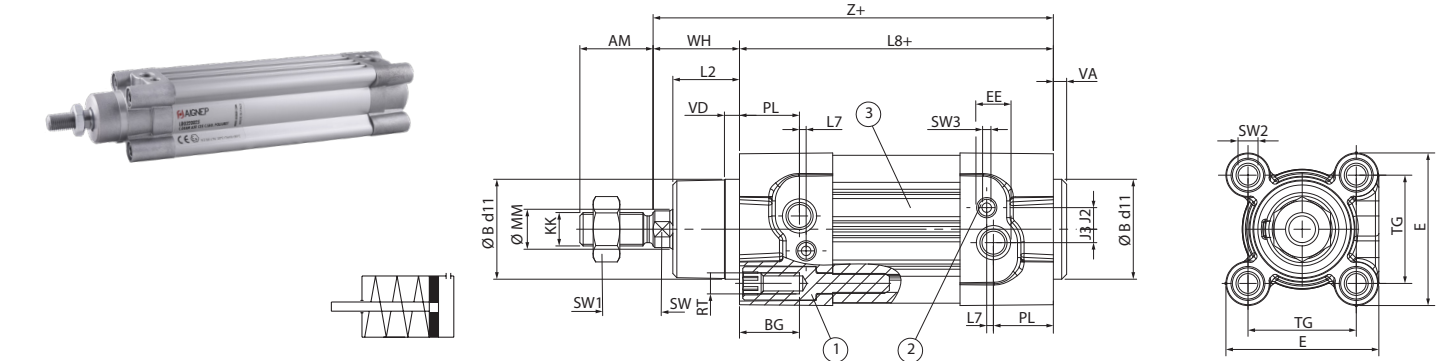
2. Regulating screw for adjustable end-position cushioning

3. Slot for proximity sensor

+ Add Stroke

SERIES L

LB - SINGLE-ACTING MAGNETIC



Ø	ØB d11	VD	VA	L2	WH	ØMM	SW	KK	AM	SW1	Z	L8	BG	RT	SW2	E	TG	EE	PL	J3	J2	L7	SW3
32	30	10	4	20	26	12	10	M10X1.25	22	17	145	119	18	M6	6	46	32.5	G1/8	18	4	6.5	2	2.5
40	35	10.5	4	22	30	16	13	M12X1.25	24	19	160	130	18	M6	6	54	38	G1/4	17.5	3.5	8	5.8	2.5
50	40	11.5	4	28	37	20	17	M16X1.5	32	22	168	131	20	M8	8	64	46.5	G1/4	20.5	7	10	2	4
63	45	15	4	29	37	20	17	M16X1.5	32	22	183	146	20	M8	8	74	56.5	G3/8	22	8	8.5	4	4
80	45	15.7	4	35	46	25	22	M20X1.5	40	30	199	153	19	M10	6	94	72	G3/8	22	11	8.5	4	4
100	55	19.2	4	38	51.5	25	22	M20X1.5	40	30	214.5	163	19	M10	6	111	89	G1/2	26	9	12.5	5	4

1. Socket head screw with female thread for mounting attachments

2. Regulating screw for adjustable end-position cushioning

3. Slot for proximity sensor

+ Add Stroke

MOST POPULAR VERSIONS - SERIES L

L H 0 3 2 0 0 2 5

STANDARD AUTOMATION



-10 / +80 °C

NBR SEALS - LOW FRICTION

L H 0 3 2 0 0 2 5 P U

LONG LIFE



-20 / +80 °C

PU SEALS



L H 0 3 2 0 0 2 5 V

HIGH TEMPERATURE AND CHEMICAL COMPATIBL



-10 / +150 °C

FKM SEALS



L H 0 3 2 0 0 2 5 I S

STAINLESS STEEL ROD



-10 / +80 °C

NBR SEALS - LOW FRICTION

ROD: AISI 303



L H 0 3 2 0 0 2 5 F

LOW TEMPERATURES



-40 / +80 °C

PU SEALS



L H 0 3 2 0 0 2 5 F R

LOW TEMPERATURES WITH METAL SCRAPER



-30 / +80 °C

NBR SEALS

METAL SCRAPER



L H 0 3 2 0 0 2 5 W

WATER AND CHEMICAL WASHING RESISTANT



-10 / +60 °C

PU SEALS - WATERPROOF

ROD: AISI 303

SPECIAL PAINTING



L H 0 3 2 0 0 2 5 I V R

CORROSION RESISTANT AND CHEMICAL AGENTS COMPATIBLE



-10 / +150 °C

FKM SEALS

ROD: AISI 303

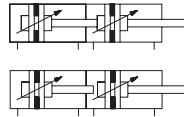
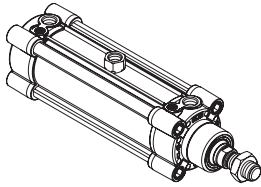
SPECIAL PAINTING

METAL SCRAPER



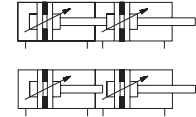
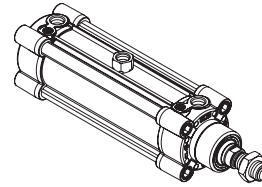
MOST POPULAR VERSIONS - SERIES L

CYLINDER TANDEM



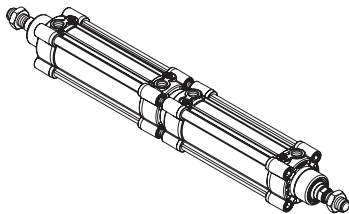
-20 / +80 °C

CYLINDER TANDEM TWO-POSITION



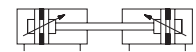
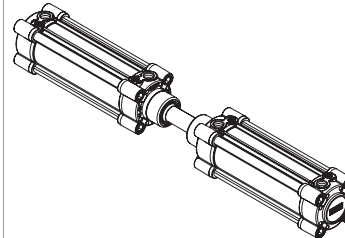
-20 / +80 °C

