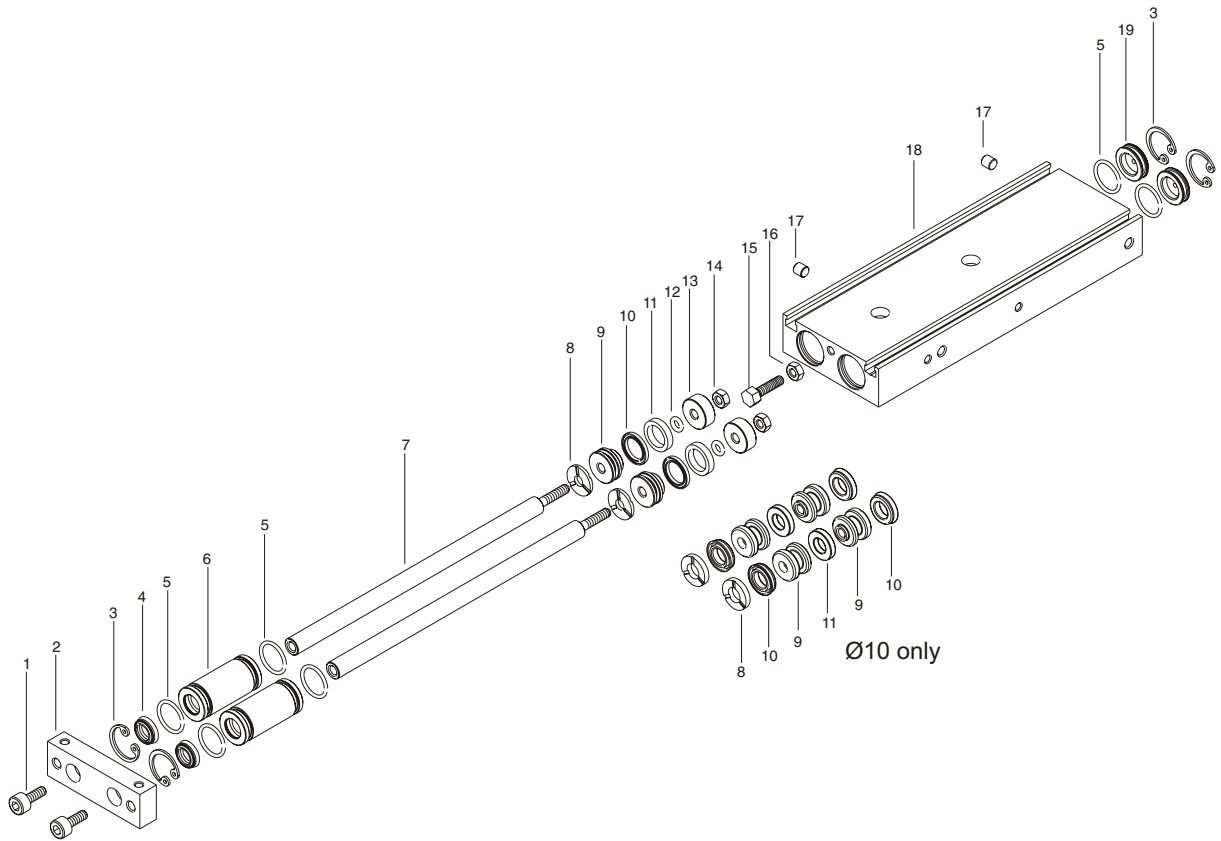




PNEUMATIC SLIDE UNITS

	Page
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Push/pull twin rod slide units	
Component descriptions	2.7
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Operating conditions	2.11-2.12
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Pos.	Item	Qty.	Pos.	Item	Qty.
1	Rods screw	2	11	Magnet	1
2	Plate	1	12	Seal	2
3	Circlip	4	13	Spacer	4*
4	Piston rod seal	2	14	Piston nut	1
5	Seal	4	15	Adjusting bolt	1
6	Bush	2	16	stop nut	2
7	Rod	2	17	Plug	1
8	Cushioning washer	2	18	Body	2
9	Piston	*	19	End plate	4**
10	Piston seal	*			
* n. 4 for bore Ø 10, n.2 for all other bores			** not in bore Ø 10, n.2 for all other bores		



