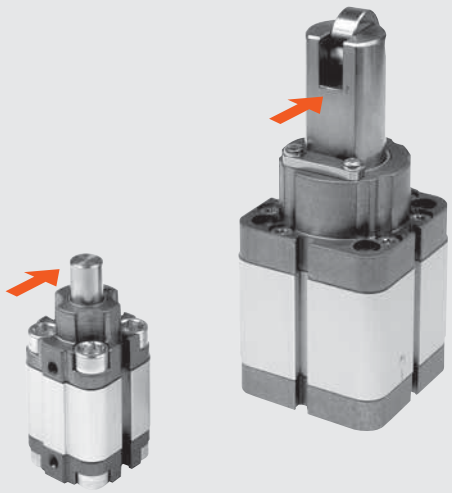
COMPACT STOPPER CYLINDER

Compact stopper cylinders designed for stopping moving parts or chucks.

- With or without magnet execution
- Single-acting, oversize extended piston rod
- Can be also used as double-acting whith spring return
- Fixing centre distances to ISO 15552 for Ø 32, Ø 50, Ø 80 and French standard NFE 49-004-1 and 2 (UNITOP).

In the relevant cylinder slots, it is possible to mount retracting magnetic sensor.

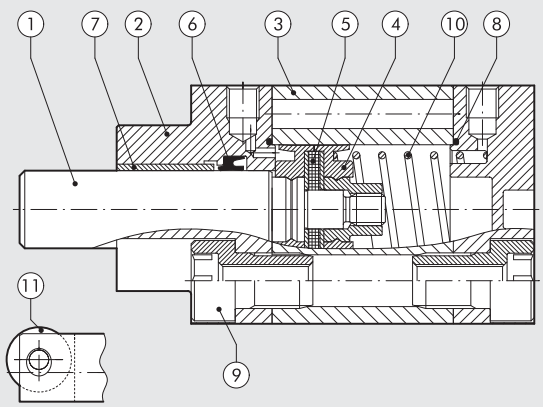


Chuck impact direction

TECHNICAL DATA		
Max operating pressure	bar	10
	MPa	1
	psi	145
Temperature range	°C	–10 to +80
Fluid		Unlubricated air. Lubrication, if used, must be continuous
Stroke bore	mm	Ø 20 x15; Ø 32 x 20; Ø50 x 30; Ø 80 x 30; Ø 80 x 40 a with NFE 49-004-1 and 2 fixing centre distances (UNITOP)
	mm	Ø 32 x 20; Ø 50 x 30; Ø 80 x 30; Ø 80 x 40 with ISO 15552 fixing centre distances
Design		With profile, heads with screws
Versions		Single-acting extended rod, Can be also used as double-acting whith spring return
Magnet for sensors		All versions come complete with magnet. Supplied without magnet on request
Inrush pressure	bar	Ø 20: 1.2; Ø 32-50: 1; Ø 80: 0.5
Weights		See cylinder "**General technical data**" at the beginning of the chapter
Notes		For correct operation, it is advisable to use 50 µm filtered air

COMPONENTS Ø 20

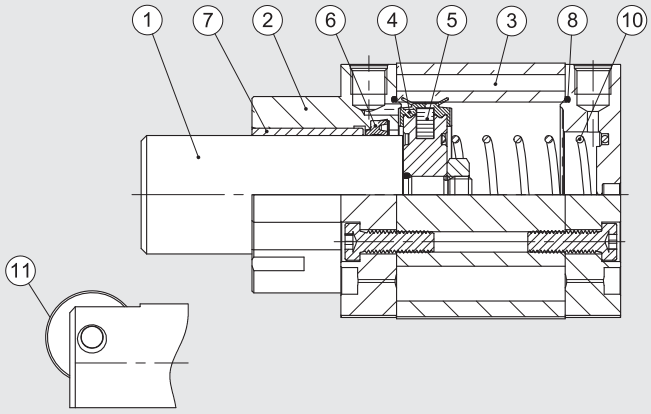
① PISTON ROD: Stainless steel, thick chromed
② HEAD: extruded anodised aluminium alloy
③ BARREL: drawn anodised and calibrated aluminium alloy
④ PISTON GASKET: polyurethane
⑤ MAGNET: neodymium-plastic
⑥ PISTON ROD GASKET: polyurethane
⑦ GUIDE BUSHING: steel strip with bronze and PTFE insert
⑧ STATIC O-RINGS: NBR
⑨ SECURING SCREWS: zinc-plated steel
⑩ RETURN SPRING: spring stainless steel
⑪ WHEEL: zinc-plated steel



METAL WORK PNEUMATIC

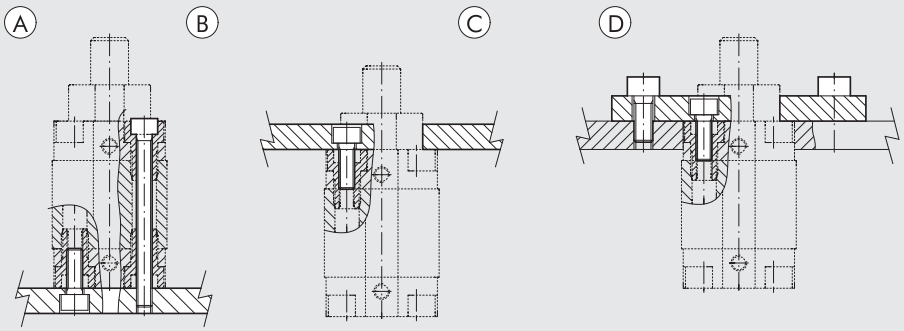
COMPONENTS Ø 32, Ø 50, Ø 80

① PISTON ROD: Stainless steel, thick chromed
② HEAD: extruded anodised aluminium alloy
③ BARREL: drawn anodised and calibrated aluminium alloy
④ PISTON GASKET: polyurethane
⑤ MAGNET: Ø 32 neodymium-plastic - Ø 50 to 80 plastoferrite
⑥ PISTON ROD GASKET: polyurethane
⑦ GUIDE BUSHING: steel strip with bronze and PTFE insert.
⑧ STATIC O-rings: NBR
⑨ SECURING SCREWS: zinc-plated steel
⑩ RETURN SPRING: spring stainless steel
⑪ WHEEL: zinc-plated steel



COMPACT STOPPER CYLINDER FIXING OPTIONS

Ⓐ Fixing with screws, using the thread in the rear heads
Ⓑ Direct fixing from above using long through screws or tie rods. Non-magnetic stainless steel must be used (e.g. AISI 304)
Ⓒ Fixing with screws, using the thread in the front heads.
Ⓓ Fixing using flange fixed onto the cylinder.

