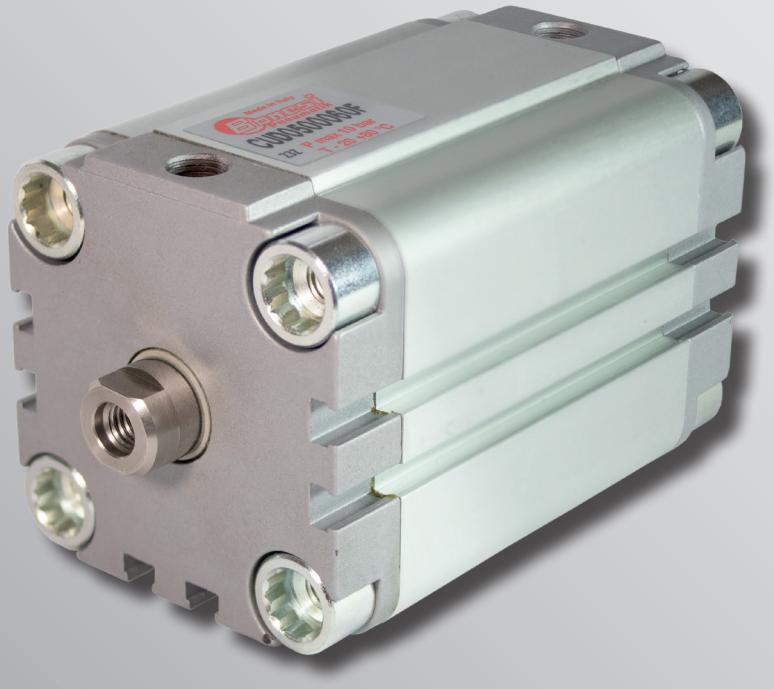
CU Series

Short stroke cylinders



ISO 9001
BUREAU VERITAS Certification
N° IT275286

Bonesi Pneumatik

Short stroke cylinders according to U.N.I.T.O.P. - Series CU

Bores Ø : 16 - 20 - 25 - 32 - 40 - 50 - 63 - 80 - 100 mm.

SERIES CU

- Short stroke cylinders
- According to U.N.I.T.O.P. - RUP/7
- Caps in die-cast aluminium, anodized or painted
- Stainless steel AISI 303 rolled piston rod
- Profiled tube in anodized aluminium, internally gauged
- Piston in aluminium with magnetic ring
- Sensors and mounting accessories

TECHNICAL FEATURES	
Construction	Caps fixed on profiled tube by bolts
Function	CUD: Double acting, female threaded rod, magnetic, not cushoning, elastic end of stroke cushioning. CUS: Single acting, female threaded rod, magnetic, not cushoning, elastic end of stroke cushioning.
Standard materials	Caps in die-aluminium alloy anodized o painted, stainless steel AISI 303 rolled piston rod. Profiled tube in anodized aluminium internally gauged, piston in aluminium anodized with magnetic ring. Seals in NBR - PU
Note about the materials	According to Directive REACH (1907/2006/CE and s.a.s.)
Bore	Ø 16, 20, 25, 32, 40, 50, 63, 80, 100 mm
Standard strokes (min. - max.) Single acting	Ø 16 ÷ 40: 5 mm ÷ 25 mm Ø 50 ÷ 100: 10 mm ÷ 25 mm
Standard strokes (min. - max.) Double acting	Ø 16: 5 mm ÷ 40 mm Ø 20 ÷ 25: 5 mm ÷ 50 mm Ø 32 ÷ 40: 5 mm ÷ 80 mm Ø 50 ÷ 100: 10 mm ÷ 80 mm
Special strokes (on request)	Up to 400 mm
Working temperature	0 ÷ 80°C (standard seals, -20°C with dry air, in order to avoid formation of ice)
Working pressure	0,5 ÷ 10 bar (2 ÷ 10 bar for single action version)
Fluid	Filtered air without lubrication , according to ISO 8573-1:2010 [7:4:4]
Speed	10 ÷ 1000 mm/sec

TECHNICAL DATA									
Bore Ø (mm)	**16**	**20**	**25**	**32**	**40**	**50**	**63**	**80**	**100**
Ports (gas)	M5	M5	M5	1/8”	1/8”	1/8”	1/8”	1/8”	1/4”
Piston rod Ø (mm)	8	10	10	12	12	16	16	20	25
Thread of the piston rod (female)	M4 x 0,70	M5 x 0,80	M5 x 0,80	M6 x 1,00	M6 x 1,00	M8 x 1,25	M10 x 1,50	M10 x 1,50	M10 x 1,50
Thread of the piston rod (male)	M8 x 1,25	M10 x 1,25	M10 x 1,25	M10 x 1,25	M10 x 1,25	M12 x 1,25	M12 x 1,25	M16 x 1,50	M20 x 1,50
Theoretical push thrust at 6 bar (N) (1)	121	188	295	483	754	1177	1869	3015	4710
Theoretical pull thrust at 6 bar (N)	90	140	247	415	685	1057	1750	2825	4415
Air consumption at 6 bar in push (Nl/cm)	0,014	0,021	0,034	0,056	0,088	0,137	0,218	0,350	0,550
Air consumption at 6 bar in pull (Nl/cm)	0,010	0,016	0,028	0,048	0,080	0,123	0,204	0,329	0,510

(1) For the double ended piston rod: please consider the thrust in pull also in push

ORDERING CODE

Series	Piston rod options	Bore	Piston rod stroke	Piston rod thread	Spring position	Anti-rotation bracket	Double acting hollow piston rod
CUD	☐	032	0025	F	☐	☐	☐

Series
- **CUD** = Double acting, male/female threaded rod, magnetic, elastic end of stroke cushioning
- **CUS** = Single acting, male/female threaded rod, magnetic, elastic end of stroke cushioning

Piston rod options
- **P** = Double ended rod
- = Standard rod

Bore
- **016** = Ø 16 mm
- **020** = Ø 20 mm
- **025** = Ø 25 mm
- **032** = Ø 32 mm
- **040** = Ø 40 mm
- **050** = Ø 50 mm
- **063** = Ø 63 mm
- **080** = Ø 80 mm
- **100** = Ø 100 mm

Piston rod stroke
- See table "standard strokes"
- Other strokes available on request

Piston rod thread
- **F** = Female thread (Standard)
- **M** = Male thread
- **T** = Male thread + female thread (Double ended piston rod)
- **B** = Male thread + female thread (Double ended piston rod - Anti-rotation)

Spring position
- **A** = Front spring
- **P** = Rear spring

Anti-rotation bracket
- **A** = With anti-rotation bracket
- = Without anti-rotation bracket

Double acting hollow piston rod
- **4** = With hollow piston rod (only male thread)
- = Standard piston rod