OPPOSED CYLINDERS



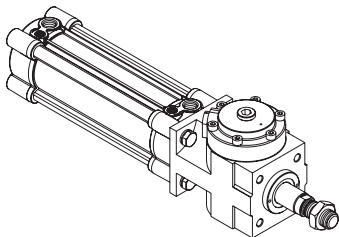
-20 / +80 °C

CYLINDERS WITH COMMON PISTON ROD



-20 / +80 °C

CYLINDER WITH L1-N LOCKING UNIT



-20 / +80 °C

CYLINDERS ISO 15552 WITH LOCKING UNIT L1-N



Reference Standard

ATEX
2014/34/UE



Pressures

4 bar (0.4 MPa)
10 bar (1 MPa)



Temperature

-20 °C
+ 80 °C

CHARACTERISTICS

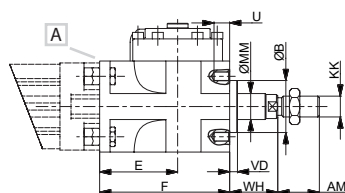
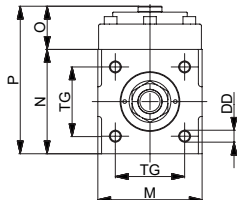
Fluid	Filtered air, with or without lubrication
Body	Die-cast aluminum
Cover	Die-cast aluminum
Piston	Aluminum
Seals	NBR
Springs	Special steel



Series	Bore (mm)	Piston rod bore (mm)	Option
L 1 N	0 6 3	2 0	☐
L1-N Locking unit for cylinders and piston rods	032 = Ø032 040 = Ø040 050 = Ø050 063 = Ø063 080 = Ø080 100 = Ø100 125 = Ø125	Ø12 Ø25 Ø16 Ø32 Ø20	k Metallic piston rod scraper on request

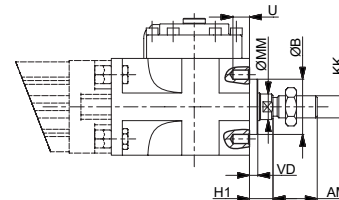
L1 N - LOCKING UNITS FOR ISO CYLINDER Ø 32 - Ø 125

ISO PROTRUSION



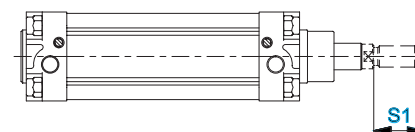
A - G1/8 pneumatic release

REDUCED PROTRUSION



ADDITIONAL LENGTH TO STANDARD ROD

S1 for ISO protrusion



Ø	Ø Rod (mm)	AM	B	DD	E	F	H1	KK	M	MM	N	O	P	S1	TG	U	VD	WH
32	12	22	30	M6	54,5	84	16	M10 X 1,25	50	12	50	29,5	79,5	85	32,5	10	6	26
40	16	24	35	M6	58	90	15	M12 X 1,25	58	16	58	29,5	87,5	90	38	9	6	30
50	20	32	40	M8	60	100	17	M16 X 1,5	70	20	70	29	99	100	46,5	10	6	37
63	20	32	45	M8	65	110	17	M16 X 1,5	85	20	85	37	122	110	56,5	13	6	37
80	25	40	45	M10	75	125	21	M20 X 1,5	100	25	100	40,5	140,5	125	72	16	8	46
100	25	40	55	M10	90	152	26	M20 X 1,5	116	25	116	59	59	150	89	18	8	51
125	32	54	60	M12	112,5	185	35	M27 X 2	145	32	145	62	62	185	110	22	9,5	65

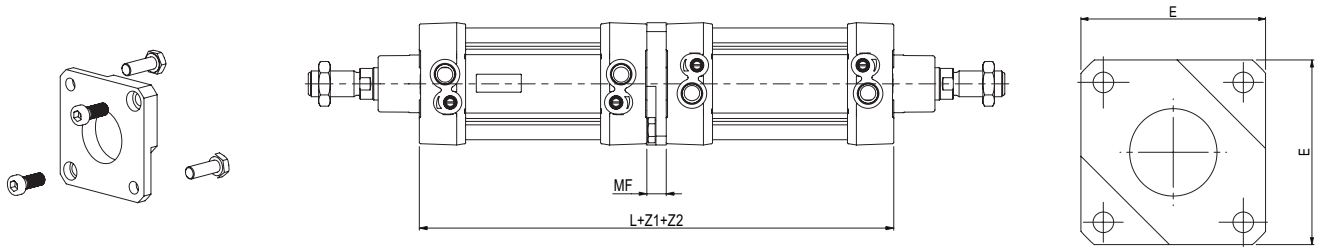
LOCKING UNIT WITH M8 INDUCTIVE POSITION SENSOR



min 4 bar

FIXING ELEMENTS AND ACCESSORIES SERIES L - CYLINDERS ISO 15552

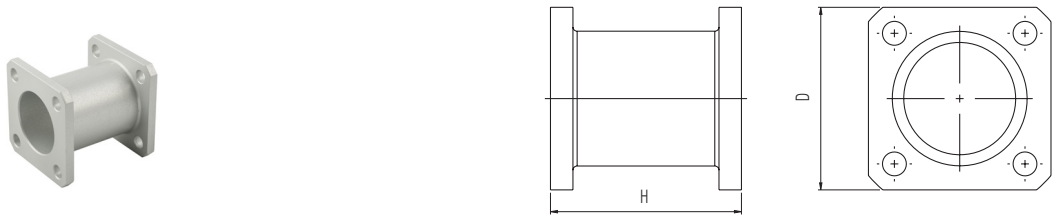
KF36 - FLANGE FOR OPPOSED CYLINDERS



Code	Ø	E	L	MF
KF - 36032	32	46,5	198	10
KF - 36040	40	52	220	10
KF - 36050	50	64,5	227	15
KF - 36063	63	76,5	257	15
KF - 36080	80	95	271	15
KF - 36100	100	114	291	15
KF - 36125	125	140	335	15