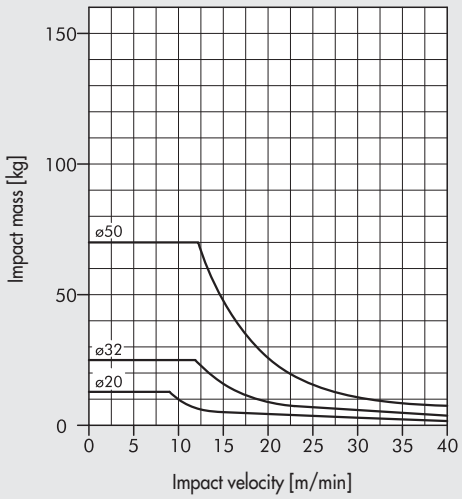


FORCE OF SPRINGS IN COMPACT STOPPER CYLINDERS (THEORETICAL)

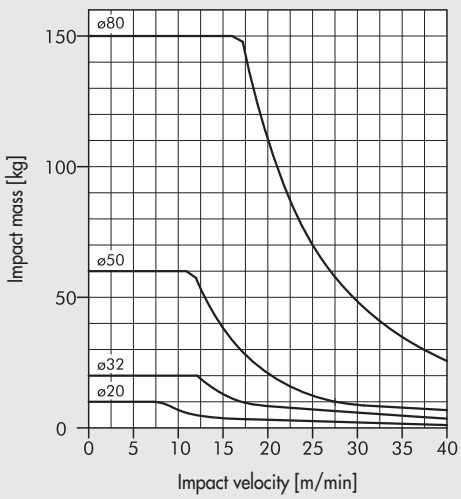
Stroke bore	Ø 20 x 15	Ø 32 x 20	Ø 50 x 30	Ø 80 x 30	Ø 80 x 40
Min. load (N)	13.7	22.4	50.2	97.9	71.0
Max. load (N)	21.2	36.0	115.9	178.5	178.5

LOAD GRAPH

TRUNNION VERSION



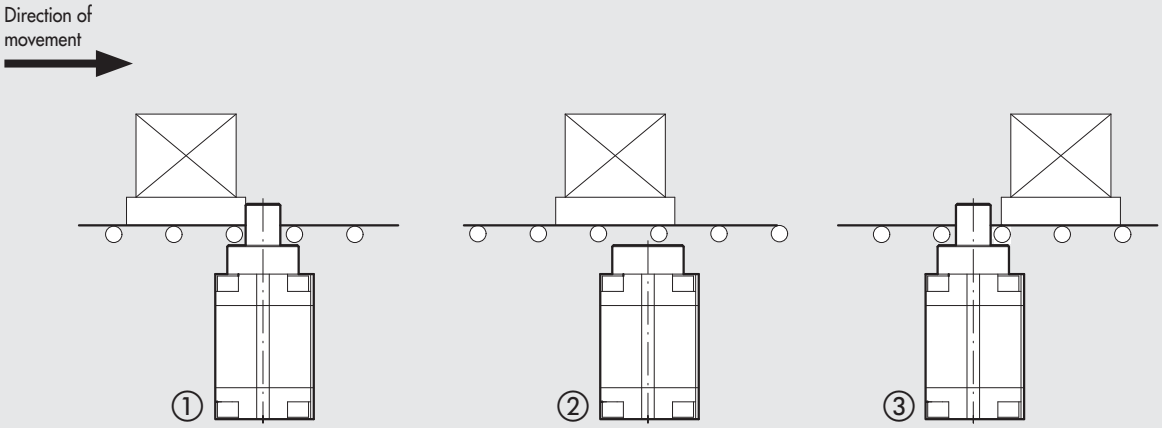
ROLLER VERSION



With stopper cylinders it is important to keep to the values shown in the graph to prevent early breakage of the mechanical parts.
The values shown are only valid with about 1 mm plastic deformation (stopper on chuck).

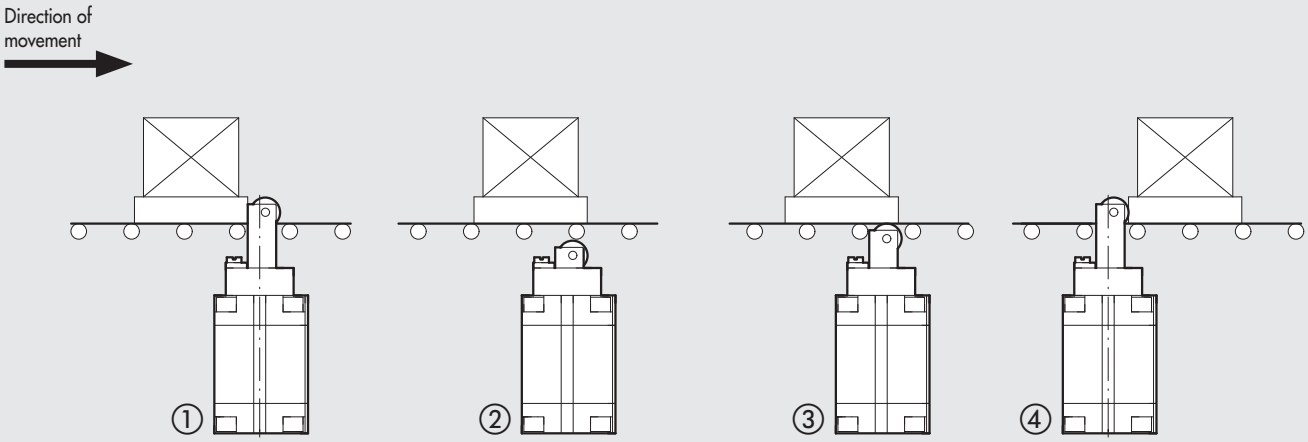
OPERATING DIAGRAMS

TRUNNION VERSION



① Deceleration of the chuck as it comes into contact with the piston rod, with elastic deformation of about 1 mm.
② The cylinder is pressurized to release the chuck.
③ The pressure in the front chamber is maintained until the chuck has passed the stopper cylinder.
The piston rod extends due to the effect of the spring and any pressure in the opposite chamber.
The system is now ready to stop the next chuck.

ROLLER VERSION

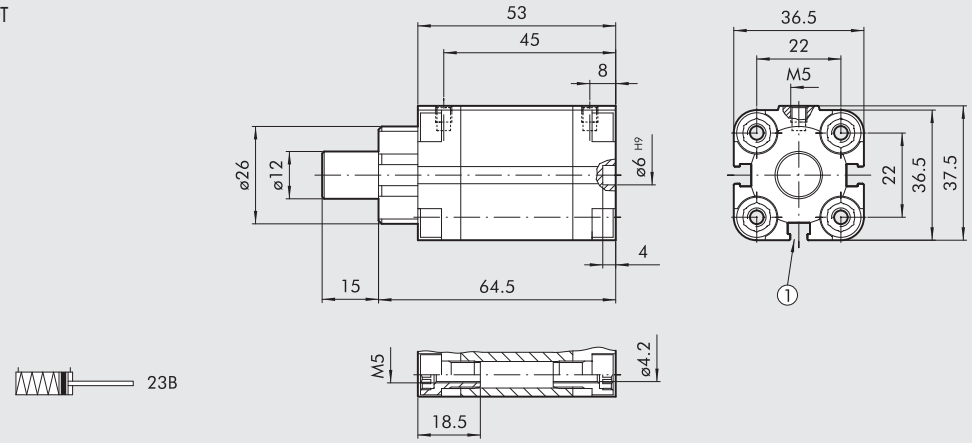


① Deceleration of the chuck as it comes into contact with the piston rod, with elastic deformation of about 1 mm.
② The cylinder is pressurized to release the chuck.
③ When the pressure in the front chamber drops, the piston rod extends due to the effect of the spring or any pressure until the wheel reaches the chuck and moves it on.
④ After the chuck has passed, the cylinder extends the piston rod fully. The system is now ready to stop the next chuck.