Ordering code

6200.Ø.stroke.
 10
 15
 20
 25
 32

B = Control unit with bronze bush
 C = Control unit with bearing bush

Magnetic sensors: see page.2.13

Construction characteristics

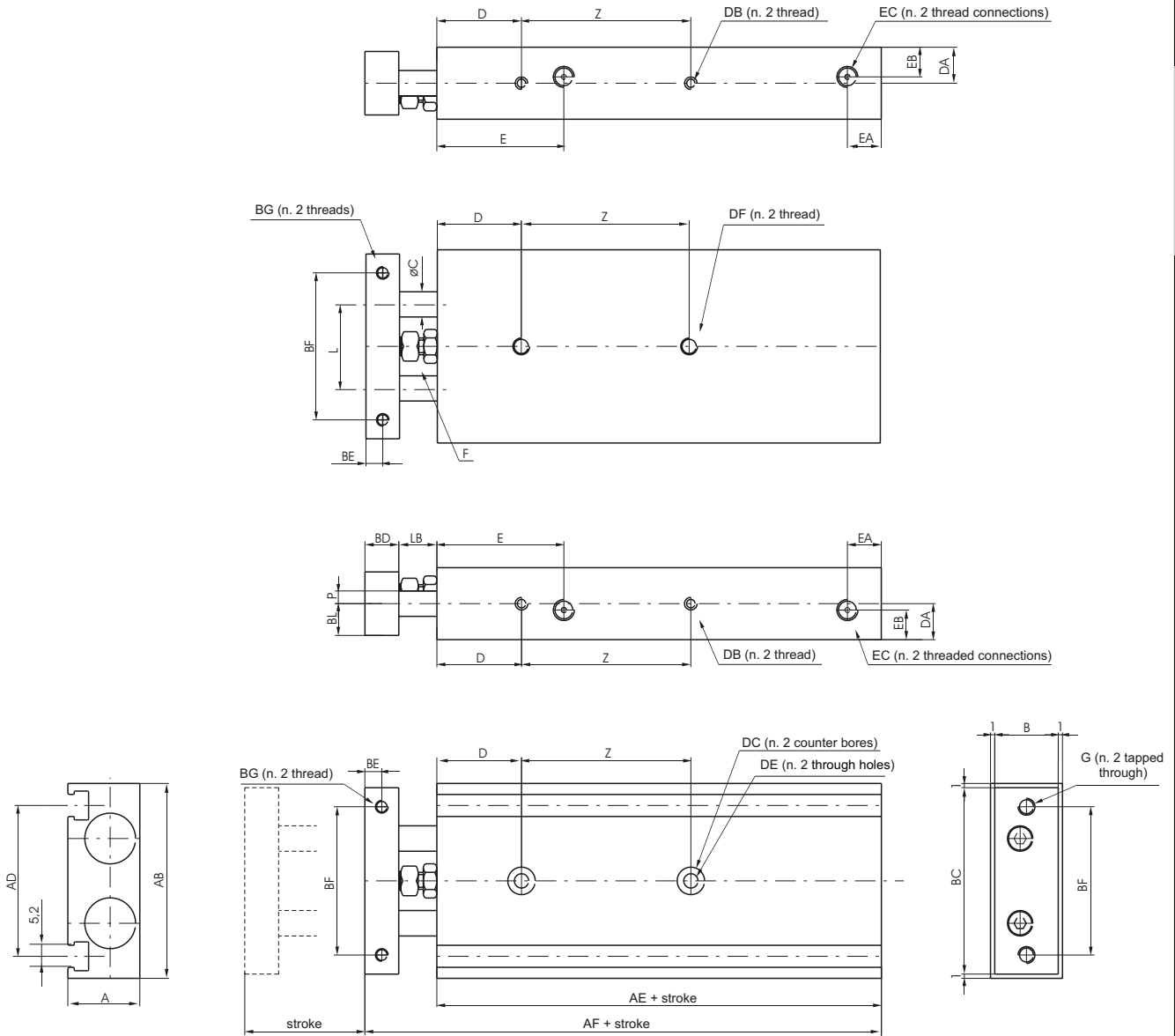
Body	oxidated aluminium alloy
Rods	C43 chromed steel (control unit with Bronze bush) tempered and chromed steel (control unit with Bearing bush)
Piston	aluminium
Rod bushing	brass
End plate	oxidated aluminium
Piston seal	oil resistant NBR rubber
Piston rod seal	self lubricating polyurethane compound
Plate	oxidated aluminium

Technical characteristics

Function	double acting
Fluid	filtered and lubricated or non lubricated air
Max. pressure	7 bar
Working temperature	-5°C ÷ +70°C
Cushioning	elastic bumper

Standard strokes

Bore	Stroke (mm)														
	10	15	20	25	30	35	40	45	50	60	70	75	80	90	100
Ø10	•	•	•	•	•	•	•	•	•	•	•	•			
Ø15	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Ø20	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Ø25	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Ø32	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•