Material: Alluminium

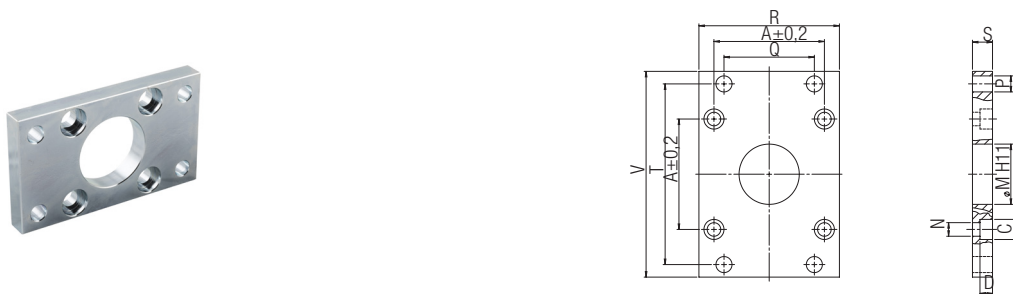
VFT - JOINING FLANGE



Code	Ø	H	D
VFT 032	32	55	45
VFT 040	40	55	52
VFT 050	50	68	65
VFT 063	63	68	75
VFT 080	80	92	95
VFT 100	100	92	115
VFT 125	125	120	140

Material: Alluminium

VFL - FLANGE

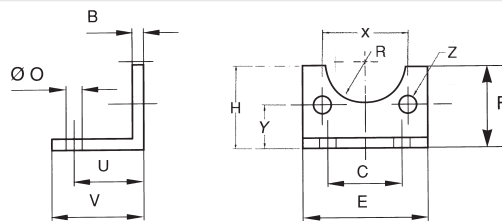


Code ●	Code ■	Ø	Ø M	P	S	D	C	N	A	Q	R	T	V
VFL 032	VFLI 032	32	30	7	10	5	10.5	6.5	32.5	32	45	64	80
VFL 040	VFLI 040	40	35	9	10	5	11	6.5	38	36	52	72	90
VFL 050	VFLI 050	50	40	9	12	5.5	15	8.5	46.5	45	65	90	110
VFL 063	VFLI 063	63	45	9	12	5.5	15	8.5	56.5	50	75	100	120
VFL 080	VFLI 080	80	45	12	16	8	18	10.5	72	63	95	126	150
VFL 100	VFLI 100	100	55	14	16	8	18	10.5	89	75	115	150	170
VFL 125	-	125	60	16	20	9.5	20	13.5	110	90	140	180	205

● Material: Steel

■ Material: Stainless steel

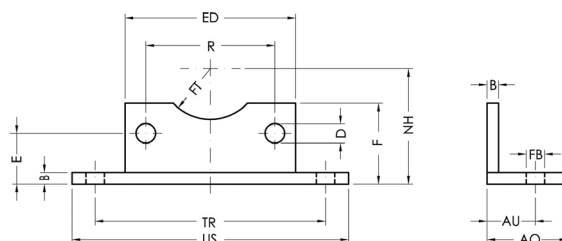
Screw: din6912

FIXING ELEMENTS AND ACCESSORIES SERIES L - CYLINDERS ISO 15552
VCP - LOW RISE PEDESTAL


Code ●	Code ■	Ø	B	C	E	F	O	U	V	R	Z	X	Y	H
VCP 032	VCPI 032	32	4	32	45	30	7	24	35	15	7	32.5	15.75	32
VCP 040	VCPI 040	40	4	36	52	30	9	28	36	17.5	7	38	17	36
VCP 050	VCPI 050	50	5	45	65	36	9	32	47	20	9	46.5	21.75	45
VCP 063	VCPI 063	63	5	50	75	35	9	32	45	22.5	9	56.5	21.75	50
VCP 080	VCPI 080	80	6	63	95	47	12	41	55	22.5	11	72	27	63
VCP 100	VCPI 100	100	6	75	115	53	14	41	57	27.5	11	89	26.5	71
VCP 125	VCPI 125	125	8	90	140	70	16	45	70	30	14	110	35	90

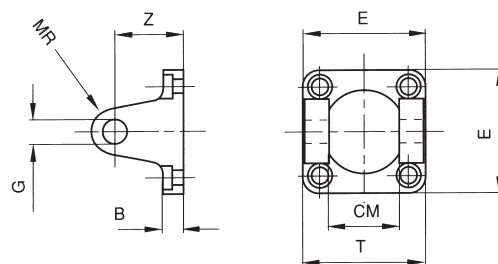
● Material: steel

■ Material: Stainless steel

VCB - LARGE LOW-RISE PEDESTAL


Code	Ø	US	ED	F	AO	B	TR	E	D	FT	NH	R	AU	FB
VCB 032 NE	32	79	45	30	30	5	65	15.75	6.5	15	32	32.5	18	6.5
VCB 040 NE	40	90	55	30	30	5	75	17	6.5	17.5	36	38	18	6.5
VCB 050 NE	50	110	65	35	35	5	90	21.75	8.5	20	45	46.5	21	8.5
VCB 063 NE	63	120	75	35	35	5	100	21.75	8.5	22.5	50	56.5	21	8.5
VCB 080 NE	80	153	95	45	45	6	128	27	10.5	22.5	63	72	27	10.5
VCB 100 NE	100	178	115	45	45	6	148	26.5	10.5	27.5	71	89	27	10.5