METAL WORK PNEUMATIC

Ø 20 STROKE 15 mm TRUNNION VERSION

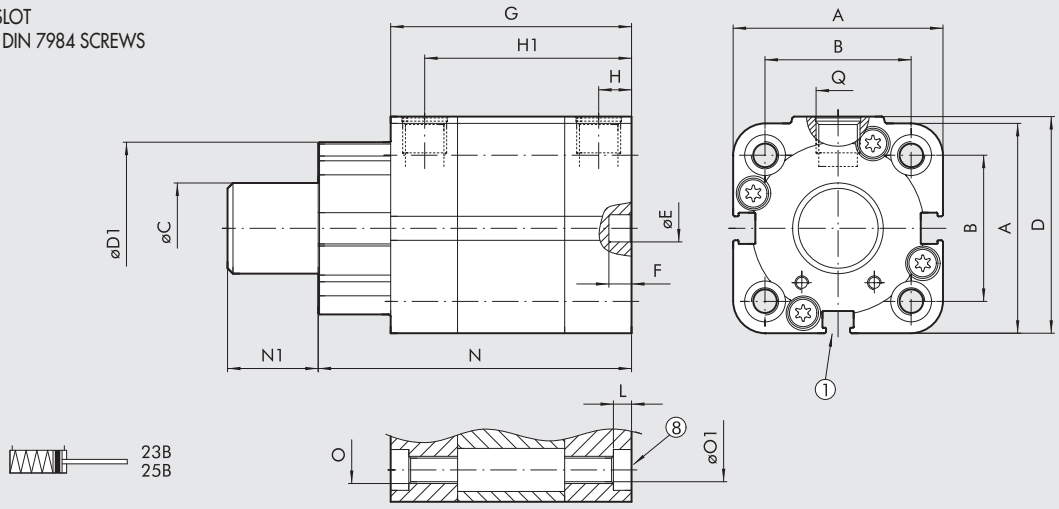
1 = SENSOR SLOT



Code	Description
23B0200015XP	Compact stopper cylinder, trunnion Ø 20, stroke 15
23BS200015XP	Compact stopper cylinder, trunnion Ø 20, stroke 15 (non-magnetic version)

Ø 32 STROKE 20 mm; Ø 50 STROKE 30 mm TRUNNION VERSION

1 = SENSOR SLOT
8 = SEAT FOR DIN 7984 SCREWS

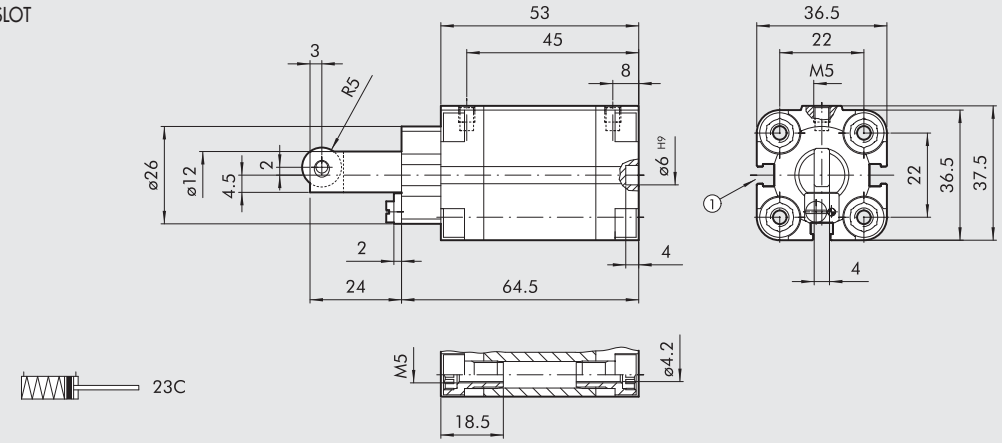


		B													O		ØO1		
Ø	**A**	**ISO**	**UNITOP**	**ØC**	**D**	**D1**	**ØE H9**	**F**	**G**	**H**	**H1**	**L**	**N**	**N1**	**ISO**	**UNITOP**	**ISO**	**UNITOP**	**Q**
32x20	47	32.5 $^{+0.1}_{-0.4}$	32 $^{+0.4}_{-0.1}$	20	48.5	38	6	4	64.5	7.5	57	4	80.5	20	M6	M6	5.2	5.2	G1/8
50x30	67	46.5	50	32	69	53	6	4	75.5	7.5	68	4.5	99.5	30	M8	M8	6.2	6.2	G1/8

Code	Description
23B0320020XP	Compact stopper cylinder, trunnion Ø 32, stroke 20 UNITOP
25B0320020XP	Compact stopper cylinder, trunnion Ø 32, stroke 20 ISO 15552
23BS320020XP	Compact stopper cylinder, trunnion Ø 32, stroke 20 UNITOP (non-magnetic version)
25BS320020XP	Compact stopper cylinder, trunnion Ø 32, stroke 20 ISO 15552 (non-magnetic version)
23B0500030XP	Compact stopper cylinder, trunnion Ø 50, stroke 30 UNITOP
25B0500030XP	Compact stopper cylinder, trunnion Ø 50, stroke 30 ISO 15552
23BS500030XP	Compact stopper cylinder, trunnion Ø 50, stroke 30 UNITOP (non-magnetic version)
25BS500030XP	Compact stopper cylinder, trunnion Ø 50, stroke 30 ISO 15552 (non-magnetic version)

Ø 20 STROKE 15 mm ROLLER VERSION

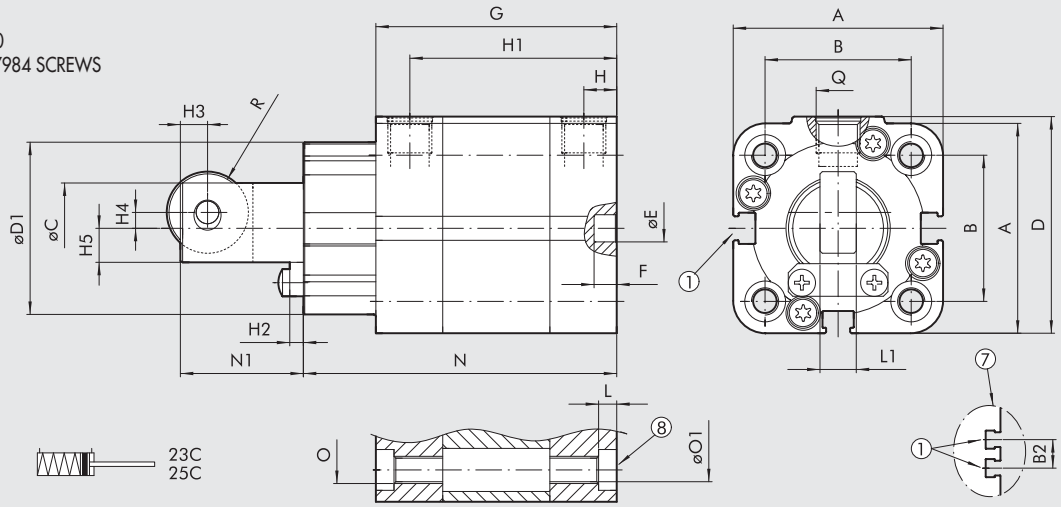
1 = SENSOR SLOT



Code	Description
23C0200015XP	Compact stopper cylinder, roller Ø 20, stroke 15
23CS200015XP	Compact stopper cylinder, roller Ø 20, stroke 15 (non-magnetic version)

