CCT CYLINDERS SERIES

STANDARD ISO 6022





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CCT cylinders series integrates magnetostrictive transducers and follows International standards **ISO 6022** and **DIN 24333**. The construction with round heads fits to the most demanding and challenging industrial actuation requests in the iron and steel industry, with continuous nominal pressure up to **25 MPa**.

The choice of selected materials, the severe controls of 100% of all cylinders produced and the quality of the means of production, allows us to reach high standards of quality, reliability and enduring product performance.

The seals used, supplied by premium suppliers, grant high performance and international availability. The wide range of seals, allows us to offer cylinders for applications with different kinds of hydraulic fluids, speed, frequency and operating temperature.

Technical specifications:

- Standard ISO 6022 and DIN 24333.
- Magnetostrictive position transducer integrated with analogue output signal (intensity or tension) or digital output signal (SSI, CAN-open, PRODIFUB-DP or IO/LINK)
- Nominal pressure 25 MPa (continuous operation)
- Maximum pressure 32 MPa
- Bore 50-320 mm
- Stroke: up to 4000 mm
- 4 Mounting styles Ref. ISO MF3 MT4 MP5 EB (basic execution)

Options:

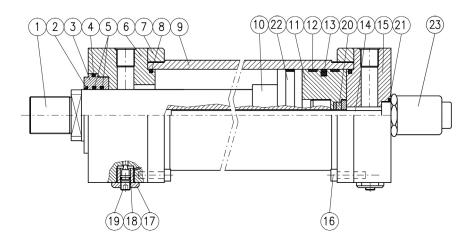
- Analogue output signal: 4/20 mA or 0/10 V
- Digital output signal: SSI, CAN-open, PROFIBUS-DP or IO/LINK
- · Front cushioning
- · Air bleeds
- Rod treatment: chromed, induction hardened and chromed, nickel-chromed
- Drainage
- Subplate CETOP 03/05
- Protection case

EPC Cylinder configurator

This is an innovative tool that allows the client to configure CCT cylinders in a rapid and intuitive way, guiding the technician through the choices of all the options available. Once the cylinder code is defined, the EPC software provides 2D, 3D and PDF drawings, and gives the user the possibility to save projects and request offers. With the complete access, reserved to the purchasing department, it is possible to make orders directly. For all orders received through EPC an extra discount will be applied.

Login at: http://configuratore.grices.it/





N°	ITEM	MATERIAL
1	Rod	Chromium-plated steel
2	Dust scraper	Nitrile rubber
3	Guide sleeve Cast iron	
4	O-Ring + anti-extrusion	Nitrile rubber + sealon
5	Rod seal	Nitrile rubber + PTFE
6	Front head	Steel
7	Counterflange	Steel
8	O-Ring + anti-extrusion	Nitrile rubber + sealon
9	Body	Steel
10	Front cushioning sleeve	Steel
11	Piston Steel	
12	Sliding guide MCF80	
13	Piston B seal Nitrile rubber + PTFE	
14	Transducer Stainless steel	
15	lear head Steel	
16	Cylindrical head screw	Steel
17	Safety plug	Steel
18	O-Ring	Nitrile rubber
19	Adjustment needle	Steel
20	Magnet ring	-
21	O-Ring	Nitrile rubber
22	Spacer	Steel
23	Position transducer	-

Mounting style





TECHNICAL CHARACTERISTICS



STANDARD ISO 6022

LINEAR POSITION TRANSDUCERS

To immediately check the rod position, install a linear position transducer.

The magnetostrictive technology allows rod position detection even in heavy duty conditions and/or high frequency applications, avoiding the contact between the moving parts.

The transducer, in addition to offering a high reliability, permits an easy maintenance. Its replacement does not require the cylinder dismounting.

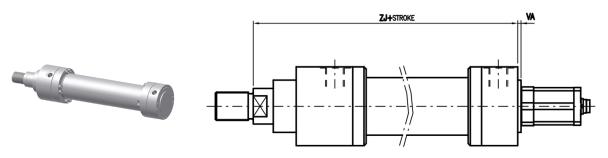
Analogue or digital versions are available.

Resolution	0,01 mm		
Independent linearity	±0,05 % (% of the total stroke)		
Repeatability	±0,01 % (% of the total stroke)		
Max. speed	2 m/sec		
Working temperature	-20 +80 °C		
Analogue/digital signal	0+10 V 10+0 V or 4+20 mA / SSI, CAN OPEN, PROFIBUS DP, IO/LINK		
Strokes	50÷3850 mm		
Max. transducer pressure	35 MPa (350 Bar)		
Power supply	24 V DC ±10 %		
Protection degree (connector installed)	IP-67		