Material: Steel

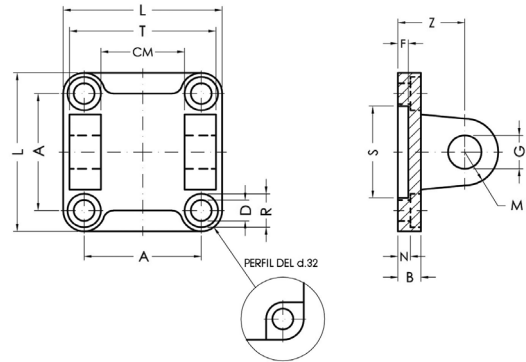
VCF - FEMALE HINGE


Code ●	Code ■	Ø	B	E	G	T	Z	CM	MR
* VCF 032	VCFI 032	32	9	45	10	45	22	26	10
* VCF 040	VCFI 040	40	9	52	12	52	25	28	12
* VCF 050	VCFI 050	50	11	65	12	60	27	32	12
* VCF 063	VCFI 063	63	11	75	16	70	32	40	16
* VCF 080	VCFI 080	80	14	95	16	90	36	50	16
* VCF 100	VCFI 100	100	14	115	20	110	41	60	20
* VCF 125	VCFI 125	125	20	140	25	130	50	70	25

● Material: Aluminium

■ Material: Stainless steel

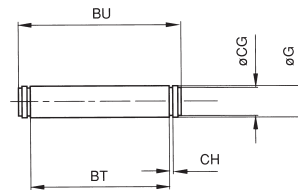
* With self-lubricating bushes

FIXING ELEMENTS AND ACCESSORIES SERIES L - CYLINDERS ISO 15552
VCH - FEMALE CLEVIS BRACKET


Code	Code ♦	Ø	A	L	D	R	N	B	S	F	Z	G	M	CM	T
VCH 032	VCHZ 032 NE	32	32,5	45	6,6	11	5,5	9	30	5	22	10	10	26	45
VCH 040	VCHZ 040 NE	40	38	52	6,6	11	5,5	9	35	5	25	12	12	28	52
VCH 050	VCHZ 050 NE	50	46,5	65	9	15	6,5	11	40	5	27	12	12	32	60
VCH 063	VCHZ 063 NE	63	56,5	75	9	15	6,5	11	45	5	32	16	16	40	70
VCH 080	VCHZ 080 NE	80	72	95	11	18	10	14	45	5	36	16	16	50	90
VCH 100	VCHZ 100 NE	100	89	115	11	18	10	14	55	5	41	20	20	60	110
VCH 125	VCHZ 125 NE	125	110	140	14	20	10	20	60	7	50	25	25	70	130

● Material: Aluminium

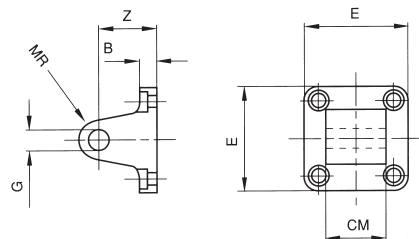
■ Material: Steel

VPE - PIN WITH SEEGER


Code ●	Code ■	Ø	G	BT	BU	CG	CH
VPE 032	VPEI 032	32	10	46	53	9,6	1,1
VPE 040	VPEI 040	40	12	53	60	11,5	1,1
VPE 050	VPEI 050	50	12	61	68	11,5	1,1
VPE 063	VPEI 063	63	16	71	78	15,2	1,1
VPE 080	VPEI 080	80	16	91	98	15,2	1,1
VPE 100	VPEI 100	100	20	111	118	19	1,3
VPE 125	VPEI 125	125	25	132	139	23,9	1,3

● Material: Steel

■ Material: Stainless steel

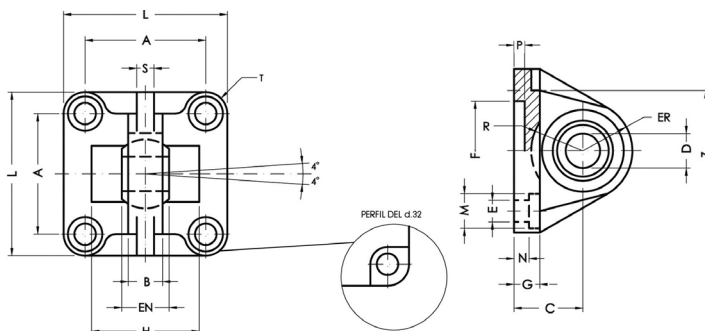
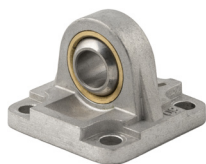
VCM - MALE CLEVIS


Code ●	Code ■	Code ♦	Ø	B	E	G	Z	CM	MR
VCM 032	VCM I 032	VCMZ 032 NE	32	9	45	10	22	26	10
VCM 040	VCM I 040	VCMZ 040 NE	40	9	52	12	25	28	12
VCM 050	VCM I 050	VCMZ 050 NE	50	11	65	12	27	32	12
VCM 063	VCM I 063	VCMZ 063 NE	63	11	75	16	32	40	16
VCM 080	VCM I 080	VCMZ 080 NE	80	14	95	16	36	50	16
VCM 100	VCM I 100	VCMZ 100 NE	100	14	115	20	41	60	20
VCM 125	VCM I 125	VCMZ 125 NE	125	20	140	25	50	70	25