Ø 32 STROKE 20 mm; Ø 50 STROKE 30 mm; Ø 80 STROKE 30 AND 40 mm ROLLER VERSION

1 = SENSOR SLOT
7 = ONLY FOR Ø 80
8 = SEAT FOR DIN 7984 SCREWS



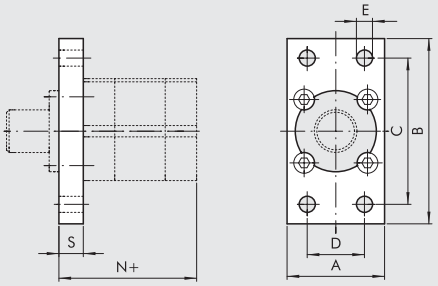
		B															O		ØO1							
Ø	**A**	**ISO**	**UNITOP**	**B2**	**ØC**	**D**	**D1**	**ØE H9**	**G**	**F**	**H**	**H1**	**H2**	**H3**	**H4**	**H5**	**ISO**	**UNITOP**	**ISO**	**UNITOP**	**L**	**L1**	**N**	**N1**	**Q**	**R**
32x20	47	32.5 +0.1 +0.4	32 +0.4 +0.1	-	20	48.5	38	6	64.5	4	7.5	57	3	6	3.5	7.5	M6	M6	5.2	5.2	4	8	80.5	38	G1/8	9
50x30	67	46.5	50	-	32	69	53	6	75.5	4	7.5	68	4	6	7	12	M8	M8	6.2	6.2	4.5	10	99.5	50.5	G1/8	12.5
80x30	102	72	82	17	50	105	76	8	126	4	8.5	117.5	8	10	11	18	M10	M10	8.5	8.5	5.5	18	141	63	G1/8	18
80x40	102	72	82	17	50	105	76	8	136	4	8.5	127.5	8	10	11	18	M10	M10	8.5	8.5	5.5	18	151	73	G1/8	18

Code	Description
23C0320020XP	Compact stopper cylinder, roller Ø 32, stroke 20 UNITOP
25C0320020XP	Compact stopper cylinder, roller Ø 32, stroke 20 ISO 15552
23CS320020XP	Compact stopper cylinder, roller Ø 32, stroke 20 UNITOP (non-magnetic version)
25CS320020XP	Compact stopper cylinder, roller Ø 32, stroke 20 ISO 15552 (non-magnetic version)
23C0500030XP	Compact stopper cylinder, roller Ø 50, stroke 30 UNITOP
25C0500030XP	Compact stopper cylinder, roller Ø 50, stroke 30 ISO 15552
23CS500030XP	Compact stopper cylinder, roller Ø 50, stroke 30 UNITOP (non-magnetic version)
25CS500030XP	Compact stopper cylinder, roller Ø 50, stroke 30 ISO 15552 (non-magnetic version)
23C0800030XP	Compact stopper cylinder, roller Ø 80, stroke 30 UNITOP
25C0800030XP	Compact stopper cylinder, roller Ø 80, stroke 30 ISO 15552
23CS800030XP	Compact stopper cylinder, roller Ø 80, stroke 30 UNITOP (non-magnetic version)
25CS800030XP	Compact stopper cylinder, roller Ø 80, stroke 30 ISO 15552 (non-magnetic version)
23C0800040XP	Compact stopper cylinder, roller Ø 80, stroke 40 UNITOP
25C0800040XP	Compact stopper cylinder, roller Ø 80, stroke 40 ISO 15552
23CS800040XP	Compact stopper cylinder, roller Ø 80, stroke 40 UNITOP (non-magnetic version)
25CS800040XP	Compact stopper cylinder, roller Ø 80, stroke 40 ISO 15552 (non-magnetic version)

ACCESSORIES FOR STOPPER CYLINDER

FLANGE Ø 32, Ø 50, Ø 80

+ = ADD THE STROKE



UNITOP

Code	Ø	A	B	C	D	E	N	S	Weight [g]
W0950326302	32	50	80	64	32	7	54.5	10	210
W0950506302	50	68	110	90	45	9	57.5	12	502
W0950806302	80	107	160	135	63	12	111	15	1575

ISO

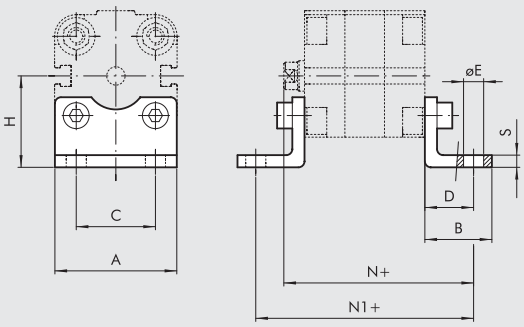
Code	Ø	A	B	C	D	E	N	S	Weight [g]
W0950326302	32	50	80	64	32	7	54.5	10	210
W0950506312	50	65	110	90	45	9	57.5	12	447
W0950806312	80	95	153	126	63	12	112	16	1190

Note: Supplied with 4 screws.

ACCESSORIES FOR COMPACT AND COMPACT TWO-FLAT CYLINDERS

FOOT - MODEL A

+ = ADD THE STROKE



CMPC UNITOP, TWO-FLAT UNITOP

Code	Ø	A	B	C	D	ØE	H	N	N1	S	Weight [g]
W0950126001 ▲	12	30	17.5	18	13	5.5	22	55.5	64	3	26
W0950126001 ▲	16	30	17.5	18	13	5.5	22	55.5	64	3	26
W0950206001	20	36	22	22	16	6.6	27	58.5	70	4	46
W0950256001	25	40	22	26	16	6.6	30	58.5	71.5	4	52
W0950322001	32	45	35	32	24	7	31.9	74.5	92.5	4	76
W0950406001	40	60	28	42	20	9	42.5	72	85.5	5	88
W0950406001F ✱	40	60	28	42	20	9	42.5	72	85.5	5	88
W0950506001	50	68	32	50	24	9	47	77	93.5	6	176
W0950506001F ✱	50	68	32	50	24	9	47	77	93.5	6	176
W0950636001	63	84	39	62	27	11	59.5	84.5	104	6	276
W0950636001F ✱	63	84	39	62	27	11	59.5	84.5	104	6	276
W0950806001	80	102	42	82	30	11	65.5	94	116	8	392
W0951006001	100	123	45	103	33	13.5	78	109.5	132.5	8	558

✱ Only for Two-Flat version

CMPC ISO, TWO-FLAT ISO

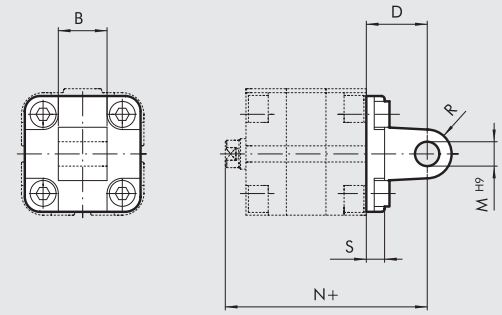
Code	Ø	A	B	C	D	ØE	H	N	N1	S	Weight [g]
W0950322001	32	45	35	32	24	7	31.9	74.5	92.5	4	76
W0950402001	40	52	43	36	28	9	36	80	101.5	4	100
W0950502001	50	65	47	45	32	9	45	85	109.5	4	162
W0950632001	63	75	47	50	32	9	50	89.5	114	6	266
W0950802001	80	95	61	63	41	12	63	105	138	6	456
W0951002001	100	115	65	75	41	14	71	117.5	148.5	6	572

Note: Individually packed with 2 screws.

