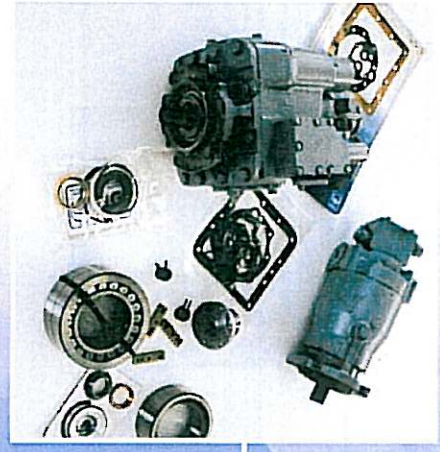
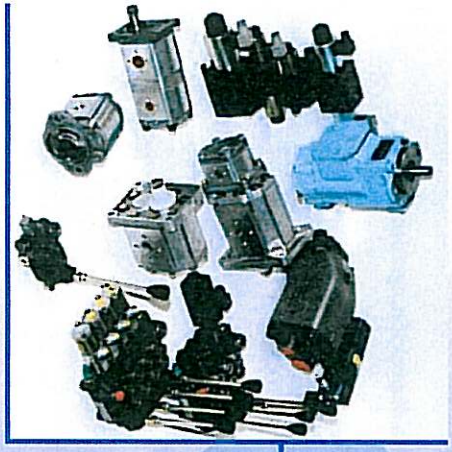




PEDRO OLIVA

CATÁLOGO DE CILÍNDROS HIDRÁULICOS AGRÍCOLAS

sistemas hidroneumáticos

Presentación

Sistemas Hidroneumáticos Pedro Oliva, S.L. es una empresa joven pero que cuenta con una gran experiencia y especialización en la atención y servicio a la industria.

Desde 1991, hemos ido avanzando y mejorando, esforzándonos en la consecución de nuestro principal objetivo: DAR SOLUCIONES DE MÁXIMA CALIDAD A NUESTROS CLIENTES.

En la actualidad, contamos con un equipo humano dinámico, y con un amplio conocimiento que nos permite cubrir las necesidades específicas de cada cliente, en un mercado cada vez más competitivo y exigente.

Hemos querido presentar este catálogo informativo, como muestra resumen de nuestra amplia y variada gama de productos de gran calidad. Ofrecerles nuestra atención directa personalizada, y nuestro servicio de asesoramiento técnico cualificado.

Esperamos que sea de su interés y quedamos a su entera disposición, agradeciendo de antemano su confianza.

Atentamente,

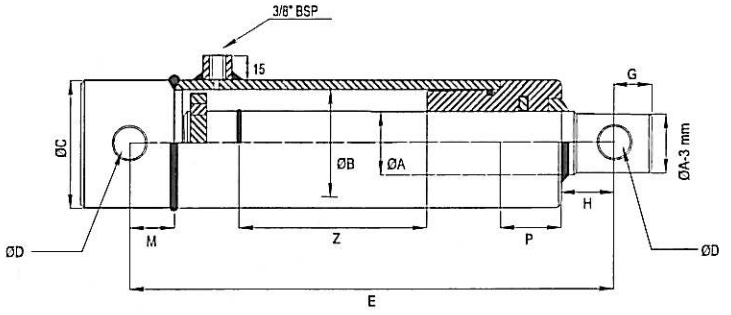
Pedro Oliva Gallego
DIRECTOR GERENTE

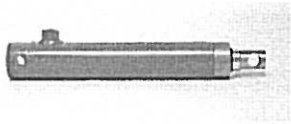
sistemas hidroneumáticos

PEDRO OLIVA

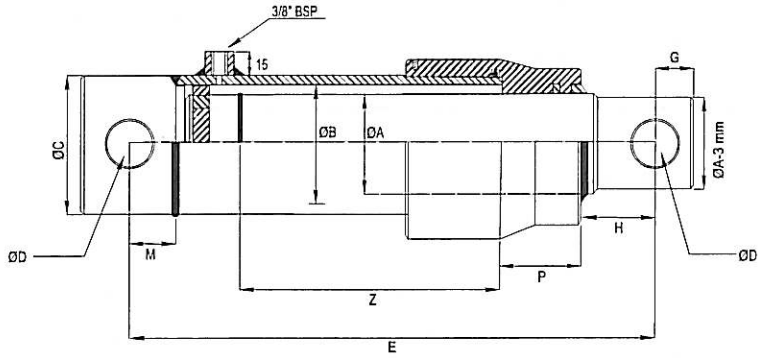
CILINDRO SIMPLE EFECTO ESTANDAR
Single acting hydraulic cylinder

SERIE 100





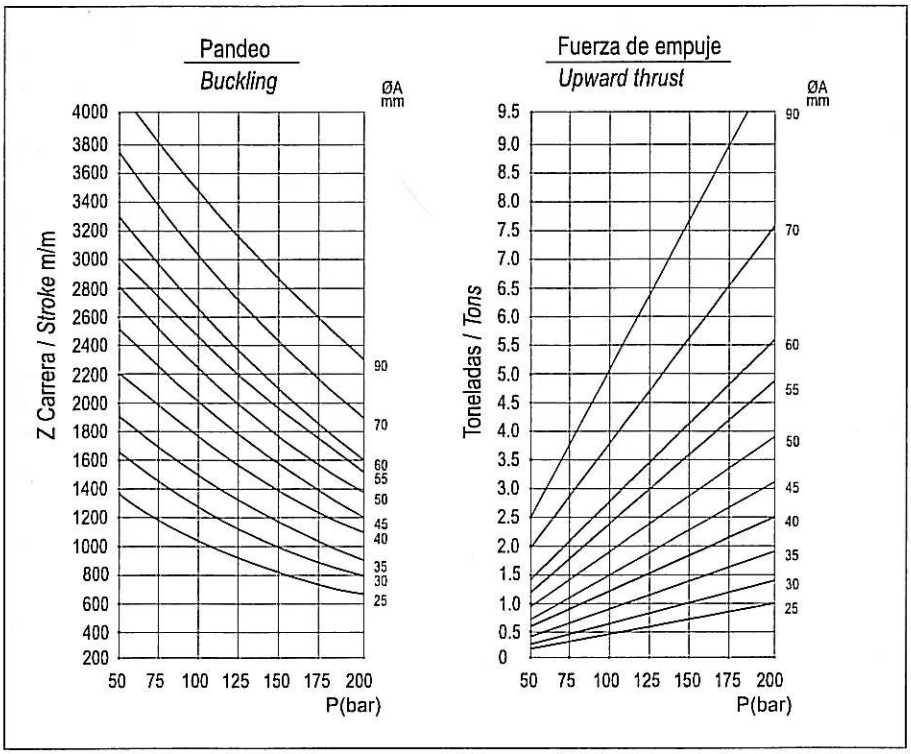
ØA	
Ø25	→ Ø40



ØA	
Ø45	→ Ø90

POWER IN MOTION

Presión de trabajo: 180 bars.	*Working pressure: 180 bars.*
Velocidad: 0.5 m/s.	*Speed: 0.5 m/s.*
Temperatura de trabajo: -25°C - +80°C	*Working temperature: -25°C - +80°C.*
Aceite: Aceite mineral	*Oil: Mineral oil.*
Vástago: C45 f7 25 micras.	*Rod: C45 f7 25 microns.*
Tubo: St52.3 Din2393 Iso H9	*Tube: St52.3 Din2393 Iso H9*



CILINDRO SIMPLE EFECTO ESTANDAR
Single acting hydraulic cylinder

Simple efecto — Single acting

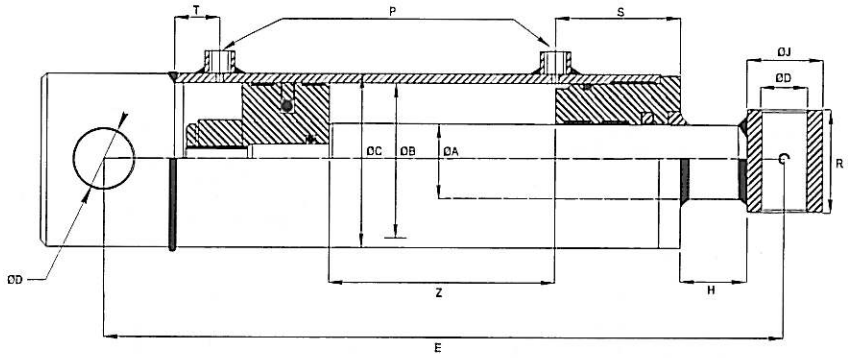
SERIE 100

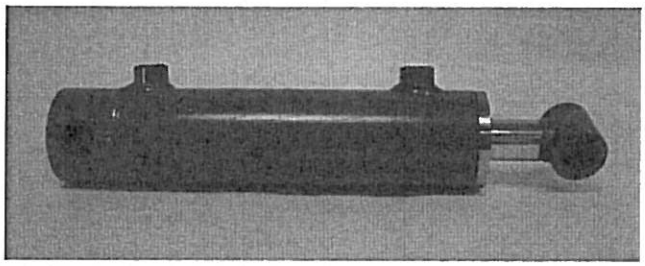
Referencia *Reference*	ØA	Z Carrera *Stroke*	E	G	D	C	H	M	P	Vol. (litros) *(liters)*	Peso *Weight* Kgs.
100/010	25	100	190	14	14.25	40	20	17	20	0.08	1.50
100/020		200	290							0.16	2.30
100/030		300	390							0.24	3.00
101/020	30	200	300	15	16.25	50	22	22	22	0.25	3.60
101/030		300	400							0.38	4.70
101/040		400	500							0.50	6.00
101/050		500	600							0.69	7.60
101/070		700	800							0.88	9.40
102/020	35	200	330	17	20.50	55	24	25	24	0.32	4.70
102/030		300	430							0.48	6.10
102/040		400	530							0.64	7.50
102/050		500	630							0.87	9.60
102/070		700	830							1.11	11.70
103/020	40	200	330			60	32		32	0.39	6.00
103/030		300	430							0.59	7.60
103/040		400	530							0.79	9.30
103/050		500	630							1.08	11.70
103/070		700	830							1.37	14.20
104/020	45	200	330	23	25.50		35		35	0.39	7.00
104/030		300	430							0.59	8.90
104/040		400	530							0.79	10.90
104/050		500	630							1.08	13.70
104/070		700	830							1.37	16.70
105/020	50	200	360			65			44	0.48	8.90
105/030		300	460							0.71	11.20
105/040		400	560							0.95	13.50
105/050		500	660							1.31	16.80
105/070		700	860							1.66	20.40
106/030	55	300	460			70			52	0.85	13.60
106/050		500	660							1.56	19.30
106/070		700	860							1.98	24.20
107/020	60	200	360			75		29		0.66	12.60
107/030		300	460							1.00	15.70
107/040		400	560							1.33	18.70
107/050		500	660							1.83	23.30
107/070		700	860							2.32	28.40
108/030	70	300	480	25	30.50	90	40		67	1.51	25.10
108/040		400	580							2.02	29.60
108/050		500	680							2.52	34.50
108/070		700	880							3.53	43.40
109/030	90	300	480			115				2.37	36.50
109/050		500	680							3.94	41.50
109/070		700	880							5.52	48.50

*Unidades en milímetros.
Units in milimeters.

CILINDRO DOBLE EFECTO ESTANDAR
Double acting hydraulic cylinder

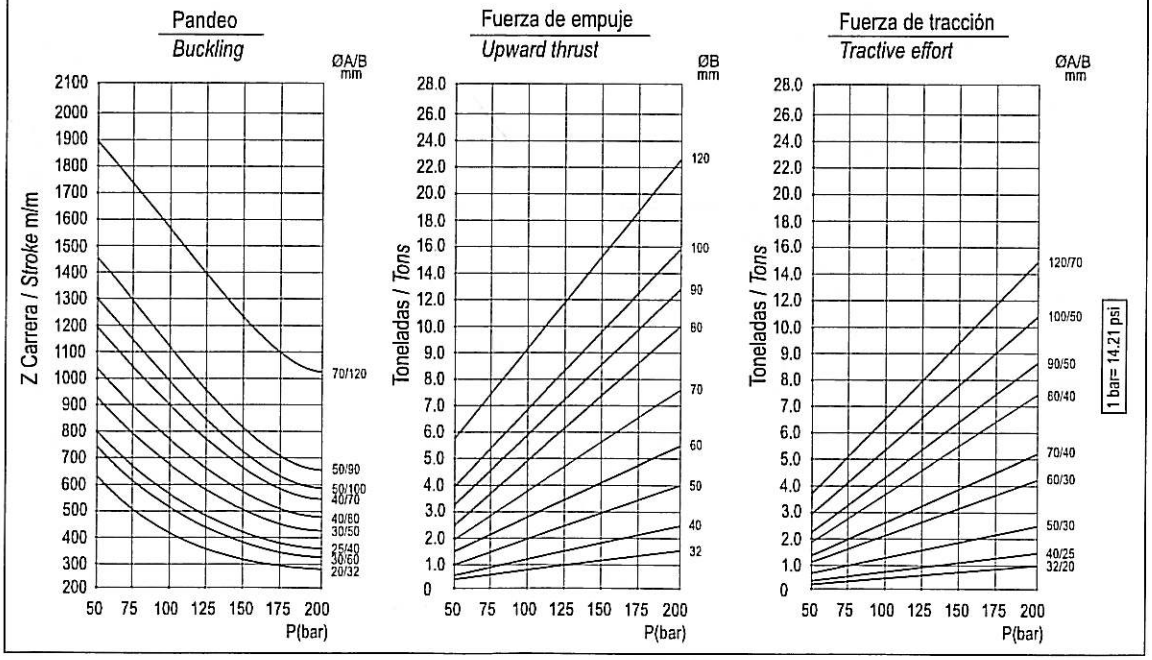
SERIE 200





POWER IN MOTION

Presión de trabajo: 180 bars. Velocidad: 0.5 m/s. Temperatura de trabajo: -25°C - +80°C Aceite: Aceite mineral Vástago: C45 f7 25 micras. Tubo: St52.3 Din2393 Iso H9	*Working pressure: 180 bars.* *Speed: 0.5 m/s.* *Working temperature: -25°C - +80°C.* *Oil: Mineral oil.* *Rod: C45 f7 25 microns.* *Tube: St52.3 Din2393 Iso H9*



CILINDRO DOBLE EFECTO ESTANDAR
Double acting hydraulic cylinder

Doble efecto

Double acting

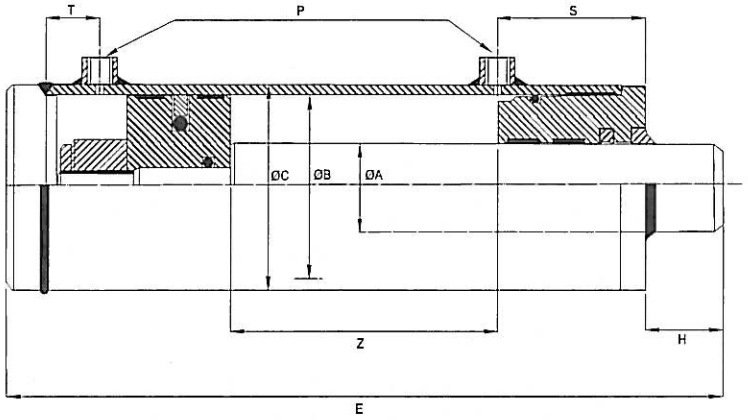
SERIE 200

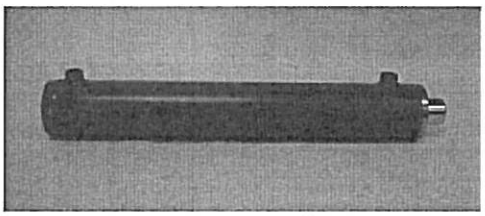
Referencia *Reference*	ØA	Z Carrera *Stroke*	E	B	C	D	H	T	J	R	S	P	Vol. (litros) (*liters*)	Peso *Weight* Kgs.
200/010	20	100	255	32	40	16.25	46	10	30	35	33	1/4"	0.10	2.00
200/020		200	355										0.17	2.60
200/030		300	455										0.25	3.20
201/020	25	200	370	40	50	20.50	30	16	35	40	42	3/8"	0.25	3.80
201/030		300	470										0.40	4.80
201/040		400	570										0.55	5.80
201/050		500	670										0.60	6.80
201/060		600	770										0.75	7.80
201/070		700	870										0.90	8.80
202/020	30	200	400	50	60	25.50	47	20	40	45	43	3/8"	0.39	5.84
202/030		300	500										0.59	7.06
202/040		400	600										0.79	8.28
202/050		500	700										0.98	9.50
202/060		600	800										1.18	10.72
202/070		700	900										1.37	11.94
203/020		200	400	60	70		46				47	3/8"	0.57	7.08
203/030		300	500										0.85	8.46
203/040		400	600										1.13	9.84
203/050		500	700										1.41	11.22
203/060		600	800										1.70	12.60
203/070		700	900										1.98	13.98
204/020	40	200	410	70	80	30.50	34	26	50	55	51	3/8"	0.77	10.39
204/030		300	510										1.15	12.22
204/040		400	610										1.54	14.05
204/050		500	710										1.92	15.88
204/060		600	810										2.31	17.71
204/070		700	910										2.69	19.54
205/020		200	410	80	90		21				56	3/8"	1.01	12.10
205/030		300	510										1.51	14.10
205/040		400	610										2.01	16.10
205/050		500	710										2.51	18.10
205/060		600	810										3.02	20.10
205/070		700	910										3.52	22.10
206/020	50	200	425	90	100		28		60	70	60	3/8"	1.27	15.15
206/030		300	525										1.91	18.15
206/040		400	625										2.54	21.15
206/050		500	725										3.17	24.15
206/060		600	825										3.80	27.15
206/070		700	925										4.43	30.15
207/030		300	525	100	115		25				67	1/2"	2.36	27.60
207/040		400	625										3.14	30.80
207/050		500	725										3.94	34.00
207/060		600	825										4.74	37.20
207/070		700	925										5.54	40.40
208/040	70	400	670	120	140	40.50	39	30	80	80	67	1/2"	4.23	55.00
208/050		500	770										5.65	62.50
208/060		600	870										7.07	70.00
208/070		700	970										8.49	77.50

*Unidades en milímetros.
Units in milimeters.

