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CILINDROS HIDRAULICOS  
**Hydraulic Cylinders**

**CILINDROS DE DOBLE EFECTO**

Cilindro hidráulico de doble efecto standard. Tabla de medidas  
Cilindro hidráulico de doble efecto standard.  
Cilindro hidráulico de doble efecto standard. Accesorios (1).  
Cilindro hidráulico de doble efecto standard. Accesorios (2).

**DOUBLE ACTING HYDRAULIC CYLINDERS**

Double acting hydraulic cylinders. Table of dimensions.  
Double acting hydraulic cylinders.  
Double acting hydraulic cylinders. Accessories (1).  
Double acting hydraulic cylinders. Accessories (2).

CILINDROS HIDRÁULICOS / HYDRAULIC CYLINDERS  
 CILINDROS DE DOBLE EFECTO / DOUBLE ACTING HYDRAULIC CYLINDERS  
**Tabla de medidas / Table of dimensions**

REFERENCIA Reference	ØA	ØB	Z CARRERA Stroke	E	C	ØD	F	ØG	H	ØI	J	K	L	M	PESO Kg Weight Kg	VOL (l) Vol (l)
DE-20-32-100-ST			100	255											1,8	0,12
DE-20-32-150-ST	20	32	150	305	17	16,2	35	40	48	30	38	34	13	1/4"	2,1	0,15
DE-20-32-200-ST			200	355											2,4	0,18
DE-25-40-200-ST			200	370											3,9	0,25
DE-25-40-300-ST	25	40	300	470	17,5	20,2	40	50	63,5	35	31,5	44	19	3/8"	4,8	0,38
DE-25-40-400-ST			400	570											5,8	0,50
DE-30-50-200-ST			200	400											5,7	0,39
DE-30-50-300-ST			300	500											6,9	0,59
DE-30-50-400-ST	30	50	400	600	22	25,2	45	60	84	40	34	43	19	3/8"	8,1	0,79
DE-30-50-500-ST			500	700											9,3	1,00
DE-30-50-600-ST			600	800											10,5	1,20
DE-30-60-200-ST			200	400											6,9	0,57
DE-30-60-300-ST			300	500											8,3	0,85
DE-30-60-400-ST	30	60	400	600	22	25,2	45	70	82	40	34	44	19	3/8"	9,6	1,13
DE-30-60-500-ST			500	700											10,9	1,41
DE-30-60-600-ST			600	800											12,2	1,70
DE-30-60-700-ST			700	900											13,5	1,98
DE-40-70-200-ST			200	410											10,2	0,80
DE-40-70-300-ST			300	510											12,1	1,18
DE-40-70-400-ST			400	610											14,0	1,56
DE-40-70-500-ST	40	70	500	710	28	30,5	55	80	81	50	39	49	19	3/8"	15,9	1,94
DE-40-70-600-ST			600	810											17,8	2,32
DE-40-70-700-ST			700	910											19,7	2,70
DE-40-80-300-ST			300	510											14,1	1,50
DE-40-80-400-ST			400	610											16,1	2,00
DE-40-80-500-ST	40	80	500	710	28	30,5	55	90	75	50	41	54	19	3/8"	18,1	2,50
DE-40-80-600-ST			600	810											20,1	3,00
DE-40-80-700-ST			700	910											22,1	3,50
DE-50-100-400-ST			400	625											28,3	3,15
DE-50-100-500-ST			500	725											21,8	3,95
DE-50-100-600-ST	50	100	600	825	28	30,5	70	115	82	60	41	59	19	3/8"	35,3	4,75
DE-50-100-700-ST			700	925											38,8	5,55
DE-50-100-800-ST			800	1025											42,3	6,35
DE-50-100-900-ST			900	1125											45,8	7,15

**DATOS TECNICOS**

**CARACTERISTICAS CONSTRUCTIVAS**

**VASTAGO**

- Material: F1140 (CK45)
- Acabado: Rectificado y cromado.
- Espesor capa de cromo 25 micras.

