



The CB hydraulic lock cylinders meet the demand for small-sized pressing devices delivering considerable pushing force.

Due to their small overall dimensions (their main characteristic), according to the model, these cylinders can be used to lock small, medium or large-sized pieces. They can also be used for riveting, bending, marking or assembly works.

Les vérins de blocage hydraulique de la série CB répondent à la demande de dispositifs de pressage de petite taille capables de fournir une force de poussée considérable.

Grâce à leurs dimensions globales réduites (leur caractéristique principale), selon le modèle, ces vérins peuvent être utilisés pour le blocage de pièces de petite, moyenne ou grande taille. Ils peuvent également être utilisés pour des opérations de rivetage, de pliage, de marquage ou d'assemblage.

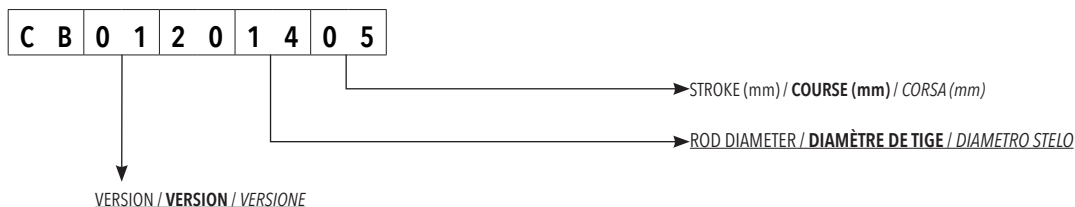
I cilindri idraulici di bloccaggio CB rispondono all'esigenza di dispositivi di spinta di piccole dimensioni ma in grado di esercitare una forza notevole.

Grazie alle loro dimensioni contenute (caratteristica principale), a seconda del modello, questi cilindri possono essere utilizzati per il bloccaggio di pezzi piccoli, medi o grandi. Possono inoltre essere impiegati in operazioni di ribaditura, piegatura, marcatura o assemblaggio.

TECHNICAL DATA / DONNÉES TECHNIQUES / DATI TECNICI

Fluid / Fluide / Fluido	Mineral Hydraulic oil / Huile hydraulique minérale / Olio idraulico minerale
Operating temperature range / Température d'utilisation / Temp. di esercizio	-20°C / +80°C
Max operating pressure / Pression maximum / Pressione massima di esercizio	200 - 320 bar
Reference ISO 16656 / Référence ISO 16656 / Riferimento ISO 16656	2004
Force / Force / Forza sviluppata	Technical informations page / Page informations techniques / Pagina dati tecnici

ORDERING CODE / CODIFICATION / CHIAVE DI CODIFICA



01



Externally threaded cylinder - spring return
Vérin fileté extérieur - retour par ressort
Cilindro esterno filettato - ritorno a molla

02



Externally threaded cylinder - spring return
Vérin fileté extérieur - retour par ressort
Cilindro esterno filettato - ritorno a molla

03



Through-hole smooth bore cylinders - smooth outer surface - spring return
Vérin à alésage traversant lisse - surface extérieure lisse - retour par ressort
Cilindro foro passante liscio - esterno liscio - ritorno a molla

04



Threaded through-hole cylinders - threaded outer surface - spring return
Vérin à alésage traversant fileté - surface extérieure filetée - retour par ressort
Cilindro foro passante filettato - esterno filettato - ritorno a molla

06



Pull-type cylinder - threaded outer surface - spring return
Vérin tirant - surface extérieure filetée - retour par ressort
Cilindro traente - esterno filettato - ritorno a molla

08



Double-acting cylinder - threaded outer surface
Vérin double effet - surface extérieure filetée
Cilindro a doppio effetto - esterno filettato

09



Spring locking cylinder - hydraulic unlocking
Vérin de verrouillage à ressorts - déverrouillage hydraulique
Cilindro di bloccaggio a molle - sblocco idraulico

THE KEY POINTS / LES POINTS CLES / PUNTI DI FORZA

Rod and piston are perfectly guided thanks to anti-wear systems that prevent play over time.

La tige et le piston sont parfaitement guidés grâce à des systèmes anti-usure qui empêchent tout jeu dans le temps.

Stelo e pistone sono perfettamente guidati grazie a sistemi antiusura che ne impedisce il gioco a distanza di tempo.

Case-hardened and tempered rods translate into a long service life.

Tiges cémentées et trempées se traduisent par une longue durée de vie.

Steli cementati e temprati si traduce in lunga vita di servizio

The high-strength quenched and tempered steel supporting body allows for high operating pressures.

Le corps porteur en acier trempé et revenu à haute résistance permet de supporter des pressions de fonctionnement élevées.

Il corpo portante in acciaio bonificato di alta resistenza consentono elevate pressioni di funzionamento.

Polyurethane single-acting piston seals ensure leak-free performance..