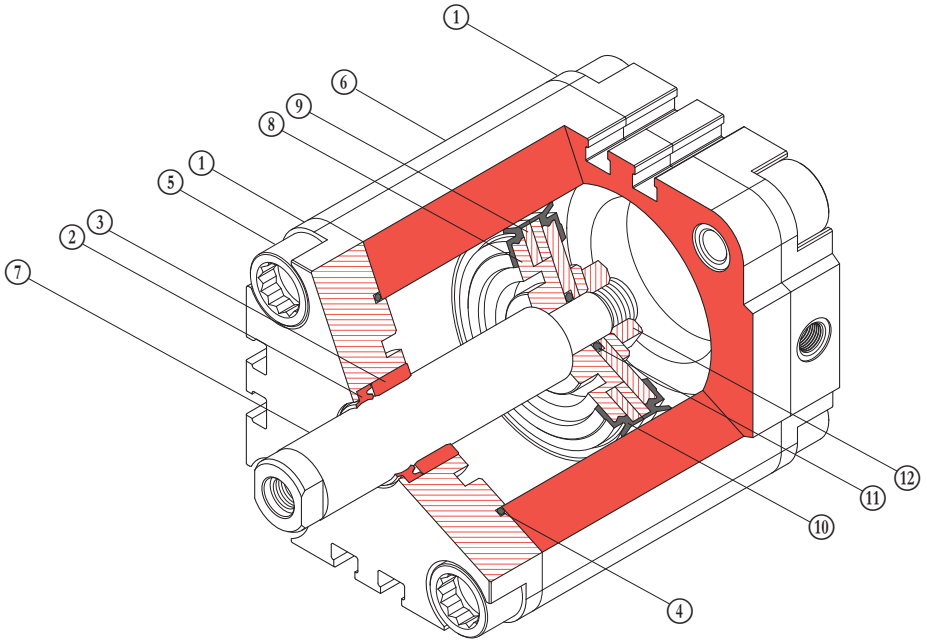
STANDARD STROKES

Ø	5	10	15	20	25	30	40	50	60	80
16	D - S	D - S	D - S	D - S	D - S	D	D			
20	D - S	D - S	D - S	D - S	D - S	D	D	D		
25	D - S	D - S	D - S	D - S	D - S	D	D	D		
32	D - S	D - S	D - S	D - S	D - S	D	D	D	D	D
40	D - S	D - S	D - S	D - S	D - S	D	D	D	D	D
50		D - S	D - S	D - S	D - S	D	D	D	D	D
63		D - S	D - S	D - S	D - S	D	D	D	D	D
80		D - S	D - S	D - S	D - S	D	D	D	D	D
100		D - S	D - S	D - S	D - S	D	D	D	D	D

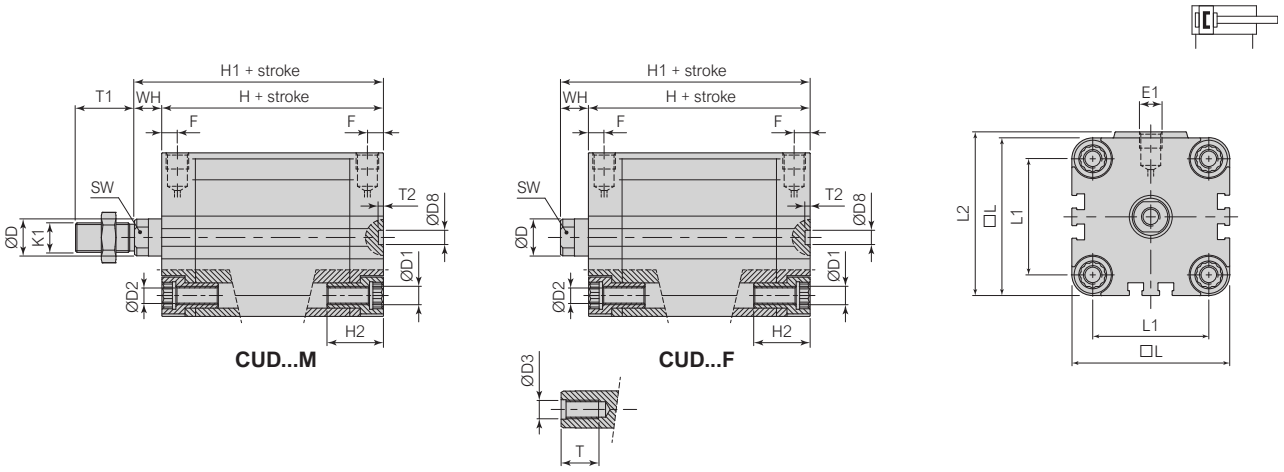
D = Double acting - S = Single acting

STANDARD MATERIALS

POS	DESCRIPTION	MATERIAL	POS	DESCRIPTION	MATERIAL
①	Caps	Die-aluminium alloy anodized o painted	⑦	Rod	Rolled stainless steel AISI 303
②	Piston rod seal	Nitril rubber (NBR)	⑧	Piston	Aluminium
③	Guide bushing	Steel + PTFE	⑨	Magnet	Neodymium / Plasto-ferrite
④	Cap seal	Nitril rubber (NBR)	⑩	Piston seal	Poliurethane (PU)
⑤	Bolt for fixing cap	Zinc-plated steel	⑪	Piston seal - rod	Nitril rubber (NBR)
⑥	Profiled tube	Extruded aluminum EN AW-6060 T6	⑫	Nut and washer	Zinc-plated steel