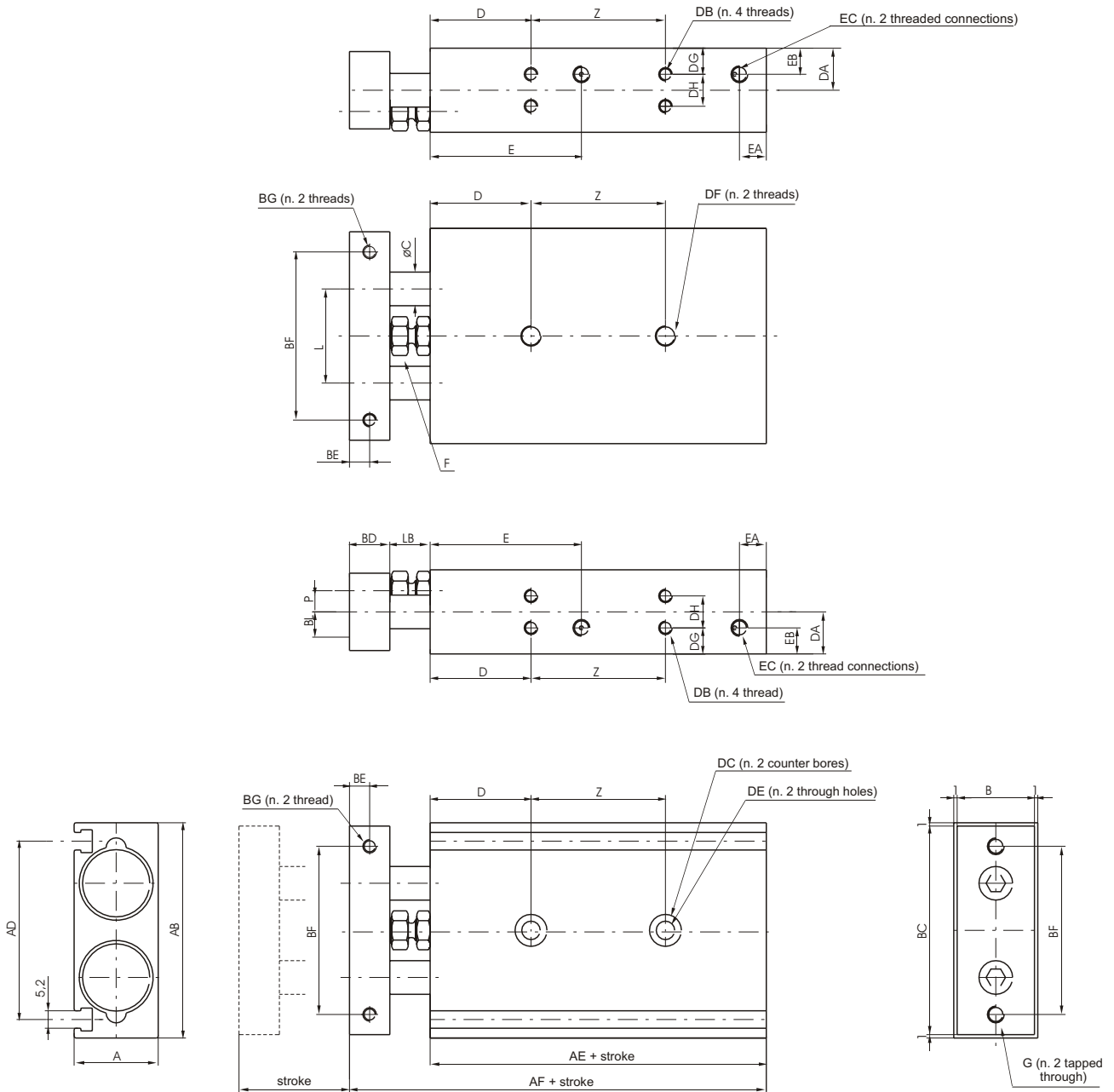
Bore	A	AB	AD	AE	AF	B	BC	BD	BE	BF	BG	BL	C	D	DA	DB	DC	DE
10	17	46	33,6	55	72	15	44	8	4	35	M3x0,5 (depth 5)	6	6	20	7	M3x0,5 (depth 4,5)	6,5 (depth 3,3)	3,4
15	20	58	48	60	79	18	56	10	5	45	M4x0,7 (depth 6)	9	8	30	10	M4x0,7 (depth 5)	8 (depth 4,4)	4,3

Bore	DF	E	EA	EB	EC	F	G	L	LB	P	Z				
10	M4x0,7 (depth 7)	30	8	7	M5x0,8 (depth 4,5)	M4x0,7	M4x0,7	20	9	4,7	30	40	50	-	-
15	M5x0,8 (depth 8)	38,5	8	10	M5x0,8 (depth 4,5)	M4x0,7	M5x0,8	25	9	5	25	35	45	55	
											10-15	30-35	60-70	80	90-100
											20-25	40-45	75		
											stroke				



Twin rod slides units
Operating instructions $\varnothing 20 - \varnothing 25 - \varnothing 32$

Series 6200



Bore	A	AB	AD	AE	AF	B	BC	BD	BE	BF	BG	BL	C	D	DA	DB	DC	DE
20	25	64	53	70	94	23	62	12	6	50	M4x0,7 (depth6)	11,5	10	30	12,5	M4x0,7 (depth6)	9,5 (d ept h 5,3)	5,5
25	30	80	64	72	96	28	78	12	6	60	M5x0,8 (d ept h 7,5)	14	12	30	15	M5x0,8 (d ept h 7,5)	11 (depth6,3)	6,9
32	38	98	76	82	112	36	96	16	8	75	M5x0,8 (depth8)	18	16	30	19	M5x0,8 (d ept h 7,5)	11 (depth6,3)	6,9

Bore	DF	DG	DH	E	EA	EB	EC	F	G	L	LB	P	Z			
20	M6x1 (depth 10)	7,75	9,5	45	8	7,8	M5x0,8 (depth4,5)	M6x1	M5x0,8	28	12	6,3	30	40	60	
25	M8x1,25 (depth 12)	8,5	13	46	9	15	G1/8 (depth6,5)	M6x1	M6x1	35	12	8,3	30	40	60	
32	M8x1,25 (depth 12)	9	20	56	10	19	G1/8 (depth6,5)	M8x1,25	M6x1	44	14	12	40	50	70	
													10-15	30-35	60-70	90-
													20-25	40-45	75	100
													stroke			