● Material: Alluminium with self-lubricating bushes

■ Material: stainless steel

♦ Material: STEEL

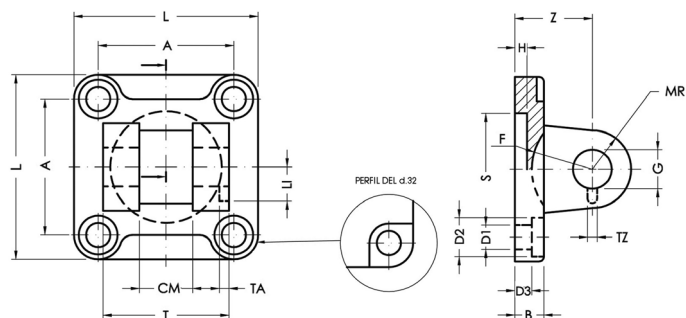
FIXING ELEMENTS AND ACCESSORIES SERIES L - CYLINDERS ISO 15552
VCS - NARROW MALE HINGE WITH ARTICULATED HEAD DIN648K


Code ●	Code ■	Code ◆	Ø	A	B	C	D	EN	ER	F	G	E	L	M	N	P	H	R	S	Z	T
VCS 032	VCSI 032	VCSZ 032 NE	32	32.5	10.5	22	10	14	16	30	9	6.6	45	11	5.5	5	-	-	4	32.5	6.25
VCS 040	VCSI 040	VCSZ 040 NE	40	38	12	25	12	16	19	35	9	6.6	52	11	5.5	5	-	-	6	39	7
VCS 050	VCSI 050	VCSZ 050 NE	50	46.5	15	27	16	21	21	40	11	9	65	15	6.5	5	51	18	8	47	9.25
VCS 063	VCSI 063	VCSZ 063 NE	63	56.5	15	32	16	21	24	45	11	9	75	15	6.5	5	-	-	8	52	9.25
VCS 080	VCSI 080	VCSZ 080 NE	80	72	18	36	20	25	28.5	45	14	11	95	18	10	5	72	24	10	67	11.5
VCS 100	VCSI 100	VCSZ 100 NE	100	89	18	41	20	25	30	55	14	11	115	18	10	8	-	-	10	77	13
VCS 125	VCSI 125	VCSZ 125 NE	125	110	25	50	30	37	40	60	20	13.5	140	20	10	7	-	-	13	98	15

● Material: Aluminium

■ Material: Stainless steel

◆ Material: Steel

VCD - NARROW MALE HINGE WITH ARTICULATED HEAD DIN648K


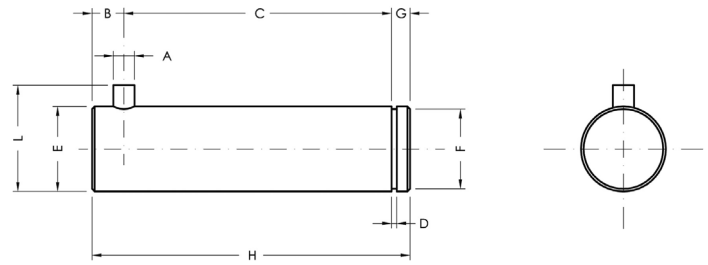
Code ●	Code ◆	Ø	L	T	CM	A	Z	H	B	D3	S	G	MR	D1	D2	TA	TZ	LI	F
VCD 032	VCDZ 032 NE	32	45	34	14	32.5	22	5	9	5.5	30	10	10	6.6	11	3	3.3	11.5	17
VCD 040	VCDZ 040 NE	40	52	40	16	38	25	5	9	5.5	35	12	12	6.6	11	4	4.3	12	20
VCD 050	VCDZ 050 NE	50	65	45	21	46.5	27	5	11	6.5	40	16	14	9	15	4	4.3	14	22
VCD 063	VCDZ 063 NE	63	75	51	21	56.5	32	5	11	6.5	45	16	18	9	15	4	4.3	14	25
VCD 080	VCDZ 080 NE	80	95	65	25	72	36	5	14	10	45	20	20	11	18	4	4.3	16	30
VCD 100	VCDZ 100 NE	100	115	75	25	89	41	5	14	10	55	20	22	11	18	4	6.3	16	32
VCD 125	VCDZ 125 NE	125	140	97	37	110	50	7	20	10	60	30	25	14	20	6	6.3	24	42

● Material: Aluminium

◆ Material: Steel

FIXING ELEMENTS AND ACCESSORIES SERIES L - CYLINDERS ISO 15552

VPS - PIN ANTI-ROTATION FOR NARROW FEMALE HINGE VCD

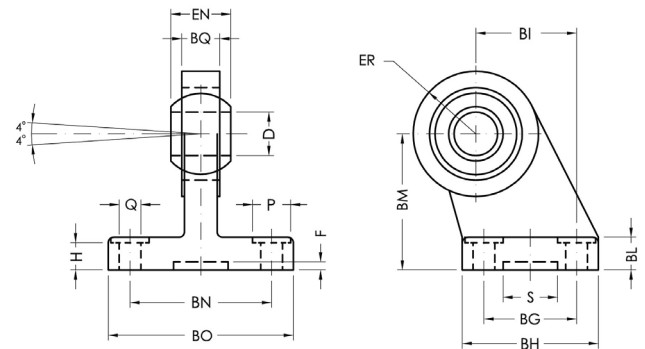


Code ●	Code ■	Ø	A	C	D	E	F	G	H	L	B
VPS 032	VPSI 032	32	3	32.5	1.1	10	9.6	4	41	14	4.5
VPS 040	VPSI 040	40	4	38	1.1	12	11.5	4	48	16	6
VPS 050	VPSI 050	50	4	43	1.1	16	15.2	5	54	20	6
VPS 063	VPSI 063	63	4	49	1.1	16	15.2	5	54	20	6
VPS 080	VPSI 080	80	4	63	1.3	20	19	6	75	24	6
VPS 100	VPSI 100	100	4	73	1.3	20	19	6	85	24	6
VPS 125	VPSI 125	125	6	94	1.6	30	28.6	7	110	36	9