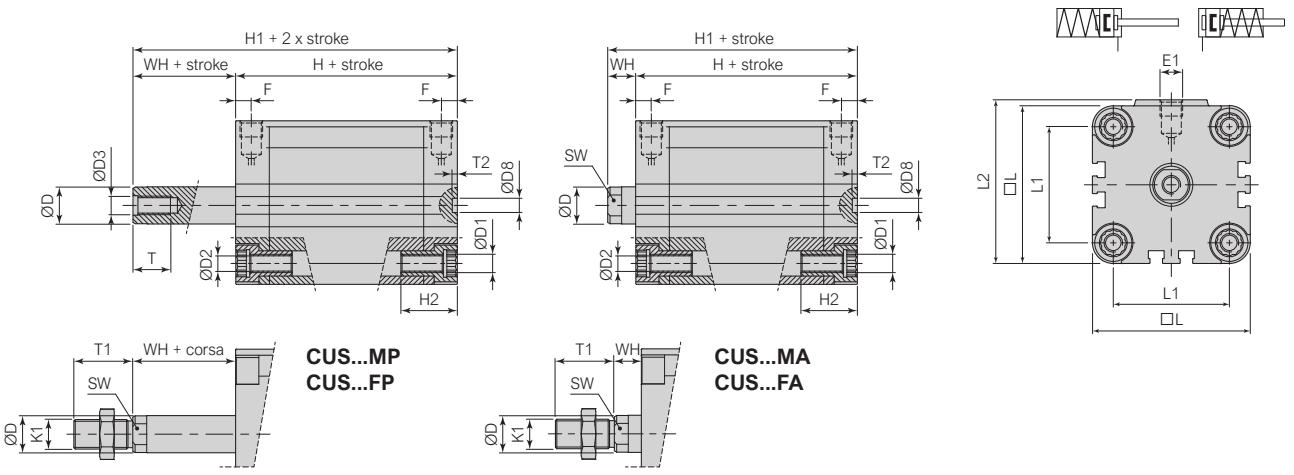


CUD...M / CUD...F



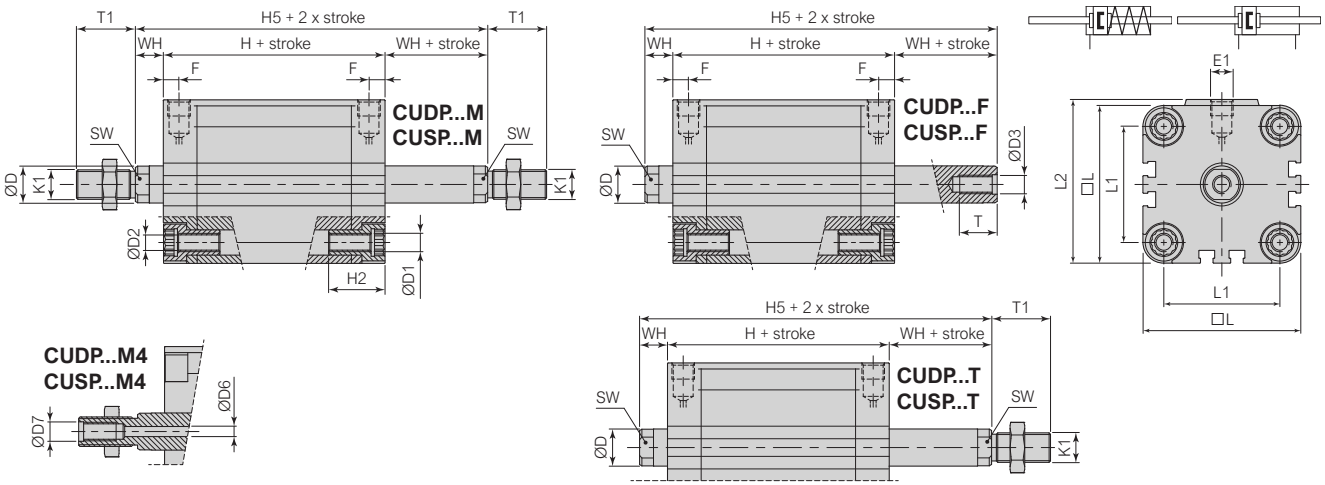
Bore	ØD	ØD1	ØD2	ØD3	ØD8	E1	F	H+	H1+	H2	K1	□ L	L1	L2	SW	T	T1	T2	WH
mm	h7				H9										Ch				
16	8	3,3	M4 x 0,7	M4 x 0,7	6	M5 x 0,8	8	38	42,5	18,5	M8 x 1,25	29	18	30	7	10	20	4	4,5
20	10	4,2	M5 x 0,8	M5 x 0,8	6	M5 x 0,8	8	38	42,5	18,5	M10 x 1,25	36	22	37,5	8	10	22	4	4,5
25	10	4,2	M5 x 0,8	M5 x 0,8	6	M5 x 0,8	8	39,5	45	18,5	M10 x 1,25	40	26	41,5	8	10	22	4	5,5
32	12	5,2	M6 x 1	M6 x 1	6	Gas 1/8"	8	44,5	50,5	23	M10 x 1,25	50	32	52	10	12	22	4	6
40	12	5,2	M6 x 1	M6 x 1	6	Gas 1/8"	8	45,5	52	23	M10 x 1,25	60	42	62,5	10	12	22	4	6,5
50	16	6,8	M8 x 1,25	M8 x 1,25	6	Gas 1/8"	8	45,5	53	24,5	M12 x 1,25	68	50	71	13	16	24	4	7,5
63	16	8,5	M10 x 1,5	M8 x 1,25	8	Gas 1/8"	8	50	57,5	27	M12 x 1,25	87	62	91	13	16	24	4	7,5
80	20	8,5	M10 x 1,5	M10 x 1,5	8	Gas 1/8"	8,5	56	64	27	M16 x 1,5	107	82	111	17	20	32	4	8
100	25	8,5	M10 x 1,5	M10 x 1,5	8	Gas 1/4"	10,5	66,5	76,5	32,5	M20 x 1,5	128	103	133	22	24	40	4	10

CUS...MP / CUS...FP / CUS...MA / CUS...FA



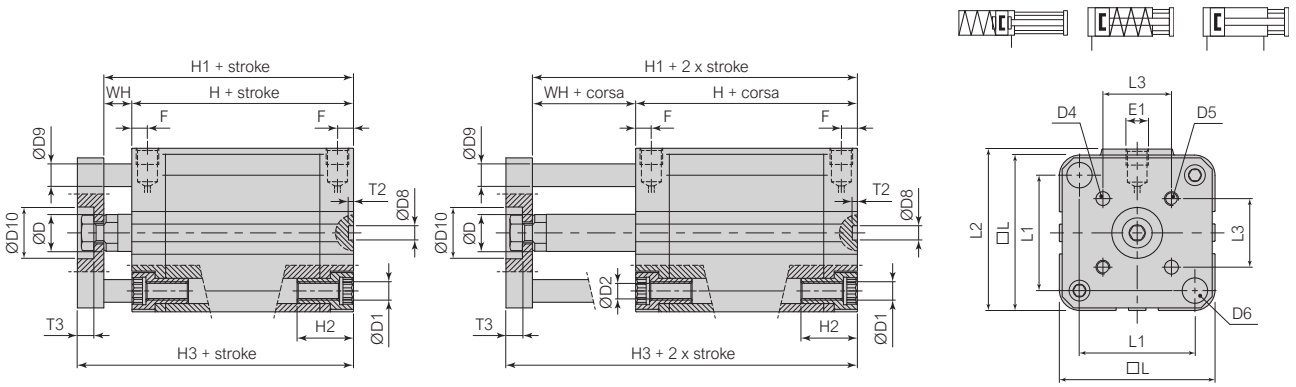
Bore	ØD	ØD1	ØD2	ØD3	ØD8	E1	F	H+	H1+	H2	K1	□ L	L1	L2	SW	T	T1	T2	WH
mm	h7				H9										Ch				
16	8	3,3	M4 x 0,7	M4 x 0,7	6	M5 x 0,8	8	38	42,5	18,5	M8 x 1,25	29	18	30	7	10	20	4	4,5
20	10	4,2	M5 x 0,8	M5 x 0,8	6	M5 x 0,8	8	38	42,5	18,5	M10 x 1,25	36	22	37,5	8	10	22	4	4,5
25	10	4,2	M5 x 0,8	M5 x 0,8	6	M5 x 0,8	8	39,5	45	18,5	M10 x 1,25	40	26	41,5	8	10	22	4	5,5
32	12	5,2	M6 x 1	M6 x 1	6	Gas 1/8"	8	44,5	50,5	23	M10 x 1,25	50	32	52	10	12	22	4	6
40	12	5,2	M6 x 1	M6 x 1	6	Gas 1/8"	8	45,5	52	23	M10 x 1,25	60	42	62,5	10	12	22	4	6,5
50	16	6,8	M8 x 1,25	M8 x 1,25	6	Gas 1/8"	8	45,5	53	24,5	M12 x 1,25	68	50	71	13	16	24	4	7,5
63	16	8,5	M10 x 1,5	M8 x 1,25	8	Gas 1/8"	8	50	57,5	27	M12 x 1,25	87	62	91	13	16	24	4	7,5
80	20	8,5	M10 x 1,5	M10 x 1,5	8	Gas 1/8"	8,5	56	64	27	M16 x 1,5	107	82	111	17	20	32	4	8
100	25	8,5	M10 x 1,5	M10 x 1,5	8	Gas 1/4"	10,5	66,5	76,5	32,5	M20 x 1,5	128	103	133	22	24	40	4	10

CUDP...M / CUSP...F / CUDP...F / CUSP...F / CUDP...M4 / CUSP...M4 / CUDP...T / CUSP...T



Bore	ØD	ØD1	ØD2	ØD3	ØD6	ØD7	E1	F	H+	H2	H5+	K1	□ L	L1	L2	SW	T	T1	T2	WH
mm	h7															Ch				
16	8	3,3	M4 x 0,7	M4 x 0,7	3,2	-	M5 x 0,8	8	38	18,5	47	M8 x 1,25	29	18	30	7	10	20	4	4,5
20	10	4,2	M5 x 0,8	M5 x 0,8	3,8	-	M5 x 0,8	8	38	18,5	47	M10 x 1,25	36	22	37,5	8	10	22	4	4,5
25	10	4,2	M5 x 0,8	M5 x 0,8	3,8	-	M5 x 0,8	8	39,5	18,5	50,5	M10 x 1,25	40	26	41,5	8	10	22	4	5,5
32	12	5,2	M6 x 1	M6 x 1	4,5	-	Gas 1/8"	8	44,5	23	56,5	M10 x 1,25	50	32	52	10	12	22	4	6
40	12	5,2	M6 x 1	M6 x 1	4,5	-	Gas 1/8"	8	45,5	23	58,5	M10 x 1,25	60	42	62,5	10	12	22	4	6,5
50	16	6,8	M8 x 1,25	M8 x 1,25	6	-	Gas 1/8"	8	45,5	24,5	60,5	M12 x 1,25	68	50	71	13	16	24	4	7,5
63	16	8,5	M10 x 1,5	M8 x 1,25	6	-	Gas 1/8"	8	50	27	65	M12 x 1,25	87	62	91	13	16	24	4	7,5
80	20	8,5	M10 x 1,5	M10 x 1,5	8	Gas 1/8"	Gas 1/8"	8,5	56	27	72	M16 x 1,5	107	82	111	17	20	32	4	8
100	25	8,5	M10 x 1,5	M10 x 1,5	11,7	Gas 1/4"	Gas 1/4"	10,5	66,5	32,5	86,5	M20 x 1,5	128	103	133	22	24	40	4	10