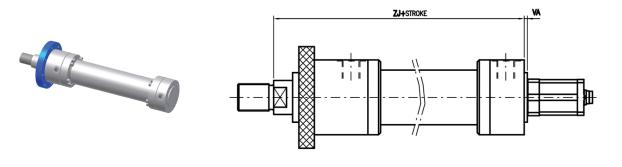


1.1 AVAILABLE VERSIONS AND DIMENSIONS

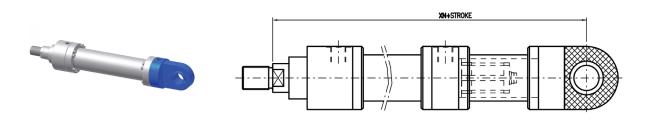




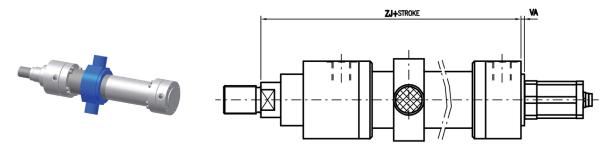
FA ISO type MF3



CS ISO type MP5







BORE	ZJ	VA	XN	
50	240	4	NA	
63	270	4	*601	
80	300	5	*646	
100	335	6	*701	
125	390	6	*840	
160	460	7	*964	
200	540	10	*1158	
250	640	10	*1405	
320 750		8	*1704	

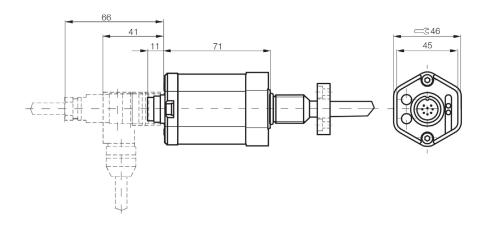
^{*} Dimensions not ISO

1.2 TRANSDUCERS DIMENSION

Transducers dimension **TYPE UT - UC - SI** with connector type:

STRAIGHT CBKS-S 32-00: Y1

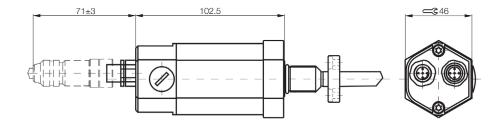
90° CBKS-S 33-00: **Y2**



Transducers dimension **TYPE HH** with connector type **Y4**:

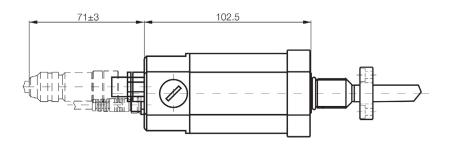
CBKS-S 92-00

CBKS-S 94-00

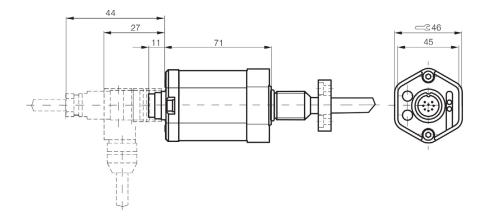


Transducers dimension **TYPE TT** with connector type **Y3**:

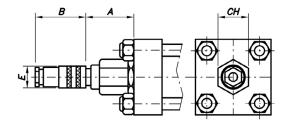
CBKS-S 105-00 CBKS-S 103-00 CBKS-S 48-15-CP-05



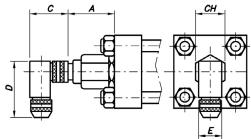




1.3 CONNECTORS DIMENSION



Type: CBKS-S 32 M-00



Type:	CBKS-S	33	M-00

Туре	A	В	С	D	E	СН
CBKS-S 32 M-00	74	69	-	-	18	46
CBKS-S 33 M-00	74	-	48	54	20	46

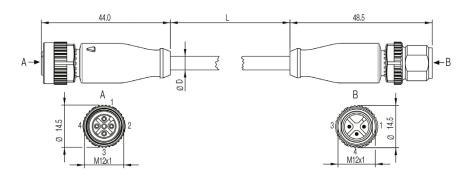
Connection	Pin	Color
_ 3 _	1	Yellow
7000	2	Grey
8 0 0 2	3	Pink
(0,0)	5	Green
6 4	6	Blue
View from the bushing weld side	7	Brown
Them the bashing word side	8	White

IO/LINK CONNETTORS

Position transducer (A)		IO/LINK Master (B)
1	L+ (1830 V)	1
2	None	-
3	L- (GND)	3
4	C/Q	4

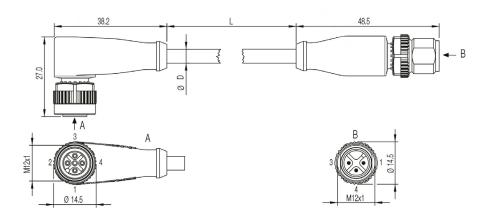
Straight outlet - straight connector option Y5 - IO/LINK

PBCC0374 with 4m cable

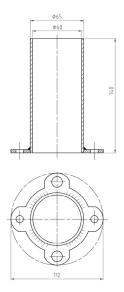


Angled outlet - straight connector option Y6 - IO/LINK

PBCC037M with 4m cable



1.4 SENSOR PROTECTION DIMENSIONS





EXAMPLE OF ORDER ACRONYM

CCT/50/36/530/OI00BUT00000Y1Q102R120XV...