● Material: Steel

■ Material: Stainless steel

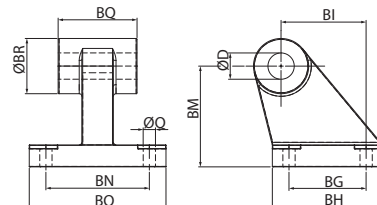
SQUADRE JOINT WITH ARTICULATED HEAD DIN648K



Code	Ø	Q	P	BG	BH	BI	BL	BM	BN	BO	EN	ER	BQ	D	H	S	F
VADZ 032 NE	32	6.6	11	18	31	21	10	32	38	51	14	15	10.5	10	8.5	20	3
VADZ 040 NE	40	6.6	11	22	35	24	10	36	41	54	16	18	12	12	8.5	20	3
VADZ 050 NE	50	9	15	30	45	33	12	45	50	65	21	20	15	16	10.5	20	3
VADZ 063 NE	63	9	15	35	50	37	12	50	52	67	21	23	15	16	10.5	20	3
VADZ 080 NE	80	11	18	40	60	47	14	63	66	86	25	27	18	20	11.5	20	3
VADZ 100 NE	100	11	18	50	70	55	15	71	76	96	25	30	18	20	12.5	20	3
VADZ 125 NE	125	13.5	20	60	90	70	20	90	94	124	37	40	25	30	17	20	3

Material: Steel / treatment: Black Cathaphoresis

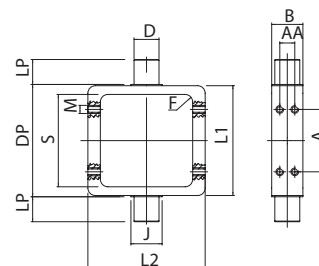
VAS - SQUARE JOINT



Code ●	Code ■	Ø	Q	BG	BH	BI	BM	BN	BO	BQ	BR	ØD
VAS 032	VASI 032	32	6.6	18	31	21	32	38	51	26	20	10
VAS 040	VASI 040	40	6.6	22	35	24	36	41	54	28	22	12
VAS 050	VASI 050	50	9	30	45	33	45	50	65	32	26	12
VAS 063	VASI 063	63	9	35	50	37	50	52	67	40	30	16
VAS 080	VASI 080	80	11	40	60	47	63	66	86	50	30	16
VAS 100	VASI 100	100	11	50	70	55	71	76	96	60	38	20
VAS 125	VASI 125	125	14	60	90	70	90	94	124	70	45	25

● Material: Aluminium

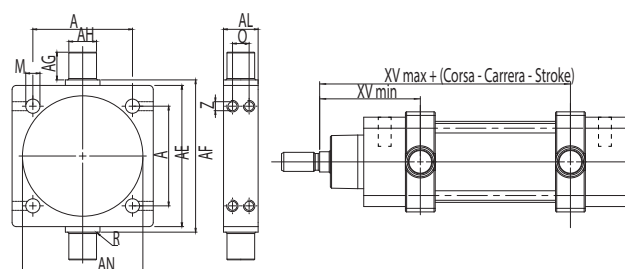
■ Material: stainless steel

FIXING ELEMENTS AND ACCESSORIES SERIES L - CYLINDERS ISO 15552
LCN - INTERMEDIATE HINGE


Code	Ø	L2	S	L1	D	J	F	B	A	LP	M	AA	DP
LCN 032	32	65	46	-	12	-	5	20	32.5	12	M5	7	50
LCN 040	40	75	54.5	62	16	20	4	20	38	16	M5	8	63
LCN 050	50	90	64.5	74	16	20	6	20	46.5	16	M6	8	75
LCN 063	63	100	74.5	88	20	25	6	25	56.5	20	M6	12	90
LCN 080	80	130	94.5	109	20	25	7	25	72	20	M8	12	110
LCN 100	100	140	111.5	130	25	30	8	30	80	25	M8	15	132
LCN 125	125	150	135.3	155	25	30	8	30	110	25	M10	15	160

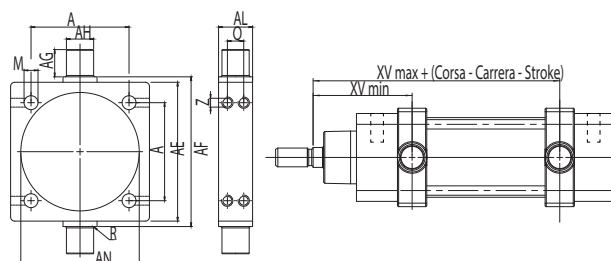
Material: Steel

For assembly it is necessary to remove the cylinder head

VCNT - INTERMEDIATE HINGE FOR THREADED TIE-RODS


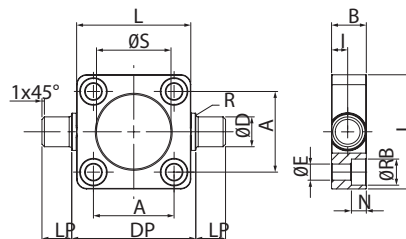
Code	Ø	TD	TG	TK	TL	TM	UW	XV min	XV max	RT
VCNT 032	32	12	32.5	15	12	50	46	61.5	84.5	M6
VCNT 040	40	16	38	20	16	63	59	71.5	93.5	M6
VCNT 050	50	16	46.5	20	16	75	69	78.5	101.5	M8
VCNT 063	63	20	56.5	25	20	90	84	84.5	110.5	M8
VCNT 080	80	20	72	25	20	110	102	94.5	125.5	M10
VCNT 100	100	25	89	30	25	132	125	107.5	133.5	M10
VCNT 125	125	25	110	32	25	160	155	126	163	M12