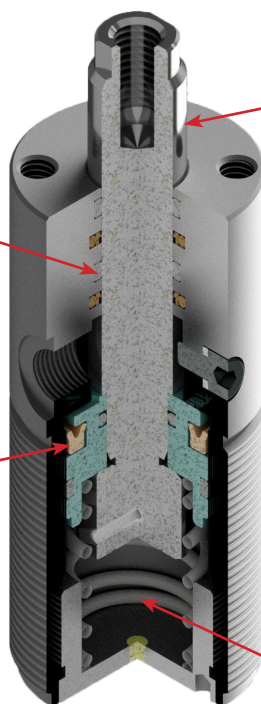
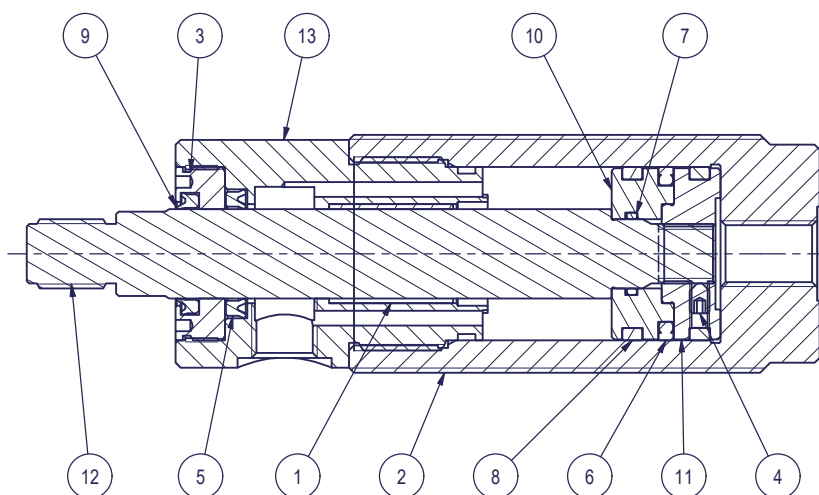
Les joints de piston unidirectionnels en polyuréthane garantissent des performances sans fuite.

Guarnizioni pistone unidirezionale in poliuretano, garantisce prestazioni senza perdite.

High-strength stainless steel spring with shot peening treatment to ensure long-term stability.

Ressort en acier inoxydable à haute résistance avec un traitement de grenaillage pour garantir une stabilité dans le temps.

Molla in acciaio inossidabile ad alta resistenza con trattamento di pallinatura per conferire stabilità nel tempo.


COMPONENTS / COMPOSANTS / COMPONENTI


N.	DESCRIPTION / DESCRIPTION / DESCRIZIONE	MATERIAL / MATIÈRE / MATERIALE
1	cut guide bushing / bague de guidage tronquée / bussola guida tagliata	sintered bronze / bronze fritté / bronzo sinterizzato
2	body / corps / corpo	high strength steel / acier à haute résistance / acciaio alta resistenza
3	lock ring / bague de serrage / ghiera	steel / acier / acciaio
4	screw / vis / grano	steel / acier / acciaio
5	lip seal / joint à lèvres / guarnizione a labbro	polyurethane / polyuréthane / poliuretano
6	external seal / joint d'étanchéité externe / guarnizione tenuta esterna	polyurethane / polyuréthane / poliuretano
7	o-ring / joint torique / o-ring	nbr
8	guide skate / patin de guidage / pattino guida	ptfe
9	scraper / racleur / raschiatore	polyurethane / polyuréthane / poliuretano
10	semi-piston / demi-piston / semipistone	steel / acier / acciaio
11	semi-piston / demi-piston / semipistone	steel / acier / acciaio
12	rod / tige / stelo	chromed steel / acier chromé / acciaio cromato
13	head / tête / testata	steel / acier / acciaio



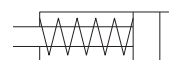
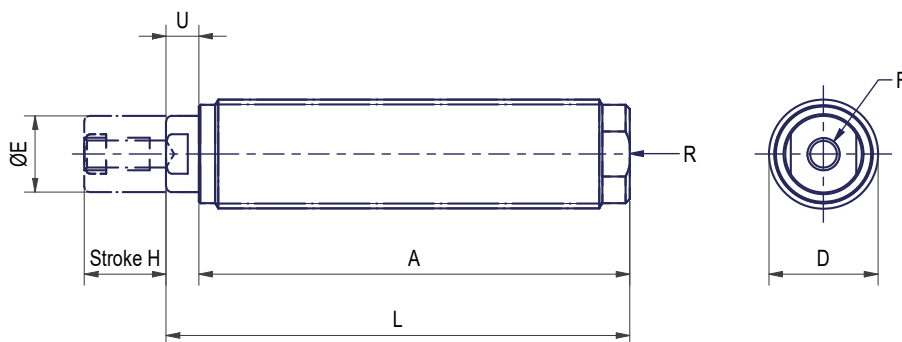
EXTERNALLY THREADED CYLINDER - SPRING RETURN - CB01 SERIES