CUD...A / CUS...PA / CUS...AA

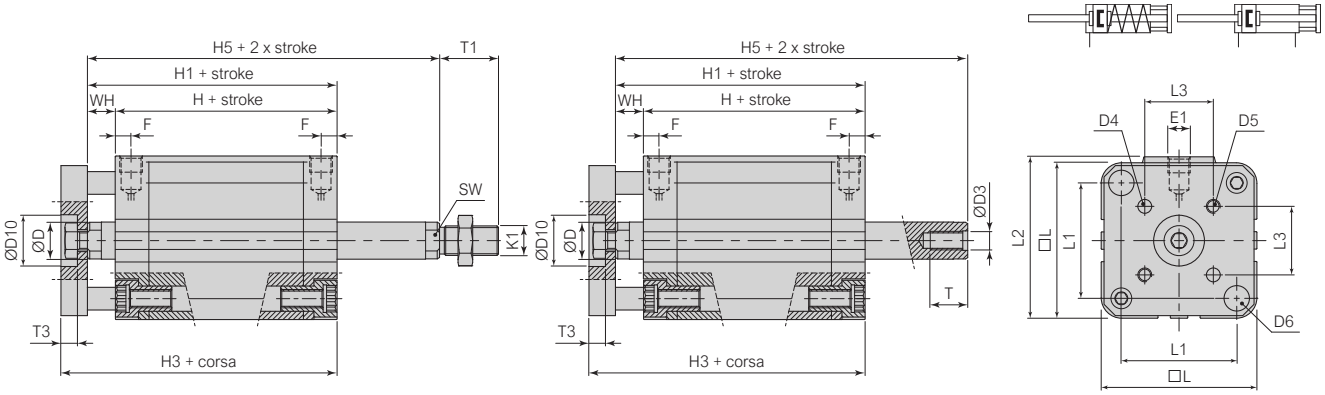


CUD...A
CUS...PA

CUS...AA

Bore	ØD	ØD1	ØD2	ØD4	ØD5	ØD6	ØD8	ØD9	ØD10	E1	F	H+	H1+	H2	H3+	K1	□ L	L1	L2	L3	T2	T3	WH
mm	h7			H8			H9		H9														
16	8	3,3	M4 x 0,7	3	M4 x 0,7	6	6	5	8	M5 x 0,8	8	38	42,5	18,5	48,5	M8 x 1,25	29	18	30	10	4	4,2	4,5
20	10	4,2	M5 x 0,8	4	M5 x 0,8	7,5	6	6	10	M5 x 0,8	8	38	42,5	18,5	50,5	M10 x 1,25	36	22	37,5	12	4	5,7	4,5
25	10	4,2	M5 x 0,8	5	M5 x 0,8	7,5	6	6	14	M5 x 0,8	8	39,5	45	18,5	53	M10 x 1,25	40	26	41,5	15,6	4	4,8	5,5
32	12	5,2	M6 x 1	5	M5 x 0,8	9	6	8	17	Gas 1/8"	8	44,5	50,5	23	60,5	M10 x 1,25	50	32	52	49,8	4	6,1	6
40	12	5,2	M6 x 1	5	M6 x 1	9	6	8	17	Gas 1/8"	8	45,5	52	23	52	M10 x 1,25	60	42	62,5	23,3	4	6,1	6,5
50	16	6,8	M8 x 1,25	6	M6 x 1	11	6	10	22	Gas 1/8"	8	45,5	53	24,5	65	M12 x 1,25	68	50	71	29,7	4	7,6	7,5
63	16	8,5	M10 x 1,5	6	M8 x 1,25	14	8	10	22	Gas 1/8"	8	50	57,5	27	69,5	M12 x 1,25	87	62	91	35,4	4	7,6	7,5
80	20	8,5	M10 x 1,5	8	M10 x 1,5	14	8	12	28	Gas 1/8"	8,5	56	64	27	78	M16 x 1,5	107	82	111	46	4	8,8	8
100	25	8,5	M10 x 1,5	10	M10 x 1,5	14	8	12	30	Gas 1/4"	10,5	66,5	76,5	32,5	90,5	M20 x 1,5	128	103	133	56,6	4	10,3	10