CILINDRO DOBLE EFECTO ESTANDAR
Double acting hydraulic cylinder

SERIE 300

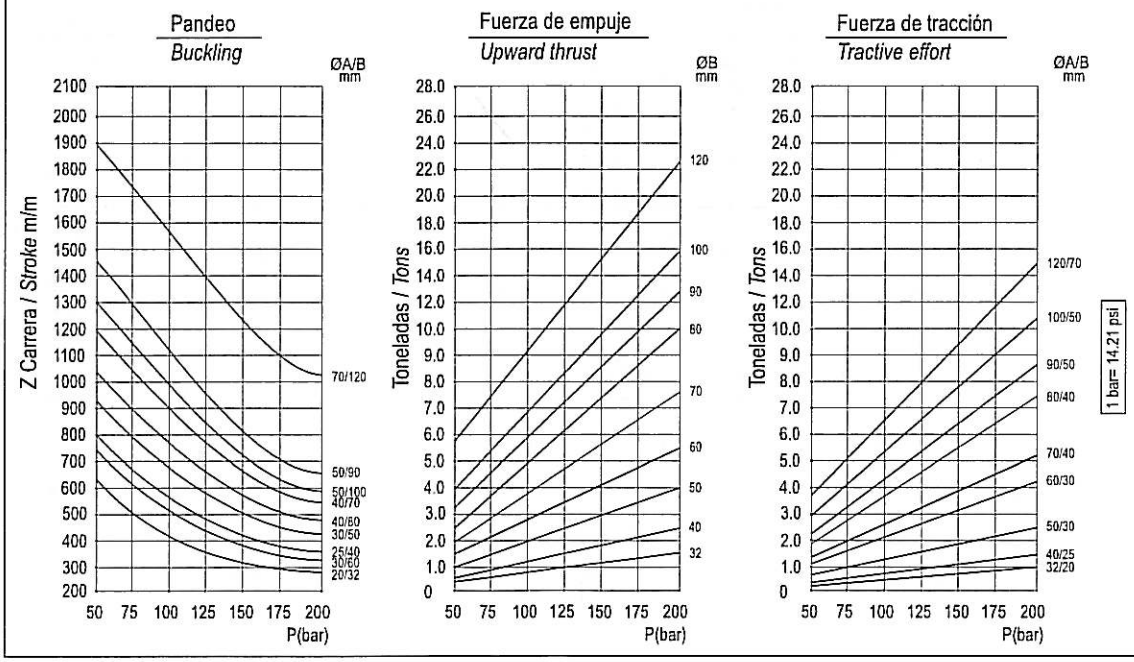




POWER IN MOTION

Presión de trabajo: 180 bars.
Velocidad: 0.5 m/s.
Temperatura de trabajo: -25°C - +80°C
Aceite: Aceite mineral
Vástago: C45 f7 25 micras.
Tubo: St52.3 Din2393 Iso H9

Working pressure: 180 bars.
Speed: 0.5 m/s.
Working temperature: -25°C - +80°C.
Oil: Mineral oil.
Rod: C45 f7 25 microns.
Tube: St52.3 Din2393 Iso H9



CILINDRO DOBLE EFECTO ESTANDAR
Double acting hydraulic cylinder

Doble efecto — Double acting

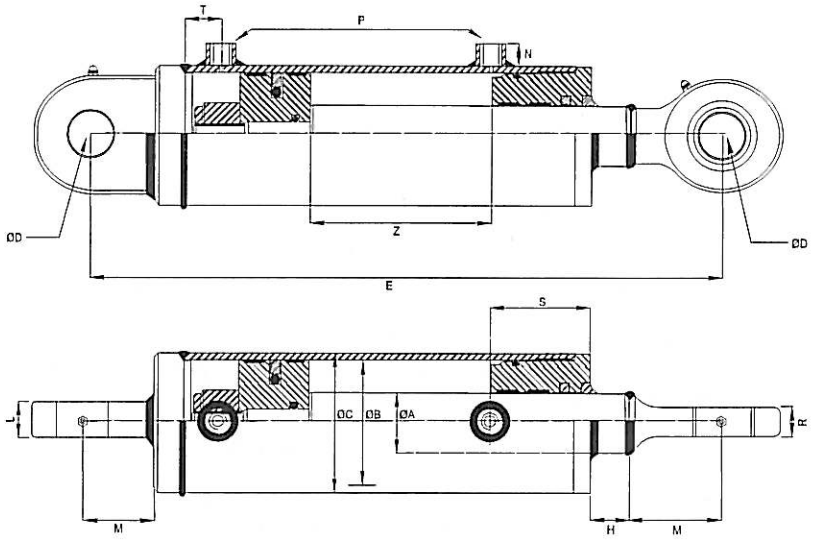
SERIE 300

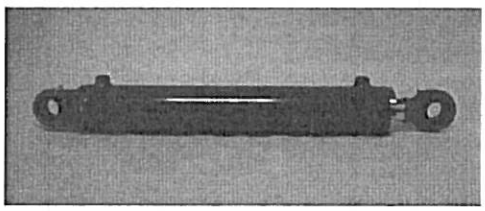
Referencia *Reference*	ØA	Z Carrera *Stroke*	E	B	C	H	T	S	P	Vol. (litros) *(liters)*	Peso *Weight* Kgs.
300/010	20	100	233	32	40	46	10	33	1/4"	0.10	1.90
300/020		200	333							0.16	2.50
300/030		300	433							0.24	3.10
301/020	25	200	345	40	50	30	16	42	3/8"	0.25	3.50
301/030		300	445							0.38	4.50
301/040		400	545							0.50	5.50
301/050		500	645							0.69	6.50
301/060		600	745							0.76	7.50
301/070		700	845							0.88	8.50
302/020	30	200	370	50	60	47	20	43	3/8"	0.39	4.90
302/030		300	470							0.59	6.20
302/040		400	570							0.79	7.50
302/050		500	670							0.98	8.80
302/060		600	770							1.18	10.10
302/070		700	870							1.37	11.40
303/020		200	371	60	70	46		47	3/8"	0.57	6.20
303/030		300	471							0.85	7.50
303/040		400	571							1.13	8.90
303/050		500	671							1.41	10.30
303/060		600	771							1.70	11.60
303/070		700	871							1.98	13.00
304/020	40	200	371	70	80	34	26	51	3/8"	0.77	8.70
304/030		300	471							1.15	10.60
304/040		400	571							1.54	12.60
304/050		500	671							1.92	14.50
304/060		600	771							2.31	16.40
304/070		700	871							2.69	18.30
305/020		200	371	80	90	21		56	3/8"	1.01	11.60
305/030		300	471							1.51	13.80
305/040		400	571							2.01	16.10
305/050		500	671							2.51	18.40
305/060		600	771							3.02	20.60
305/070		700	871							3.52	22.90
306/020	50	200	382	90	100	28		60	3/8"	1.27	14.10
306/030		300	482							1.91	17.05
306/040		400	582							2.54	20.10
306/050		500	682							3.17	23.15
306/060		600	782							3.80	26.20
306/070		700	882							4.43	29.35
307/030		300	487	100	115	25		67	1/2"	2.36	23.90
307/040		400	587							3.14	27.40
307/050		500	687							3.94	30.90
307/060		600	787							4.74	34.50
307/070		700	887							5.54	38.00
308/040	70	400	615	120	140	39	30	67	1/2"	4.23	50.10
308/050		500	715							5.65	57.25
308/060		600	815							7.07	64.50
308/070		700	915							8.49	71.80

*Unidades en milímetros.
Units in milimeters.

CILINDRO DOBLE EFECTO Serie 400
Double acting hydraulic cylinder 400 Series

SERIE 400



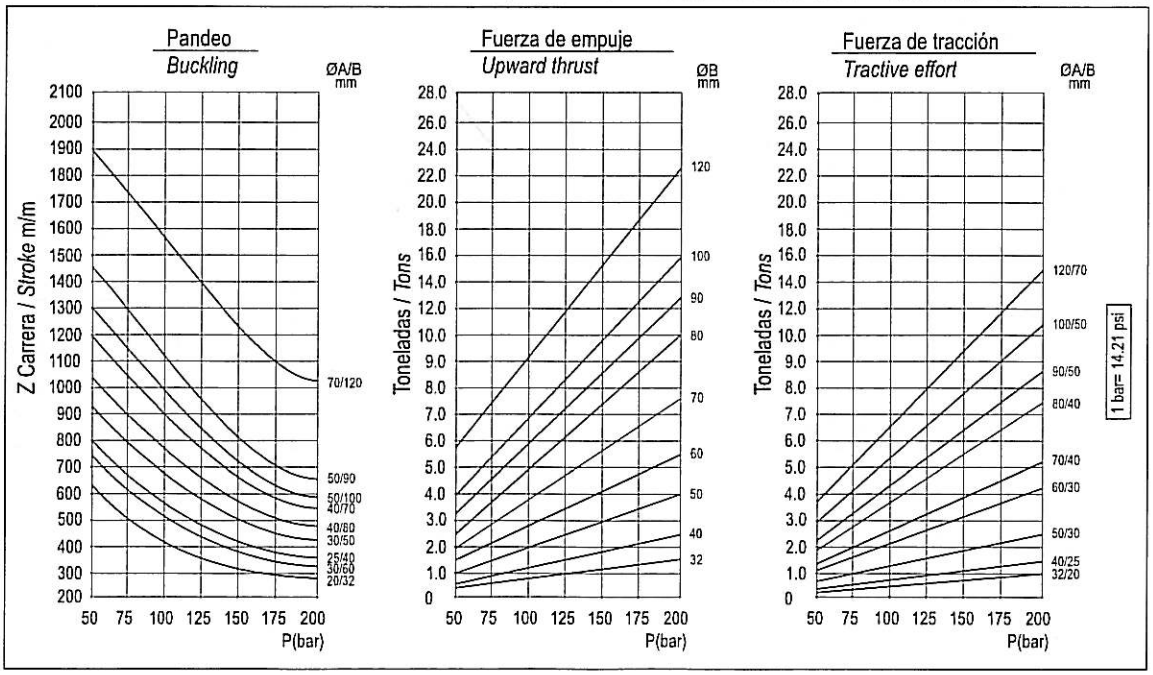


Opción: Kit válvula antirretorno doble pilotada (VADP008EX).
Rótulas Serie TAC y TPN soldadas.

Option: Dual pilot operated check valve set. (VADP008EX).
TAC and TPN series welded ball joints.

Presión de trabajo: 180 bars.
Velocidad: 0.5 m/s.
Temperatura de trabajo: -25°C - +80°C
Aceite: Aceite mineral
Vástago: C45 f7 25 micras.
Tubo: St52.3 Din2393 Iso H9

Working pressure: 180 bars.
Speed: 0.5 m/s.
Working temperature: -25°C - +80°C.
Oil: Mineral oil.
Rod: C45 f7 25 microns.
Tube: St52.3 Din2393 Iso H9



POWER IN MOTION

CILINDRO DOBLE EFECTO Serie 400
Double acting hydraulic cylinder 400 Series

Doble efecto

Double acting

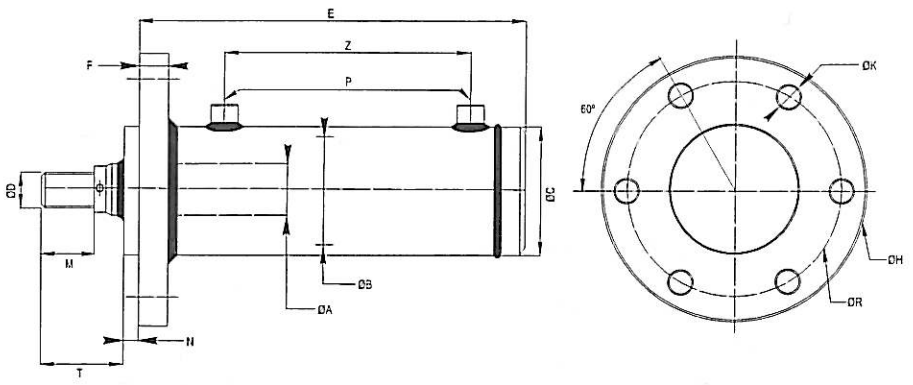
SERIE 400

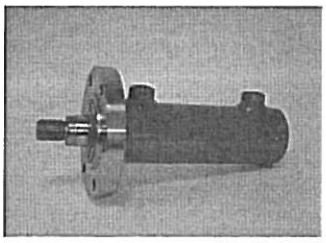
Referencia *Reference*	ØA	Z Carrera *Stroke*	E	B	C	D	H	T	N	L	S	M	R	P	Vol. (litros) *(liters)*	Peso *Weight* Kgs.
400/010	20	100	280	32	40	$20.00^{+0.02}_{-0.00}$	14	10	16	19	33	38	16	1/4"	0.10	2.50
400/020		200	380												0.16	3.10
400/030		300	480												0.24	3.70
401/020	25	200	410	40	50	$20.00^{+0.02}_{-0.00}$	19	16	16	19	42	38	16	3/8"	0.25	4.10
401/030		300	510												0.38	5.10
401/040		400	610												0.50	6.10
401/050		500	710												0.69	7.10
401/060		600	810												0.76	8.10
401/070		700	910												0.88	9.10
402/020	30	200	430	50	60	$25.00^{+0.02}_{-0.00}$	17	20	16	23	43	45	20	3/8"	0.39	5.90
402/030		300	530												0.59	7.20
402/040		400	630												0.79	8.50
402/050		500	730												0.98	9.80
402/060		600	830												1.18	11.10
402/070		700	930												1.37	12.40
403/020		200	430	60	70		15				47			3/8"	0.57	7.20
403/030		300	530												0.85	8.50
403/040		400	630												1.13	9.80
403/050		500	730												1.41	11.10
403/060		600	830												1.70	12.40
403/070		700	930												1.98	13.70
404/020	40	200	465	70	80	$30.00^{+0.02}_{-0.00}$	26	26	16	28	51	51	22	3/8"	0.77	10.25
404/030		300	565												1.15	12.15
404/040		400	665												1.54	14.05
404/050		500	765												1.92	15.95
404/060		600	865												2.31	17.85
404/070		700	965												2.69	19.75
405/020		200	465	80	90		13				56			3/8"	1.01	13.15
405/030		300	565												1.51	15.35
405/040		400	665												2.01	17.55
405/050		500	765												2.51	19.75
405/060		600	865												3.02	21.95
405/070		700	965												3.52	24.15
406/020	50	200	510	90	100	$40.00^{+0.02}_{-0.00}$	18		16	35	60	69	28	3/8"	1.27	17.80
406/030		300	610												1.91	20.75
406/040		400	710												2.54	23.70
406/050		500	810												3.17	26.65
406/060		600	910												3.80	29.60
406/070		700	1010												4.43	32.55
407/030		300	615	100	115		15		20		67			1/2"	2.36	27.60
407/040		400	715												3.14	31.10
407/050		500	815												3.94	34.60
407/060		600	915												4.74	38.10
407/070		700	1015												5.54	41.60
408/040	70	400	780	120	140	$50.00^{+0.02}_{-0.00}$	17	30		40	67	88	35	1/2"	4.23	57.00
408/050		500	880												5.65	64.15
408/060		600	980												7.07	71.30
408/070		700	1080												8.49	78.45

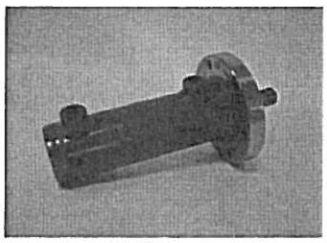
*Unidades en milímetros.
Units in milimeters.

CILINDRO DOBLE EFECTO Serie 500
Double acting hydraulic cylinder 500 Series

SERIE 500







Opción: Para trabajos intensivos, es posible sustituir la estanqueidad, por juntas de baja fricción, y alta presión de trabajo.

Option: For intensive work, leakage can be replace by low friction joints and high pressure.

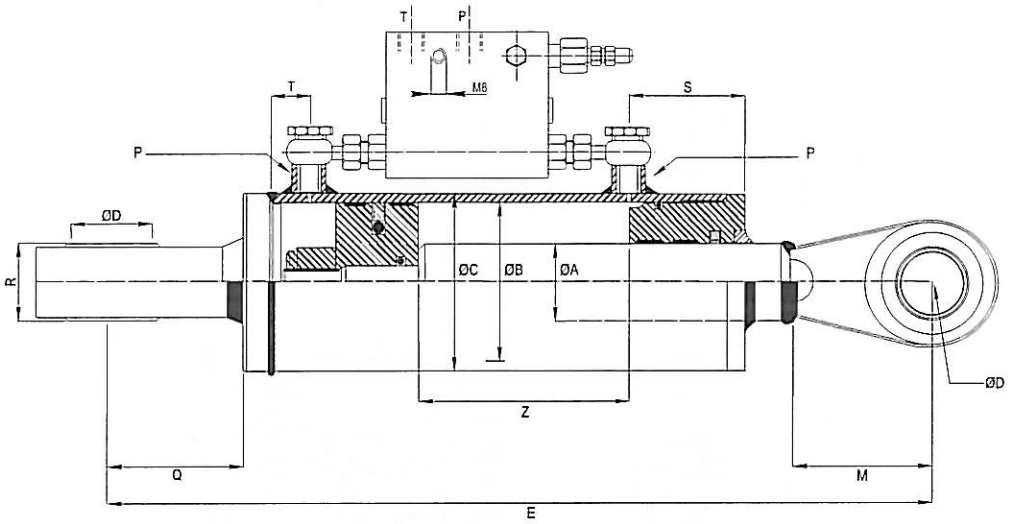
Referencia *Reference*	ØA	Z Carrera *Stroke*	E	B	C	D	H	T	M	N	K	F	R	P
500/Z	20	50-2000	79+Z	32	40	M14X1.5	80	35	18	8	7	10	67	1/4"
501/Z	20		108+Z	40	50	M16X1.5	100	40	22	7	9	12	82	3/8"
502/Z	25													
503/Z	25		115+Z	50	60	M20X1.5	125	48	28	8	11	12	103	3/8"
504/Z	30													
505/Z	35													
506/Z	30		117+Z	60	70	M27X2.0	145	58	36	8	13	12	120	3/8"
507/Z	35													
508/Z	40													
509/Z	35		127+Z	70	80	M27X2.0	160	58	36	10	15	15	130	3/8"
510/Z	40													
511/Z	45													
512/Z	50													
513/Z	35		140+Z	80	90	M33X2.0	170	68	45	10	15	15	142	3/8"
514/Z	40													
515/Z	45													
516/Z	50													
517/Z	40		144+Z	90	100	M33X2.0	202	68	45	10	17	15	170	3/8"
518/Z	45													
519/Z	50													
520/Z	50		147+Z	100	115	M42X2.0	202	85	56	15	17	15	170	1/2"
521/Z	60													
522/Z	70													
523/Z	60		165+Z	120	140	M48X2.0	250	92	63	15	21	30	210	1/2"
524/Z	70													
525/Z	80													
526/Z	70		201+Z	130	150	M64X2.0	280	120	85	15	21	30	230	3/4"
527/Z	80													
528/Z	90													

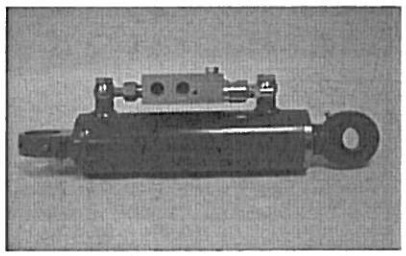
*Unidades en milímetros.
Units in milimeters.

POWER IN MOTION

CILINDRO VOLTEO ARADO Serie 590
Turn-over plough cylinder 590 Series

SERIE 590





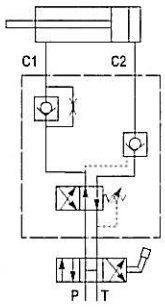
Funcionamiento: Pueden ser montados en circuitos tanto de simple como de doble efecto. Están provistas de rótulas TAC y TPN para un montaje más sencillo.

Operation: Can be mounted on a circuit of single and double acting. It is equipped whit TAC and TPN ball joints for easier mounting.

Referencia válvula volteo arado : VSEB03802. (Montaje en tubo Din2353).

Reference of the turn-over plough valve: VSEB03802.(Mounting in pipe Din2353).

Esquema hidráulico válvula
Hydraulic valve diagram



Referencia *Reference*	ØA	Z Carrera *Stroke*	E	B	C	D	Q	M	S	R	P	T	Vol. (litros) (*liters*)	Peso *Weight* Kgs.
591/016	30	160	400	50	60	30.2	51	51	43	28	3/8"	20	0.30	8.50
592/016	40			70	80				51			26	0.60	11.80
593/016	40			80	90				56				0.85	13.20

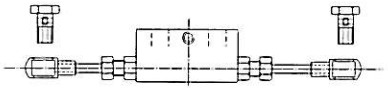
*Unidades en milímetros.
Units in milimeters.