VÉRIN FILETÉ EXTÉRIEUR - RETOUR PAR RESSORT - SÉRIE CB01

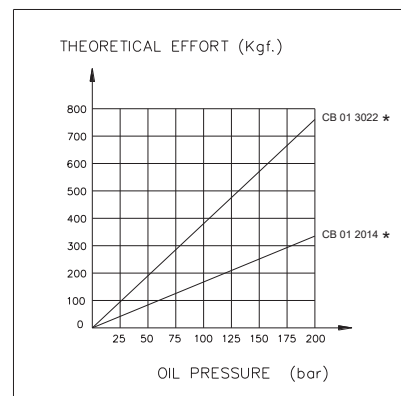
CILINDRO ESTERNO FILETTATO - RITORNO A MOLLA - SERIE CB01

TECHNICAL DATA / **DONNÉES TECHNIQUES** / **DATI TECNICI**

CODE	Strength at 200 bar in kg Résistance à 200 bars en kg Resistenza a 200 bar in kg	Stroke in mm Course en mm Corsa in mm	Oil volume in cm ³ Volume d'huile en cm ³ Volume dell'olio in cm ³	Piston area in cm ² Surface du piston en cm ² Area del pistone in cm ²	Oil infeed R Alimentation en huile R Alimentazione olio R
CB 01 201405	307	5	0,76	1,53	1/8 G
CB 01 201415	307	15	2,30	1,53	1/8 G
CB 01 201425	307	25	3,80	1,53	1/8 G
CB 01 302205	760	5	1,80	3,80	1/8 G
CB 01 302215	760	15	5,70	3,80	1/8 G
CB 01 302225	760	25	9,50	3,80	1/8 G

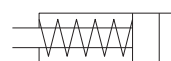
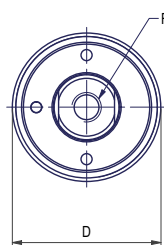
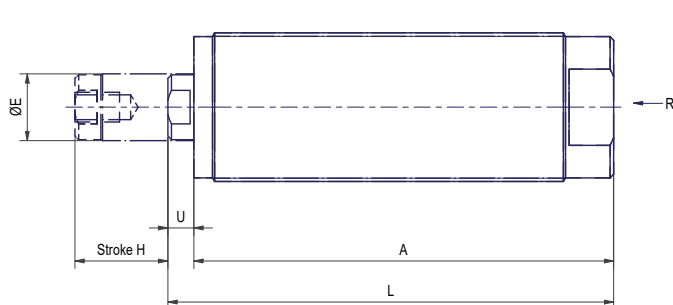


CODE	A	D	E	F	L	U
CB 01 201405	46	M 20 X 1,5	14	M 6 X 10	52	6
CB 01 201415	79	M 20 X 1,5	14	M 6 X 10	85	6
CB 01 201425	108	M 20 X 1,5	14	M 6 X 10	114	6
CB 01 302205	57	M 30 X 1,5	22	M 8 X 10	64	7
CB 01 302215	77	M 30 X 1,5	22	M 8 X 10	84	7
CB 01 302225	110	M 30 X 1,5	22	M 8 X 10	117	7

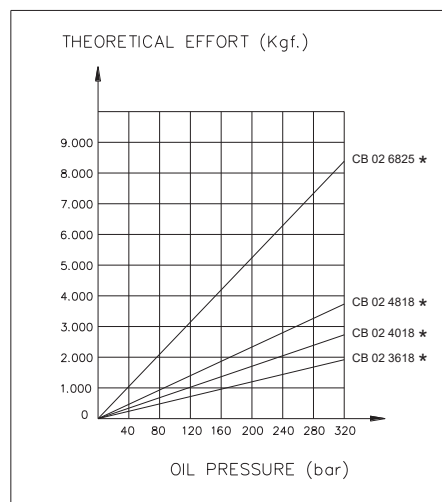


EXTERNALLY THREADED CYLINDER - SPRING RETURN - CB02 SERIES
VÉRIN FILETÉ EXTÉRIEUR - RETOUR PAR RESSORT - SÉRIE CB02
CILINDRO ESTERNO FILETTATO - RITORNO A MOLLA - SERIE CB02
TECHNICAL DATA / DONNÉES TECHNIQUES / DATI TECNICI

CODE	Strength at 320 bar in kg Résistance à 320 bars en kg Resistenza a 320 bar in kg	Stroke in mm Course en mm Corsa in mm	Oil volume in cm ³ Volume d'huile en cm ³ Volume dell'olio in cm ³	Piston area in cm ² Surface du piston en cm ² Area del pistone in cm ²	Oil infeed R Alimentation en huile R Alimentazione olio R
CB 02 361815	1968	15	9,20	6,15	1/8 G
CB 02 361825	1968	25	15,40	6,15	1/8 G
CB 02 401815	2569	15	12,00	8,03	1/4 G
CB 02 401825	2569	25	20,00	8,03	1/4 G
CB 02 481825	3436	25	26,80	10,74	1/4 G
CB 02 481850	3436	50	53,60	10,74	1/4 G
CB 02 682525	8160	25	63,80	25,50	3/8 G
CB 02 682550	8160	50	127,60	25,50	3/8 G