**CAMISA**

- Material: ST-52
- Acabado: H9

**CABEZA CIERRE**

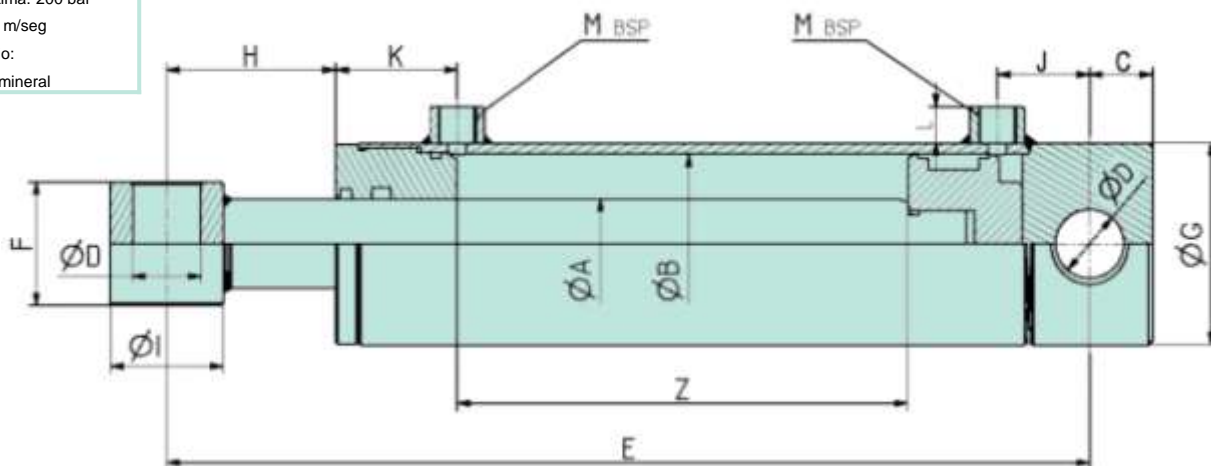
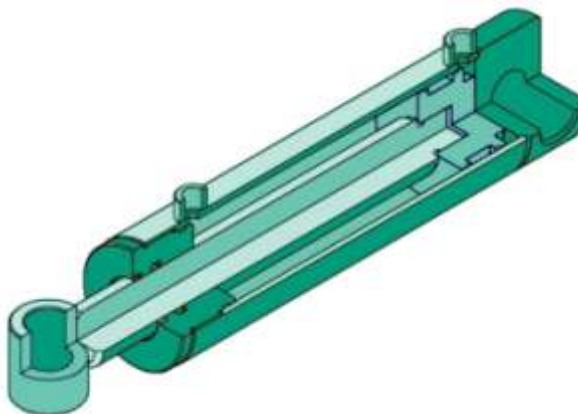
- Material: ST-52 nitrurado

**ELEMENTOS ESTANQUEIDAD**

- Junta vástago doble labio en poliuretano (AU)
- Junta de pistón compacta doble efecto monoblock
- Cierres estáticos mediante anillos tóricos NBR 70 Sh.

**CARACTERISTICAS FUNCIONALES**

- Presión de trabajo máxima: 200 bar
- Velocidad máxima: 0,5 m/seg
- Temperatura de servicio:
- Aceite hidráulico base mineral



**Technical Data**

**Raw Materials Characteristics**

**ROD**

- Steel: F1140 (CK45)
- Hard chrome rectified
- Chromium layer 25 microns.

**TUBE**

- Steel: ST-52
- Finishing: H9

**GUIDE-BUSHING**

- Steel: ST-52 nitride hardening

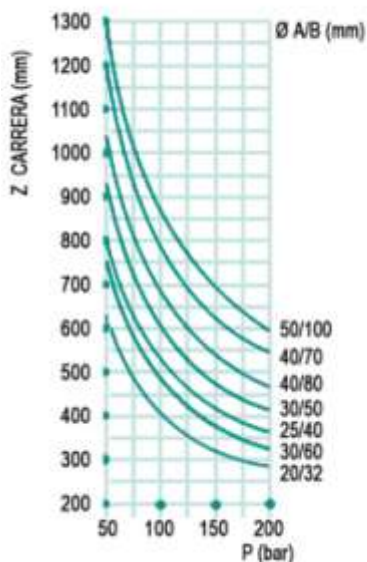
**SEALS**

- Rod seal: solid thermoplastic polyurethane seal with double lip(AU)
- Piston seal: monoblock polyurethane seal plus rubber O-ring and guide seals.
- Static: NBR rubber O-ring 70 Sh.