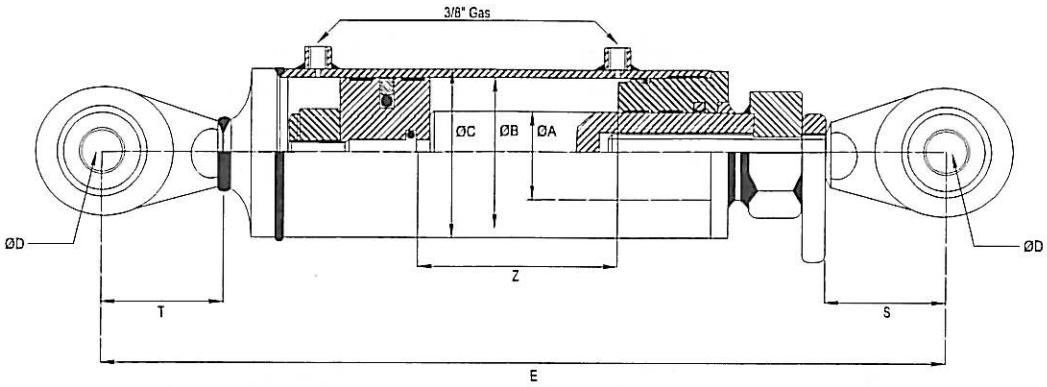
POWER IN MOTION

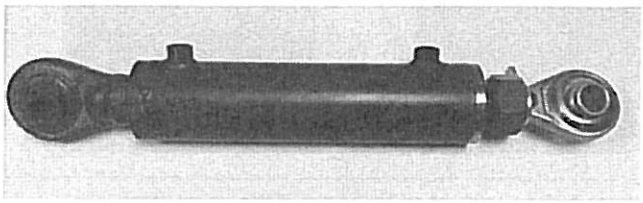
CILINDRO TERCER PUNTO ESTANDAR
Standard hydraulic top link

SERIE 600

POWER IN MOTION







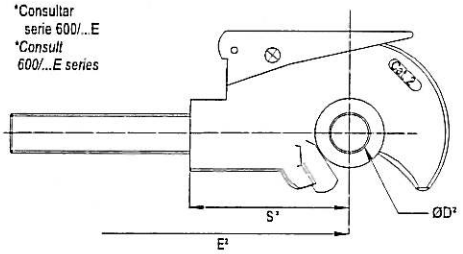
Opción 1ª: Kit válvula antirretorno doble pilotada (VADP008EX). Longitud entre centros ajustable .

Opción 2ª: Posibilidad de cambiar la rótula agrícola estándar del vástago por enganche rápido. (Cat.2).

Option 1st: Dual pilot operated check valve set. (VADP008EX). Adjustable lenght between centers.

Option 2nd: Ability to change the standard ball joint for rapid hook in the rod. (Cat.2).

*Consultar serie 600/..E
Consult 600/...E series



Presión de trabajo: 180 bars.
Velocidad: 0.5 m/s.
Temperatura de trabajo: -25ºC - +80ºC
Aceite: Aceite mineral
Vástago: C45 f7 25 micras.
Tubo: St52.3 Din2393 Iso H9

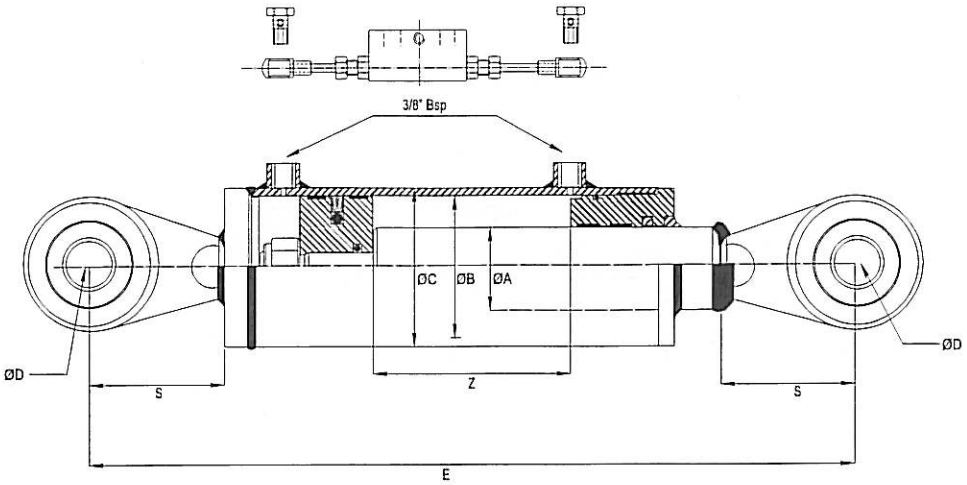
Working pressure: 180 bars.
Speed: 0.5 m/s.
Working temperature: -25ºC - +80ºC.
Oil: Mineral oil.
Rod: C45 f7 25 microns.
Tube: St52.3 Din2393 Iso H9

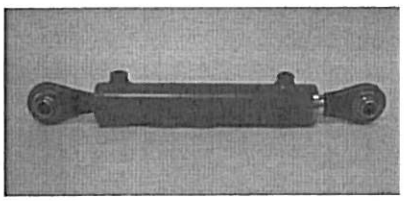
Referencia *Reference*	ØA	Z Carrera *Stroke*	E	E²	B	C	D	D²	S	S²	T	Vol. (litros) (liters)	Peso *Weight* Kgs.
600/020	40	200	510		60	70	25.40		55		65	0.60	9.05
600/025		250	560									0.75	10.00
600/030		300	610									0.90	11.00
601/020	45	200	530		70	80					70	0.80	12.50
601/025		250	580									1.05	13.50
601/030		300	630									1.25	14.50
600/020E	40	200		560	60	70		19.30		105	65	0.60	13.50
600/025E		250		610				22.40				0.75	14.50
600/030E		300		660				25.40				0.90	15.50
601/020E	45	200		580	70	80		30.40			70	0.80	16.00
601/025E		250		630				28.40				1.05	17.00
601/030E		300		680				32.40				1.25	18.00

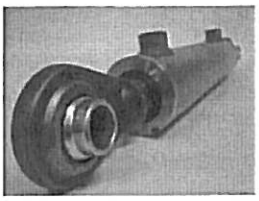
* Unidades en milímetros.
Units in milimeters.

TERCER PUNTO Serie 610(FIJO)
Hydraulic top link 610 Series (Fixed)

SERIE 610







Presión de trabajo: 180 bars.
Velocidad: 0.5 m/s.
Temperatura de trabajo: -25°C - +80°C
Aceite: Aceite mineral
Vástago: C45 f7 25 micras.
Tubo: St52.3 Din2393 Iso H9

Working pressure: 180 bars.
Speed: 0.5 m/s.
Working temperature: -25°C - +80°C.
Oil: Mineral oil.
Rod: C45 f7 25 microns.
Tube: St52.3 Din2393 Iso H9

Opción : Kit válvula antirretorno doble pilotada (VADP008EX).
Rótulas soldadas.

Option : Dual pilot operated check valve set. (VADP008EX).
Ball joints welded.

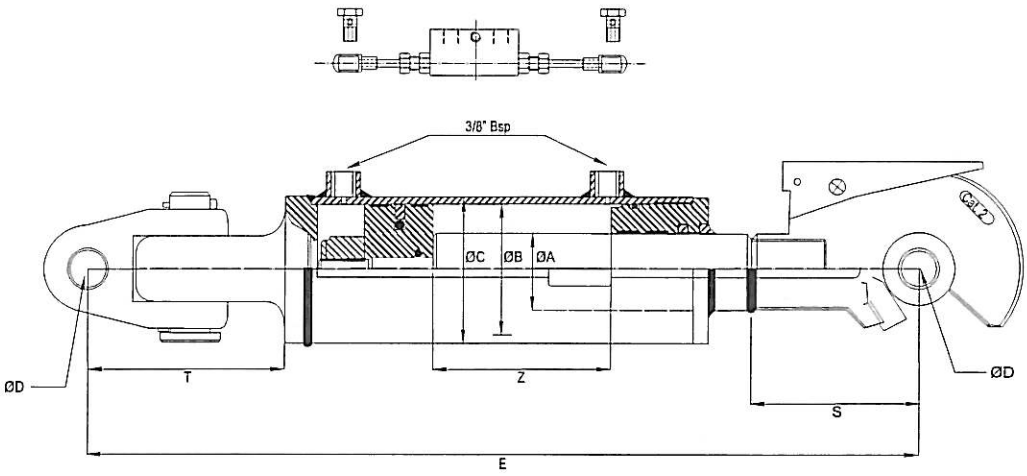
Referencia *Reference*	ØA	Z Carrera *Stroke*	E	B	C	ØD	S	Vol. (litros) *(liters)*	Peso *Weight* Kgs.
610/016	30	160	416	50	60	19.30	60	0.32	5.60
610/021		210	466			19.30		0.42	6.20
610/028		280	536			19.30		0.56	7.10
610/040		400	656			19.30		0.80	8.50
610/016A		160	426			25.40	65	0.32	6.30
610/021A		210	476			25.40		0.42	6.90
610/028A		280	546			25.40		0.56	7.90
610/040A		400	666			25.40		0.80	9.20
611/016	35	160	440	60	70	25.40		0.48	7.80
611/021		210	490			25.40		0.63	8.60
611/028		280	560			25.40		0.84	9.60
611/040		400	680			25.40		1.20	15.60
612/016	40	160	461	80	90	25.40	70	0.90	12.50
612/021		210	511			25.40		1.20	13.70
612/028		280	581			25.40		1.60	15.20
612/040		400	701			25.40		2.20	18.00

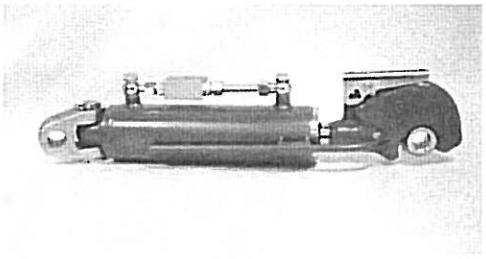
* Unidades en milimetros.
Units in milimeters.

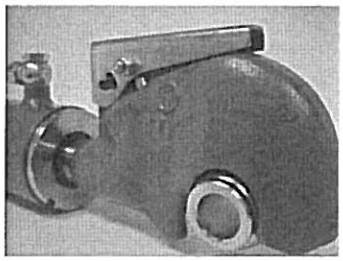
POWER IN MOTION

TERCER PUNTO Serie 620(ENGANCHE RAPIDO)
Hydraulic top link 620 Series(Rapid hook)

SERIE 620







Presión de trabajo: 180 bars. Velocidad: 0.5 m/s. Temperatura de trabajo: -25°C - +80°C Aceite: Aceite mineral Vástago: C45 f7 25 micras. Tubo: St52.3 Din2393 Iso H9	*Working pressure: 180 bars.* *Speed: 0.5 m/s.* *Working temperature: -25°C - +80°C.* *Oil: Mineral oil.* *Rod: C45 f7 25 microns.* *Tube: St52.3 Din2393 Iso H9*

Opción : Kit válvula antirretorno doble pilotada (VADP008EX). Rótulas soldadas.	*Option : Dual pilot operated check valve set. (VADP008EX).* *Ball joints welded.*

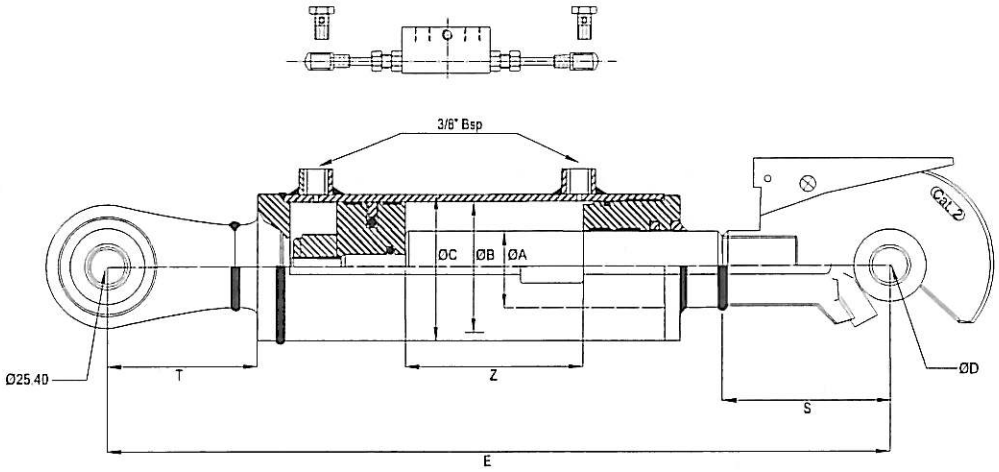
Referencia *Reference*	ØA	Z Carrera *Stroke*	E	B	C	ØD	S	Categoría *Range*	T	Vol. (Litros) (Liters)	Peso *Weight* Kgs.
620/020	35	200	550	60	70	19.40	105	Cat.2	95	0.55	12.50
620/025		250	600							0.70	13.50
621/020		200	550	70	80	20.40				0.95	14.00
621/025		250	600			22.40				1.15	15.50
622/020	40	200	600	80	95	25.40	120	Cat.3		1.10	22.00
622/025		250	650			28.40				1.35	20.00
623/020		200	600	90	105	30.40				1.30	19.50
623/025		250	650							1.65	22.00
624/020	45	200	600	100	115	32.40				1.55	22.50
624/025		250	650							1.90	25.50

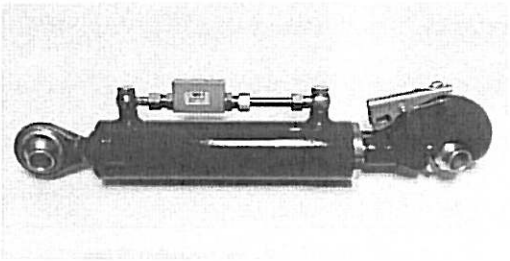
* Unidades en milímetros.
Units in milimeters.

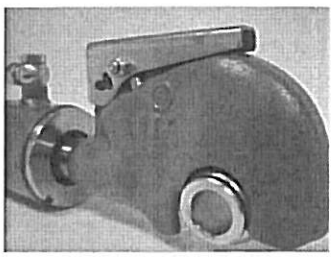
POWER IN MOTION

TERCER PUNTO SERIE 630 (ENGANCHE RAPIDO)
Hydraulic top link 630 Series (Rapid hook)

SERIE 630







POWER IN MOTION

Presión de trabajo: 180 bars. Velocidad: 0.5 m/s. Temperatura de trabajo: -25ºC - +80ºC Aceite: Aceite mineral Vástago: C45 f7 25 micras. Tubo: St52.3 Din2393 Iso H9	*Working pressure: 180 bars.* *Speed: 0.5 m/s.* *Working temperature: -25ºC - +80ºC.* *Oil: Mineral oil.* *Rod: C45 f7 25 microns.* *Tube: St52.3 Din2393 Iso H9*

Opción : Kit válvula antirretorno doble pilotada (VADP008EX). Rótulas y engache rápido soldados.	*Option : Dual pilot operated check valve set. (VADP008EX). Ball joints and rapid hook welded.*

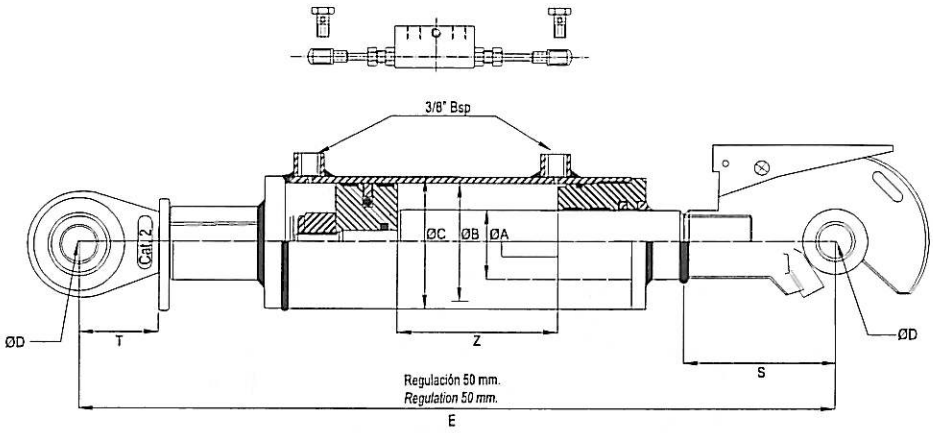
Referencia *Reference*	ØA	Z Carrera *Stroke*	E	B	C	ØD	S	Categoría *Range*	T	Vol. (Litros) (Liters)	Peso *Weight* Kgs.
630/020	35	200	525	60	70	19.30	105	Cat.2	95	1.00	10.00
630/025		250	575							1.00	10.00
631/020		200	535	70	80	20.40				1.00	10.00
631/025		250	585			22.40				1.00	10.00
632/020	40	200	580	80	95	25.40	120	Cat.3	102	1.00	10.00
632/025		250	630			28.40				1.00	10.00
633/020		200	585	90	105	30.40			104	1.00	10.00
633/025		250	635							1.00	10.00
634/020	45	200	600	100	115	32.40			107	1.00	10.01
634/025		250	650							1.00	10.01

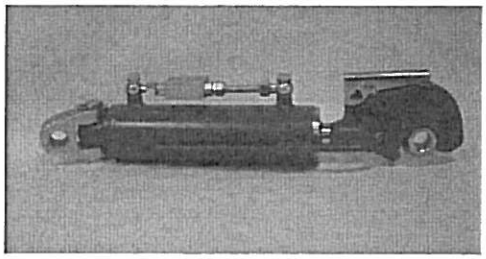
* Unidades en milímetros.
Units in milimeters.

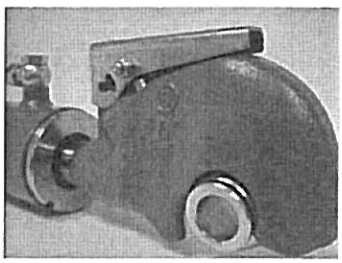
TERCER PUNTO Serie 640 *(ENGANCHE RAPIDO)*
Hydraulic top link 640 Series (Rapid hook)

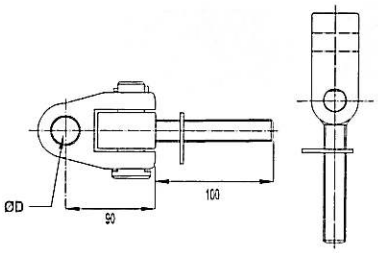
SERIE 640

POWER IN MOTION

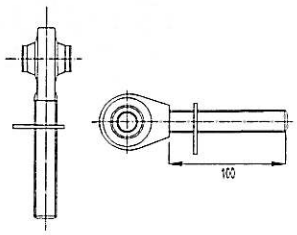








Opción 1ª : Cruceta articulada.
Option 1st : Articulated yoke.



Opción 2ª : Rótula articulada.
Option 2nd : Ball joint.

Presión de trabajo: 180 bars.	*Working pressure: 180 bars.*
Velocidad: 0.5 m/s.	*Speed: 0.5 m/s.*
Temperatura de trabajo: -25°C - +80°C	*Working temperature: -25°C - +80°C.*
Aceite: Aceite mineral	*Oil: Mineral oil.*
Vástago: C45 f7 25 micras.	*Rod: C45 f7 25 microns.*
Tubo: St52.3 Din2393 Iso H9	*Tube: St52.3 Din2393 Iso H9*

Opción : Kit válvula antirretorno doble pilotada (VADP008EX). Enganche rápido soldado y rótula ajustable trasera / cruceta.