Theoretical cylinder force

Bore		Force (N)							
		1	1,5	2	3	4	5	6	7
Ø10	Out	16	23,5	31,5	47	63	78,5	94	110
	In	10	15	20	30	40	50	60	70
Ø15	Out	35,5	53	70,5	106	141	176,5	212	247
	In	25	38	50,5	75,5	101	126	151	176,5
Ø20	Out	63	94	126	189	251	314	377	440
	In	47	62,5	94	141	188	236	283	330
Ø25	Out	98	148	197	295	393	491	589	688
	In	75,5	114	151	227	303	378	454	529
Ø32	Out	161	241	322	483	643	804	965	1126
	In	121	181	241	362	483	603	724	844
		Working pressure (bar)							

Weights

Control unit with bronze bush

Bore	Weight (gr.)													
	10	15	20	25	30	35	40	45	50	60	70	75	80	90
Ø10	150	160	170	180	190	200	210	220	230	250	270	280		
Ø15	250	265	280	290	300	315	330	345	360	390	420	435	450	480
Ø20	400	420	440	460	480	495	510	530	550	585	620	640	660	700
Ø25	610	635	660	690	720	745	770	800	830	890	950	970	995	1060
Ø32	1150	1190	1230	1275	1320	1360	1400	1450	1490	1580	1665	1710	1755	1840
	Stroke													

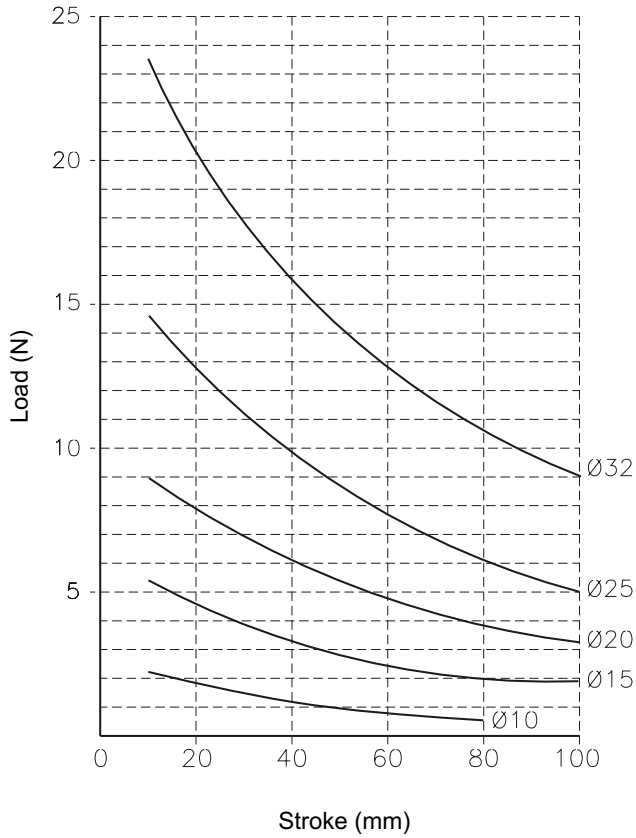
Control unit with bearing bush

Bore	Weight (gr.)													
	10	15	20	25	30	35	40	45	50	60	70	75	80	90
Ø10	160	165	170	180	190	200	210	220	230	250	270	280		
Ø15	270	285	300	310	320	335	350	365	380	410	440	455	470	500
Ø20	430	445	460	480	500	515	530	550	570	605	640	660	680	715
Ø25	620	645	670	700	730	755	780	810	840	895	955	980	1005	1065
Ø32	1160	1205	1250	1295	1340	1380	1420	1465	1510	1595	1680	1720	1765	1855
	Stroke													