CHARACTERISTIC	DESCRIPTION	SYM.	EXMAPLE	
SERIES	Tie rod execution		сст/	
BORE	Indicate in mm		CCT/ 50 /	
ROD	Indicate in mm		CCT/50/ 36 /	
STROKE	Indicate in mm		CCT/50/36/ 530 /	
	Basic	ЕВ		
	Front flange	FA		
EVECUTION	Square front flange	QA	CCT/50/20/520/01	
EXECUTION	Male hinge	СМ	CCT/50/36/530/ 01	
	Joint hinge	cs		
	Intermediate trunnion	OI		
CUSHIONING	None	0	CCT/50/36/530/OIO	
	None	0		
	50 mm	1		
SPACER	100 mm	2	CCT/50/36/530/O10 0	
	150 mm	3		
	200 mm	4		
SEALS	Nitrile + PTFE (anti-friction)	В	CCT/50/36/530/O100 B	
	Tension 0-10 V	UT		
	Electrical current 4-20 mA	UC		
TRANSDUCER	SSI Iterface	SI	CCT/E0/2C/E20/OL00BUT	
OUTPUT	CANopen Iterface	нн	CCT/50/36/530/OI00B UT	
	PROFIBUS Interface	TT		
	IO/LINK Interface	LK		
DOD END	Type M (standard)	0	CCT/F0/2C/F20/QIAODUTA	
ROD END	Type F	F	CCT/50/36/530/OI00BUT 0	
	None	0		
AIR BLEEDS	Front	G	CCT/E0/2C/E20/OL00BLIT00	
AIR BLEEDS	Rear	н	CCT/50/36/530/OI00BUT0 0	
	Front + rear	1		
DOUBLE ROD SEAL	None	0	CCT/50/36/530/OI00BUT00 0	
DOUBLE ROD SEAL	Double rod seal	L	CC1/30/36/330/0100B0100 0	
DDAINAGE	None	0	CCT/E0/26/E20/OL00BUT0000	
DRAINAGE	Rod side	w	CCT/50/36/530/OI00BUT000 0	
	Standard chromium-plated	0		
	Heavy chromium-plated, 0.045mm thick, 100h salt mist ISO 3768	P		
ROD TREATMENT	Hardening and chromium-plating	т	CCT/50/36/530/0100BUT0000 0	
	Ni-CROMAX30 chromium-plated, nickelplated, ASTM B 117 1000h	N		
	None	0		
	Straight CBKS-S 32 M-00	Y1		
	Angled 90° CBKS-S 33 M-00	Y2		
CONNECTOR	Male connector CBKS-S-105-00 Female connector CBKS-S-103-00 Supply cable CBKS-S 48-15-CP-05	Y3	CCT/50/36/530/O100BUT00000 0	
	Female connector CBNS-S92-00 Male connector CBNS-S94-00	Y4		
	Straight outlet - straight connector PBCC 0374	Y5		
	Angled outlet - straight connector PBCC 037M	Y6		



FRONT HEAD						
POS. OIL PORTS Side 1 Side 2 Side 3 Side 4		Side 4	CCT/50/36/530/OI00BUT000000 Q1			
POS. CUSHIONING		0 if not r	equested		CCT/50/36/530/OI00BUT000000Q1 0	
	0 if not requested				CCT/F0/2C/F20/OL00PHT0000000103	
POS. AIR BLEED	Side 1	Side 2	Side 3	Side 4	CCT/50/36/530/OI00BUT000000Q10 2	
REAR HEAD						
POS. OIL PORTS	PORTS Side 1 Side 2 Side 3 Side 4		Side 4	CCT/50/36/530/OI00BUT000000Q102 R1		
POS. AIR BLEED	0 if not requested				CCT/F0/2C/F20/Q100PUT0000000102P1	
POS. AIR BLEED	Side 1	Side 2	Side 3	Side 4	CCT/50/36/530/OI00BUT00000Q102R1 2	
*EXTRA ROD X QUOTE Indicate mm			CCT/50/36/530/OI00BUT000000Q102R12 0			
XV QUOTE Indicate mm (only version MT4)			n MT4)		CCT/50/36/530/OI00BUT000000Q102R120 XV	

^{*} Specify the possible extra-rod (X) size in addition to the standard rod protrusion:



Login at: http://configuratore.grices.it/

Configure your cylinder in a quick and intuitive way choosing all the available options.

Note

The indicated operating pressures are efficient for smooth applications without blows. For extreme loads or high operating pressures with high frequency, is necessary to use mounting styles and thread-rod links designed to be stress-resistant. For further information contact our Technical Department.