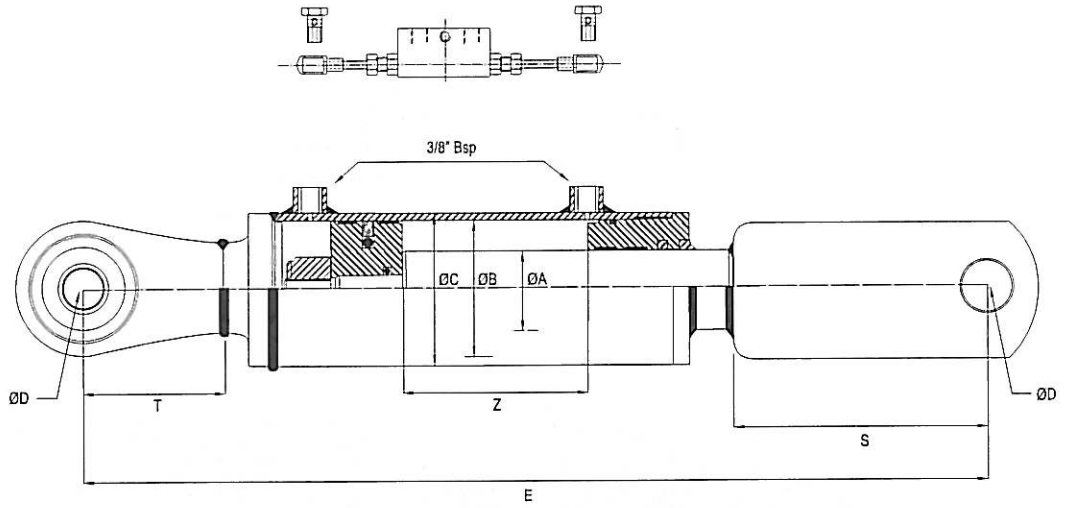
Option : Dual pilot operated check valve set. (VADP008EX). Rapid hook welded and adjustable ball joint / articulated yoke.

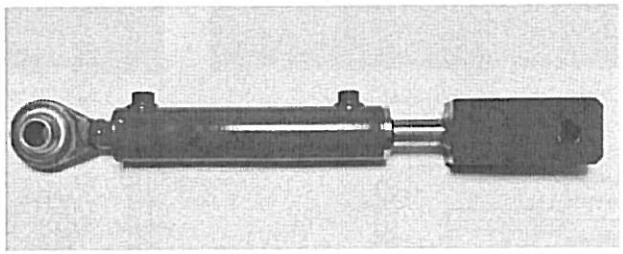
Referencia *Reference*	ØA	Z Carrera *Stroke*	E	B	C	D	S	Categoría *Range*	T	Vol. (Litros) (Liters)	Peso *Weight Kgs.*
640/021	30	210	610	50	60	19.40	105	Cat.2	100	1.00	10.00
641/021	35		610	60	70	22.40	105	Cat.2		1.00	10.00
642/021	40		665	80	95	25.40	120	Cat.3		1.00	10.00
640/021C	30		645	50	60	30.40	105	Cat.2		1.00	10.00
641/021C	35		645	60	70	28.40	105	Cat.2		1.00	10.00
642/021C	40		700	80	95	32.40	120	Cat.3		1.00	10.00

* Unidades en milímetros.
Units in milimeters.

BRAZO LATERAL SERIE 650
Hydraulic levelling arm 650 Series

SERIE 650





POWER IN MOTION

Presión de trabajo: 180 bars. Velocidad: 0.5 m/s. Temperatura de trabajo: -25°C - +80°C Aceite: Aceite mineral Vástago: C45 f7 25 micras. Tubo: St52.3 Din2393 Iso H9	*Working pressure: 180 bars.* *Speed: 0.5 m/s.* *Working temperature: -25°C - +80°C.* *Oil: Mineral oil.* *Rod: C45 f7 25 microns.* *Tube: St52.3 Din2393 Iso H9*

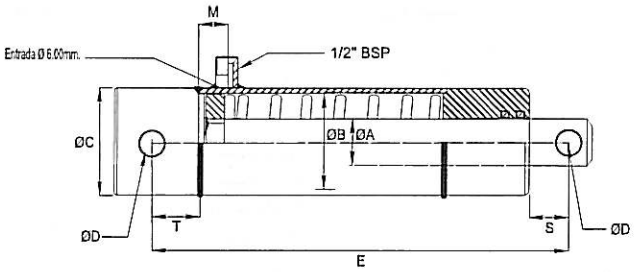
Opción : Kit válvula antirretorno doble pilotada (VADP008EX). *Option : Dual pilot operated check valve set. (VADP008EX).*	Aplicación : John deere 36.50 - 40.50 - 40.55 - 42.50. *Aplication : John deere 36.50 - 40.50 - 40.55 - 42.50.*

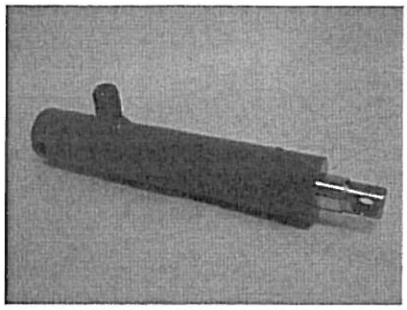
Referencia *Reference*	ØA	Z Carrera *Stroke*	E	B	C	D	S	T	Vol. (Litros) (Liters)	Peso *Weight Kgs.*
650/018	30	180	560	60	70	16.40	95	65	1.00	10.00
651/019	35	190	660	70	80	25.40	95	70	1.00	10.00
652/026	45	260	720	90	105	25.40	120	70	1.00	10.00

* Unidades en milímetros.
Units in milimeters.

CILINDRO DE FRENO
Brake cylinder

CILINDRO DE FRENO ESTANDAR
Standard brake cylinder
SERIE 700

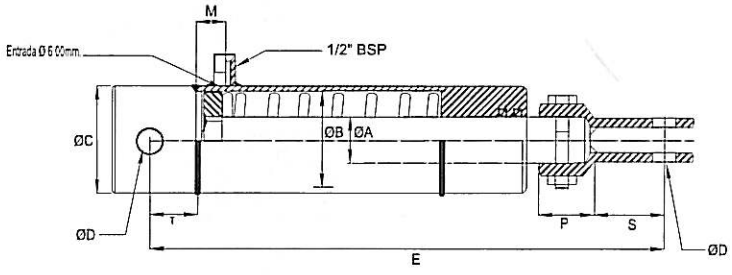


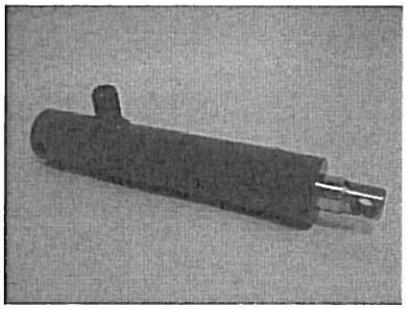


Referencia *Reference*	ØA	Z Carrera *Stroke*	E	B	C	D	S	T	M	Vol. (Litros) (Liters)	Peso *Weight* Kgs.
700/010	25	100	240	35	45	12.25	17	15	25	0.12	2.50

* Unidades en milímetros.
Units in milimeters.

CILINDRO DE FRENO (Tipo boggie)
Brake cylinder (Boggie type)
SERIE 710

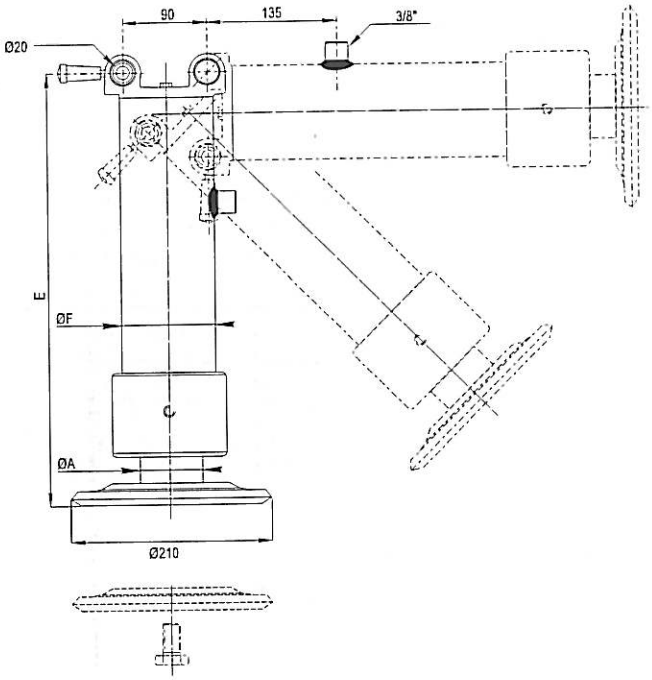




Referencia *Reference*	ØA	Z Carrera *Stroke*	E	B	C	D	S	T	P	M	Vol. (Litros) (Liters)	Peso *Weight* Kgs.
710/010	25	100	300	35	45	12.25	35	15	25	25	0.12	2.80

* Unidades en milímetros.
Units in milimeters.

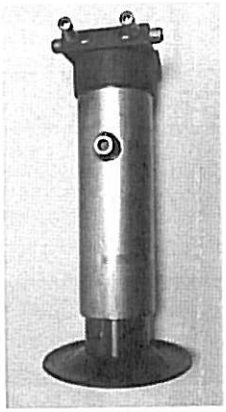
PIE HIDRAULICO (Simple efecto)
Hydraulic crutch (single acting)



Características / *Features:*

* Cilindro escamoteable / *Retractable cylinder.*
* Retroceso por muelle / *Spring return.*
* Presión de trabajo: 180 bars / *Working pressure: 180 bars.*
* Fácil desmontaje / *Easy dissasembly.*
* Gran robustez / *Robust design.*

SERIE 800



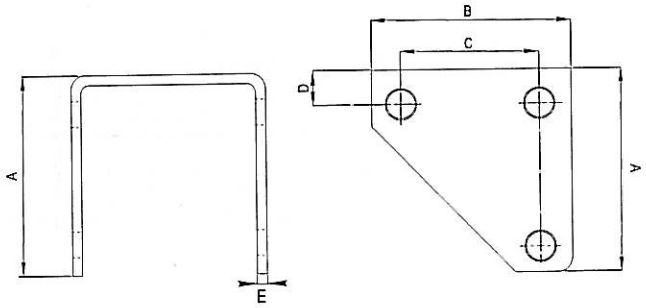
* Capacidad de elevación: (180bars).
* *Lifting capacity: (180bars).*

Serie 801 = 7 tons.
Serie 802 = 12 tons.

Referencia *Reference*	ØA	Z Carrera *Stroke*	E	F	Vol. (Litros) (Liters)	Peso *Weight* Kgs.
801/020	65	200	520	80	0.30	9.50
802/025	80	250	570	100	0.65	11.70

* Unidades en milímetros.
Units in milimeters.

Soporte basculante
Swivel bracket



Referencia *Reference*	A	B	C	D	E	Peso *Weight* Kgs.
SPH142	142	140	90	40	7	2.65

* Unidades en milímetros.
Units in milimeters.

*Chapa tratada mediante zinc trivalente o similar.
*Acero en St52.3.

*Plate treated whit trivalent zinc or similar.
*Steel St52.3.

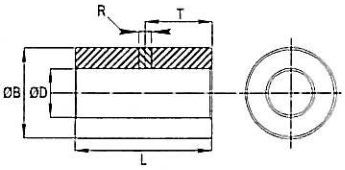
FIJACIONES
Atachments

Casquillo estándar
Standard bush

CRA

Referencia *Reference*	ØD	ØB	T	L	ØR	Peso *Weight* Kgs.
CRA0216	16	30	17.50	35	5.00	0.15
CRA0220	20	35	20.00	40	7.00	0.20
CRA0225	25	40	22.50	45	7.00	0.30
CRA0230	30	50	27.50	55	7.00	0.55
CRA0240	30	60	30.00	70	7.00	1.15
CRA0250	40	80	40.00	80	8.50	2.35
CRA0260	40	90	50.00	100	8.50	3.25

* Unidades en milímetros. *Units in milimeters.*



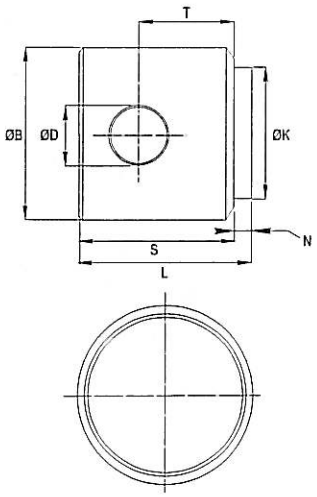
Material en St52.3 / *Material in St52.3.*
Otras medidas bajo pedido / *Others measures on request.*

Fondo taladrado estándar
End-plug whit hole

FT

Referencia *Reference*	ØD	ØB	ØK	L	T	S	N	Peso *Weight* Kgs.
FT0114	14.25	40	32	35	17	32	3	0.45
FT0116	16.25	40	32	35	17	32	3	0.40
FT0216	16.25	50	40	44	22	41	3	0.55
FT0220	20.50	50	40	44	22	41	3	0.75
FT0320	20.50	55	45	44	22	41	3	1.05
FT0420	20.50	60	50	50	25	47	3	0.85
FT0425	25.50	60	50	50	25	47	3	1.20
FT0525	25.50	65	55	50	25	47	3	1.40
FT0625	25.50	70	60	50	25	47	3	1.20
FT0725	25.50	75	65	58	29	55	3	2.05
FT0830	30.50	80	70	58	29	55	3	1.80
FT0930	30.50	90	80	58	29	55	3	2.35
FT1030	30.50	95	80	58	29	55	3	3.80
FT1130	30.50	100	90	60	29	57	3	3.10
FT1230	30.50	105	90	60	29	57	3	4.80
FT1330	30.50	115	100	66	29	60	6	4.55
FT1440	40.50	140	120	82	35	76	6	8.25
FT1560	60.50	150	130	108	50	100	8	13.50

* Unidades en milímetros. *Units in milimeters.*



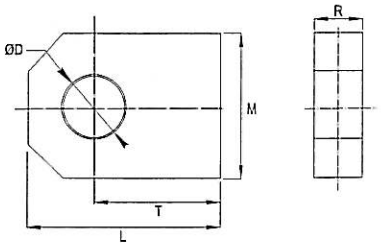
Material en St52.3 / *Material in St52.3.*
Otras medidas bajo pedido / *Others measures on request.*

Charnela estándar
Male clevis

CRB

Referencia *Reference*	ØD	M	T	L	R	Peso *Weight* Kgs.
CRB0216	16	35	25	42	16	0.15
CRB0220	20	35	25	42	20	0.20
CRB0225	25	50	35	60	25	0.30
CRB0230	30	60	40	70	30	0.55
CRB0240	30	70	45	80	35	1.15
CRB0250	40	80	55	95	40	2.35

* Unidades en milímetros.
Units in milimeters.



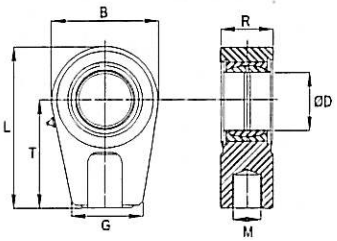
*Material en St52.3 / *Material in St52.3.*
*Otras medidas bajo pedido / *Others measures on request.*

TPR..N

Rótula esférica TPR/N Din648
Ball joint TPR/N Din 648

Referencia *Reference*	ØD	B	G	L	T	M	R	Peso *Weight* Kgs.
TPR220N	20	56	41	78	50	M16X1.5	19	0.43
TPR225N	25	56	41	78	50	M16X1.5	23	0.50
TPR230N	30	64	46	92	60	M22X1.5	28	0.80
TPR235N	35	78	58	109	70	M28X1.5	30	1.20
TPR240N	40	94	66	132	85	M35X1.5	35	2.00
TPR250N	50	116	88	163	105	M45X1.5	40	3.90

* Unidades en milímetros.
Units in milimeters.



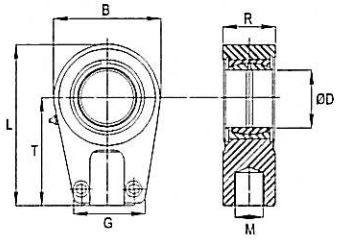
Superficie de contacto: acero/acero - *Contact surface: steel/steel.*
Equivalente / *Equivalent INA GIHR....DO*
Equivalente / *Equivalent SKF SIRD....ES*

TPR..U

Rótula esférica TPR/U Din648
Ball joint TPR/U Din 648

Referencia *Reference*	ØD	B	G	L	T	M	R	Peso *Weight* Kgs.
TPR220U	20	56	41	78	50	M16X1.5	19	0.43
TPR225U	25	56	41	78	50	M16X1.5	23	0.48
TPR230U	30	64	46	92	60	M22X1.5	28	0.80
TPR235U	35	78	58	109	70	M28X1.5	30	1.25
TPR240U	40	94	66	132	85	M35X1.5	35	2.25
TPR250U	50	116	88	163	105	M45X1.5	40	3.80

* Unidades en milímetros.
Units in milimeters.



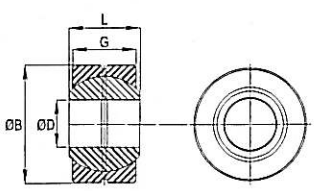
Superficie de contacto: acero/acero - *Contact surface: steel/steel.*
Equivalente / *Equivalent INA GIHR-K...DO*
Equivalente / *Equivalent SKF SIR...ES*

GE..X

Rótula radial GE
Radial ball joint GE

Referencia *Reference*	ØD	ØB	G	L	Peso *Weight* Kgs.
GE215X	15	26	11	13	0.03
GE220X	20	32	14	16	0.05
GE225X	25	42	18	21	0.12
GE230X	30	50	23	27	0.23
GE235X	35	55	26	30	0.30
GE240X	40	62	28	33	0.38
GE245X	45	72	31	36	0.60
GE250X	50	80	36	42	0.87

* Unidades en milímetros.
Units in milimeters.



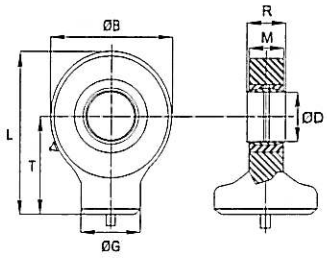
Superficie de contacto: acero/acero - *Contact surface: steel/steel.*
Equivalente / *Equivalent INA GE....DO*
Equivalente / *Equivalent SKF GE....ES*

Rótula esférica soldable Din648
Weldable ball joint Din648

TAC

Referencia *Reference*	ØD	ØB	ØG	L	T	M	R	Peso *Weight* Kgs.
TAC0215	15	40	21	51	31	10	12	0.12
TAC0220	20	53	28	65	38	13	16	0.23
TAC0225	25	64	34	77	45	17	20	0.43
TAC0230	30	73	40	88	51	19	22	0.64
TAC0235	35	82	47	102	61	21	25	0.96
TAC0240	40	92	52	115	69	23	28	1.30
TAC0245	45	102	58	128	77	27	32	1.80
TAC0250	50	112	62	144	88	30	35	2.50

* Unidades en milímetros.
Units in milimeters.



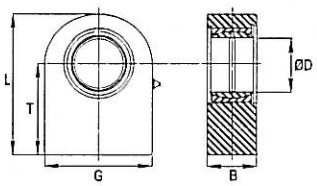
Superficie de contacto: acero/acero - *Contact surface: steel/steel.*
Equivalente / *Equivalent* INA GK....DO
Equivalente / *Equivalent* SKF SC....ES

Rótula esférica TPN Din648
Sferic ball join TPN Din648

TPN

Referencia *Reference*	ØD	B	G	L	T	Peso *Weight* Kgs.
TPN320	20	50	20	63	38	0.35
TPN325	25	55	24	73	45	0.55
TPN330	30	65	29	83	51	0.90
TPN335	35	83	31	102	61	1.50
TPN340	40	100	36	119	69	2.40
TPN345	45	110	41	132	77	3.40
TPN350	50	123	41	150	88	4.40

* Unidades en milímetros.
Units in milimeters.