Material: Steel

VCNL - INTERMEDIATE HINGE FOR SMOOTH TIE-RODS


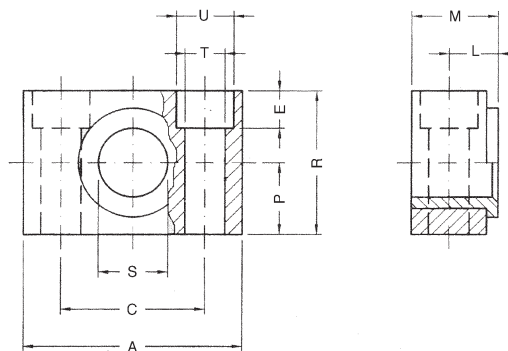
Code	Ø	A	AE	AL	AH	AG	AF	AN	R	M	Q	Z	XV min	XV max
VCNL 032	32	32.5	46	15	12	12	50	37	1	6,25	7	M5	61.5	84.5
VCNL 040	40	38	59	20	16	16	63	46	1.5	6,25	8	M5	71.5	93.5
VCNL 050	50	46.5	69	20	16	16	75	56	1.6	8,25	8	M6	78.5	101.5
VCNL 063	63	56.5	84	25	20	20	90	69	1.6	8,25	12	M6	84.5	110.5
VCNL 080	80	72	102	25	20	20	110	87	1.6	10,25	12	M8	94.5	125.5
VCNL 100	100	89	125	30	25	25	132	107	2	10,25	15	M8	107.5	133.5
VCNL 125	125	110	155	32	25	25	160	133.5	2	12,25	15	M10	126	163

Material: Steel

FIXING ELEMENTS AND ACCESSORIES SERIES L - CYLINDERS ISO 15552
VCNL - FRONT - REAR HINGE


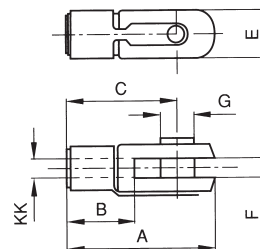
Code	Ø	A	L	DP	LP	D	S	B	R	I	E	RB	N	XV max
VCNF 032	32	32,5	46	50	12	12	30	14	1	6,5	6,5	10,5	6	84,5
VCNF 040	40	38	59	63	16	16	35	19	1,5	9	6,5	10,5	6	93,5
VCNF 050	50	46,5	69	75	16	16	40	19	1,6	9	8,5	13,5	8	101,5
VCNF 063	63	56,5	84	90	20	20	45	24	1,6	11,5	8,5	13,5	8	110,5
VCNF 080	80	72	102	110	20	20	45	24	1,6	11,5	10,5	16,5	10	125,5
VCNF 100	100	89	125	132	25	25	55	29	2	14	10,5	16,5	10	133,5
VCNF 125	125	110	150	160	25	25	60	30	2	15	13,5	20	12	163

Material: steel

VSI - INTERMEDIATE HINGE SUPPORT


Code	Ø	A	M	R	P	C	S	L	U	T	E
VSI 032	32	46	18	30	15	32	12	10,5	11	6,6	7
VSI 040	40 - 50	55	21	36	18	36	16	12	15	9	9
VSI 063	63 - 80	65	23	40	20	42	20	13	18	11	11
VSI 100	100 - 125	75	28,5	50	25	50	25	16	20	14	13

Material: Steel / Suggested for VCNT - XCN - VCNL - VCNF

FC - YOKE WITH LOCABLE PIN


Code ●	Code ■	KK	A	B	C	E	F	G
FC 025	* FCI 025	M10x1.25	52	20	40	20	10	10
FC 040	* FCI 040	M12x1.25	62	24	48	24	12	12
FC 050	* FCI 050	M16x1.5	83	32	64	32	16	16
FC 080	* FCI 080	M20x1.5	105	40	80	40	20	20
* FC 125	* FCI 125	M27x2	148	56	110	55	30	30