▲ Non UNITOP norm fixing distance

MALE HINGE-MODEL BA

+ = ADD THE STROKE



CMPC UNITOP, TWO-FLAT UNITOP

Code	Ø	B	D	M	N	R	S	Weight [g]
W0950126004 ▲	12	12	16	6	58.5	6	6	24
W0950126004 ▲	16	12	16	6	58.5	6	6	24
W0950206004	20	16	20	8	62.5	8	8	44
W0950256004	25	16	20	8	62.5	8	8	48

CMPC ISO, TWO-FLAT ISO

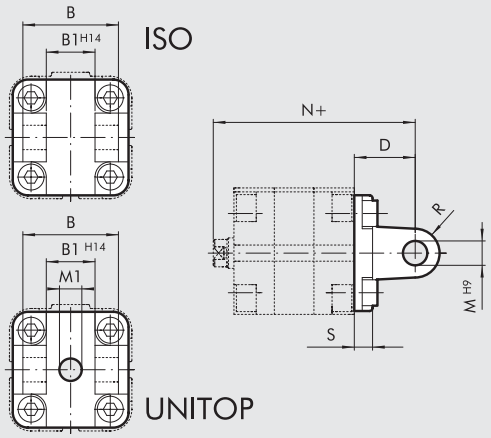
Code	Ø	B	D	M	N	R	S	Weight [g]
W0950322004	32	26	22	10	72.5	11	10	94
W0950402004	40	28	25	12	77	13	10	124
W0950502004	50	32	27	12	80	13	12	220
W0950632004	63	40	32	16	89.5	17	12	316
W0950802004	80	50	36	16	100	17	16	578
W0951002004	100	60	41	20	117.5	21	16	850

Note: Supplied with 4 screws, 4 washers

▲ Non UNITOP norm fixing distance

FEMALE HINGE-MODEL B

+ = ADD THE STROKE



CMPC UNITOP, TWO-FLAT UNITOP

Code	Ø	B	B1	D	M	M1	N	R	S	Weight [g]
W0950322003	32	45	26	22	10	14	72.5	11	10	116
W0950406003	40	52	28	25	12	14	77	12.5	9	184
W0950506003	50	60	32	27	12	18	80	12.5	11	266
W0950636003	63	70	40	32	16	-	89.5	15	11	470
W0950806003	80	90	50	36	16	23	100	15	13	670
W0951006003	100	110	60	41	20	28	117.5	20	15	1110

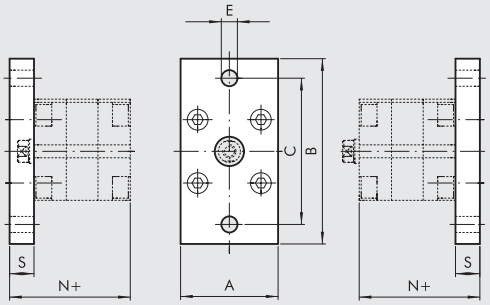
CMPC ISO, TWO-FLAT ISO

Code	Ø	B	B1	D	M	N	R	S	Weight [g]
W0950322003	32	45	26	22	10	72.5	11	10	116
W0950402003	40	52	28	25	12	77	13	10	160
W0950502003	50	60	32	27	12	80	13	12	252
W0950632003	63	70	40	32	16	89.5	17	12	394
W0950802003	80	90	50	36	16	100	17	16	670
W0951002003	100	110	60	41	23	117.5	21	16	1085

Note: Supplied with 4 screws, 4 washers, 2 snap-rings and 1 pin.

FLANGE Ø 12 to 25 - MODEL C (FRONT AND REAR)

+ = ADD THE STROKE



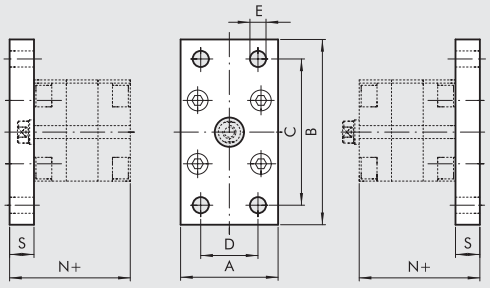
CMPC

Code	Ø	A	B	C	E	N	S	Weight [g]
W0950126002 ▲	12	29	55	43	5.5	48	10	112
W0950126002 ▲	16	29	55	43	5.5	48	10	112
W0950206002	20	36	70	55	6.6	48	10	184
W0950256002	25	40	76	60	6.6	49.5	10	226

Note: Supplied with 4 screws
▲ Non UNITOP norm fixing distance

FLANGE Ø 32 to 100 - MODEL C (FRONT AND REAR)

+ = ADD THE STROKE



CMPC UNITOP

Code	Ø	A	B	C	D	E	N	S	Weight [g]
W0950322002	32	50	80	64	32	7	54.5	10	246
W0950406002	40	60	102	82	36	9	55.5	10	454
W0950506002	50	68	110	90	45	9	57.5	12	655
W0950636002	63	87	130	110	50	9	65	15	1255
W0950806002	80	107	160	135	63	12	71	15	1900
W0951006002	100	128	190	163	75	14	81.5	15	2700

TWO-FLAT UNITOP

Code	Ø	A	B	C	D	E	N	S	Weight [g]
W0950322002	32	50	80	64	32	7	54.5	10	246
W0950406002F	40	60	102	82	36	9	55.5	10	454
W0950506002F	50	68	110	90	45	9	57.5	12	655
W0950636002F	63	87	130	110	50	9	65	15	1255
W0950806002F	80	107	160	135	63	12	71	15	1900

CMPC ISO, TWO-FLAT ISO

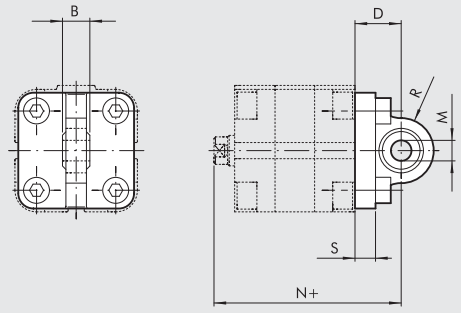
Code	Ø	A	B	C	D	E	N	S	Weight [g]
W0950322002	32	50	80	64	32	7	54.5	10	246
W0950402002	40	55	90	72	36	9	55.5	10	290
W0950502002	50	65	110	90	45	9	57.5	12	522
W0950632002	63	75	120	100	50	9	62	12	670
W0950802002	80	95	153	126	63	12	72	16	1420
W0951002002	100	115	178	150	75	14	82.5	16	2040

Note: Supplied with 4 screws

METAL WORK PNEUMATIC

ARTICULATED MALE HINGE - MODEL BAS

+ = ADD THE STROKE

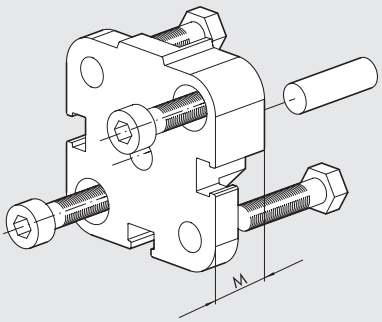


CMPC ISO, TWO-FLAT ISO

Code	Ø	B	D	M	N	R	S	Weight [g]
W0950322006	32	14	22	10	72.5	16	10	106
W0950402006	40	16	25	12	77	18	10	142
W0950502006	50	16	27	12	80	21	12	236
W0950632006	63	21	32	16	89.5	23	12	336
W0950802006	80	21	36	16	100	28	16	572
W0951002006	100	25	41	20	117.5	30	16	840