CODE	A	D	E	F	L	U
CB 02 361815	74	M 36 X 1,5	18	M 8 X 12	81	7
CB 02 361825	100	M 36 X 1,5	18	M 8 X 12	107	7
CB 02 401815	83	M 40 X 1,5	18	M 8 X 12	90	7
CB 02 401825	113	M 40 X 1,5	18	M 8 X 12	120	7
CB 02 481825	116	M 48 X 1,5	18	M 10 X 15	123	7
CB 02 481850	153	M 48 X 1,5	18	M 10 X 15	160	7
CB 02 682525	130	M 68 X 2,0	25	M 12 X 15	138	8
CB 02 682550	175	M 68 X 2,0	25	M 12 X 15	183	8

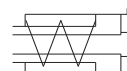
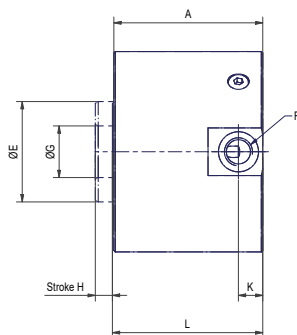
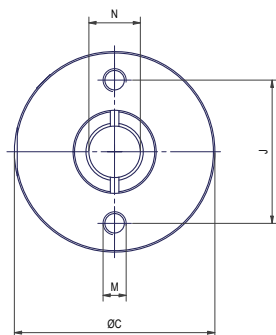
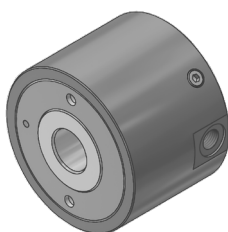




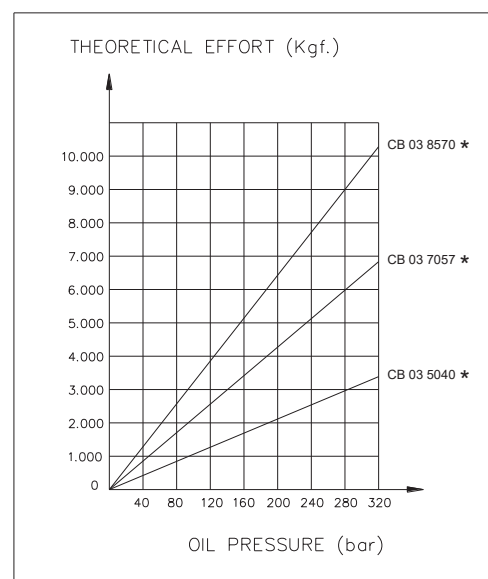
THROUGH-HOLE SMOOTH BORE CYLINDERS - SMOOTH OUTER SURFACE - SPRING RETURN - CB03 SERIES
VÉRIN À ALÉSAGE TRAVERSANT LISSE - SURFACE EXTÉRIEURE LISSE - RETOUR PAR RESSORT - SÉRIE CB03
CILINDRO FORO PASSANTE LISCIO - ESTERNO LISCIO - RITORNO A MOLLA - SERIE CB03

TECHNICAL DATA / **DONNÉES TECHNIQUES** / **DATI TECNICI**

CODE	Strength at 320 bar in kg Résistance à 320bars en kg Resistenza a 320 bar in kg	Stroke in mm Course en mm Corsa in mm	Oil volume in cm ³ Volume d'huile en cm³ Volume dell'olio in cm ³	Piston area in cm ² Surface du piston en cm² Area del pistone in cm ²	Oil infeed R Alimentation en huile R Alimentazione olio R
CB 03 504006	3206	6	6,01	10,02	1/8 G
CB 03 504012	3206	12	12,02	10,02	1/8 G
CB 03 705706	6710	1	13,36	20,97	1/8 G
CB 03 705712	6710	12	24,72	20,97	1/4 G
CB 03 857006	10345	6	19,38	32,33	1/4 G
CB 03 857012	10345	12	38,76	32,33	1/4 G



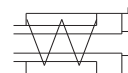
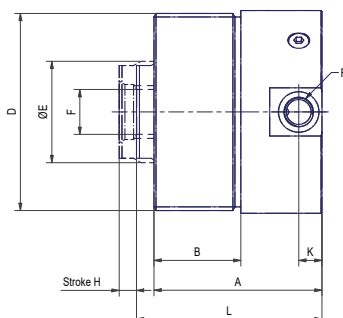
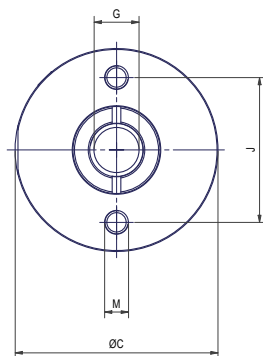
CODE	A	C	E	J	K	L	M	N
CB 03 504006	50	50	24	35	8	50,5	M 6 X 9	18
CB 03 504012	80	50	24	35	8	80,5	M 6 X 9	18
CB 03 705706	52	70	35	50	8,5	52,5	M 8 X 10	24
CB 03 705712	80	70	35	50	10,5	80,5	M 8 X 10	24
CB 03 857006	62	85	40	50	10,5	62,5	M 8 X 10	28
CB 03 857012	80	85	40	50	10,5	80,5	M 8 X 10	28