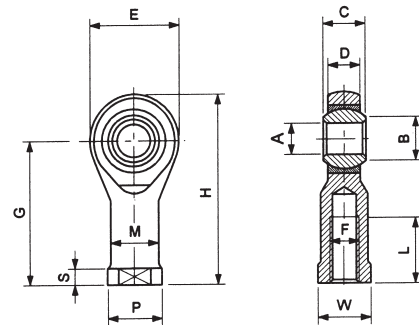
● Material: Steel

■ Material: Stainless steel

* With pin and seeger

FIXING ELEMENTS AND ACCESSORIES SERIES L - CYLINDERS ISO 15552

TF - ROD ENDS SELF-LUBRICATING



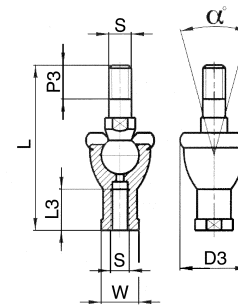
Code ●	Code ■	F	A	B	C	Sphere	D	E	G	H	L	M	P	S	W	Radial load		Weight
			0	0	0		±0.13	±0.5	±0.5		±0.7	±0.7	±0.5	±0.7	±0.25	D	S	
			H7		-0.13											kg	kg	g
TF 025	TFI 025	M10x1,25	10	12.9	14	19.05	11.5	30	43	58	15	15	19	6.5	16	1.200	3.100	88
TF 040	TFI 040	M12x1,25	12	15.4	16	22.23	12.5	34	50	67	18	17.5	22	6.5	18	1.400	3.700	120
TF 050	TFI 050	M16x1,5	16	19.3	21	28.58	15.5	42	64	85	24	22	27	8	24	2.500	6.300	240
TF 080	TFI 080	M20x1,5	20	24.4	25	34.93	18.5	50	77	102	30	27.5	34	10	30	3.700	8.300	430
TF 125	TFI 125	M27x2	28	32.3	35	47.59	26	66	103	136	41	37	46	14	41	7.100	14.200	1.120

● Material: Steel

■ Material: Stainless steel

D Dynamic; S Static

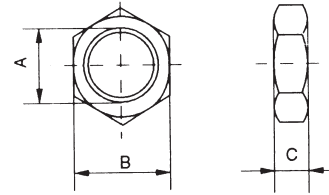
TS - SNODABLE YOKE



Code	S	L	L3	W	P3	D3	α°	Carico radiale (kN)
TS 025	M10x1.25	74.5	18	17	15	30	30°	16
TS 040	M12x1.25	84	20	19	17	32	30°	22
TS 050	M16x1.5	112	27	22	23	40	22°	33
TS 080	M20x1.5	133	38	30	25	45	15°	37

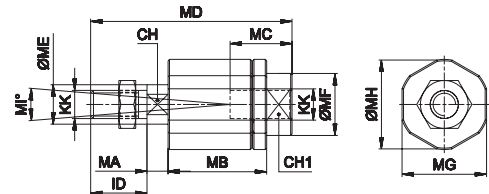
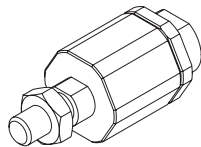
Material: Steel

S Static

FIXING ELEMENTS AND ACCESSORIES SERIES L - CYLINDERS ISO 15552
DA - NUT FOR RODS


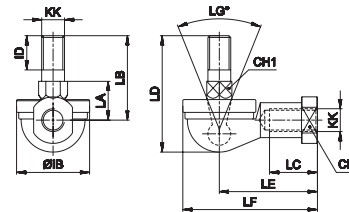
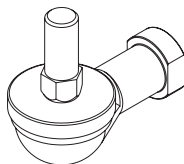
Code	A	B	C
ODA00 00 51 C9 ZI	M10x1.25	17	8
ODA00 00 51 D5 ZI	M12x1.25	19	7
ODA00 00 51 E3 ZI	M16x1.5	22	6
ODA00 00 51 F2 ZI	M20x1.5	30	9
ODA00 00 51 G8 ZI	M27x2	41	12

Material: Steel

KF-24 - SELF-ALIGNING JOINT


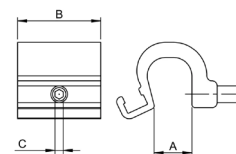
Code	Ø	CH	CH1	ID	KK	MA	MB	MC	MD	ME	MF	MG	MH	MI°	g
KF-24032	32	12	19	71	M10x1.25	5	35	20	71	14	22	30	32	8	220
KF-24040	40	12	19	75	M12x1.25	5	35	20	75	14	22	30	32	8	220
KF-24050	50-63	20	30	103	M16x1.5	8	54	32	103	22	32	41	45	6	660
KF-24080	80 - 100	20	30	119	M20x1.5	8	54	40	119	22	32	41	45	6	700
KF-24125	125	24	54	54	M27x2	10	60	48	147	32	57	65	70	8	2060

Material: galvanized steel

KF23 - FORK WITH ANGLE MOUNTED ARTICULATED PIN


Code	Ø	CH	CH1	LG°	KK	IB	ID	LA ±0.3	LB	LC	LD	LE	LF	g
KF-23025	32	17	11	50	M10x1.25	32	15	17	37	21	50,5	43	57	110
KF-23040	40	19	17	50	M12x1.25	36	17	19	42	42	57,5	50	66	165
KF-23050	50-63	22	19	40	M16x1.5	47	23	23,5	60	60	79,5	64	84	330
KF-23080	80 - 100	30	24	32	M20x1.5	58	25	27	68	68	90	77	99	540

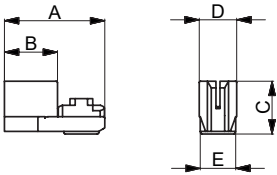
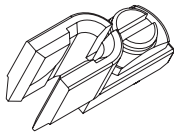
Material: Galvanized steel

EXF - BRACKET FOR DSL - DSH - DT SENSORS


Code	Ø	A	B	C
EXF032	32 - 40	7.5	25	2
EXF050	50 - 63	11.3	25	2.5
EXF080	80 - 100 - 125	15.3	25	2.5

FIXING ELEMENTS AND ACCESSORIES SERIES L - CYLINDERS ISO 15552

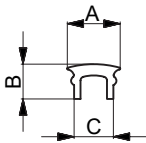
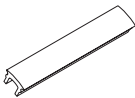
DF - SENSOR WIRE GUIDE CABLE CLAMP



Code	A	B	C	D	E
DF-001	15	7,8	7,9	5,8	5,5

Material: Polycarbonate body - chrome-plated steel screw

DHF - DF SENSOR WIRE COVER STRIP



Code	A	D	E
DHF-002010	7	4,6	5,2

Material: Pvc