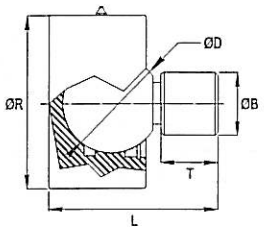
Superficie de contacto: acero/acero - *Contact surface: steel/steel.*
Equivalente / *Equivalent* INA GF...DO
Equivalente / *Equivalent* SKF SCF...DO

Base oscilante
Swinging end

BSK

Referencia *Reference*	ØD	ØB	T	L	ØR	Peso *Weight* Kgs.
BSK085	50	40	20	82	85	2.20
BSK098	60	50	25	100	98	3.40
BSK105	70	60	30	115	105	4.82

* Unidades en milímetros.
Units in milimeters.



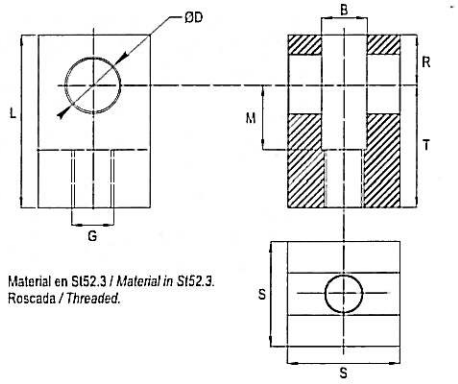
Base oscilante soldable / *Weldable swinging end.*
Roscada bajo pedido / *On request threaded.*

FR

Horquilla mecanizada (roscada)
Machining fork (threaded)

Referencia *Reference*	ØD	G	B	L	T	M	R	S	Peso *Weight* Kgs.
FR0216	16.20	M16x1.5	16	55	39	24	16	35	0.12
FR0220	20.25	M20x1.5	20	65	45	30	20	40	0.23
FR0225	25.25	M24x2.0	25	70	50	30	20	50	0.43
FR0230	30.25	M30x2.0	30	90	65	35	25	60	0.64
FR0235	35.25	M33x2.0	35	105	75	40	30	70	0.96

* Unidades en milímetros.
Units in milimeters.



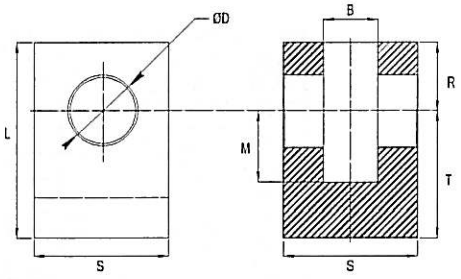
Material en St52.3 / *Material in St52.3.*
Roscada / *Threaded.*

FS

Horquilla mecanizada (soldable)
Machining fork (weldable)

Referencia *Reference*	ØD	B	L	T	M	R	S	Peso *Weight* Kgs.
FS0216	16.20	16	50	39	24	16	35	0.12
FS0220	20.25	20	60	45	30	20	40	0.23
FS0225	25.25	25	67	50	30	20	50	0.43
FS0230	30.25	30	80	65	35	25	60	0.64
FS0235	35.25	35	90	75	40	30	70	0.96

* Unidades en milímetros.
Units in milimeters.



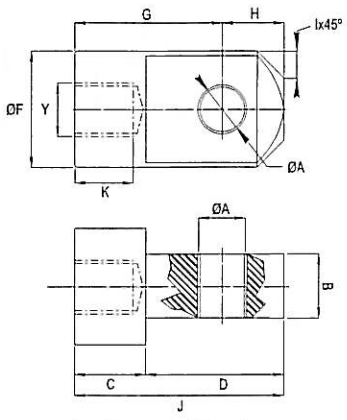
Material en St52.3 / *Material in St52.3.*
Soldable / *Weldable.*

FK

Arrastrador macho
Plain rod eye

Referencia *Reference*	Y	ØA	B	C	D	K	F	G	H	I	J	Peso *Weight* Kgs.
FK032	M12x1.25	12	16	16	31	18	26	34	13	6	47	2.20
FK040	M16x1.50	16	20	24	41	22	32	49	16	8	65	3.40
FK050	M20x1.50	20	25	28	48	26	40	56	20	10	76	4.82
FK060	M27x2.00	25	32	35	57	33	50	67	25	15	92	2.20
FK070	M27x2.00	25	32	35	57	33	50	67	25	15	92	3.40
FK080	M33x2.00	32	40	44	77	42	65	89	32	17	121	4.82
FK090	M33x2.00	32	40	44	77	42	65	89	32	17	121	3.40
FK100	M42x2.00	40	50	54	95	52	80	109	40	20	149	4.82

* Unidades en milímetros.
Units in milimeters.



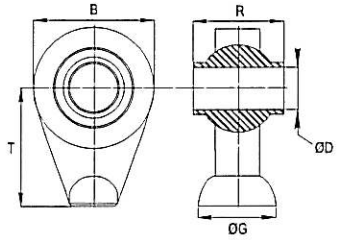
Superficie pavonada / *Blued surface.*
Casquillo interior en bronce / *Inside bush in bronze.*

Rótula agrícola soldable
Weldable ball joint

TNC

Referencia *Reference*	ØD	B	ØG	T	R	Peso *Weight* Kgs.
TNC0115	19.30	62	34	60	44	0.62
TNC0116	20.20	62	34	60	44	0.61
TNC0120	25.40	75	38	65	51	0.95
TNC0124	25.40	85	48	75	51	1.65
TNC0128	30.20	85	48	75	51	1.55
TNC0132	35.20	85	50	65	55	1.30
TNC0134	40.20	108	60	85	75	3.45
TNC0138	45.20	108	60	85	75	3.25
TNC0142	50.20	108	60	85	75	3.05

* Unidades en milímetros.
Units in milimeters.



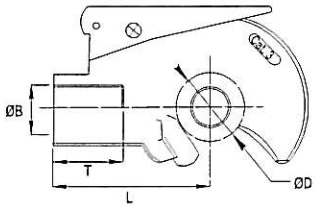
Superficie de contacto: acero-acero / *Contact surface : steel-steel.*
Tratamiento zinc trivalente / *Zinc trivalent treatment.*

Enganche rápido (hembra)
Rapid hook (female)

EPS

Referencia *Reference*	Cat.	ØD	ØB	T	L	Peso *Weight* Kgs.
EPS2050	2	50	M30X2.0	35	105	2.30
EPS3060	3	60	M36X2.0	40	120	4.04

* Unidades en milímetros.
Units in milimeters.



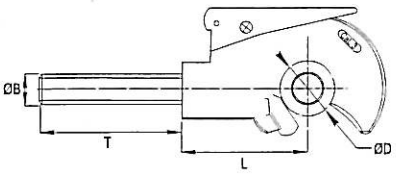
Superficie de contacto: acero-acero / *Contact surface : steel-steel.*
Tratamiento zinc trivalente / *Zinc trivalent treatment.*
El enganche rápido se suministra sin bola / *Rapid hook is supplied whithout ball.*

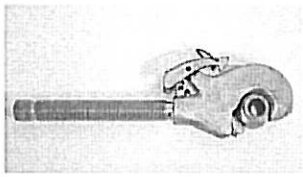
Enganche rápido (macho)
Rapid hook (male)

EPM

Referencia *Reference*	Cat.	ØD	ØB	T	L	Peso *Weight* Kgs.
EPM2050	2	50	M30X3.0	180	105	3.40
EPM3060	3	60	M36X3.0	180	120	5.78

* Unidades en milímetros.
Units in milimeters.





Cadena enganche rápido
Rapid hook chain

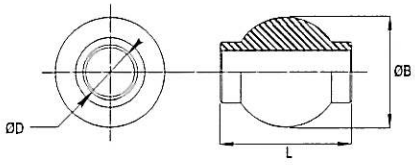
Referencia *Reference*	Longitud *Lenght*	Peso *Weight* Kgs.
CH0150	1.500	0.00
CH0200	2.000	0.00

* Unidades en milímetros.
Units in milimeters.

Superficie de contacto: acero-acero / *Contact surface : steel-steel.*
Tratamiento zinc trivalente / *Zinc trivalent treatment.*
El enganche rápido se suministra sin bola / *Rapid hook is supplied whithout ball.*

GA..X

Bola de enganche rápido
Rapid hook ball



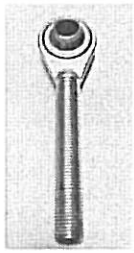
Bola para enganche rápido EPS y EPM (página 24).
Ball for rapid hook EPS and EPM (page 24).
Tratamiento zinc trivalente.
Zinc trivalent treatment.

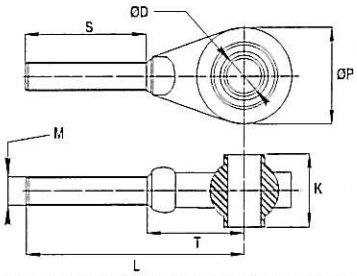
Referencia *Reference*	ØB	ØD	L	Peso *Weight* Kgs.
GA216X	50	19	44	0.34
GA220X	50	19	51	0.42
GA225X	50	22	51	0.47
GA230X	50	25	44	0.34
GA235X	50	25	51	0.35
GA240X	50	30	51	0.44
GA245X	60	25	51	0.64
GA250X	60	28	51	0.59
GA255X	60	32	51	0.56

* Unidades en milímetros.
Units in milimeters.

RPS

Rótula agrícola roscada
Threaded ball joint





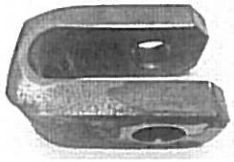
Rótula roscada para cilindro tercer punto Serie 600 (página 14).
Ball for hydraulic top link 600 series (page 14).
Tratamiento zinc trivalente.
Zinc trivalent treatment.

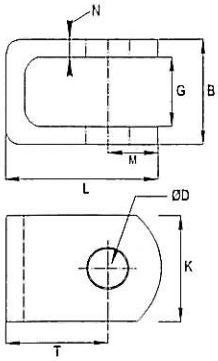
Referencia *Reference*	Cat.	ØD	M	ØP	S	L	T	K	Peso *Weight* Kgs.
RPS3355	1	19	M30X2.0	62	175	225	55	44	1.36
RPS4400	2	25	M30X2.0	75	165	220	55	51	1.62

* Unidades en milímetros.
Units in milimeters.

KX

Horquilla estándar (plegada)
Standard fork (folded)





Material en St52.3 / *Material in St52.3.*
Otras medidas bajo pedido / *Other measures on request.*

Referencia *Reference*	ØD	B	G	L	T	M	K	N	Peso *Weight* Kgs.
KX0216	16	32	16	47	33	14	35	8	0.43
KX0220	20	40	20	60	40	20	40	10	0.48
KX0225	25	45	25	70	45	25	50	10	0.74
KX0230	30	60	30	100	65	35	70	15	1.20
KX0235	35	65	35	110	75	35	75	15	2.00
KX0240	40	80	40	120	80	40	80	20	3.80

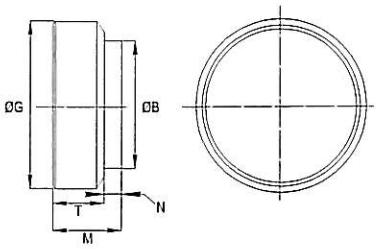
* Unidades en milímetros.
Units in milimeters.

FIJACIONES
Atachments

Fondo estándar
Standard End-plug FE

Referencia *Reference*	ØB	ØG	T	M	N	Peso *Weight* Kgs.
FE0116	40	32	10	13	3	0.40
FE0220	50	40	15	18	3	0.75
FE0320	55	45	15	18	3	1.05
FE0425	60	50	15	18	3	1.20
FE0525	65	55	15	18	3	1.40
FE0625	70	60	15	18	3	1.65
FE0725	75	65	15	18	3	2.05
FE0830	80	70	15	18	3	2.40
FE0930	90	80	15	18	3	3.10
FE1030	95	80	15	18	3	3.80
FE1130	100	90	15	18	3	3.90
FE1230	105	90	15	18	3	4.80
FE1330	115	100	20	26	6	5.60
FE1440	140	120	20	26	6	9.40
FE1560	150	130	20	28	8	13.50

* Unidades en milímetros.
Units in milimeters.



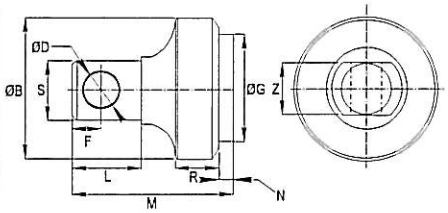
Material en St52.3 / *Material in St52.3.*
Otras medidas bajo pedido / *Other measures on request.*

Fondo XR
End-plug XR XR

Referencia *Reference*	ØB	ØG	ØD	L	R	S	F	M	N	Z	Peso *Weight* Kgs.
XR0800	80	70	28.20	52	15	60	25	76	3.0	40	3.15
XR0950	95	80	28.20	52	15	60	25	76	3.0	40	4.40
XR1050	105	90	28.20	52	15	60	25	76	3.0	40	5.40
XR1150	115	100	28.20	52	15	60	25	79	6.0	40	6.60

* Unidades en milímetros.
Units in milimeters.

Fondo diseñado para articulación americana ATP (Página 32).
End design for ATP articulated yoke (Page 32).

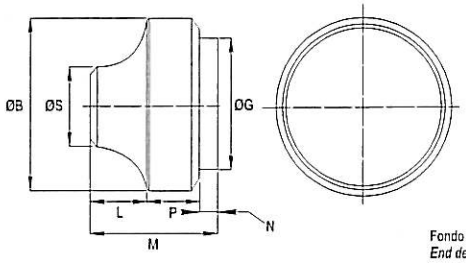


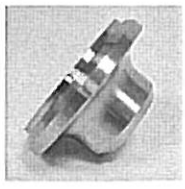
Material en St52.3 / *Material in St52.3.*
Otras medidas bajo pedido / *Other measures on request.*

Fondo XS
End-plug XS XS

Referencia *Reference*	ØB	ØG	ØS	L	P	M	N	Peso *Weight* Kgs.
XS0600	60	50	30.00	15	5	23	3.0	0.70
XS0700	70	60	40.00	20	15	38	3.0	1.25
XS0800	80	70	50.00	20	15	38	3.0	1.65
XS0900	90	80	50.00	20	15	38	6.0	2.30
XS0950	95	80	50.00	20	15	38	3.0	2.45
XS1050	105	90	50.00	22	15	40	3.0	3.25
XS1150	115	100	50.00	22	15	43	6.0	3.75

* Unidades en milímetros.
Units in milimeters.

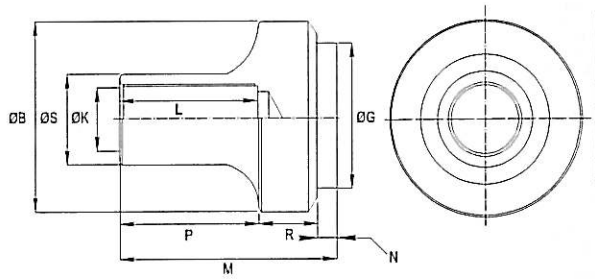




Fondo diseñado para rótulas TNC (página 24).
End design for TNC ball joint (page 24).
Material en St52.3 / *Material in St52.3.*

XT

Fondo XT
End-plug XT



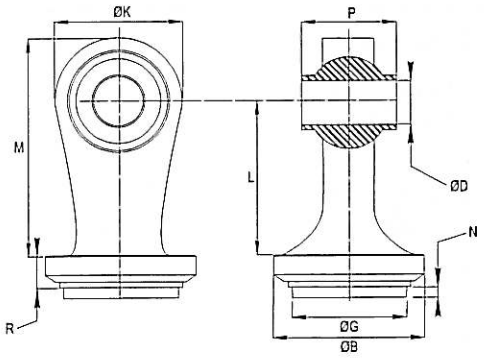
Referencia *Reference*	ØB	ØG	ØK	ØS	L	R	P	M	N	Peso *Weight* Kgs.
XT0800	80	70	M30x3	50	100	15	100	118	3.0	2.15
XT0950	90	80	M36x3	50	112	15	100	118	3.0	2.80
XT1050	95	80	M36x3	60	112	15	100	118	3.0	3.15
XT1150	105	90	M36x3	60	112	15	100	121	6.0	3.65

* Unidades en milímetros.
Units in milimeters.

Fondo diseñado para rótulas RPS y articulaciones ATP (ajustable).
End design for ball joints RPS and articulated yokes ATP (adjustable).

SW

Culote con rótula fundición SW
Weld-on ball end SW



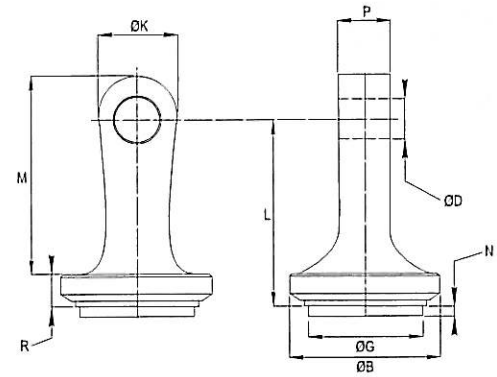
Referencia *Reference*	ØB	ØG	ØK	ØD	L	R	P	M	N	Peso *Weight* Kgs.
SW0700	70	60	85	25.40	105	10	51	150	2.0	2.00
SW0800	80	70	85	25.40	105	10	51	150	2.0	2.30
SW0950	95	80	85	25.40	105	10	51	150	2.0	2.65
SW0960	95	80	85	32.20	108	10	51	150	2.0	2.55
SW1050	105	90	85	25.40	108	10	51	150	2.0	3.05

* Unidades en milímetros.
Units in milimeters.

Material en St52.3 / *Material in St52.3.*
Superficie protegida contra la corrosión / Protected surface against corrosion.

SZ

Culote forjado SZ
Forged end SZ



Referencia *Reference*	ØB	ØG	ØK	ØD	L	R	P	M	N	Peso *Weight* Kgs.
SZ0850	80	70	50	28.20	90	18	39	100	4.5	2.50
SZ0900	90	80	50	28.20	90	18	39	100	4.5	2.55
SZ1050	105	90	50	28.20	88	18	39	102	4.5	2.65

* Unidades en milímetros.
Units in milimeters.

Material en St52.3 / *Material in St52.3.*
Superficie protegida contra la corrosión / Protected surface against corrosion.

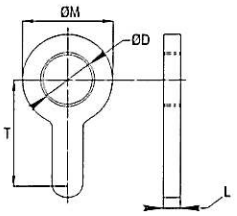
FIJACIONES
Atachments

Blocador PS
Top link looking collars PS

PS

Referencia *Reference*	ØD	ØM	T	L	Peso *Weight* Kgs.
PS0205	M30x3	45	60.00	6.0	0.15
PS0210	M36x3	60	88.00	10.0	0.20

* Unidades en milímetros.
Units in milimeters.



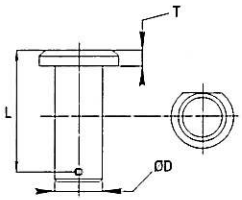
*Tratamiento zinc trivalente / *Zinc trivalent treatment.*

Perno articulación ATP
ATP pin articulated yoke

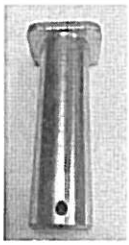
PA

Referencia *Reference*	ØD	T	L	Peso *Weight* Kgs.
PA0120	28	5.0	90	0.15

* Unidades en milímetros.
Units in milimeters.



* Incluye pasador.
Elastic pin included.