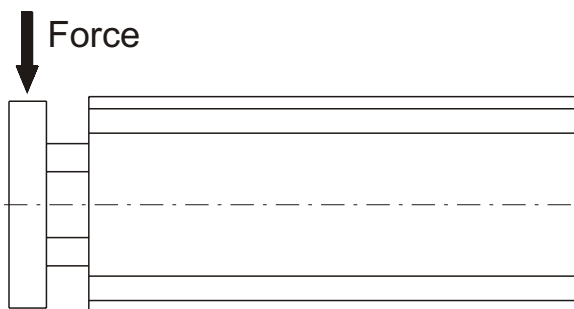
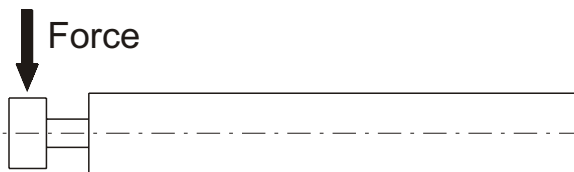
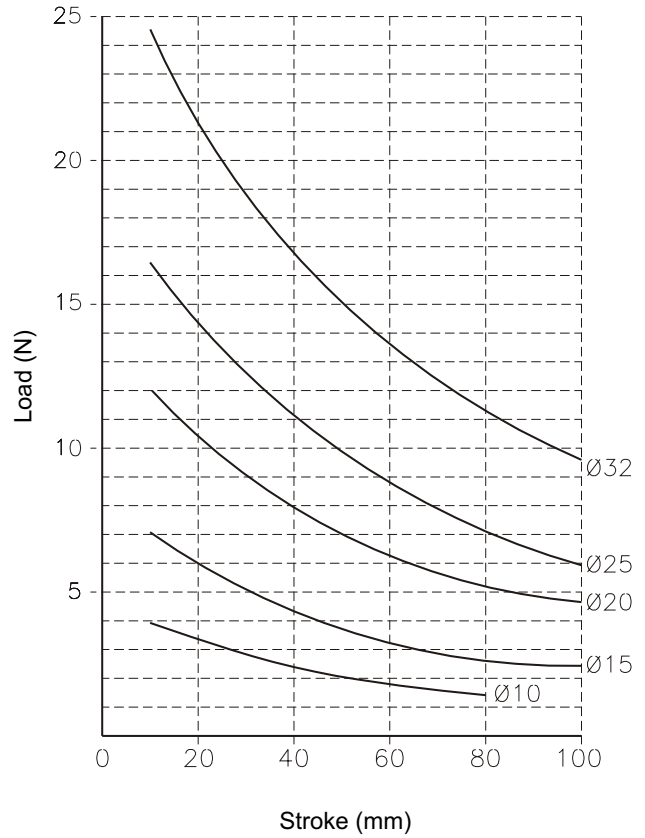


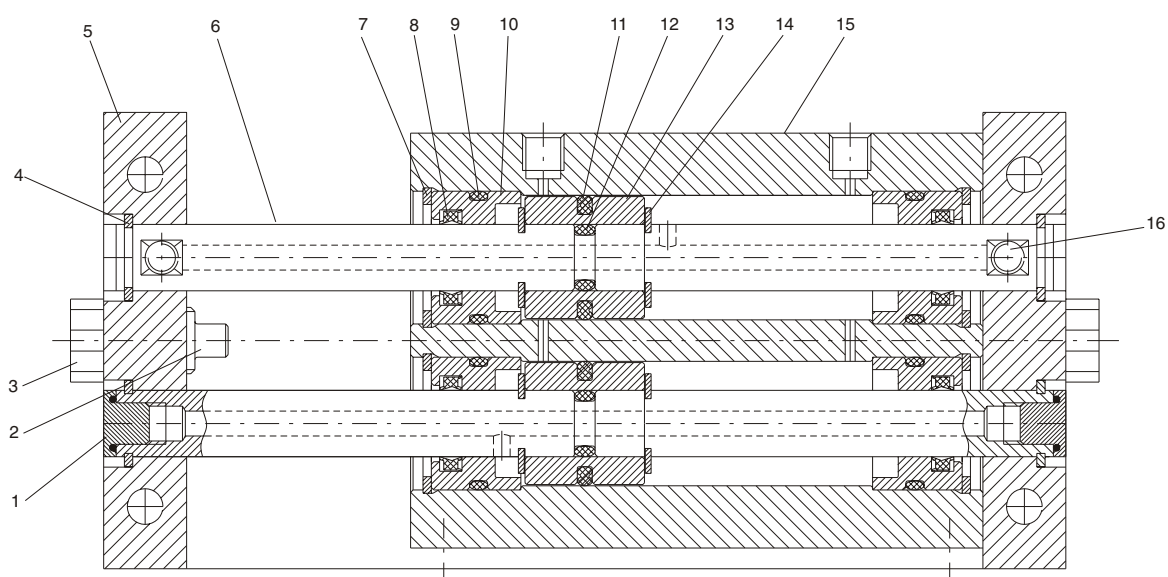
Permissible loads

Control unit with bronze bush



Control unit with bearing bush





Pos.	Item	Qty.	Pos.	Item	Qty.
1	plug	4	9	bush seal	4
2	stroke adjuster	2	10	bushing	4
3	lock nut	2	11	piston seal	2
4	circlip	4	12	seal	2
5	plate	2	13	piston	2
6	piston rod	2	14	piston cushion washer	4
7	bush cushion washer	4	15	body	1
8	piston rod seal	4	16	rod stop screw	4