THREADED THROUGH-HOLE CYLINDERS - THREADED OUTER SURFACE - SPRING RETURN - CB04 SERIES
VÉRIN À ALÉSAGE TRAVERSANT FILETÉ - SURFACE EXTÉRIEURE FILETÉE - RETOUR PAR RESSORT - SÉRIE CB04
CILINDRO FORO PASSANTE FILETTATO - ESTERNO FILETTATO - RITORNO A MOLLA - SERIE CB04

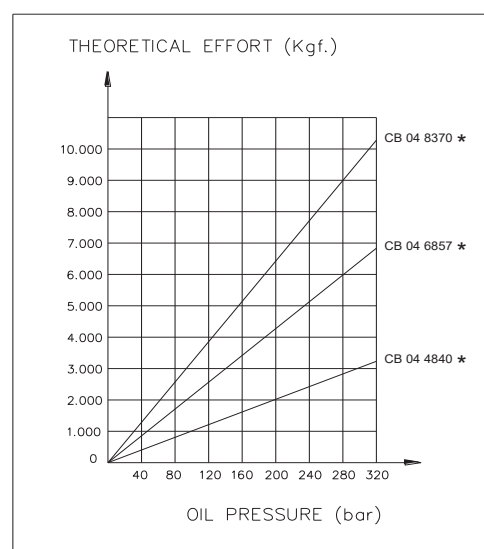
TECHNICAL DATA / DONNÉES TECHNIQUES / DATI TECNICI

CODE	Strength at 320 bar in kg Résistance à 320bars en kg Resistenza a 320 bar in kg	Stroke in mm Course en mm Corsa in mm	Oil volume in cm ³ Volume d'huile en cm ³ Volume dell'olio in cm ³	Piston area in cm ² Surface du piston en cm ² Area del pistone in cm ²	Oil infeed R Alimentation en huile R Alimentazione olio R
CB 04 484006	3206	6	6,01	10,02	1/8 G
CB 04 484012	3206	12	12,02	10,02	1/8 G
CB 04 685706	6710	1	13,36	20,97	1/8 G
CB 04 685712	6710	12	24,72	20,97	1/4 G
CB 04 837006	10345	6	19,38	32,33	1/4 G
CB 04 837012	10345	12	38,76	32,33	1/4 G



CODE	A	B	C	D	E	F
CB 04 484006	50	30	50	M 48 X 1,5	24	M 12
CB 04 484012	80	45	50	M 48 X 1,5	24	M 12
CB 04 685706	58	30	70	M 68 X 2	35	M 18
CB 04 685712	64	36	70	M 68 X 2	35	M 18
CB 04 837006	62	35	85	M 83 X 2	40	M 20
CB 04 837012	80	45	85	M 83 X 2	40	M 20

CODE	G	J	K	L	M	P
CB 04 484006	12	35	8	56	M 6 X 9	22
CB 04 484012	12	35	8	86	M 6 X 9	40
CB 04 685706	18.5	50	8	64	M 8 X 10	30,5
CB 04 685712	18,5	50	8	70	M 8 X 10	30,5
CB 04 837006	20	50	10,5	68	M 8 X 10	27
CB 04 837012	20	50	10,5	86	M 8 X 10	40

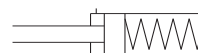
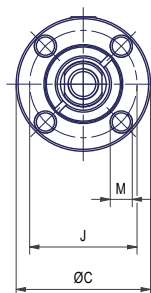
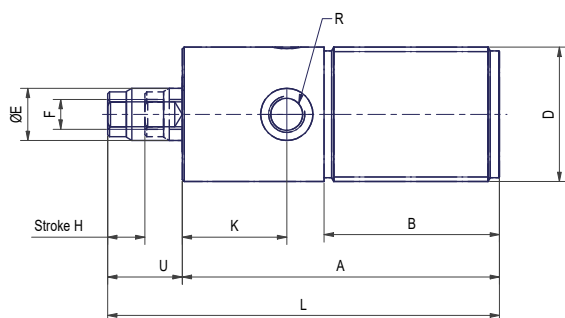
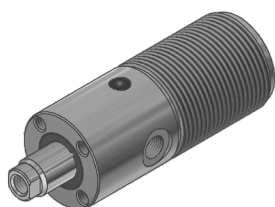




PULL-TYPE CYLINDER - THREADED OUTER SURFACE - SPRING RETURN - CB06 SERIES
VÉRIN TIRANT - SURFACE EXTÉRIEURE FILETÉE - RETOUR PAR RESSORT - SÉRIE CB06
CILINDRO TRAENTE - ESTERNO FILETTATO - RITORNO A MOLLA - SERIE CB06