CUDP...BA / CUSP...MA / CUDP...FA / CUSP...FA

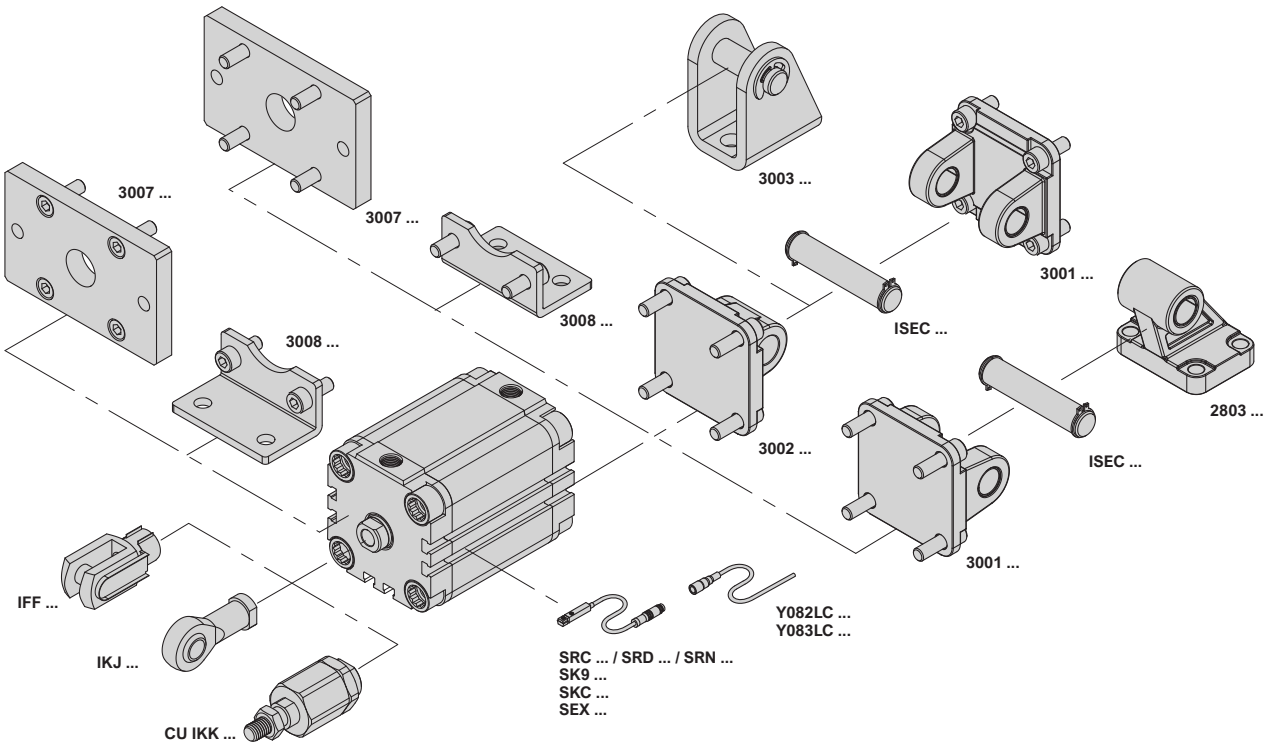


CUDP...MA
CUSP...MA

CUDP...FA
CUSP...FA

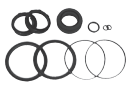
Bore	ØD	ØD2	ØD3	ØD4	ØD5	ØD6	ØD10	E1	F	H+	H1+	H3+	H5+	K1	□ L	L1	L2	L3	SW	T	T1	T2	T3
mm	h7			H8			H9												Ch				
16	8	M4 x 0,7	M4 x 0,7	3	M4 x 0,7	6	8	M5 x 0,8	8	38	42,5	48,5	47	M8 x 1,25	29	18	30	10	7	10	20	4	4,2
20	10	M5 x 0,8	M5 x 0,8	4	M5 x 0,8	7,5	10	M5 x 0,8	8	38	42,5	50,5	47	M10 x 1,25	36	22	37,5	12	8	10	22	4	5,7
25	10	M5 x 0,8	M5 x 0,8	5	M5 x 0,8	7,5	14	M5 x 0,8	8	39,5	45	53	50,5	M10 x 1,25	40	26	41,5	15,6	8	10	22	4	4,8
32	12	M6 x 1	M6 x 1	5	M5 x 0,8	9	17	Gas 1/8"	8	44,5	50,5	60,5	56,5	M10 x 1,25	50	32	52	49,8	10	12	22	4	6,1
40	12	M6 x 1	M6 x 1	5	M6 x 1	9	17	Gas 1/8"	8	45,5	52	52	58,5	M10 x 1,25	60	42	62,5	23,3	10	12	22	4	6,1
50	16	M8 x 1,25	M8 x 1,25	6	M6 x 1	11	22	Gas 1/8"	8	45,5	53	65	60,5	M12 x 1,25	68	50	71	29,7	13	16	24	4	7,6
63	16	M10 x 1,5	M8 x 1,25	6	M8 x 1,25	14	22	Gas 1/8"	8	50	57,5	69,5	65	M12 x 1,25	87	62	91	35,4	13	16	24	4	7,6
80	20	M10 x 1,5	M10 x 1,5	8	M10 x 1,5	14	28	Gas 1/8"	8,5	56	64	78	72	M16 x 1,5	107	82	111	46	17	20	32	4	8,8
100	25	M10 x 1,5	M10 x 1,5	10	M10 x 1,5	14	30	Gas 1/4"	10,5	66,5	76,5	90,5	86,5	M20 x 1,5	128	103	133	56,6	22	24	40	4	10,3

ACCESSORIES



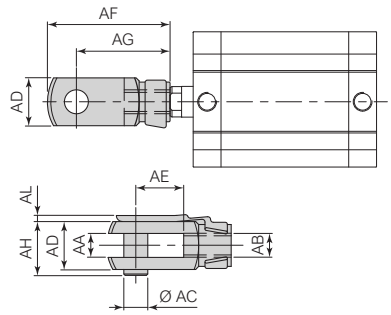
All mounting accessories are supplied complete with screws for fixing to cylinder

	IFF ... Female clevis with pin	**IKJ ...** Self-lubricating oscillating joint	**CU IKK ...** Self-aligning joint angular and radial	**3002 ...** Male hinge	**3001 ...** Female hinge	**3003 ...** Square joint at 90°	**2803 ...** Square joint at 90°	**3007 ...** Front and rear flange	**3008 ...** Foot pedestal	**ISEC ...** Pin for male/ female hinge
										
Ø	Page 1.2.05.7	Page 1.2.05.7	Page 1.2.05.7	Page 1.2.05.8	Page 1.2.05.8	Page 1.2.05.8	Page 1.2.05.8	Page 1.2.05.9	Page 1.2.05.9	Page 1.2.05.9
16	IFF 16	IKJ 16	CU IKK 16	3002 16	-	3003 16	-	3007 16	3008 16	-
20	IFF 20	IKJ 20	CU IKK 20	3002 20	-	3003 20	-	3007 20	3008 20	-
25	IFF 25	IKJ 25	CU IKK 25	3002 35	-	3003 35	-	3007 35	3008 35	-
32	IFF 32	IKJ 32	CU IKK 32	-	3001 32	-	2803 32	3007 32	3008 32	ISEC 32
40	IFF 40	IKJ 40	CU IKK 40	-	3001 40	-	2803 40	3007 40	3008 40	ISEC 40
50	IFF 50	IKJ 50	CU IKK 50	-	3001 50	-	2803 50	3007 50	3008 50	ISEC 50
63	IFF 63	IKJ 63	CU IKK 63	-	3001 63	-	2803 63	3007 63	3008 63	ISEC 63
80	IFF 80	IKJ 80	CU IKK 80	-	3001 80	-	2803 80	3007 80	3008 80	ISEC 80
100	IFF 100	IKJ 100	CU IKK 100	-	3001 100	-	2803 100	3007 100	3008 100	ISEC 100
	Clevis and lockable pins in galvanized steel	Joint in galvanized steel, bush in sinterized bronze	Joint and nut in galvanized steel, Pin in blacked steel	Light alloy	Light alloy	Square joint in galvanized steel	Painted steel black cataphoresis	White zinc coating steel	White zinc coating steel	White zinc coating steel

	CU SG ... Standard seals kit	**SR ...** NC sensors REED / HALL	**SK9 ...** IP69K sensor PNP	**SKC ...** Precise position sensor PNP	**SEX ...** ATEX II3G sensor PNP	**Y082LC ...** Straight connectors	**Y083LC ...** Straight connectors
							
Ø	Page 1.2.05.6	Page 1.2.05.10	Page 1.2.05.11	Page 1.2.05.11	Page 1.2.05.11	Page 1.2.05.12	Page 1.2.05.12
16	CU SG 16						
20	CU SG 20						
25	CU SG 25						
32	CU SG 32						
40	CU SG 40						
50	CU SG 50						
63	CU SG 63						
80	CU SG 80						
100	CU SG 100						
	Rod seals: Polyurethane Other seals: NBR	Sensor: PA6 Cable: PUR	Sensor: PA12 Cable: PUR	Sensor: PA Cable: PUR	Sensor: PA Cable: PVC	Connettore: PVC Contatti: ottone dorato Cavo: PVC	Connettore: PVC Contatti: ottone dorato Cavo: PVC

PISTON ROD ACCESSORIES

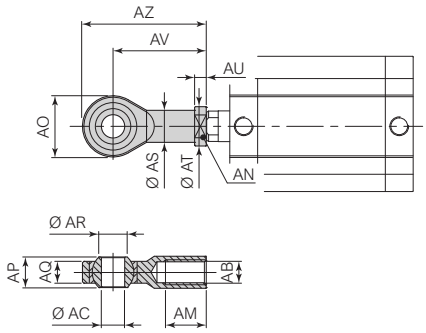
IFF ...
Female clevis with pin



Bore mm	Code	AA		AB	Ø AC h11	AD +0,30 -0,16	AE ±0,5	AF ±0,5	AG ±0,4	AH ±0,2	AL
16	IFF 16	6	+0,37 +0,15	M8 x 1,25	6	12	12	31	24	14	2
20	IFF 20	8		M10 x 1,25	8	16	16	42	32	19	3
25	IFF 25	10		M10 x 1,25	10	20	20	52	40	23	3
32	IFF 32	10		M10 x 1,25	10	20	20	52	40	23	3
40	IFF 40	12	+0,70 +0,15	M10 x 1,25	12	24	24	62	48	28	4
50	IFF 50	16		M12 x 1,25	16	32	32	83	64	36	4
63	IFF 63	16		M12 x 1,25	16	32	32	83	64	36	4
80	IFF 80	20		M16 x 1,5	20	40	40	105	80	44	4
100	IFF 100	20		M20 x 1,5	20	40	40	105	80	44	4