Note: Supplied with 4 screws, 4 washers

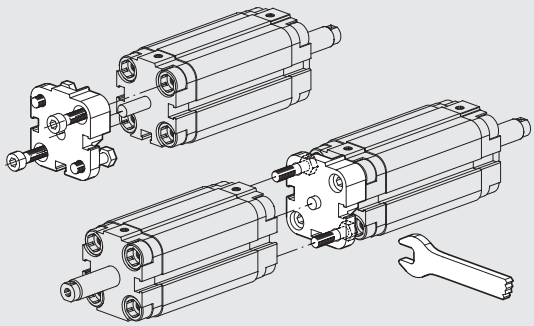
FLANGE FOR OPPOSITE CYLINDERS



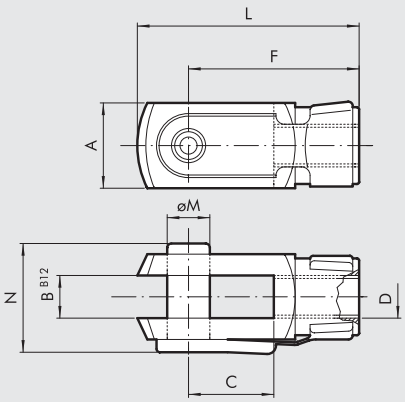
CMPC UNITOP Code	CMPC ISO Code	Ø	M	Weight [g] UNITOP	ISO
0950123060 ▲	–	12	12.5	29	–
0950123060 ▲	–	16	12.5	29	–
0950203060	–	20	12.5	45	–
0950253060	–	25	13	57	–
0950323060	0950323060	32	14.5	88	88
0950403060	0950403061	40	14.5	106	106
0950503060	0950503061	50	14.5	172	158
0950633060	0950633061	63	14.5	274	258
0950803060	0950803061	80	16.5	470	452
0951003060	0951003061	100	19.5	826	801

Note: Supplied complete with 1 pin, 4 screws
▲ Non UNITOP norm fixing distance

ASSEMBLING OPPOSING CYLINDERS



FORK - MODEL GK-M

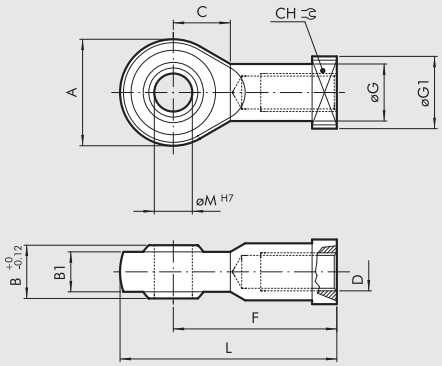


CMPC UNITOP AND ISO, TWO-FLAT UNITOP AND ISO

Code	Ø	A	B	C	D	F	L	ØM	N	Weight [g]
W0950120020	12	12	6	12	M6	24	31	6	16	20
W0950200020	16	16	8	16	M8	32	42	8	22	48
W0950322020	20	20	10	20	M10x1.25	40	52	10	26	92
W0950322020	25	20	10	20	M10x1.25	40	52	10	26	92
W0950322020	32	20	10	20	M10x1.25	40	52	10	26	92
W0950322020	40	20	10	20	M10x1.25	40	52	10	26	92
W0950402020	50	24	12	24	M12x1.25	48	62	12	32	148
W0950402020	63	24	12	24	M12x1.25	48	62	12	32	148
W0950502020	80	32	16	32	M16x1.5	64	83	16	40	340
W0950802020	100	40	20	40	M20x1.5	80	105	20	48	690

Note: Individually packed

ROD EYE - MODEL GA-M

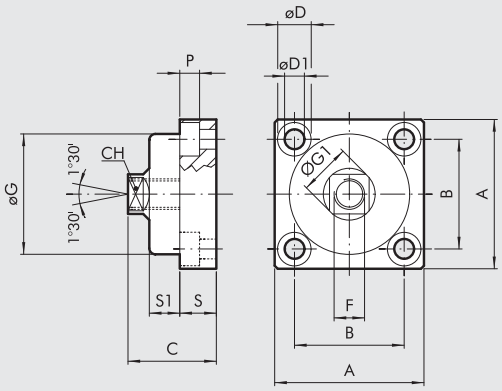


CMPC UNITOP AND ISO, TWO-FLAT UNITOP AND ISO

Code	Ø	A	B	B1	C	CH	D	F	ØG	ØG1	L	ØM	Weight [g]
W0950120025	12	20	9	6.75	11	11	M6	30	10	13	40	6	28
W0950200025	16	24	12	9	13	14	M8	36	12.5	16	48	8	50
W0950322025	20	28	14	10.5	15	17	M10x1.25	43	15	19	57	10	78
W0950322025	25	28	14	10.5	15	17	M10x1.25	43	15	19	57	10	78
W0950322025	32	28	14	10.5	15	17	M10x1.25	43	15	19	57	10	78
W0950322025	40	28	14	10.5	15	17	M10x1.25	43	15	19	57	10	78
W0950402025	50	32	16	12	17	19	M12x1.25	50	17.5	22	66	12	116
W0950402025	63	32	16	12	17	19	M12x1.25	50	17.5	22	66	12	116
W0950502025	80	42	21	15	23	22	M16x1.5	64	22	27	85	16	226
W0950802025	100	50	25	18	27	30	M20x1.5	77	27.5	34	102	20	404

Note: Individually packed.

COMPENSATION JOINT - MODEL GA

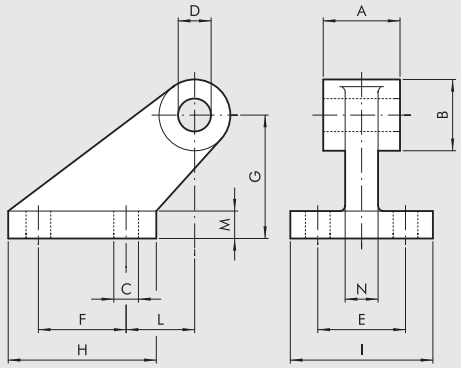


CMPC UNITOP, ISO, TWO-FLAT

Code	Ø	A	B	C	CH	ØD	ØD1	F	ØG	ØG1	P	S	S1	Weight [g]
W0950326021	20	49	36	30	13	11	6.5	M10x1.25	39.5	17	6.5	12	10	172
W0950326021	25	49	36	30	13	11	6.5	M10x1.25	39.5	17	6.5	12	10	172
W0950326021	32	49	36	30	13	11	6.5	M10x1.25	39.5	17	6.5	12	10	172
W0950326021	40	49	36	30	13	11	6.5	M10x1.25	39.5	17	6.5	12	10	172
W0950406021	50	59	42	36	15	14	8.5	M12x.125	44	19	8.5	15	13.5	286
W0950406021	63	59	42	36	15	14	8.5	M12x1.25	44	19	8.5	15	13.5	286
W0950506021	80	79	58	44	22	17	10.5	M16x1.5	59	26	10.5	20	15	628
W0950806021	100	89	65	51	27	19	12.5	M20x1.5	69	31	12.5	20	20	1200

Note: Individually packed.