TECHNICAL DATA / **DONNÉES TECHNIQUES** / **DATI TECNICI**

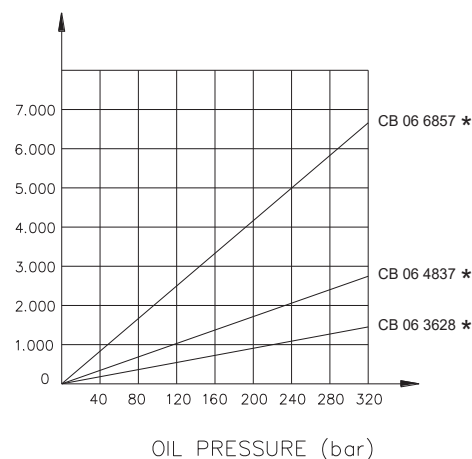
CODE	Strength at 320 bar in kg Résistance à 320bars en kg <i>Resistenza a 320 bar in kg</i>	Stroke in mm Course en mm <i>Corsa in mm</i>	Oil volume in cm ³ Volume d'huile en cm³ <i>Volume dell'olio in cm³</i>	Piston area in cm ² Surface du piston en cm² <i>Area del pistone in cm²</i>	Oil infeed R Alimentation en huile R <i>Alimentazione olio R</i>
CB 06 362810	1478	10	4,62	4,62	1/8 G
CB 06 362825	1478	25	11,55	4,62	1/8 G
CB 06 483710	2624	10	8,20	8,2	1/8 G
CB 06 483725	2624	25	20,50	8,2	1/8 G
CB 06 685710	6595	10	20,61	20,61	1/4 G
CB 06 685725	6595	25	51,52	20,61	1/4 G



CODE	A	B	C	D	E
CB 06 362810	85	47	36	M 36 X 1,5	14
CB 06 362825	100	63	36	M 36 X 1,5	14
CB 06 483710	85	53	48	M 48 X 1,5	18
CB 06 483725	100	68	48	M 48 X 1,5	18
CB 06 685710	100	58	68	M 68 X 2	25
CB 06 685725	115	74	68	M 68 X 2	25

CODE	F	K	J	L	M	U
CB 06 362810	M 8 X 15	28	28	103	M 6 X 10	20
CB 06 362825	M 8 X 15	28	28	135	M 6 X 10	35
CB 06 483710	M 10 X 20	25	37	105	M 6 X 12	20
CB 06 483725	M 10 X 20	25	37	135	M 6 X 12	35
CB 06 685710	M 14 X 20	32	50	120	M 8 X 15	20
CB 06 685725	M 14 X 20	32	50	150	M 8 X 15	35

THEORETICAL EFFORT (Kgf.)

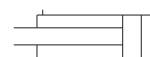
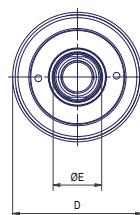
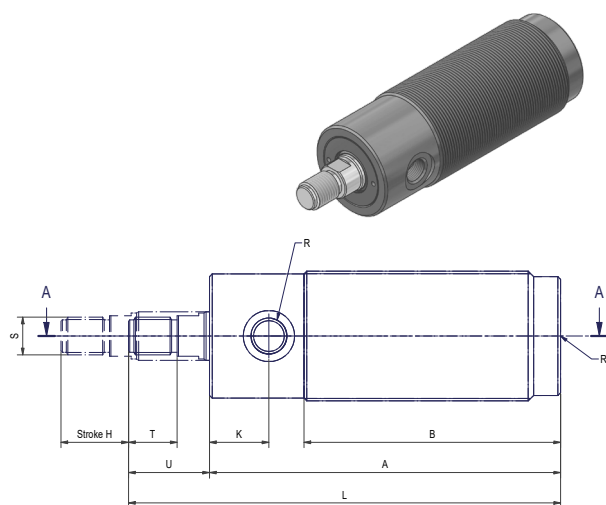




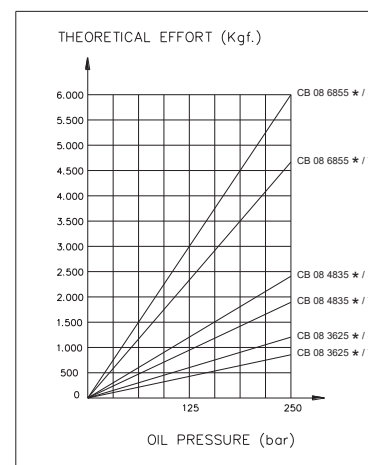
DOUBLE-ACTING CYLINDER - THREADED OUTER SURFACE - CB08 SERIES
VÉRIN DOUBLE EFFET - SURFACE EXTÉRIEURE FILETÉE - SÉRIE CB08
CILINDRO A DOPPIO EFFETTO - ESTERNO FILETTATO - SERIE CB08