Ordering code

6210.Ø.stroke.
 { 10
 { 15
 { 25 } C = Fixed body
 { } P = Fixed end plates

Magnetic sensors: see page 2.13

Construction characteristics

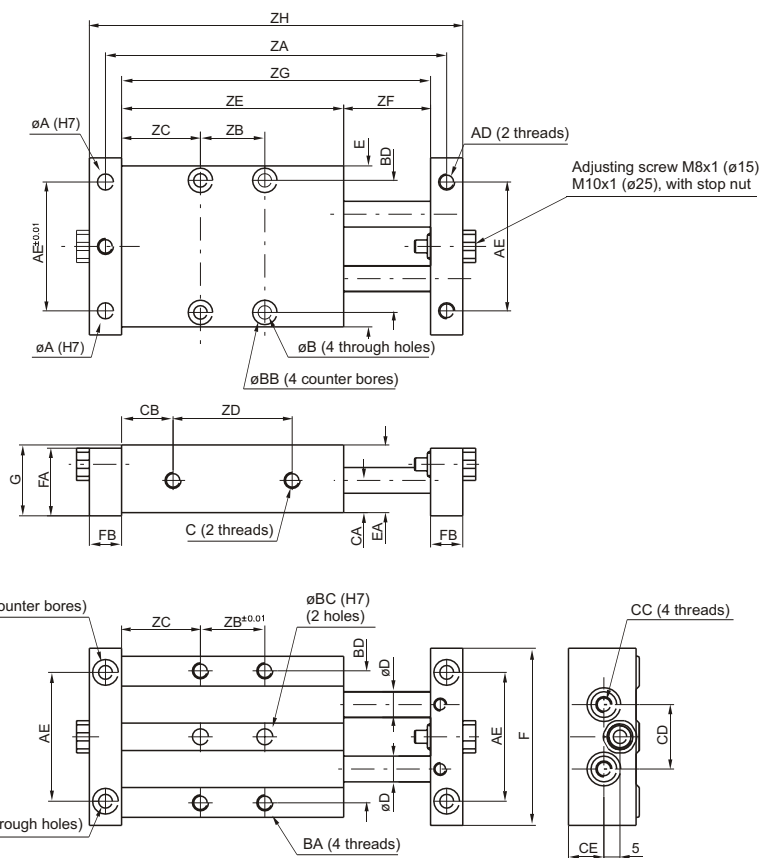
Body	oxidated aluminium alloy
Rods	chromed C43 steel
Piston	aluminium
Piston rod bushing	brass
Endplate	oxidated aluminium
Piston seal	oil resistant NBR rubber
Piston rod seal	self-lubricating polyurethane compound
Plate	oxidated aluminium

Technical characteristics

Function	double acting
Fluid	filtered and non lubricated air
Max pressure	10 bar
Operating temperature	-5°C ÷ +70°C
Cushioning	with decelerator (available on request)

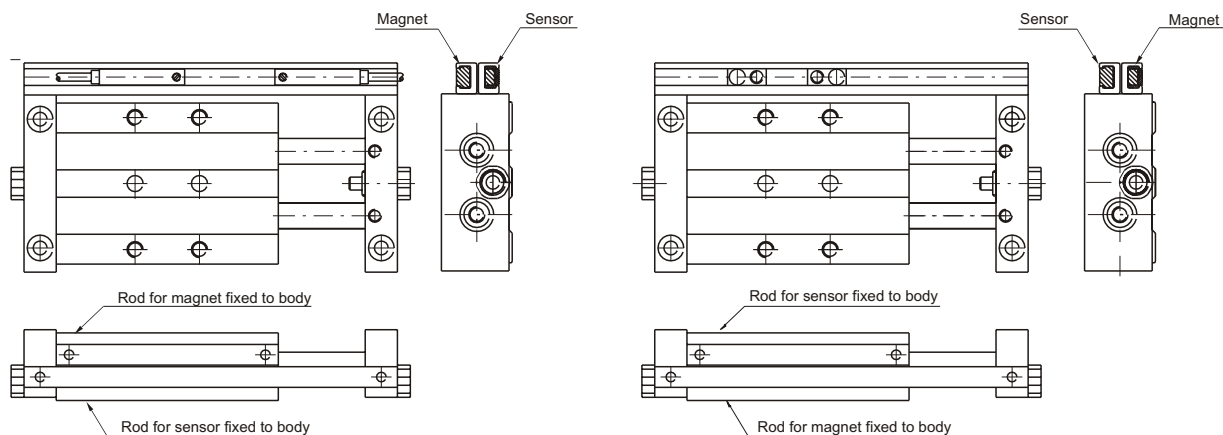
Standard Stroke and weight

Bore	Stroke (mm)							
	25	50	75	100	125	150	175	200
Ø10	●	●	●	●				
Ø15	●	●	●	●	●	●	●	●
Ø25	●	●	●	●	●	●	●	●
Bore	Weight (gr)							
Ø10	160	230	280	310				
Ø15	240	350	450	550	670	750	900	1000
Ø25	950	1140	1350	1600	1800	2000	2300	2500



MOUNTING WITH FIXED PLACE

MOUNTING WITH FIXED BODY



Bore	ØA (H7)	ØAB	ØAC	ØAD	AE	ØB	BA	ØBB	ØBC (H7)	BD	C	CA	CB
15	5 (depth6)	8 (depth4)	4,3	M5x0,8 (useful depth h 10)	40	4,3	M5x0,8 (useful depth h 10)	7,6 (depth4,4)	5 (depth6)	41	M5x0,8	10	16
25	6 (depth8)	9 (depth5)	5,2	M6x1 (useful depth h 12)	67	5,2	M6x1 (useful depth h 12)	9,5 (depth5,4)	6 (depth8)	67	G1/8	16	18,5