COUNTER-HINGE CETOP Ø 32 to 100

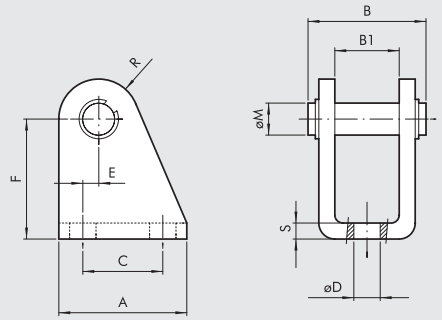


CMPC UNITOP AND ISO, TWO-FLAT UNITOP AND ISO

Code	Ø	A	B	C	D	E	F	G	H	I	L	M	N	Weight [g]
W0950322008	32	26	19	7	10	25	20	32	37	41	18	8	10	96
W0950402008	40	28	26	9	12	32	32	45	54	52	25	10	12	216
W0950502008	50	32	26	9	12	32	32	45	54	52	25	10	12	212
W0950632008	63	40	33	11	16	40	50	63	75	63	32	12	15	440
W0950802008	80	50	33	11	16	40	50	63	75	63	32	12	15	464
W0951002008	100	60	44	14	20	50	70	90	103	80	40	16	22	985

Note: Supplied complete with 4 screws, 4 washers

COUNTER-HINGE Ø 12 to 25 - MODEL BC



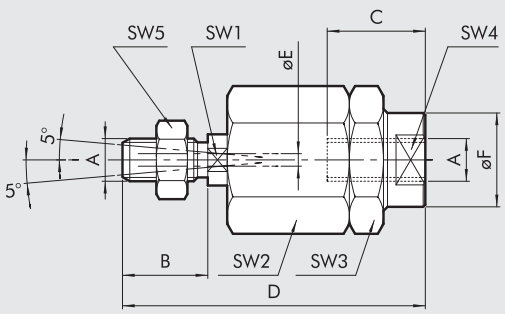
CMPC UNITOP

Code	Ø	A	B	B1	C	ØD	E	F	ØM	R	S	Weight [g]
W0950120005	12	25	25	12	15	5.5	2	27	6	7	3	40
W0950120005	16	25	25	12	15	5.5	2	27	6	7	3	40
W0950200005	20	32	30	16	20	6.5	4	30	8	10	4	78
W0950200005	25	32	30	16	20	6.5	4	30	8	10	4	78

Note: Supplied complete with 1 pin and and 2 snap rings

METAL WORK PNEUMATIC

SELF ALIGNING ROD COUPLER - MODEL GA-K



CMPC UNITOP, ISO, TWO-FLAT UNITOP E ISO

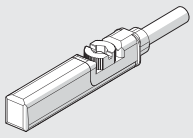
Code	Ø	A	B	C	D	ØE	ØF	SW1	SW2	SW3	SW4	SW5	Weight [g]
W0950120030	**12**	M6	10	10	35	2	8.5	5	13	13	7	10	24
W0950200030	**16**	M8	20	20	57	4	12.5	7	17	17	11	13	56
W0950322030	**20**	M10x1.25	20	20	71	4	22	12	30	30	19	17	216
W0950322030	**25**	M10x1.25	20	20	71	4	22	12	30	30	19	17	216
W0950322030	**32**	M10x1.25	20	20	71	4	22	12	30	30	19	17	216
W0950322030	**40**	M10x1.25	20	20	71	4	22	12	30	30	19	17	216
W0950402030	**50**	M12x1.25	24	20	75	4	22	12	30	30	19	19	220
W0950402030	**63**	M12x1.25	24	20	75	4	22	12	30	30	19	19	220
W0950502030	**80**	M16x1.5	32	32	103	4	32	20	41	41	30	24	620
W0950802030	**100**	M20x1.5	40	40	119	4	32	20	41	41	30	30	680

Note: Individually packed.

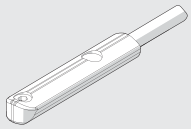
RETRACTABLE SENSOR

For codes and technical data, see **chapter A6**.

SENSOR, SQUARE TYPE
Latest generation,
secure fixing

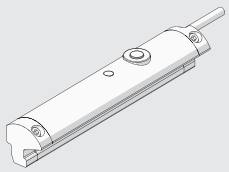


SENSOR, OVAL TYPE
Traditional



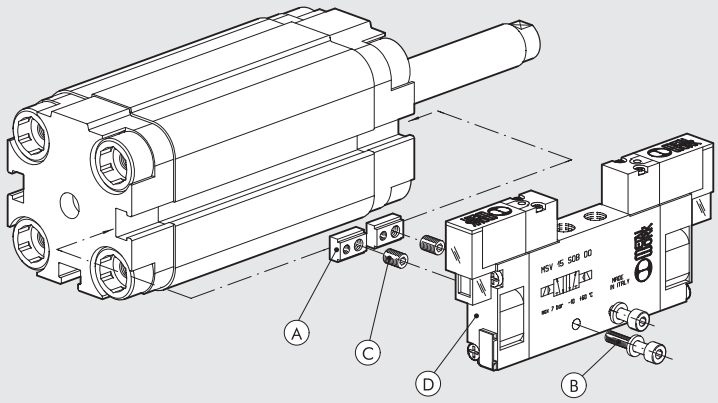
LTS POSITION SENSORS

For technical data and usage strokes see **chapter A6**.



VALVE ASSEMBLY ON CYLINDER

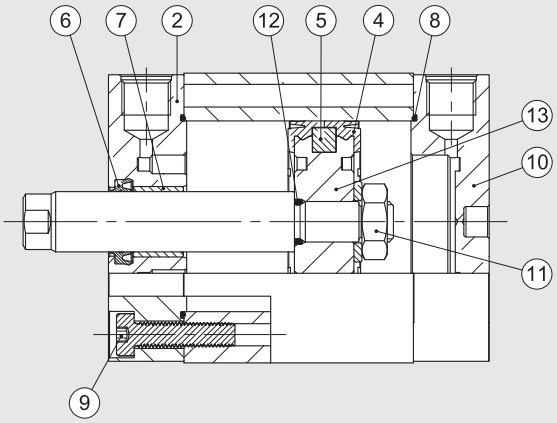
With this type of cylinder, the valves (D) can be mounted directly using the retracting sensor slot, without requiring the use of intermediate brackets.This can be done using the special plates (A) which come with both M3 and M4 threads, and screws (B) of the size, type and quantity shown in the table below.
The plates are supplied complete with 2 stud pins, one M3 and one M4 (C).
After the valve centre distance and the position of the valve have been determined, the plates can be secured to the cylinder.
A "position memory" will be created to facilitate subsequent maintenance on the valve.