TECHNICAL DATA / **DONNÉES TECHNIQUES** / **DATI TECNICI**

CODE	Force at 250 bar in kgf Force à 250 bar en kgf <i>Sforzo a 250 bar in kgf.</i>		Stroke in mm Course en mm <i>Corsa in mm</i>	Oil volume in cm ³ Volume d'huile en cm³ <i>Volume dell'olio in cm³</i>		Piston area in cm ² Surface du piston en cm² <i>Area del pistone in cm²</i>		Oil infeed R Alimentation en huile R <i>Alimentazione olio R</i>
	Push Pousser <i>Spinta</i>	Traction Traction <i>Trazione</i>		Push Pousser <i>Spinta</i>	Traction Traction <i>Trazione</i>	Push Pousser <i>Spinta</i>	Traction Traction <i>Trazione</i>	
CB 08 362525	1225	840	25	12,25	8,42	4,9	3,37	1/8 G
CB 08 362550	1225	840	50	24,50	16,85	4,9	3,37	1/8 G
CB 08 362580	1225	840	80	39,20	26,96	4,9	3,37	1/8 G
CB 08 3625100	1225	840	100	49,00	33,80	4,9	3,37	1/8 G
CB 08 483525	2405	1770	25	24,05	17,70	9,62	7,08	1/4 G
CB 08 483550	2405	1770	50	48,10	35,40	9,62	7,08	1/4 G
CB 08 483580	2405	1770	80	76,96	56,65	9,62	7,08	1/4 G
CB 08 4835100	2405	1770	100	96,20	70,80	9,62	7,08	1/4 G
CB 08 685550	5937	4712	50	118,75	94,25	23,75	18,85	3/8 G
CB 08 685580	5937	4712	80	190,99	150,80	23,75	18,85	3/8 G
CB 08 6855100	5937	4712	100	237,50	188,50	23,75	18,85	3/8 G



CODE	A	B	D	E	K	L	S	T	U
CB 08 362525	121	93	M 36X1,5	14	18	145	M 10X1,25	14	24
CB 08 362550	146	118	M 36X1,5	14	18	170	M 10X1,25	14	24
CB 08 362580	176	148	M 36X1,5	14	18	200	M 10X1,25	14	24
CB 08 3625100	196	168	M 36X1,5	14	18	220	M 10X1,25	14	24
CB 08 483525	130	95	M 48X1,5	18	22	160	M 14X1,5	18	30
CB 08 483550	155	120	M 48X1,5	18	22	185	M 14X1,5	18	30
CB 08 483580	185	150	M 48X1,5	18	22	215	M 14X1,5	18	30
CB 08 4835100	205	170	M 48X1,5	18	22	235	M 14X1,5	18	30
CB 08 685550	175	132	M 68X2	25	28	213	M 20X1,5	25	38
CB 08 685580	205	162	M 68X2	25	28	243	M 20X1,5	25	38
CB 08 6855100	225	182	M 68X2	25	28	263	M 20X1,5	25	38





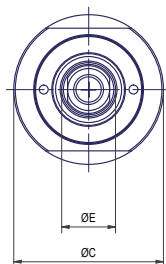
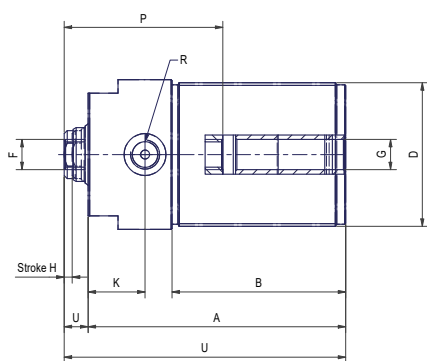
SPRING LOCKING CYLINDER - HYDRAULIC UNLOCKING - CB09 SERIES

VÉRIN DE VERROUILLAGE À RESSORTS - DÉVERROUILLAGE HYDRAULIQUE - SÉRIE CB09

CILINDRO DI BLOCCAGGIO A MOLLE - SBLOCCO IDRAULICO - SERIE CB09

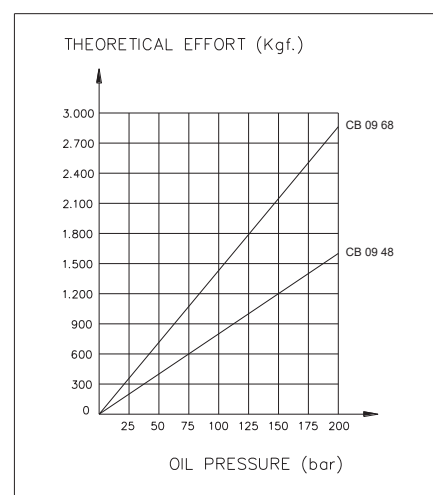
TECHNICAL DATA / DONNÉES TECHNIQUES / DATI TECNICI

CODE	Strength at 200 bar in kg Résistance à 200bars en kg Resistenza a 200 bar in kg	Stroke in mm Course en mm Corsa in mm	Oil volume in cm ³ Volume d'huile en cm ³ Volume dell'olio in cm ³	Piston area in cm ² Surface du piston en cm ² Area del pistone in cm ²	Oil infeed R Alimentation en huile R Alimentazione olio R
CB 09 48	1100	2,7	2,3	8,20	1/8 G
CB 09 68	2500	3,7	5,3	14,20	1/8 G