IFF ... Clevis and clip in zinc plated steel / 1 piece each package

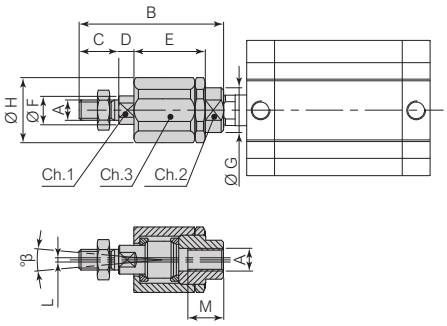
IKJ ...
Self-lubricating oscillating joint



Bore mm	Code	AB	Ø AC H7	AM	AN Ch	AO	AP	AQ	Ø AR	Ø AS	Ø AT	AU	AV	AZ
16	IKJ 16	M8 x 1,25	6	12	11	20	9	6,75	8,9	12,5	16	5	36	48
20	IKJ 20	M10 x 1,25	10	20	17	28	14	10,5	12,9	15	19	6,5	43	57
25	IKJ 25	M10 x 1,25	10	20	17	28	14	10,5	12,9	15	19	6,5	43	57
32	IKJ 32	M10 x 1,25	10	20	17	28	14	10,5	12,9	15	19	6,5	43	57
40	IKJ 40	M10 x 1,25	10	20	17	28	14	10,5	12,9	15	19	6,5	43	57
50	IKJ 50	M12 x 1,25	12	22	19	32	16	12	15,4	17,5	22	6,5	50	66
63	IKJ 63	M12 x 1,25	12	22	19	32	16	12	15,4	17,5	22	6,5	50	66
80	IKJ 80	M16 x 1,5	16	28	22	42	21	15	19,3	22	27	8	64	85
100	IKJ 100	M20 x 1,5	20	33	30	50	25	18	24,3	27,5	34	10	77	102

IKJ ... Joint in zinc plated steel, bush in sintered bronze, ring in hardened bearing steel / 1 piece each package

CU IKK ...
Self-aligning joint angular and radial

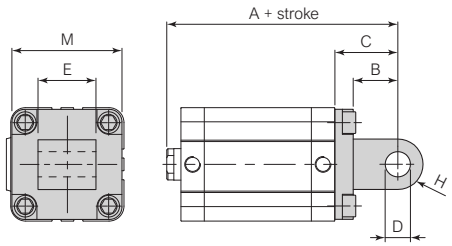


Bore mm	Code	A	B	C	D	E	Ø F	Ø G	Ø H	L	M	Ch1	Ch2	Ch3	°β	Carico statico daN
16	CU IKK 16	M8 x 1,25	57	21	5	26	8	12,5	19	2	16	7	11	17	8	250
20	CU IKK 20	M10 x 1,25	71,5	20	7,5	35	14	22	32	2	22	12	19	30	8	500
25	CU IKK 25	M10 x 1,25	71,5	20	7,5	35	14	22	32	2	22	12	19	30	8	500
32	CU IKK 32	M10 x 1,25	71,5	20	7,5	35	14	22	32	2	22	12	19	30	8	500
40	CU IKK 40	M10 x 1,25	71,5	20	7,5	35	14	22	32	2	22	12	19	30	8	500
50	CU IKK 50	M12 x 1,25	75,5	24	7,5	35	14	22	32	2	22	12	19	30	8	500
63	CU IKK 63	M12 x 1,25	75,5	24	7,5	35	14	22	32	2	22	12	19	30	8	500
80	CU IKK 80	M16 x 1,5	104	32	10	53	22	32	45	2	30	20	27	41	6	1000
100	CU IKK 100	M20 x 1,5	119	40	10	53	22	32	45	2	37	20	27	41	6	1000

CU IKK ... Joint and nut in zinc plated steel, pin in burnished steel / 1 piece each package

MOUNTING ACCESSORIES

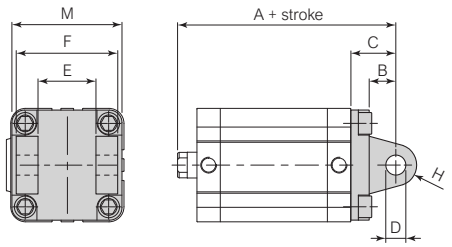
3002 ...
Male hinge



Bore	Code	A+	B	C	D	E	M	H	Fixing screw
mm				±0,2	H9	H14	±0,5		ISO 4762
16	3002 16	28,5	10	16	6	12	27	6	M4 x 20
20	3002 20	62,5	14	20	8	16	34	8	M5 x 20
25	3002 25	65	14	20	8	16	38	8	M5 x 20

3002 ... Male hinge in light alloy / 1 piece each package + 4 screws for fixing to cylinder

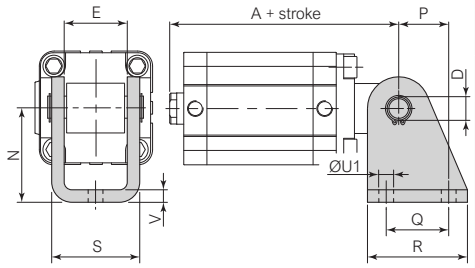
3001 ...
Female hinge



Bore	Code	A+	B	C	D	E	F	M	H	Fixing screw
mm				±0,2	H9	H14	h14	±0,5		ISO 4762
32	3001 32	72,5	13	22	10	26	45	48	10	M6 x 25
40	3001 40	77	16	25	12	28	52	58	12,5	M6 x 25
50	3001 50	80	16	27	12	32	60	66	12,5	M8 x 30
63	3001 63	89,5	21	32	16	40	70	83	15	M10 x 30
80	3001 80	100	23	36	16	50	90	102	15	M10 x 35
100	3001 100	117,5	16	41	20	60	110	123	20	M10 x 35

3001 ... Female hinge in light alloy / 1 piece each package + 4 screws for fixing to cylinder

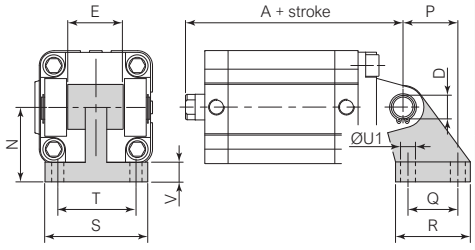
3003 ...
Square joint at 90° with pin



Bore	Code	A+	ØD	E	N	P	Q	R	S	ØU1	V
mm			f7		±0,2		JS13			H13	±0,2
16	3003 16	28,5	6	12	27	13	15	25	18	5,5	3
20	3003 20	62,5	8	16	30	16	20	32	24	6,6	4
25	3003 25	65	8	16	30	16	20	32	24	6,6	4

3003 ... Square joint and pin in white zinc plated steel / 1 piece each package

2803 ...
Square joint at 90°

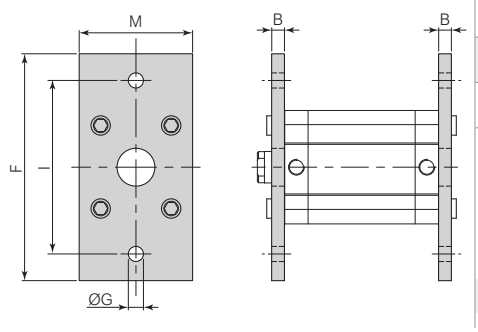


Bore	Code	A+	ØD	E	N	P	Q	R	S	T	ØU1	V
mm			H9		JS15		JS13			JS14	H13	
32	2803 32	72,5	10	26	32	21	18	31	51	38	6,6	6,4
40	2803 40	77	12	28	36	24	22	35	54	41	6,6	8,4
50	2803 50	80	12	32	45	33	30	45	65	50	9	10,4
63	2803 63	89,5	16	40	50	37	35	50	67	52	9	12,4
80	2803 80	100	16	50	63	47	40	60	86	66	11	11,5
100	2803 100	117,5	20	60	71	55	50	70	96	76	11	14,5