Type of valve to mount (D)	Fixing plate (A) CODE 0950003000	Position memory: grub screw (C) to be used	Screw (B) for connection to the cylinder (one per plate)	Washer (B) (one per screw)
MINIMACH	n° 2	M4	M3x16 UNI 5931 (DIN 912)	A3.2 UNI 1751 (DIN 127A)
MACH 11	n° 2	M4	M3x16 UNI 5931 (DIN 912)	A3.2 UNI 1751 (DIN 127A)
SERIE 70 1/8	n° 2	M3	M4x25 UNI 5931 (DIN 912)	–
SERIE 70 1/4	n° 2	M3	M4x30 UNI 5931 (DIN 912)	A4.3 UNI 1751 (DIN 127A)

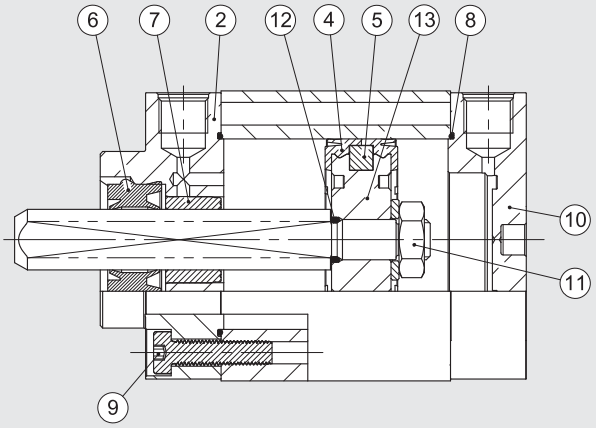
SPARE PARTS

COMPACT CYLINDERS, SERIES CMPC



Code	Bores	Type	Parts
009 . . . 7001	Ø 12 to 100	Complete set of gaskets polyurethane	④⑥⑧
009 . . . 7008	Ø 20 to 100	Complete set of (high temperature) FKM/FPM gaskets	④⑥⑧
009 . . . 7013	Ø 12 to 100	Polyurethane piston rod gasket kit	⑥
009 . . . 7014	Ø 20 to 100	FKM/FPM piston rod gasket kit	⑥
009 . . . 7101	Ø 12 to 100	Front cylinder head kit for UNITOP polyurethane	②⑦⑥⑧⑨
0090327101	Ø 32	Front cylinder head kit for ISO Ø 32 polyurethane	②⑦⑥⑧⑨
009 . . . 8101	Ø 40 to 100	Front cylinder head kit for ISO polyurethane	②⑦⑥⑧⑨
009 . . . 7201	Ø 12 to 100	Rear cylinder head kit for UNITOP polyurethane	⑧⑨⑩
0090327201	Ø 32	Rear cylinder head kit for ISO Ø 32 polyurethane	⑧⑨⑩
009 . . . 8201	Ø 40 to 100	Rear cylinder head kit for ISO polyurethane	⑧⑨⑩
009 . . . 7401	Ø 12 to 100	Piston kit polyurethane	④⑤⑪⑫⑬
009 . . . 7501	Ø 12 to 100	Magnet	⑤
009 . . . 7901	Ø 12 to 100	Front + rear cylinder head + piston kit for UNITOP polyurethane	②④⑤⑥⑦⑧⑨⑩⑪⑫⑬
0090327901	Ø 32	Front + rear cylinder head + piston kit for ISO Ø 32 polyurethane	②④⑤⑥⑦⑧⑨⑩⑪⑫⑬
009 . . . 8901	Ø 40 to 100	Front + rear cylinder head + piston kit for ISO polyurethane	②④⑤⑥⑦⑧⑨⑩⑪⑫⑬

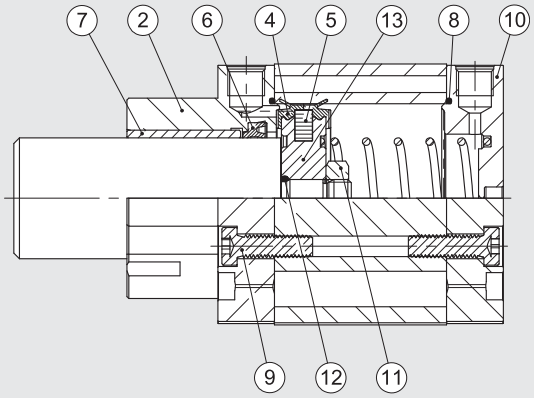
COMPACT CYLINDERS, SERIES CMPC TWO-FLAT



Code	Bores	Type	Parts
009 . . . 7001F	Ø 32 to 80	Set of gaskets	④⑧⑫
009 . . . 7101F	Ø 40 to 80	Front cylinder head kit for UNITOP	②⑦⑥⑧⑨
0090327101F	Ø 32	Front cylinder head kit for ISO Ø 32	②⑦⑥⑧⑨
009 . . . 8101F	Ø 40 to 80	Front cylinder head kit for ISO	②⑦⑥⑧⑨
009 . . . 7201	Ø 40 to 80	Rear cylinder head kit for UNITOP	⑧⑨⑩
0090327201	Ø 32	Rear cylinder head kit for ISO Ø 32	⑧⑨⑩
009 . . . 8201	Ø 40 to 80	Rear cylinder head kit for ISO	⑧⑨⑩
009 . . . 7401	Ø 32 to 80	Piston kit	④⑤⑪⑫⑨⑬
009 . . . 7501	Ø 32 to 80	Magnet	⑤
009 . . . 7901F	Ø 40 to 80	Front + rear cylinder head + piston kit for UNITOP	②④⑤⑥⑦⑧⑨⑩⑪⑫⑬
0090327901F	Ø 32	Front + rear cylinder head + piston kit for ISO Ø 32	②④⑤⑥⑦⑧⑨⑩⑪⑫⑬
009 . . . 8901F	Ø 40 to 80	Front + rear cylinder head + piston kit for ISO	②④⑤⑥⑦⑧⑨⑩⑪⑫⑬

METAL WORK PNEUMATIC

COMPACT CYLINDERS, STOPPER



Code	Bores	Type	Parts
009 . . . 7060	Ø 20; 32; 50; 80	Complete set of gaskets	④⑥⑧
009 . . . 7160	Ø 20; 32; 50; 80	Front cylinder head kit for UNITOP	②⑦⑥⑧⑨
0090327160	Ø 32	Front cylinder head kit for ISO Ø 32	②⑦⑥⑧⑨
009 . . . 8160	Ø 50; 80	Front cylinder head kit for ISO	②⑦⑥⑧⑨
009 . . . 7201	Ø 20; 32	Rear cylinder head kit for UNITOP Ø 20 - Ø 32	⑧⑨⑩
009 . . . 7260	Ø 50; 80	Rear cylinder head kit for UNITOP	⑧⑨⑩
0090327201	Ø 32	Rear cylinder head kit for ISO Ø 32	⑧⑨⑩
009 . . . 8260	Ø 50; 80	Rear cylinder head kit for ISO	⑧⑨⑩
0090207401	Ø 20	Piston kit Ø 20	④⑤⑪
009 . . . 7460	Ø 32; 50; 80	Piston kit	④⑤⑪⑫⑬
009 . . . 7501	Ø 20; 32; 50; 80	Magnet	⑤
009 . . . 7960	Ø 20; 32; 50; 80	Front + rear cylinder head + piston kit for UNITOP	②④⑤⑥⑦⑧⑨⑩⑪⑫⑬
0090327960	Ø 32	Front + rear cylinder head + piston kit for ISO Ø 32	②④⑤⑥⑦⑧⑨⑩⑪⑫⑬
009. . . 8960	Ø 50; 80	Front + rear cylinder head + piston kit for ISO	②④⑤⑥⑦⑧⑨⑩⑪⑫⑬

NOTES