CODE	A	B	C	D	E
CB 09 48	86	58	50	M 48 X 1,5	18
CB 09 68	120	85	60	M 60 X 2	22

CODE	F	G	K	L	P	U
CB 09 48	M 10 X 1,5	10,1	19	94	40	8
CB 09 68	M 16 X 2	16,1	19	129	40	9



MOUNTING ACCESSORIES

ACCESSOIRES DE FIXATION

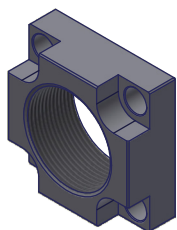
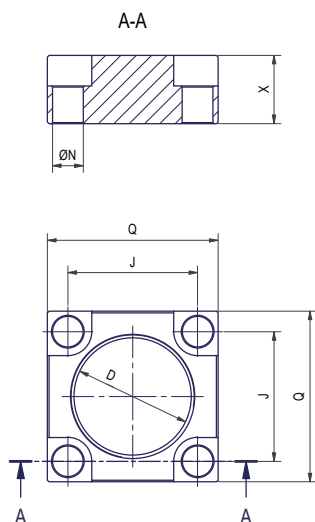
ACCESSORI DI FISSAGGIO

SQUARE SUPPORT BASES

BASES DE SUPPORT CARRÉES

BASI DI SUPPORTO QUADRATE

Material: Steel
Matière: Acier
Materiale: Acciaio



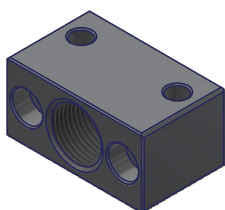
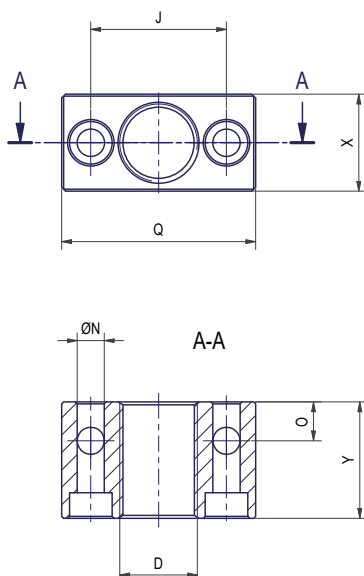
CODE	D	J	N	Q	X
BQ 36	M 36 X 1,5	38	9	50	20
BQ 48	M 48 X 1,5	44	9	60	25
BQ 68	M 68 X 2	64	11	80	30

RECTANGULAR SUPPORT BASES

BASES DE SUPPORT RECTANGULAIRES

BASI DI SUPPORTO RETTANGOLARI

Material: Steel
Matière: Acier
Materiale: Acciaio



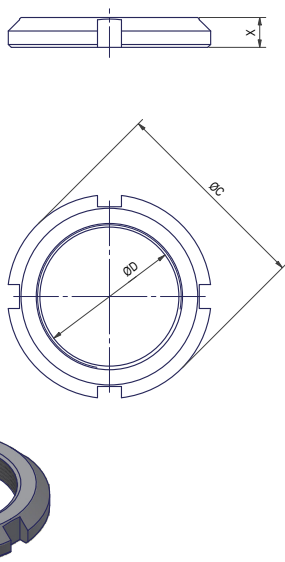
CODE	D	J	N	O	Q	X	Y
BS 20	M 20X1,5	35	7	10	50	25	30
BS 30	M 30X1,5	50	9	12	70	40	30
BS 36	M 36X1,5	55	9	12	70	40	30
BS 40	M 40X1,5	60	9	12	80	50	40
BS 48	M 48X1,5	70	9	12	90	60	40
BS 68	M 68X2	90	11	15	110	80	50



MOUNTING ACCESSORIES
ACCESSOIRES DE FIXATION
ACCESSORI DI FISSAGGIO

RING NUTS
ÉCROUS À ENCOCHES
DADI A CORONA

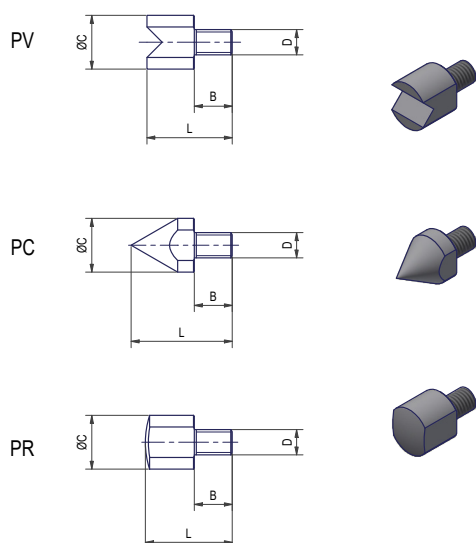
Material: Steel
Matière: Acier
Materiale: Acciaio



CODE	C	D	X
GF 20	28	M 20 X 1,5	5
GF 30	45	M 30 X 1,5	7
GF 36	52	M 36 X 1,5	8
GF 40	58	M 40 X 1,5	9
GF 48	68	M 48 X 1,5	10
GF 68	85	M 68 X 2	12

TIPS
POINTES
PUNTE

Material: Steel
Matière: Acier
Materiale: Acciaio



CODE	B	C	D	L
PR 1306	10	13	M6	20
PC 1306	10	13	M6	25
PV 1306	10	13	M6	20
PR 1708	12	17	M8	27
PC 1708	12	17	M8	32
PV 1708	12	17	M8	27