2803 ... Square joint in painted steel black cataphoresis / 1 piece each package

MOUNTING ACCESSORIES

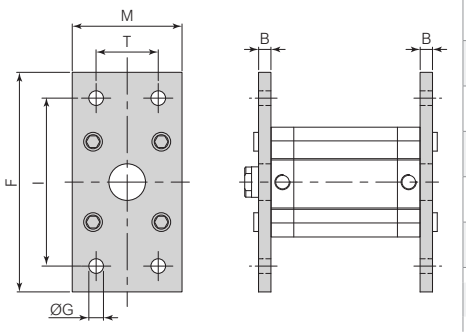
3007 ...
Front and rear flange



Bore	Code	B	F	ØG	I	M	Fixing screw
mm		±0,2	±0,2	H13	±0,2	±0,2	ISO 4762
16	3007 16	10	55	5,5	43	29	M4 x 20
20	3007 20	10	70	6,6	55	36	M5 x 20
25	3007 25	10	76	6,6	60	40	M5 x 20

3007 ... Flange in white zinc plated steel / 1 piece each package + 4 screws for fixing to cylinder

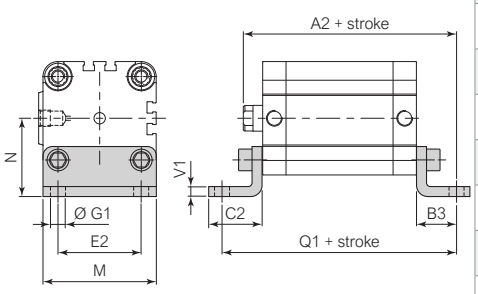
3007 ...
Front and rear flange



Bore	Code	B	F	ØG	I	M	T	Fixing screw
mm		±0,2	±0,2	H13	±0,2	±0,2	±0,2	ISO 4762
32	3007 32	10	80	7	65	50	32	M6 x 25
40	3007 40	10	102	9	82	60	36	M6 x 25
50	3007 50	12	110	9	90	68	45	M8 x 25
63	3007 63	15	130	9	110	87	50	M10 x 30
80	3007 80	15	160	12	135	107	63	M10 x 30
100	3007 100	15	190	14	163	128	75	M10 x 35

3007 ... Flange in white zinc plated steel / 1 piece each package + 4 screws for fixing to cylinder

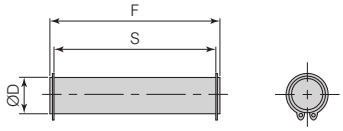
3008 ...
Foot pedestal



Bore	Code	A2+	B3	C2	E2	ØG1	M	N	Q1+	V1	Fixing screw
mm			±0,2	±1,0	±0,2	H13				±0,2	ISO 4762
16	3008 16	55,5	13	17,5	18	5,5	30	22	64	3	M4 x 20
20	3008 20	58,5	16	22	22	6,6	36	27	70	4	M5 x 20
25	3008 25	61	16	22	26	6,6	40	30	71,5	4	M5 x 20
32	3008 32	68,5	18	26	32	6,6	50	32	80,5	5	M6 x 25
40	3008 40	72	20	28	42	9	60	42,5	85,5	5	M6 x 25
50	3008 50	77	24	32	50	9	68	47	93,5	6	M8 x 30
63	3008 63	84,5	27	39	62	11	84	59,5	104	6	M10 x 30
80	3008 80	94	30	42	82	11	102	65,5	116	8	M10 x 35
100	3008 100	109,5	33	45	103	13,5	123	78	132,5	8	M10 x 35

3008 ... Foot pedestal in white zinc plated steel / 1 piece each package + 2 screws for fixing to cylinder

ISEC ...
Pin for male / female hinge



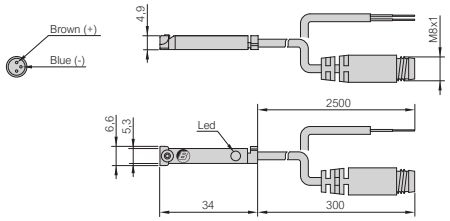
Bore	Code	A+	ØD	E
mm			H9	
32	ISEC 32	10	52	46
40	ISEC 32	12	59	53
50	ISEC 32	12	67	61
63	ISEC 32	16	77	71
80	ISEC 32	16	97	91
100	ISEC 32	20	118	111

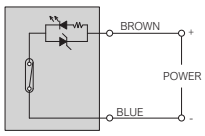
ISEC ... Pin in white zinc plated steel / 1 piece each package + 2 retaining rings

END OF STROKE SENSORS TYPE SR

SRC-61, SRC-21, SRC-27

End of stroke sensor REED - 2 poles N.O.



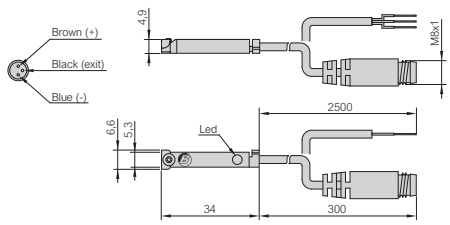


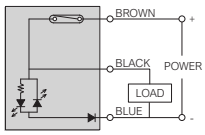
Technical features			
Code	SRC-61	SRC-21	SRC-27
Version	Cable 2 x 0,14 mm²	Cable 2 x 0,14 mm²	Connector M8 x 1 - 2 pin
Cable length	2500 mm	2500 mm	300 mm
Sensor	REED		
Output	Pure contact, normally open		
Operating voltage	5 ÷ 230 Vac / Vdc	5 ÷ 130 Vac / Vdc	5 ÷ 50 Vac / Vdc
Switching current (max.)	200 mA	200 mA	200 mA
Contact rating (max.)	10 W	6 W	6 W
Voltage drop (max.)	3 V	3 V	3 V
Visual indicator	LED yellow diode		
Operating frequency	1000 Hz		
Working temperature	-15 ÷ +70 °C		
Protection class (IEC 60529))	IP67		
Protection circuit	Power source reverse polarity		
Mounting	Screw for "T" groove - Torque max. 0,15 Nm		

SRC-61, SRC-21, SRC-27 / Sensor in PA6, cable in PUR - 1 piece each package

SRD-21, SRD-27

End of stroke sensor REED - 3 poles N.O.



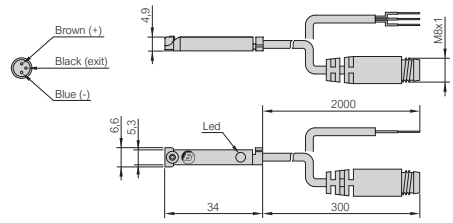


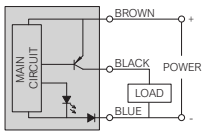
Technical features		
Code	SRD-21	SRD-27
Version	Cable 3 x 0,14 mm²	Connector M8 x 1 - 3 pin
Cable length	2500 mm	300 mm
Sensor	REED	
Output	PNP, normally open	
Operating voltage	5 ÷ 30 Vac / Vdc	
Switching current (max.)	200 mA	
Contact rating (max.)	6 W	
Voltage drop (max.)	0,7 V	
Visual indicator	LED yellow diode	
Operating frequency	1000 Hz	
Working temperature	-15 ÷ +70 °C	
Protection class (IEC 60529))	IP67	
Protection circuit	Power source reverse polarity	
Mounting	Screw for "T" groove - Torque max. 0,15 Nm	

SRD-21, SRD-27 / Sensor in PA6, cable in PUR - 1 piece each package

SRN-21, SRN-27

End of stroke sensor HALL PNP - 3 poles N.O.