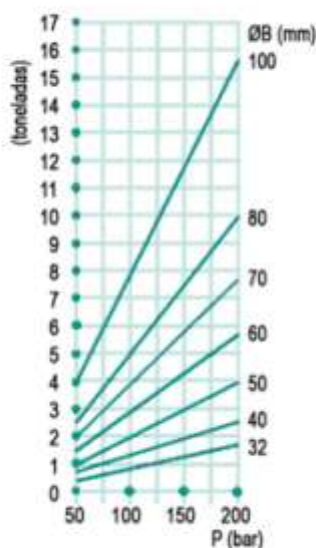
**Functional characteristics**

- Maximum working pressure: 200 bar
- Maximum working speed: 0,5 m/seg
- Temperature:
- Oil: mineral hydraulic

**PANDEO**  
Buckling



**FUERZA DE EMPUJE**  
Upward thrust



**FUERZA DE TRACCION**  
Downward thrust

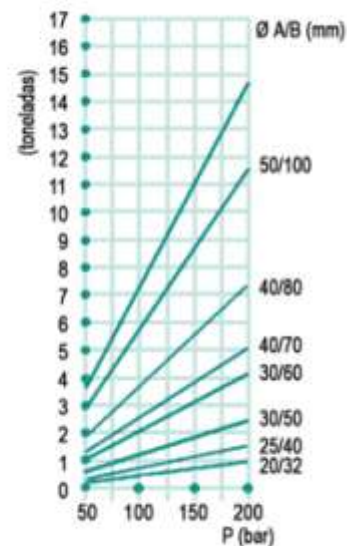

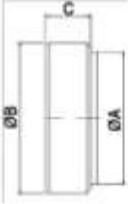

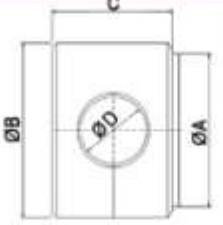

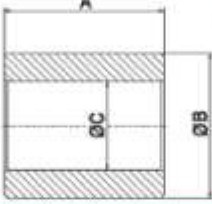

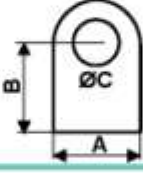

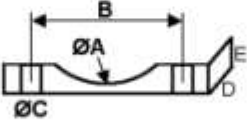

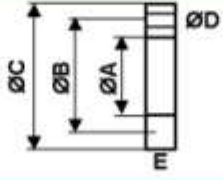

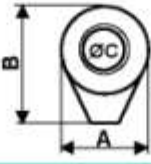

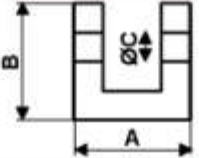
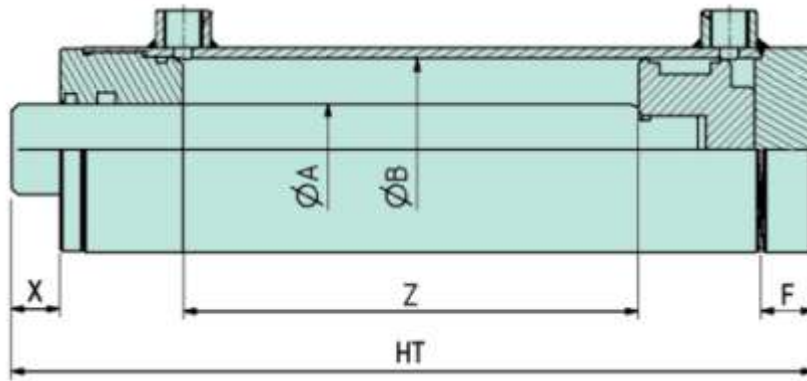


FOTO Photo	REFERENCIA Reference	DIBUJO Drawing	A	B	C	D	E
	Tapa trasera		32	40	12	--	--
			40	50	12	--	--
			50	60	12	--	--
			60	70	12	--	--
			70	80	12	--	--
			80	90	12	--	--
			100	115	12	--	--
	Tapón trasero taladrado		32	40	35	20	--
			40	50	35	20	--
			50	60	44	25	--
			60	70	44	25	--
			70	80	55	30	--
			80	90	55	30	--
			100	115	55	30	--
	Casquillo		35	30	16	--	--
			40	35	20	--	--
			45	40	25	--	--
			55	50	30	--	--
			70	60	30	--	--
	Oreja		A definir por el cliente				
	Pata		A definir por el cliente				
	Brida		A definir por el cliente				
	Rótula standard. Vástago y cuerpo.		Consultar medidas				
	Horquilla		Consultar medidas				



REFERENCIA	Ø A VASTAGO	Ø B PISTON	Z CARRERA	F min	X min	HT min
Reference	Rod	Piston	Stroke	F min	X min	HT min
51020032XXXX-01	20	32	0-4000	12	13	Z + 116
51025040XXXX-01	25	40	0-4000	12	13	Z + 116
51030050XXXX-01	30	50	0-4000	14	13	Z + 121
51030060XXXX-01	30	60	0-4000	14	13	Z + 123
51040070XXXX-01	40	70	0-4000	16	13	Z + 129
51040080XXXX-01	40	80	0-4000	16	13	Z + 135
51050100XXXX-01	50	100	0-3000	18	13	Z + 143