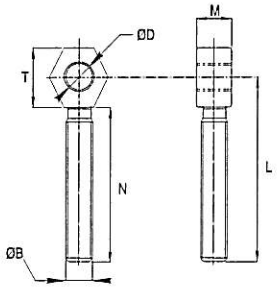


Perno roscado articulación PR
Threaded pin articulated yoke PR

PR

Referencia *Reference*	ØD	ØB	T	L	M	N	Peso *Weight* Kgs.
PR0300	28	M30x3	55	220	40	190	0.15

* Unidades en milímetros.
Units in milimeters.



*Tratamiento zinc trivalente / *Zinc trivalent treatment.*

Tuerca exagonal soldable TEX
Exagonal nut TEX

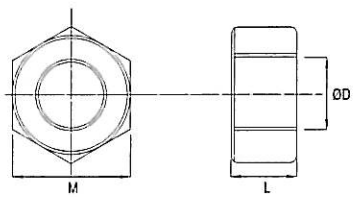
TEX

Referencia *Reference*	D	L	M	Peso *Weight* Kgs.
TEX0030	M30x3	35	55	0.15

* Unidades en milímetros.
Units in milimeters.

**Tuerca soldable para tercer punto Serie 600.
Calidad material : St52.3.

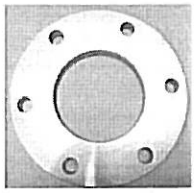
***Lock nuts for Series 600 hydraulik top link.*
Material grade: St52.3.



*Material : Acero St52.3 / *Material : St52.3 steel.*

Brida estándar BR
Standard flange BR

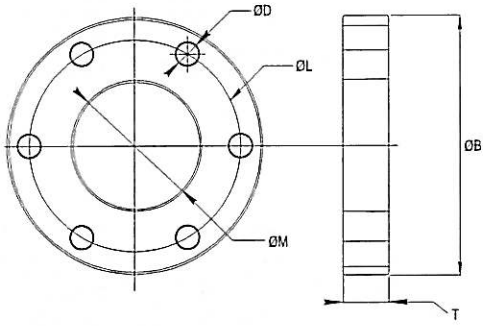
BR



Referencia *Reference*	ØB	ØM	T	ØL	ØD	Peso *Weight* Kgs.
BRL0400	80	39	10.00	67	7.00	0.15
BRL0500	100	49	12.00	82	9.00	0.20
BRL0600	125	59	12.00	103	11.00	0.30
BRL0700	145	69	12.00	120	13.00	7.00
BRL0800	170	79	15.00	142	15.00	7.00
BRL0900	170	89	15.00	142	15.00	7.00
BRL1000	202	99	15.00	170	17.00	0.15
BRP0750	145	74	24.00	120	13.00	0.20
BRP0850	170	84	24.00	142	15.00	0.30
BRP0950	170	94	24.00	142	15.00	7.00
BRP1050	202	104	24.00	170	17.00	7.00
BRP1150	202	114	28.00	170	17.00	7.00
BRP1400	250	138	30.00	210	21.00	7.00
BRP1500	280	148	30.00	230	21.00	7.00

* Unidades en milímetros. *Units in milimeters.*

BRL Brida Serie ligera / *Light flange series.*
BRP Brida Serie pesada / *Heavy duty flange series.*



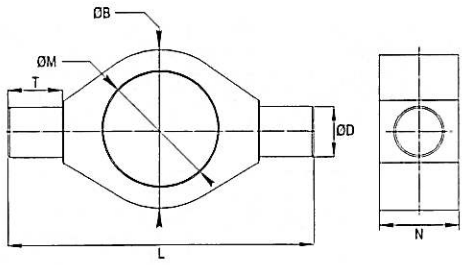
*Material en St52.3 / *Material in St52.3.*

Muñón MS
Weld on trunnion MS

MS

Referencia *Reference*	ØD	ØB	T	L	M	N	Peso *Weight* Kgs.
MS0500	25	65	15	95	50	29	0.15
MS0600	30	75	20	115	60	34	0.20
MS0700	30	90	20	130	70	34	0.30
MS0800	40	105	30	165	80	54	7.00
MS0850	40	105	30	165	85	54	7.00
MS0900	45	120	35	190	90	58	7.00
MS0950	45	120	35	190	95	58	0.30
MS1000	45	130	35	200	100	58	7.00
MS1050	45	130	35	200	105	58	7.00
MS1150	50	145	40	225	115	68	7.00

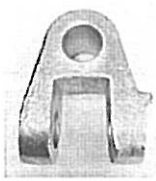
* Unidades en milímetros. *Units in milimeters.*



*Material en St52.3 / *Material in St52.3.*

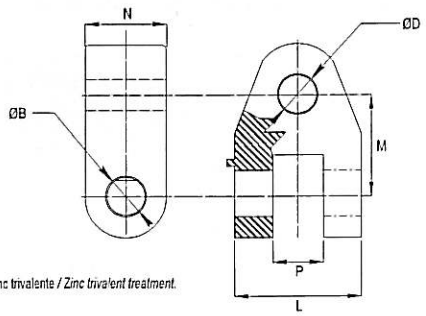
Cruceta articulada ATP
Articulated yoke ATP

ATP



Referencia *Reference*	ØD	ØB	M	L	P	N	Peso *Weight* Kgs.
ATP0219	19.40	28.20	63	87	40	50	2.15
ATP0220	20.40	28.20	63	87	40	50	2.12
ATP0222	22.40	28.20	63	87	40	50	2.10
ATP0225	25.40	28.20	63	87	40	50	2.05
ATP0228	28.40	28.20	63	87	40	50	1.98
ATP0230	30.40	28.20	63	87	40	50	1.95
ATP0232	32.40	28.20	63	87	40	50	1.90

* Unidades en milímetros. *Units in milimeters.*



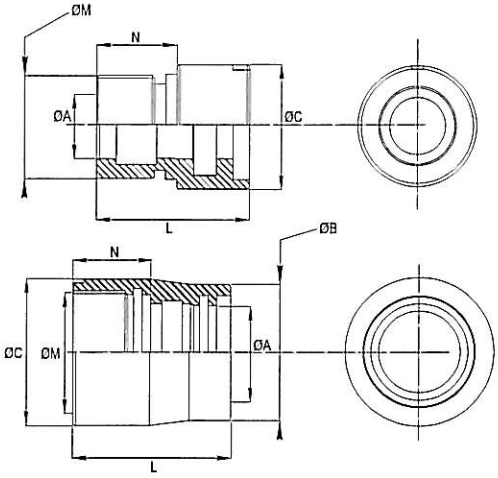
*Tratamiento zinc trivalente / *Zinc trivalent treatment.*

Cabeza guía CGSE
Head bush CGSE

CGSE

Referencia *Referencia*	ØA	ØB	ØC	ØM	L	N	Peso *Weight* Kgs.
CGSE032025	25	32	32	37x1.5	33	8	0.45
CGSE040030	30	40	40	45x2.0	42	7	0.60
CGSE045035	35	45	45	45x2.0	42	7	0.85
CGSE050040	40	50	50	55x2.0	44	8	1.35
CGSE050045	45	50	50	55x2.0	44	8	1.25
CGSE055050	50	55	55	55x2.0	44	8	1.20
CGSE060055	55	60	60	65x2.0	47	8	1.95
CGSE065060	60	65	65	65x2.0	47	8	1.85
CGSE080070	70	80	80	65x2.0	47	8	1.70
CGSE100090	90	100	100	65x2.0	47	8	1.55

* Unidades en milímetros.
Units in milimeters.



Características:

* Material en DIN C45.
* Cabeza guiada.
* Posibilidad de intercambiar guías:
Resistencia al esfuerzo radial:
Resina acetal 30N/mm².
Resina fenólica 300N/mm².
* Collarín: Labios asimétricos 90 shores.
* Rascador metálico
* Junta tórica 90 shores.

Technical data:

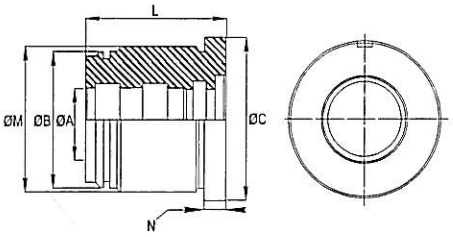
* *Material in DIN C45.*
* *Guided head .*
* *Ability of change guides:*
Radial stress resistance:
Acetal resine 30N/mm².
Phenolic resine 300N/mm².
* *Rod seal : 90 shores asymmetrical lips.*
* *Metal wiper*
* *O-ring : 90 shores.*

Cabeza guía CGDE
Head bush CGDE

CGDE

Referencia *Reference*	ØA	ØB	ØC	ØM	L	N	Peso *Weight* Kgs.
CGDE032020	20	32	40	37x1.5	33	8	0.45
CGDE040020	20	40	50	45x2.0	42	7	0.60
CGDE040025	25	40	50	45x2.0	42	7	0.85
CGDE050025	25	50	60	55x2.0	44	8	1.35
CGDE050030	30	50	60	55x2.0	44	8	1.25
CGDE050035	35	50	60	55x2.0	44	8	1.20
CGDE060025	25	60	70	65x2.0	47	8	1.95
CGDE060030	30	60	70	65x2.0	47	8	1.85
CGDE060035	35	60	70	65x2.0	47	8	1.70
CGDE060040	40	60	70	65x2.0	47	8	1.55
CGDE070035	35	70	80	75x2.0	51	10	2.85
CGDE070040	40	70	80	75x2.0	51	10	2.45
CGDE070045	45	70	80	75x2.0	51	10	2.25
CGDE070050	50	70	80	75x2.0	51	10	2.00
CGDE080035	35	80	90	85x2.0	56	10	0.30
CGDE080040	40	80	90	85x2.0	56	10	7.00
CGDE080045	45	80	90	85x2.0	56	10	7.00
CGDE080050	50	80	90	85x2.0	56	10	7.00
CGDE090040	40	90	100	95x2.0	60	10	0.15
CGDE090045	45	90	100	95x2.0	60	10	0.20
CGDE090050	50	90	100	95x2.0	60	10	0.20
CGDE090060	60	90	100	95x2.0	60	10	0.30
CGDE100050	50	100	115	106x2.0	66	15	7.00
CGDE100060	60	100	115	106x2.0	66	15	7.00

* Unidades en milímetros.
Units in milimeters.



Características:

* Material en DIN C45.
* Cabeza guiada.
* Posibilidad de intercambiar guías :
Resistencia al esfuerzo radial:
Resina acetal 30N/mm².
Resina fenólica 300N/mm².
* Collarín: Doble labio compacto 93 shores.
* Rascador metálico
* Junta tórica 90 shores.

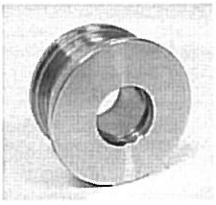
Technical data:

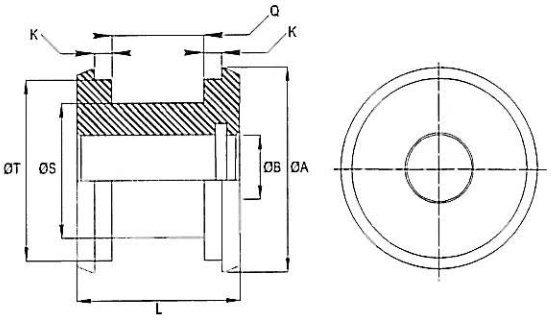
* *Material in DIN C45.*
* *Guided head.*
* *Ability of change guides :*
Radial stress resistance:
Acetal resine 30N/mm².
Phenolic resine 300N/mm².
* *Rod seal: Compact double lip 93 shores.*
* *Metal wiper*
* *O-ring : 90 shores.*

Referencia *Reference*	ØA	ØB	ØC	ØM	L	N	Peso *Weight* Kgs.
CGDE100070	70	100	115	106x2.0	66	15	7.00
CGDE120060	60	120	140	126x2.0	68	15	0.60
CGDE120070	70	120	140	126x2.0	68	15	0.85
CGDE120080	80	120	140	126x2.0	68	15	1.35
CGDE130070	70	130	150	136x2.0	75	15	1.25
CGDE130080	80	130	150	136x2.0	75	15	1.20
CGDE130090	90	130	150	136x2.0	75	15	1.95

OTD

Pistón estándar OTD
Standard piston OTD





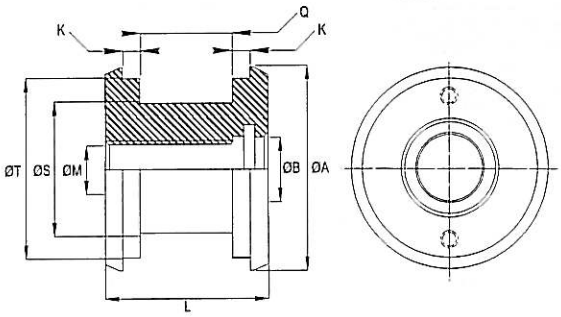
Material en DIN C45 / *Material in DIN C45.*
Montaje pistón modo : DPS (3 piezas) y DAS (5 piezas).
Mounting mode : DPS (3 pieces) and DAS (5 pieces).

Referencia *Reference*	ØA	ØB	ØS	ØT	K	Q	L	Peso *Weight* Kgs.
OTD032016	32	16	24	28.00	3.20	15.50	25	0.45
OTD040016	40	16	32	36.00	3.20	15.50	35	0.60
OTD040022	40	22	32	36.00	3.20	15.50	35	0.85
OTD050022	50	22	38	46.00	4.20	20.50	35	1.35
OTD050026	50	26	38	46.00	4.20	20.50	35	1.25
OTD060022	60	22	48	56.00	4.20	20.50	35	1.20
OTD060026	60	26	48	56.00	4.20	20.50	35	1.95
OTD070026	70	26	58	66.00	4.20	20.50	36	1.85
OTD070032	70	32	58	66.00	4.20	20.50	36	1.70
OTD080026	80	26	66	86.00	5.20	22.50	44	1.55
OTD080032	80	32	66	86.00	5.20	22.50	44	2.85
OTD090032	90	32	76	96.00	5.20	22.50	44	2.45
OTD100040	100	40	86	96.00	5.20	22.50	47	1.85
OTD120040	120	40	106	116.00	5.20	22.50	47	1.70
OTD130060	130	60	105	122.60	9.52	25.40	60	1.55

* Unidades en milímetros.
Units in milimeters.

OTR

Pistón roscado OTR
Threaded piston OTR



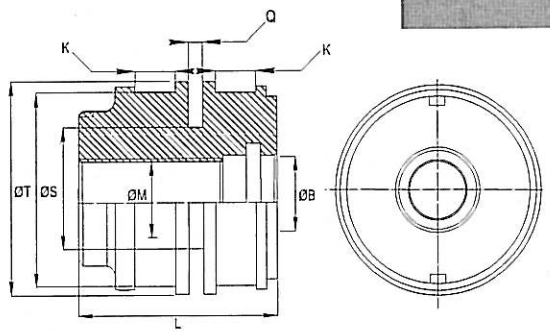
Material en DIN C45 / *Material in DIN C45.*
Montaje pistón modo : DPS (3 piezas) y DAS (5 piezas).
Mounting mode : DPS (3 pieces) and DAS (5 pieces).

Referencia *Reference*	ØA	ØB	ØS	ØT	ØM	K	Q	L	Peso *Weight* Kgs.
OTR032012	32	16	24	28.00	M12x1.5	3.20	15.50	25	0.45
OTR040016	40	20	32	36.00	M16x1.5	3.20	15.50	35	0.60
OTR050020	50	25	38	46.00	M20x1.5	4.20	20.50	35	0.85
OTR060020	60	25	48	56.00	M20x1.5	4.20	20.50	35	1.35
OTR070030	70	35	58	66.00	M30x2.0	4.20	20.50	36	1.25
OTR080030	80	35	66	76.00	M30x2.0	5.20	22.50	44	1.20
OTR090030	90	35	76	86.00	M30x2.0	5.20	22.50	44	1.95
OTR100030	100	35	86	96.00	M30x2.0	5.20	22.50	47	1.85
OTR120040	120	45	106	116.00	M40x2.0	5.20	22.50	47	1.70
OTR130040	130	45	105	122.60	M40x2.0	9.52	25.40	60	1.55

* Unidades en milímetros.
Units in milimeters.

OTX

Pistón OTX
Piston OTX



Material en DIN C45 / *Material in DIN C45.*
Montaje pistón modo : Wynseal (Poliuretano). - Glydring Tf+Bz
Mounting mode : Wynseal (Polyurethane). - Glydring Tf+Bz

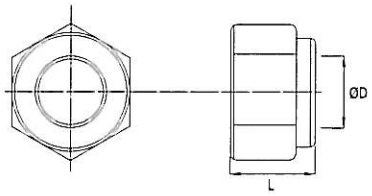
Referencia *Reference*	ØA	ØB	ØS	ØT	ØM	K	Q	L	Peso *Weight* Kgs.
OTX070030	70	35	54.50	65.00	M30x2.0	9.65	6.30	57	0.45
OTX080030	80	35	64.50	75.00	M30x2.0	9.65	6.30	57	0.60
OTX090040	90	45	74.50	85.00	M40x2.0	9.65	6.30	65	0.85
OTX100040	100	45	79.00	95.00	M40x2.0	9.65	8.10	65	1.35
OTX120050	120	55	99.00	115.00	M50x2.0	15.00	8.10	85	1.25
OTX130050	130	55	109.00	125.00	M50x2.0	15.00	8.10	85	1.20

* Unidades en milímetros.
Units in milimeters.

Tuerca autoblocante DIN 985 — TAB
Nylon lock nut Din 985

Referencia *Reference*	ØD	L	Métrica *Metric*	Peso *Weight* Kgs.
TAB014150	14	14	1.50	0.00
TAB020150	20	20	1.50	0.00
TAB024200	24	24	2.00	0.00
TAB030200	30	30	2.00	0.00
TAB039300	39	39	3.00	0.00

* Unidades en milímetros.
Units in milimeters.

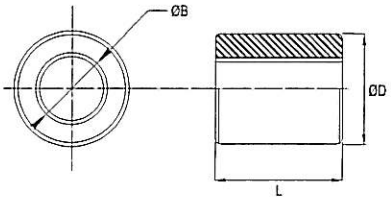


Normativa Din985 / *Norm Din985.*
Tratamiento zinc-plata / *Zinc trivalent treatment.*
Acero 8.8 / *Steel 8.8 .*

Racor alimentación (hembra) — RSH
Threaded port (female)

Referencia *Reference*	ØD	ØB	L	Peso *Weight* Kgs.
RSH02016	20	1/8"	16	0.00
RSH04016	20	1/4"	16	0.00
RSH04035	20	1/4"	35	0.00
RSH08016	25	3/8"	16	0.00
RSH08040	25	3/8"	40	0.00
RSH10020	30	1/2"	20	0.00
RSH10045	30	1/2"	45	0.00
RSH12020	38	3/4"	20	0.00

* Unidades en milímetros.
Units in milimeters.

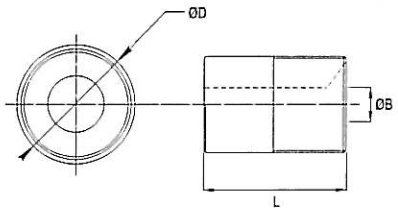


Acero C15 / *Steel C15.*
Buena soldabilidad / *Good weldability.*

Racor alimentación (macho) — RSM
Threaded port (male)

Referencia *Reference*	ØD	ØB	L	Peso *Weight* Kgs.
RSM02020	1/8"	4.0	20	0.00
RSM04024	1/4"	6.0	24	0.00
RSM06024	3/8"	8.0	24	0.00
RSM08030	1/2"	11.0	30	0.00
RSM10035	3/4"	14.0	35	0.00

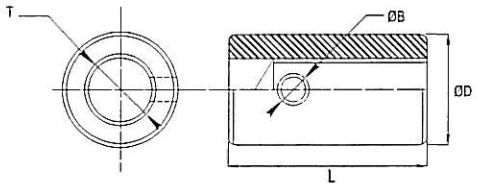
* Unidades en milímetros.
Units in milimeters.