Bore	CC	CD	CE	ØD	E	EA	F	FA	FB	G
15	M5x0,8	20	11	8	50	21	55	21	10	22
25	G1/8	35	18	14	79	32	84	32	16	34

Stroke	Bore Ø15								Bore Ø25							
	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH
25	106	20	24,5	37	69	27	96	116	125	25	28,5	45	82	27	109	141
50	156	45	24,5	62	94	52	146	166	175	45	31	70	107	52	159	191
75	206	65	27	87	119	77	196	216	225	65	33,5	95	132	77	209	241
100	256	90	27	112	144	102	246	266	275	90	33,5	120	157	102	259	291
125	306	90	39,5	137	169	127	296	316	325	90	46	145	182	127	309	341
150	356	90	52	162	194	152	346	366	375	90	58,5	170	207	152	359	391
175	406	90	64,5	187	219	177	396	416	425	90	71	190	232	177	409	441
200	456	90	77	212	244	202	446	466	475	90	83,5	220	257	202	459	491

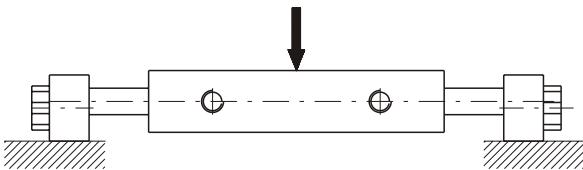
Theoretical force

Bore	Effective area (mm ²)	Force (N)							
		2	3	4	5	6	7	8	9
10	101	20	30	40	51	61	71	81	91
15	207	41	62	83	104	124	145	166	186
25	597	119	179	239	299	358	418	478	537
		2	3	4	5	6	7	8	9
Working pressure (bar)									

Deflection of piston rods

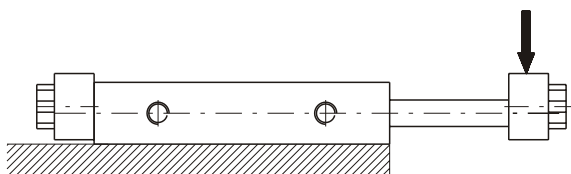
Applied load to body centre

Bore	Load (N)	Deflection (mm)	
		100	200
10	10	0,07	/
15	30	0,08	0,28
25	60	0,02	0,08
		Stroke	



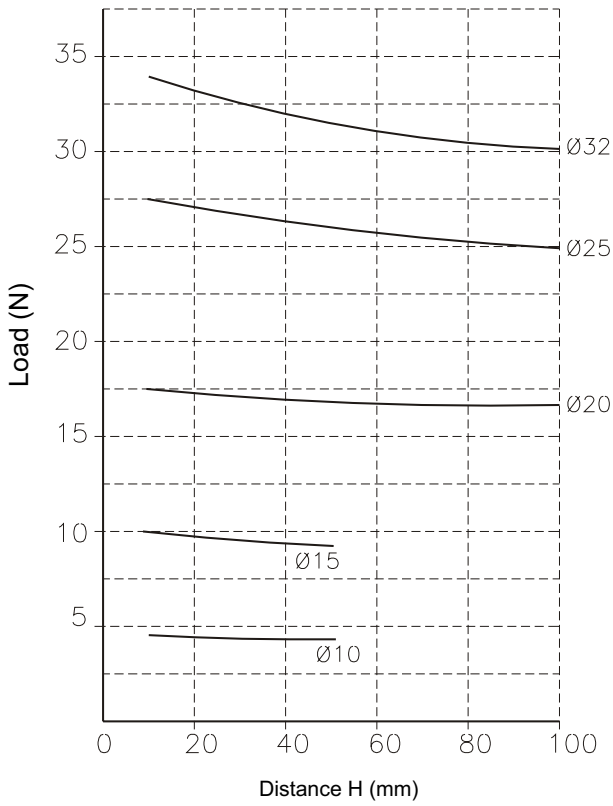
Applied load to plate centre

Bore	Load (N)	Deflection (mm)			
		50	100	150	200
10	3	0,06	0,3	/	/
15	5	0,1	0,2	0,5	1
25	10	0,03	0,1	0,15	0,25
		Stroke			