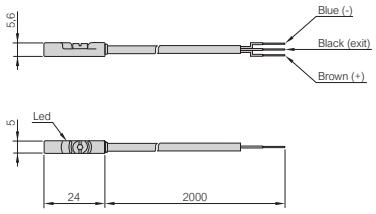


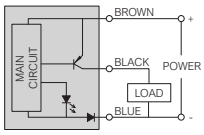
Technical features		
Code	SRN-21	SRN-27
Version	Cable 3 x 0,14 mm²	Connector M8 x 1 - 3 pin
Cable length	2000 mm	300 mm
Sensor	HALL	
Output	PNP, normally open	
Operating voltage	10 ÷ 30 Vdc	
Switching current (max.)	200 mA	
Contact rating (max.)	4 W	
Voltage drop (max.)	0,7 V	
Visual indicator	LED yellow diode	
Operating frequency	1000 Hz	
Working temperature	-15 ÷ +70 °C	
Protection class (IEC 60529))	IP67	
Protection circuit	Power source reverse polarity	
Mounting	Screw for "T" groove - Torque max. 0,15 Nm	

SRN-21, SRN-27 / Sensor in PA6, cable in PUR - 1 piece each package

END OF STROKE SENSORS TYPE SK9 with enclosure classification IP69K

SK9-21
End of stroke sensor HALL PNP - 3 poles N.O.



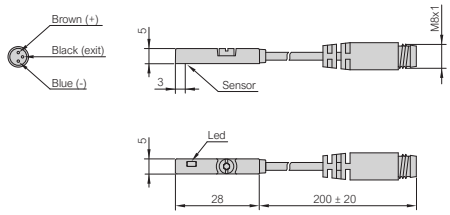


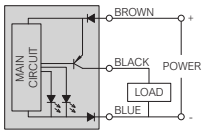
Technical features	
Code	SK9-21
Version	Cable 3 x 0,14 mm²
Cable length	2000 mm
Sensor	HALL
Output	PNP, normally open
Operating voltage	10 ÷ 30 Vdc
Switching current (max.)	200 mA
Contact rating (max.)	6 W
Current consumption	10 mA (without load)
Voltage drop (max.)	2,2 V
Visual indicator	LED yellow diode: flashing (instable position) permanently light (stable position)
Operating frequency	1000 Hz
Temperature range	-30 ÷ +80 °C
Enclosure classification (DIN 40050)	IP69K
Protection circuit	Short-circuit, power source reverse polarity, power-up pulse
Mounting	Screw for "T" groove - Torque max. 0,3 Nm

SK9-21 / Sensor in PA12, cable in PUR - 1 piece each package

END OF STROKE SENSORS TYPE SKC with precise positioning sistem

SKC-27
End of stroke sensor HALL PNP - 3 poles N.O.



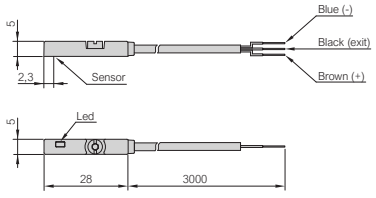


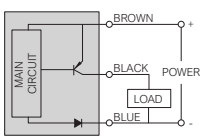
Technical features	
Code	SKC-27
Version	Connector M8 x 1 - 3 pin
Cable length	200 mm
Sensor	HALL
Output	PNP, normally open
Operating voltage	10 ÷ 28 Vdc
Switching current (max.)	80 mA
Contact rating (max.)	2 W
Current consumption	10 mA (24 Vdc)
Voltage drop (max.)	1,5 V
Leakage current (max.)	0,05 mA
Visual indicator	Two colors LED diode: red (instable position) green (stable position)
Operating frequency	1000 Hz
Temperature range	-10 ÷ +60 °C
Enclosure classification (DIN 40050)	IP67
Protection circuit	Short-circuit, power source reverse polarity, power-up pulse
Mounting	Screw for "T" groove - Torque max. 0,3 Nm

SKC-27 / Sensor in PA, cable in PUR - 1 piece each package

END OF STROKE SENSORS TYPE SEX for potentially explosive environment ATEX

SEX-21
End of stroke sensor HALL PNP - 3 poles N.O.



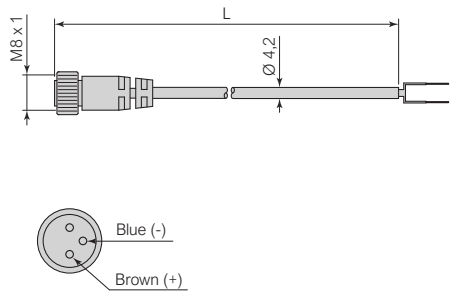


Technical features	
Code	SEX-21
Version	Cable 3 x 0,14 mm²
Cable length	3000 mm
Sensor	HALL
Output	PNP, normally open
Operating voltage	10 ÷ 28 Vdc
Switching current (max.)	200 mA
Contact rating (max.)	5,5 W
Current consumption	10 mA (24 Vdc)
Voltage drop (max.)	1,5 V
Leakage current (max.)	0,05 mA
Visual indicator	LED yellow diode
Operating frequency	1000 Hz
Temperature range	-10 ÷ +70 °C
Enclosure classification (IEC 60529)	IP67
Protection circuit	Short-circuit, power source reverse polarity, power-up pulse
Mounting	Screw for "T" groove - Torque max. 0,3 Nm
ATEX marking (2014/34/EU)	II 3GD Ex ic IIB T4 Gc Ex ic IIIC T135°C Dc

SEX-21 / Sensor in PA, cable PVC - 1 piece each package

THREADED CONNECTORS TYPE Y082LC SUITABLE FOR SRC-27

Y082LC ...
Threaded connectors - 2 poles

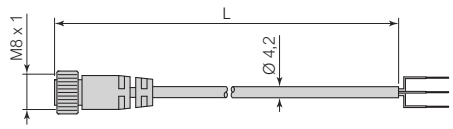


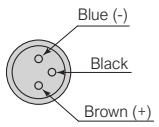
Technical features		
Code	Y082LC250C	Y082LC500C
Threaded connector	M8 x 1	
End connector	Open	
Cable	2 x 0,14 mm²	
Cable length (L)	2500 mm	5000 mm
Operating voltage (max.)	50 Vac / 60 Vdc	
Current (max.)	3000 mA	
Working temperature	-25 ÷ +75 °C	
Protection class (IEC 60529)	IP67	

Y082LC ... / Connector in PVC, contacts in gilded brass, cable in PVC - 1 piece each package

THREADED CONNECTORS TYPE Y083LC SUITABLE FOR SRD-27, SRN-27, SKC-27

Y083LC ...
Threaded connectors - 3 poles





Technical features		
Code	Y083LC250D	Y083LC500D
Threaded connector	M8 x 1	
End connector	Open	
Cable	3 x 0,14 mm²	
Cable length (L)	2500 mm	5000 mm
Operating voltage (max.)	50 Vac / 60 Vdc	
Current (max.)	3000 mA	
Working temperature	-25 ÷ +75 °C	
Protection class (IEC 60529)	IP67	

Y083LC ... / Connector in PVC, contacts in gilded brass, cable in PVC - 1 piece each package

BONESI PNEUMATIK realizza tutti i suoi prodotti in Italia

BONESI PNEUMATIK s.r.l.
Via A. Robino n. 117
20025 Legnano (MI) Italy
P.I. / C.F. 10396340159
R.E.A. 1373315
www.bonesipneumatik.it
info@bonesipneumatik.it
Phone +39 0331 448000
Telefax +39 0331 448070