Acero C15 / *Steel C15.*
Buena soldabilidad / *Good weldability.*

RTH

Racor alimentación para tub
Threaded port for pipe



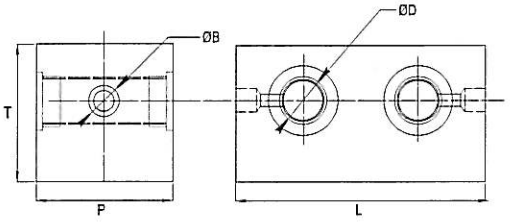
Referencia *Reference*	ØD	ØB	T	L	Peso *Weight* Kgs.
RTH02050	25	12	1/4	50	0.00
RTH04050	25	12	3/8	50	0.00
RTH06055	30	15	1/2	55	0.00

* Unidades en milímetros.
Units in milimeters.

Acero C15 / *Steel C15.*
Buena soldabilidad / *Good weldability.*

RTX

Racor alimentación doble
Double threaded port



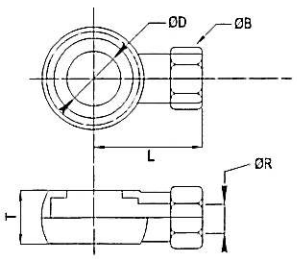
Referencia *Reference*	ØD	ØB	T	L	P	Peso *Weight* Kgs.
RTX02015	1/4"	12	50.00	70	30.00	0.00
RTX04016	3/8"	14	50.00	80	30.00	0.00
RTX06016	1/2"	15	60.00	90	40.00	0.00

* Unidades en milímetros.
Units in milimeters.

Acero C15 / *Steel C15.*
Buena soldabilidad / *Good weldability.*

RR

Esférico estándar
Standard banjo



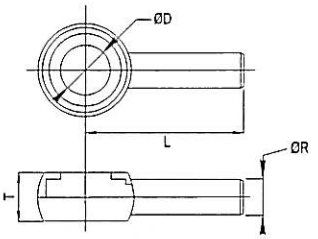
Referencia *Reference*	ØD	ØB	T	L	ØR	Peso *Weight* Kgs.
RR02015	1/4"	22	14.50	44	12.00	0.07
RR04016	3/8"	22	17.00	39	12.00	0.07
RR06016	1/2"	27	22.00	45	15.00	0.14

* Unidades en milímetros.
Units in milimeters.
Se suministra con tuerca y bicono / *Supplied whit nut and bicone.*
Acero C15 / Steel C15.

Esférico prensado corto
Short pressing banjo
RC

Referencia *Reference*	ØD	ØB	T	L	ØR	Peso *Weight* Kgs.
RC02015	1/4"	22	14.50	44	12.00	0.04
RC04016	3/8"	22	17.00	39	12.00	0.05
RC06016	1/2"	27	22.00	45	15.00	0.09

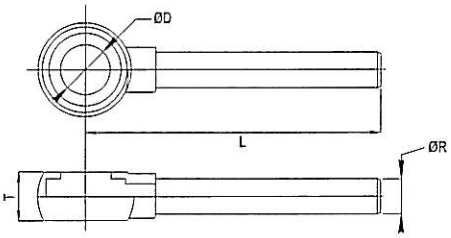
* Unidades en milímetros.
Units in milimeters.

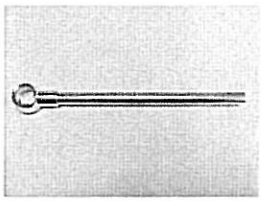


Esférico prensado medio
Medium pressing banjo
RM

Referencia *Reference*	ØD	ØB	T	L	ØR	Peso *Weight* Kgs.
RM02015	1/4"	22	14.50	112	12.00	0.08
RM04016	3/8"	22	17.00	106	12.00	0.08
RM06016	1/2"	27	22.00	109	15.00	0.13

* Unidades en milímetros.
Units in milimeters.

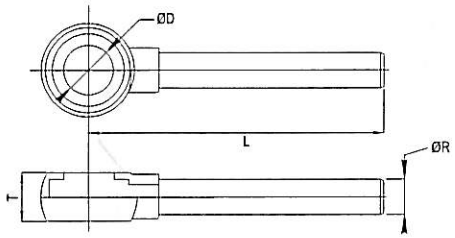


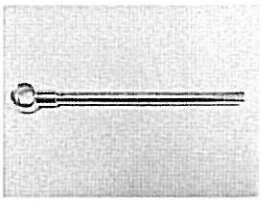


Esférico prensado largo
Long pressing banjo
RL

Referencia *Reference*	ØD	ØB	T	L	ØR	Peso *Weight* Kgs.
RL02015	1/4"	22	14.50	205	12.00	0.11
RL04016	3/8"	22	17.00	199	12.00	0.11
RL06016	1/2"	27	22.00	202	15.00	0.18

* Unidades en milímetros.
Units in milimeters.

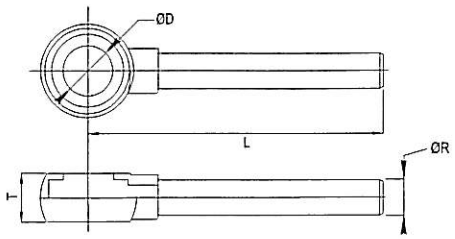


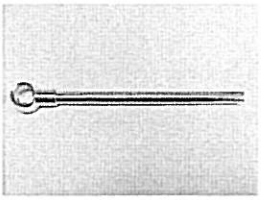


Esférico prensado extra-largo
Extra-long pressing banjo
RE

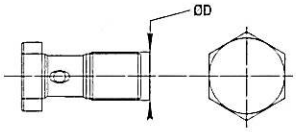
Referencia *Reference*	ØD	ØB	T	L	ØR	Peso *Weight* Kgs.
RE02015	1/4"	22	14.50	305	12.00	0.15
RE02020	1/4"	22	14.50	405	12.00	0.19
RE04016	1/4"	22	14.50	505	12.00	0.23
RE04020	3/8"	22	17.00	300	12.00	0.15
RE06016	3/8"	27	17.00	400	12.00	0.18
RE06020	3/8"	27	17.00	500	12.00	0.22

* Unidades en milímetros.
Units in milimeters.





RK — Tornillo simple / *Simple screw*

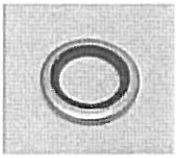


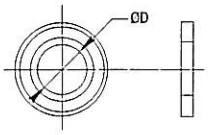
Referencia *Reference*	ØD	Peso *Weight* Kgs.
RK02015	1/4"	0.04
RK04016	3/8"	0.05
RK06016	1/2"	0.09

* Unidades en milímetros. *Units in milimeters.*

Acero C15 / *Steel C15.*
Tornillo simple / *Single screw.*

RK — Tornillo simple / *Simple screw*



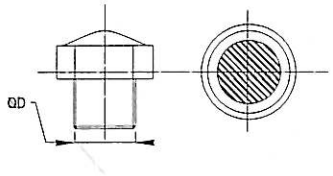


Referencia *Reference*	ØD	Peso *Weight* Kgs.
RW02015	1/4"	0.08
RW04016	3/8"	0.08
RW06016	1/2"	0.13

* Unidades en milímetros. *Units in milimeters.*

Arandela metalbuna / *Metalbuna washer.*
Otras medidas bajo pedido / *Other measures on request.*

RK — Tornillo simple / *Simple screw*

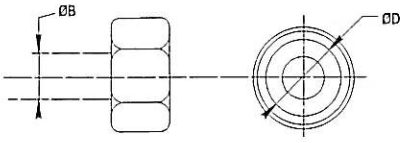


Referencia *Reference*	ØD	Peso *Weight* Kgs.
RD02015	1/4"	0.11
RD04016	3/8"	0.11
RD06016	1/2"	0.18

* Unidades en milímetros. *Units in milimeters.*

Silenciador de bronce / *Bronze silencer plug.*
Otras medidas bajo pedido / *Other measures on request.*

RK — Tornillo simple / *Simple screw*



Referencia *Reference*	ØD	ØB	Peso *Weight* Kgs.
RZ02015	1/4"	10	0.15
RZ02020	3/8"	12	0.19
RZ04016	1/2"	22	0.23

* Unidades en milímetros. *Units in milimeters.*

Tuerca tipo DL / *DL nut type.*
Otras medidas bajo pedido / *Other measures on request.*

COMPONENTES
Components

Barra cromada Ck45
Chromed bar Ck45

01

Referencia *Referencia*	Ø	Peso *Weight* Kg/m
01-000016	16	1.58
01-000020	20	2.47
01-000025	25	3.85
01-000030	30	5.55
01-000035	35	7.55
01-000040	40	9.86
01-000045	45	12.50
01-000050	50	15.40
01-000055	55	17.27
01-000060	60	22.20
01-000065	65	26.00
01-000070	70	30.20
01-000075	75	34.70

Referencia *Referencia*	Ø	Peso *Weight* Kg/m
01-000080	80	39.50
01-000085	85	52.40
01-000090	90	49.91
01-000095	95	55.61
01-000100	100	61.62
01-000110	110	74.60
01-000115	115	81.54
01-000120	120	88.60
01-000125	125	96.30
01-000127	127	96.75
01-000130	130	104.00
01-000140	140	121.00
01-000150	150	139.00

Características técnicas:

*Tolerancia sobre diámetro ISO f7 / h7.
*Espesor de cromo 20 - 25 µ.
*Resistencia a la corrosión:
- 120 h según norma ASTM B117.
*Rugosidad (Ra) 0,2 µ.
*Grado de material Ck45.

Características mecánicas:

*Carga de rotura: 600-700 N/mm².
*Límite elástico: >340 N/mm².
*Alargamiento: 17%.
*Dureza Min. 207 HB .

Technical data :

**Tolerance on diameter ISO f7 / h7.*
**Chrome thickness 20 - 25 µ.*
**Corrosion resistance:*
120 h according to norm ASTM B117.
**Rugosity (Ra) 0,2 µ.*
**Material Ck45.*

Mechanical characteristics :

**Breaking load: 600-700 N/mm².*
**Elastic limit: >340 N/mm².*
**Elongation: 17%.*
**Hardness Min. 207 HB .*

* Unidades en milímetros.
Units in milimeters.

Barra cromada 42CrMo4
Chromed bar 42CrMo4

02

Referencia *Referencia*	Ø	Peso *Weight* Kg/m
02-000016	16	1.58
02-000020	20	2.47
02-000025	25	3.85
02-000030	30	5.55
02-000035	35	7.55
02-000040	40	9.86
02-000045	45	12.50
02-000050	50	15.40
02-000055	55	17.27
02-000060	60	22.20
02-000065	65	26.00
02-000070	70	30.20
02-000075	75	34.70

Referencia *Referencia*	Ø	Peso *Weight* Kg/m
02-000080	80	39.50
02-000085	85	52.40
02-000090	90	49.91
02-000095	95	55.61
02-000100	100	61.62
02-000110	110	74.60
02-000115	115	81.54
02-000120	120	88.60
02-000125	125	96.30
02-000127	127	96.75
02-000130	130	104.00
02-000140	140	121.00
02-000150	150	139.00

Características técnicas:

*Tolerancia sobre diámetro ISO f7 / h7.
*Espesor de cromo 20 - 25 µ.
*Resistencia a la corrosión:
- 120 h según norma ASTM B117.
*Rugosidad (Ra) 0,2 µ.
*Grado de material 42CrMo4.

Características mecánicas:

*Carga de rotura: 900-1200 N/mm².
*Límite elástico: >650 N/mm².
*Alargamiento: 12%.
*Dureza Min. 241 HB.

Technical data :

**Tolerance on diameter ISO f7 / h7.*
**Chrome thickness 20 - 25 µ.*
**Corrosion resistance:*
120 h according to norm ASTM B117.
**Rugosity (Ra) 0,2 µ.*
**Material : 42CrMo4.*

Mechanical characteristics :

**Breaking load : 900-1200 N/mm².*
**Elastic limit: >650 N/mm².*
**Elongation: 12%.*
**Hardness Min. 241 HB .*

* Unidades en milímetros.
Units in milimeters.

Tubo de conducción
Feed pipe

10

Referencia *Referencia*	Ø Exterior *Outside*	Espesor *Thickness* mm.	Peso *Weight* Kg/m
10-100015	10	1.5	0.32
10-100020	10	2.0	0.40
10-100025	10	2.5	0.47
10-120020	12	2.0	0.50
10-120025	12	2.5	0.59
10-120030	12	3.0	0.67
10-140020	14	2.0	0.60
10-140025	14	2.5	0.71
10-140030	14	3.0	0.82

Referencia *Referencia*	Ø Exterior *Outside*	Espesor *Thickness* mm.	Peso *Weight* Kg/m
10-150020	15	2.0	0.65
10-150025	15	2.5	0.78
10-150030	15	3.0	0.89
10-160020	16	2.0	0.70
10-160025	16	2.5	0.84
10-160030	16	3.0	0.97
10-180020	18	2.0	0.79
10-180025	18	2.5	0.96
10-180030	18	3.0	1.11

Características técnicas:

*Calidad de acero St52.
*Acabado BK.
*Según Norma : DIN2393.

Características mecánicas:

*Carga de rotura : 600-700 N/mm².
*Límite elástico: >650 N/mm².
*Alargamiento: 4%.

Technical data:

**Steel St52.*
**Finished BK.*
**According to norm : DIN2391.*

Mechanical characteristics:

**Breaking load: 600-700 N/mm².*
**Elastic load : >650 N/mm².*
**Elongation: 4%.*

* Unidades en milímetros.
Units in milimeters.

11 Tubo lapeado H8
Seamless cold-drawn tube H

Características técnicas:	Características mecánicas:
*Material St52. Tol. h8.	*Carga de rotura : >570 N/mm².
*Acabado BK+S.	*Límite elástico: >470 N/mm².
*Según Norma : DIN2391 / EN10305-1.	*Alargamiento: 14%.
	*Rugosidad (Ra) 0.2 µ.

Technical data:	*Mechanical characteristics:*
*Steel St52. Tol. h8.	*Breaking load: >570 N/mm².
*Finished BK+S.	*Elastic load : >470 N/mm².
*According to norm : DIN2391 / EN10305-1.	*Elongation: 14%.
	*Rugosity (Ra) 0.2 µ.

* Unidades en milímetros. *Units in milimeters.*

Referencia *Referencia*	Ø Int.	Ø Ext.	Espesor mm.	Peso *Weight* Kg/m
11-040050	40	50	5.0	5.55
11-050060	50	60	5.0	6.78
11-050065	50	65	7.5	10.65
11-060070	60	70	5.0	8.05
11-060075	60	75	7.5	12.48
11-070080	70	80	5.0	9.25
11-070085	70	85	7.5	14.35
11-080090	80	90	5.0	10.50
11-080095	80	95	7.5	16.18
11-090100	90	100	5.0	11.71
11-090105	90	105	7.5	18.05
11-090110	90	110	10.0	24.70
11-100115	100	115	7.5	19.88

Referencia *Referencia*	Ø Int.	Ø Ext.	Espesor mm.	Peso *Weight* Kg/m
11-120140	120	140	10.0	32.10
11-130150	130	150	10.0	34.55
11-130160	130	160	15.0	53.65
11-140160	140	160	10.0	37.00
11-140170	140	170	15.0	57.35
11-150170	150	170	10.0	39.50
11-150180	150	180	15.0	61.05
11-160180	160	180	10.0	41.95
11-160190	160	190	15.0	64.75
11-180200	180	200	10.0	46.90
11-180210	180	210	15.0	74.15
11-200220	200	230	15.0	79.55
11-250300	250	300	25.0	169.55

12 Tubo lapeado H9
Welded cold-drawn tube H9

Características técnicas:	Características mecánicas:
*Material St52. Tol. h9.	*Carga de rotura : >630 N/mm².
*Acabado BK.	*Límite elástico: >540 N/mm².
*Según Norma : DIN2393.	*Alargamiento: 7%.
	*Rugosidad (Ra) 0.4 -0.6 µ.

Technical data:	*Mechanical characteristics:*
*Steel St52. Tol. h9.	*Breaking load: >630 N/mm².
*Finished BK.	*Elastic load : >540 N/mm².
*According to norm : DIN2393.	*Elongation: 7%.
	*Rugosity (Ra) 0.4 - 0.6 µ.

* Unidades en milímetros. *Units in milimeters.*

Referencia *Referencia*	Ø Int.	Ø Ext.	Espesor mm.	Peso *Weight* Kg/m
12-032040	32	40	4.0	3.55
12-035045	35	45	5.0	4.95
12-040050	40	50	5.0	5.55
12-045055	45	55	5.0	6.17
12-050060	50	60	5.0	6.78
12-055065	55	65	5.0	7.40
12-060070	60	70	5.0	8.01
12-060075	60	75	7.5	12.50
12-065075	65	75	5.0	8.63
12-070080	70	80	5.0	9.25
12-070085	70	85	7.5	14.30
12-080090	80	90	5.0	10.50
12-080095	80	95	7.5	16.20

Referencia *Referencia*	Ø Int.	Ø Ext.	Espesor mm.	Peso *Weight* Kg/m
12-032040	32	40	4.0	3.55
12-035045	35	45	5.0	4.95
12-040050	40	50	5.0	5.55
12-045055	45	55	5.0	6.17
12-050060	50	60	5.0	6.78
12-055065	55	65	5.0	7.40
12-060070	60	70	5.0	8.01
12-060075	60	75	7.5	12.50
12-065075	65	75	5.0	8.63
12-070080	70	80	5.0	9.25
12-070085	70	85	7.5	14.30
12-080090	80	90	5.0	10.50
12-080095	80	95	7.5	16.20

13 Tubo cromado H9
Chromed tube H9

Características técnicas:	Características mecánicas:
*Material St52. Tol. h9.	*Carga de rotura : >630 N/mm².
*Acabado BK.	*Límite elástico: >540 N/mm².
*Según Norma : DIN2393.	*Alargamiento: 7%.
	*Cromado 25 - 30 micras.

Technical data:	*Mechanical characteristics:*
*Steel St52. Tol. h9.	*Breaking load: >630 N/mm².
*Finished BK.	*Elastic load : >540 N/mm².
*According to norm : DIN2393.	*Elongation: 7%.
	*Chromed 25 - 30 microns.

* Unidades en milímetros. *Units in milimeters.*

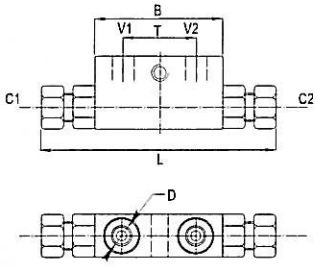
Referencia *Referencia*	Ø Int.	Ø Ext.	Espesor mm.	Peso *Weight* Kg/m
13-032040	32	40	4.0	3.55
13-035045	35	45	5.0	4.95
13-040050	40	50	5.0	5.55
13-045055	45	55	5.0	6.17
13-050060	50	60	5.0	6.78
13-055065	55	65	5.0	7.40
13-060070	60	70	5.0	8.01
13-060075	60	75	7.5	12.50
13-065075	65	75	5.0	8.63

Referencia *Referencia*	Ø Int.	Ø Ext.	Espesor mm.	Peso *Weight* Kg/m
13-032040	32	40	4.0	3.55
13-035045	35	45	5.0	4.95
13-040050	40	50	5.0	5.55
13-045055	45	55	5.0	6.17
13-050060	50	60	5.0	6.78
13-055065	55	65	5.0	7.40
13-060070	60	70	5.0	8.01
13-060075	60	75	7.5	12.50
13-065075	65	75	5.0	8.63

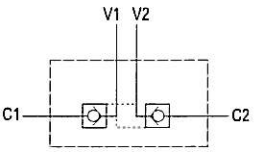
VALVULAS HIDRAULICAS
Hydraulic valves

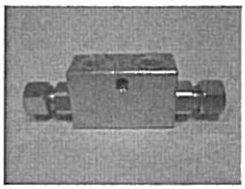
Antirretorno pilotada (extracorta) — VADP
Operated check valve

Referencia *Reference*	D	B	T	L	Peso *Weight* Kg
VADP004EX	1/4"	64	36.00	134	0.65
VADP008EX	3/8"	64	36.00	134	0.63



Esquema hidráulico
Hydraulic diagram



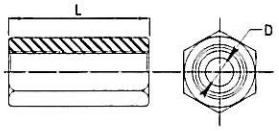


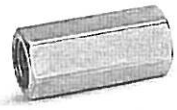
Presión máxima / *Max. pressure* : 350 bar.
Aplicación :
Las válvulas VADP son usadas para blocar cilindros de doble efecto.
Aplication :
VADP valves are used to lock double acting hydraulic cylinders.