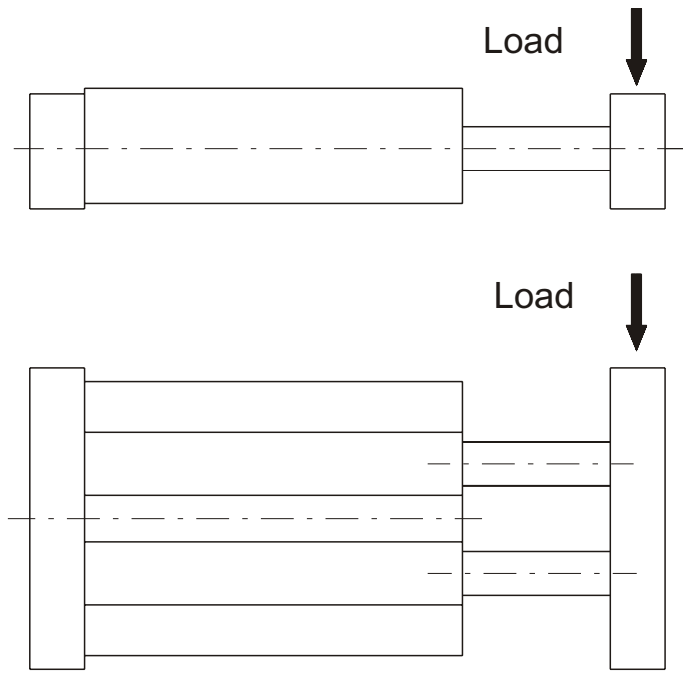
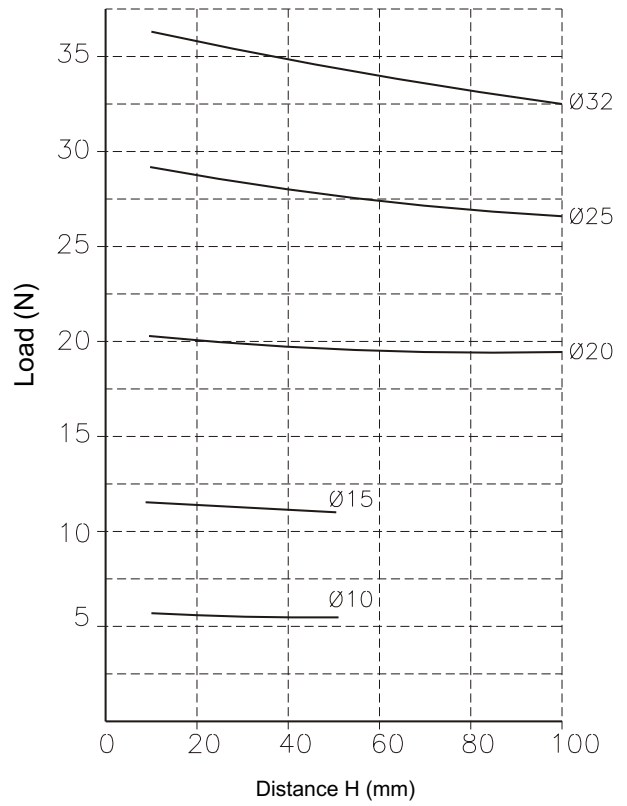




Control unit with bronze bushes



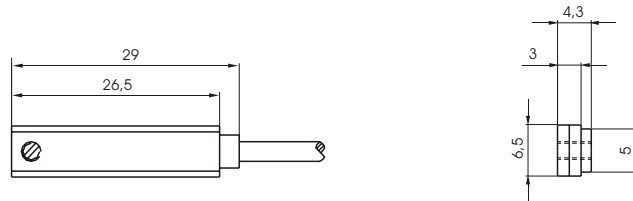
Control unit with bearing bushes



Sensor c/w 2,5 m. cable



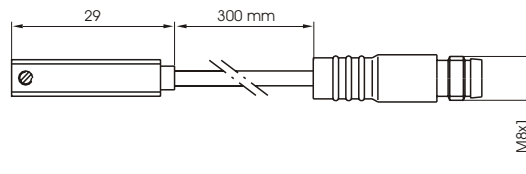
Weight gr. 27



Sensor c/w M8 connector (300 mm cable)



Weight gr. 15



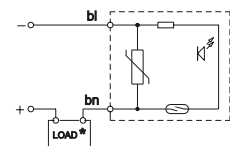
Ordering codes

1580.U	Reed bulb sensor with led and 2.5 m cable
1580.HAP	PNP sensor Hall effect with led and 2.5 m cable
MRS.U	Reed bulb sensor with led and connector
MHS.P	PNP sensor Hall effect with led and connector
MC1	M8 in line connector with 2.5 m cable (2 wires)
MC2	M8 in line connector with 5 m cable (2 wires)
MCH1	M8 in line connector with 2.5 m cable (3 wires)
MCH2	M8 in line connector with 5 m cable (3 wires)

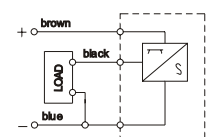
Technical characteristics

	1580.U	MRS.U	1580.HAP	MHS.P
Type of contact	N.A.			
Maximum current (pulses of 0.5 sec)	0,1A		0,2A	
Maximum permanent current	0,1A		0,2A	
Maximum permanent power	6VA		4W	
Voltage range A.C.	3 ÷ 30V		/	
Voltage range D.C.	3 ÷ 30V		12 ÷ 30V	
Working temperature	-20° C ÷ 70° C			
Maximum voltage drop	3V			
Cable section	2x0,14		3x0,14	
Degree of protection	IP 65			
Connecting time	0,5 ms		0,8 µs	
Disconnecting time	0,1 ms		0,3 µs	
Average life (operations)	10 ⁷		10 ⁹	
Repetition of intervention point	± 0,1			

Diagrams and connection



With Reed bulb



Hall effect

NOTE: Pay attention to the connected loads which should not exceed recommendations

***Reed bulb sensor: connection can be made either to negative or positive pole**