Cuerpo : Acero bicromatado
Body : Zinc plated steel.
Apertura muelle : 4.0 bar.
Open spring: 4.0 bar.

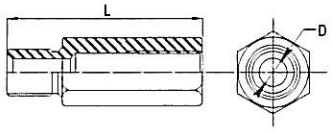
Racor para válvula VP — RV..P/S
VP valve adapter

Referencia *Reference*	ØD	L	Peso *Weight* Kg
RVP004	1/4"	50	0.15
RVP006	3/8"	59	0.20
RVP008	1/2"	65	0.30





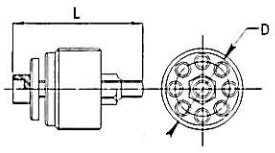
Referencia *Reference*	ØD	L	Peso *Weight* Kg
RVS004	1/4"	50	0.15
RVS006	3/8"	59	0.20
RVS008	1/2"	65	0.30



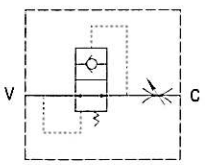
Cuerpo : Acero bicromatado
Body : Zinc plated steel.

Válvula paracaídas VP — VP
Burst valve VP

Referencia *Reference*	ØD	L	Peso *Weight* Kg
VP004	1/4	23	0.15
VP006	3/8	23	0.20
VP008	1/2	34	0.30



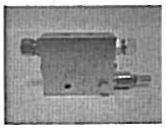
Esquema hidráulico
Hydraulic diagram



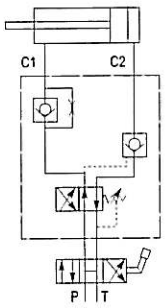
Cuerpo : Acero pavonado.
Body : Blued steel.

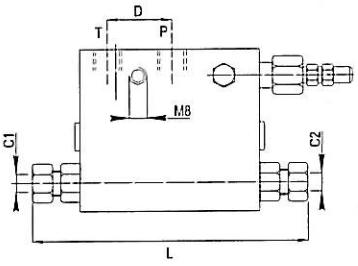
VALVULAS HIDRAULICAS
Hydraulic valves

VSEB — Válvula volteo de arado / *Plough over-turning valve*



Esquema hidráulico
Hydraulic diagram



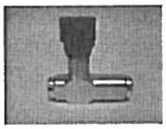


Cuerpo : Acero bicromatado
Body : Zinc plated steel.

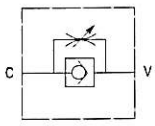
Referencia *Referencia*	D	P	T	L	C1 / C2 Ø	Peso *Weight* Kg
VSEB03800	30	3/8"	3/8"	142	12.00	1.99
VSEB03802	30	3/8"	3/8"	142	12.00	1.99

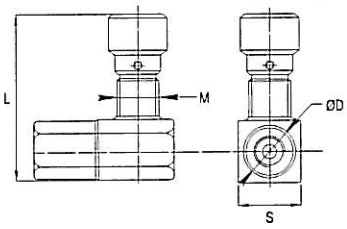
Presión máxima / *Max. pressure* : 400 bar.
Aplicación :
Las válvulas VSEB son usadas para voltear cilindros de simple y doble efecto.
Aplication :
VSEB valves are used to turning plough in double and single acting cylinders.
Inversión a / *Inversion to* : 140 bar.

VRU — Reguladora de caudal 90° / *90° Flow regulator valve*



Esquema hidráulico
Hydraulic diagram



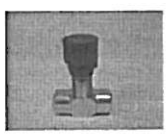


Cuerpo : Acero bicromatado
Body : Zinc plated steel.
*Apertura: 0.5 bar.
Cracking pressure: 0.5 bar.

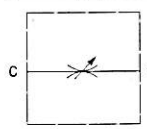
Referencia *Referencia*	ØD	S	M	L	Caudal máx. *Max. flow Lt./min.*	Presión máx. *Max. pressure Bar*	Peso *Weight* Kg
VRU04002	1/4"	25	M22x1.5	82	15.0	350	0.37
VRU04004	3/8"	25	M22x1.5	82	30.0	350	0.36
VRU04006	1/2"	30	M22x1.5	87	50.0	350	0.47
VRU04008	3/4"	40	M35x1.5	108	80.0	280	1.10
VRU04010	1"	40	M35x1.5	129	80.0	250	1.00

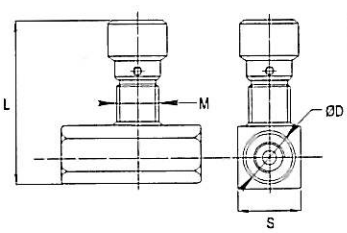
* Regulación: Unidireccional.
Regulation: One way.

VRB — Reguladora de caudal 90° / *90° Flow regulator valve*



Esquema hidráulico
Hydraulic diagram





Cuerpo : Acero bicromatado
Body : Zinc plated steel.

Referencia *Referencia*	ØD	S	M	L	Caudal máx. *Max. flow Lt./min.*	Presión máx. *Max. pressure Bar*	Peso *Weight* Kg
VRB04002	1/4"	25	M22x1.5	82	15.0	350	0.42
VRB04004	3/8"	25	M22x1.5	82	30.0	350	0.42
VRB04006	1/2"	30	M22x1.5	87	50.0	350	0.59
VRB04008	3/4"	40	M35x1.5	108	80.0	280	1.36
VRB04010	1"	40	M35x1.5	129	80.0	250	1.39

* Regulación: Bidireccional.
Regulation: Two ways.

USO Y MONTAJE
Use and mounting

¡Visitenos

PRECAUCIONES

Procedimiento a seguir si usted quiere soldar soportes por su cuenta:
* Extraer el vástago por completo.
* Proteger el tubo y el vástago de salpicaduras de soldadura.
* No colocar en ningún caso la masa en las partes móviles de cilindro, como son el tubo y el vástago.
* Introducir el vástago sólo cuando éste se haya enfriado por completo.
* No soldar fijaciones a lo largo de la carrera del cilindro, ya que podría existir deformaciones en el tubo.

ALMACENAJE

Los cilindros hidráulicos deben estar almacenados en un ambiente seco con una temperatura homogénea, para evitar la condensación. En cada caso, el almacenamiento debe ser en un área libre de vapores y materiales corrosivos.

Durante el almacenaje, las entradas de aceite deben estar selladas con tapones de plástico para evitar la entrada de partículas extrañas que hagan reducir la vida útil de cilindro. Si estos tapones son extraviados en el transporte, se deberán reponer.

Cuando los cilindros hidráulicos se van a almacenar por un largo periodo de tiempo, o incluso a la intemperie, es necesario lubricar el cilindro en su interior, para evitar la corrosión del mismo.

INSTALACION

Durante la instalación del cilindro, se deberá tener en cuenta de evitar las tensiones del propio cilindro. En particular se debe observar las tensiones laterales, ya que pueden originar una importante disfunción en el cilindro.

Todos los componentes del cilindro como, tubos, racores, etc...deben ser limpiados con extremo cuidado, antes de la instalación, para evitar daños en el buen funcionamiento del cilindro.

Bastimec, s.l. no se hace responsable de un mal uso y montaje de sus productos, así como del mal funcionamiento que pueda originar.

La instalación debe ser realizada por personal cualificado!

RECAMBIOS

Para los cilindros hidráulicos de la serie 100 y 200, los kits de juntas están disponibles en nuestros almacenes. Para sustitución de vástagos y tubos deben ser consultados individualmente.

Existe la posibilidad de intercambiar los kits de juntas estándar de nuestros cilindros, por kits de juntas para trabajos intensivos con presiones hasta 400 bars.

OPERACION Y FUNCIONAMIENTO

Asegúrese que durante el funcionamiento del cilindro, no haya personas alrededor del cilindro.

Asegúrese que la temperatura del aceite se encuentra en los límites de las especificaciones técnicas del cilindro.

Para comprobar el funcionamiento del cilindro hidráulico introducir y extraer el vástago sin presión.

PRECAUTIONS

Procedure to follow if you want to weld ends on their own:
* *Remove the rod completely.*
* *Protect the tube and rod from weld spatter.*
* *Do not place in any case the mass of moving parts cylinder such as tube and rod.*
* *Insert the rod only after it has cooled completely.*
* *No welding fixtures along the cylinder stroke, as it could distortions exist in the tube.*

STORAGE

The hydraulic cylinders must be stored in a dry enviroment whit a uniform temperature to prevent condensation. In each case, the storeage shuold be in an area free of fumes and materials corrosive.

During storage, oil entries must be sealed whit plastic plugs to prevent entry of foreign particles that make reduce cylinder life. If these caps are lost in the transport, should be replaced.

When the hydraulic cylinders will be stored for a long period time, or even outdoors, it is necessary to lubricate the cylinder in inside, to prevent corrosion thereof.

MOUNTING

During the installation of the cylinder, should be taken into account to avoid tensions of the cylinder. In particular it should be noted tensions side, as they can cause significant dysfuction in the cylinder.

All components of the cylinders as pipes, fittings, etc... must be very carefully cleaned before to the installation to avoid damage in the fuctioning of the cylinder.

Bastimec, s.l. is not responsible for misuse and their assembly products, as well as malfuctions that may result.

The installation must be performed by qualified personnel!

SPARE PARTS

For the hydraulic cylinders series 100 and 200, seal kits are available in our stores. For replacement of rods and tubes should be consulted individually.

There is the possiblity of exchanging the standard seal kits our cylinders, seals kits for intensive work with pressures up 400 bars.

OPERATION AND PERFORMANCE

Make sure that during operation of the cylinder, no people around the cylinder.

Make sure the oil temperature is in the limits of the technical specifications of the cylinder.

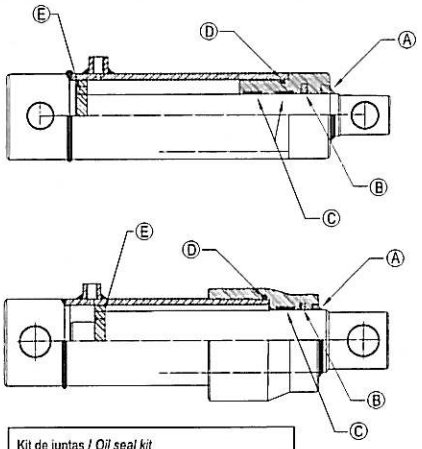
To test the operation of the hydraulic cylinder insert and remove rpd whithout pressure.

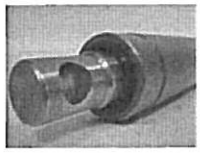
KITS DE JUNTAS
Oil seals kits

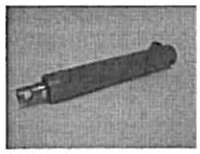
Kit de juntas serie 100 — KJSE
100 series seals kits

Referencia *Reference*	Ø Vástago *Ø Rod*	Ø Tubo *Ø Tube*
KJSE032040025	25	32/40
KJSE040050030	30	40/50
KJSE045055035	35	45/55
KJSE050060040	40	50/60
KJSE050060045	45	50/60
KJSE055065050	50	55/65
KJSE060070055	55	60/70
KJSE065075060	60	65/75
KJSE065075060	60	65/75
KJSE080090070	70	80/90
KJSE100115090	90	100/115

* Otras medidas bajo consulta.
Other measures on request.







Kit de juntas / *Oil seal kit*

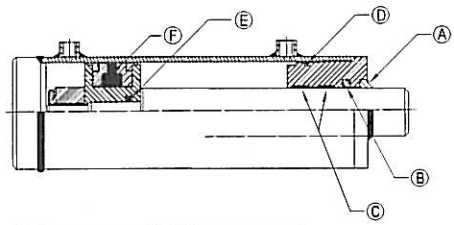
A Rascador metálico / *Metal wiper.*
B Collarin poliuretano / *Polyurethane rod seal.*
C Guías resina acetal / *Acetal resine guides.*
D Junta tórica 90 shores / *O-ring 90 shores.*
E Tuerca KM / *KM nut.*

Kit de juntas serie 200 — KJDE
200 series seals kits

Referencia *Reference*	Ø Vástago *Ø Rod*	Ø Tubo *Ø Tube*
KJDE032040020	20	32/40
KJDE040050020	20	40/50
KJDE040050025	25	40/50
KJDE050060025	25	50/60
KJDE050060030	30	50/60
KJDE050060035	35	50/60
KJDE060070030	30	60/70
KJDE060070035	35	60/70
KJDE060070040	40	60/70
KJDE070080035	35	70/80
KJDE070080040	40	70/80
KJDE070080045	45	70/80
KJDE070080050	50	70/80
KJDE080090035	35	80/90
KJDE080090040	40	80/90

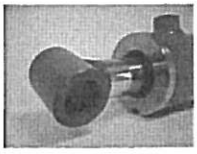
* Otras medidas bajo consulta.
Other measures on request.

Referencia *Reference*	Ø Vástago *Ø Rod*	Ø Tubo *Ø Tube*
KJDE080090045	45	80/90
KJDE080090050	50	80/90
KJDE090100040	40	90/100
KJDE090100045	45	90/100
KJDE090100050	50	90/100
KJDE090100060	60	90/100
KJDE100115050	50	100/115
KJDE100115060	60	100/115
KJDE100115070	70	100/115
KJDE120140060	60	120/140
KJDE120140070	70	120/140
KJDE120140080	80	120/140
KJDE130150070	70	130/150
KJDE130150080	80	130/150
KJDE130150090	90	130/150

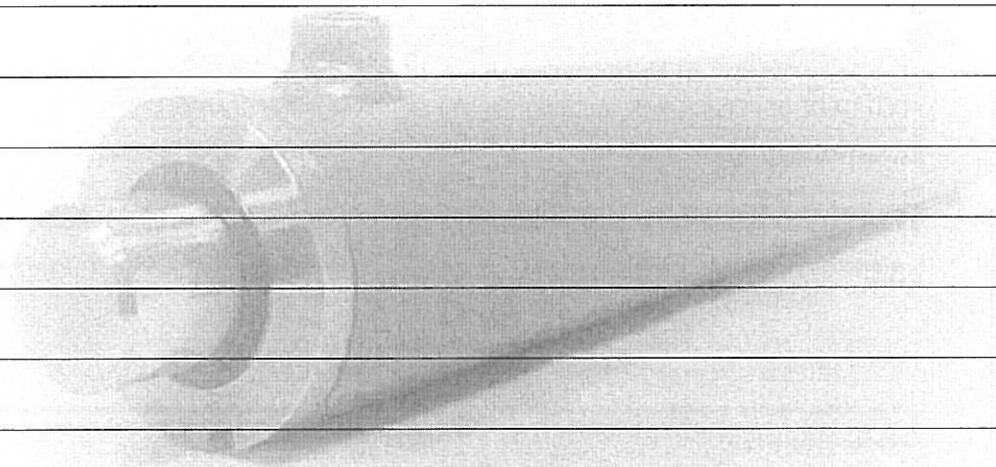


Kit de juntas / *Oil seal kit*

A Rascador metálico / *Metal wiper.*
B Collarin poliuretano / *Polyurethane rod seal.*
C Guías resina acetal / *Acetal resine guides.*
D Junta tórica 90 shores / *O-ring 90 shores.*
E Junta tórica 90 shores / *O-ring 90 shores.*
F Junta Pistón DBM / *DBM piston seal.*



Notas
Notes



CONDICIONES GENERALES
General conditions

POWER IN MOTION

CONDICIONES GENERALES DE GARANTÍA

Todos los productos fabricados por Bastimec tienen una garantía por defectos de fabricación de 12 meses contando desde la fecha de envío.

La empresa Bastimec, s.l. concede a los productos de su fabricación una garantía estipulada conforme la Directiva 1999/44 CE Parlamento europeo 25 de Mayo de 1.999.

Dicha garantía quedará anulada cuando :

1º Haya constancia de manipulación del producto sin la perceptiva autorización del fabricante.

2º Si la anomalía reside en un desgaste anormal, debido a las condiciones de trabajo.

3º Si no se han adoptado las medidas y disposiciones del fabricante para su montaje.

WARRANTY CONDITIONS

All products manufactured by Bastimec have a warranty of 12 moths by manufacturing defects from the date of shipment.

The company Bastimec, s.l. granted to products manufactured by a warranty set out under Directive 1999/44 EC European Parlamient May 25, 1999.

This warranty is avoid if :

1st. Handling the product whithout the perceptual authorization from the manufacturer.

2nd. If the fault lies in abnormal wear due to working conditions.

3rd. If you have taken the measures and provisions of the manufacturer assembly.

POLÍTICA DE DEVOLUCIONES

Sólo se admitirán devoluciones de productos estándar:

*Previo acuerdo de ambas partes.
*Si el cilindro no se ha contaminado con aceite.
*Si el cilindro se encuentra en buen estado (golpes, arañazos, etc..).

No se admiten devoluciones de cilindros no estándar, ni aplicaciones especiales.

RETURN POLICY

Return accepted only standard products:

**Whit the agreement of both parties.*
**If the cylinder is not contaminated whit oil.*
**If the cylinder is in good conditions (bumps, scratches, etc..).*

No refunds for non-standard cylinders, or specials applications.

TRANSPORTE

Los cilindros hidráulicos deben ser transportados con cuidado y suavidad, ya que existe la posibilidad de dañar las conexiones de entrada del cilindro y tener problemas de fuga de aceite.

Es importante asegurarse, que los cilindros hidráulicos durante el transporte contienen los tapones de plástico en los racores, ya que si no los tienen, pueden contaminar el interior del cilindro con particulas extrañas que pueden reducir su vida útil. En caso de que se hayan extraviado, aconsejamos reponerlos inmediatamente.

TRANSPORT

The hydraulic cylinders must be transported carefully and gently, as there is a possibility of damaging the cylinder inlet and problems whit oil leak.

It is important to ensure that the hydraulic cylinders during contain transport plastic plugs in the fittings, since otherwise they do, can contaminate the inside of the cylinder whit foreign particles that can reduce its life. If thatwere lost, advisable to replace inmediately.

DECLARACION

Los productos descritos en este catálogo están destinados a su incorporación en máquinas a las cuales se aplica la directiva CEE 98/37/CE (Directiva de máquinas) y posteriores enmiendas.

Se prohíbe poner en funcionamiento nuestros productos antes de que la máquina o la instalación a la que van a incorporarse sea declarada conforme a las disposiciones de la citada directiva.

STATEMENT

The products described in this catalogue are intended for incorporation into machine in which the policy applies ECC 98/37/EC (Machinery Directive) and subsequent amendments.

It is forbidden to operate our products before machine or installation that is declared will be joining under provisionjs of this directive.

CATÁLOGO DE CILÍNDROS HIDRÁULICOS AGRÍCOLAS

sistemas hidroneumáticos

PEDRO OLIVA